



# ANNUAL REPORT 2020 - 2021

FACULTY OF MEDICINE  
HEALTH SCIENCES CENTER  
KUWAIT UNIVERSITY



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## TABLE OF CONTENTS

### Administration

Office of Vice Dean for Clinical Affairs, Consultation & Training	7
Office of Vice Dean for Academic Affairs	16
Office of Vice Dean for Research & Postgraduate Studies	40
Administrative Manager	105
Legal Consultation Department	133

### Academic Departments

Anatomy	135
Biochemistry	155
Community Medicine & Behavioral Sciences	175
Medicine	204
Microbiology	248
Nuclear Medicine	298
Obstetrics & Gynecology	318
Organ Transplant	359
Pediatrics	371
Pathology	409
Pharmacology & Toxicology	431
Physiology	452
Psychiatry	476
Radiology	485
Surgery	498

### Centers & Units

Biomedical Engineering Unit	526
Medical Photography & Illustration Unit	530

# **ADMINISTRATION**

**VICE-DEAN FOR CLINICAL AFFAIRS,  
CONSULTATION & TRAINING**

## **INTRODUCTION**

Most of the activities of the office of Vice-Dean for Clinical Affairs, Consultation & Training Office are included in the sections which work under this office. The office of the Vice Dean is for Clinical Affairs, Consultation & Training office is involved with various administrative activities and financial aspects of the Faculty. Following are brief descriptions of various tasks performed by this office in the past Academic year:

### **1. Instrument Committee:**

This year department's budget and all requests were reviewed by the Faculty Instrument Committee and processed by the Vice-Dean for Clinical Affairs, Consultation & Training Office.

### **2. Support Academic Staff**

#### **Appointed,**

One Teaching Assistant in Community Medicine & Behavioural Sciences.

#### **Promotions,**

Three Teaching Assistants were promoted (Microbiology),( Physiology).

#### **Advertisement,**

This year's advertisement was posted for; 8 Teaching Assistants and 1 Clinical Instructor.

### **3. Secondment:**

Secondment to/from the Ministry of Health (MOH) and the Faculty of Medicine (FOM) for the academic year 2020/2021, was processed by the Faculty Secondment Committee headed by the Vice Dean for Clinical Affairs, Consultation & Training.

Other reports received by the units under this office are attached.



**STAFF MEMBERS:**

**Vice-Dean for Clinical Affairs, Consultation & Training Office: Prof. Maie D. Al-Bader**

**Support Staff:**

Ms. Hessah. Ibrahim Faraj	Administration coordinator & Transaction
Ms. Fatima Zahra	Executive Secretary

**Consultation Office:**

Mr. Mohammad Taher	Chairman
Ms. Yasmeen Al- Bader	Administrative Coordinator & Transaction

**Medical Photography & Illustration Unit**

Mr. Mohammad Siddique	Chief Technician
Ms. Dana Khalid Jarallah	Media Researcher
Mr. Zakir Hussain	Technician

**Bio-Medical Engineering Unit:**

Dr. Ali Shuaib	Director
Dr. Ali Boursley	Member
Dr. Laila Habib	Member
Mr. Vladmir Zika	Chief Technician
Mr. Rudolf Kusy	Chief Technician

## SAFETY COMMITTEE

### Health and Safety Committee Members:

Dr. Wadha Al-Fouzan	Chairman		
Dr. Naheel Alnafeesi	Member	Resigned	17 <sup>th</sup> June 2020
Dr. Ahmad Alserri	Member	Joined	24 <sup>th</sup> June 2020
Dr. Mohammed Al-Onaizi	Member		
Mr. Abdullah Fadel	Member		
Mr. Abdulaziz Al-Mesbah	Member		
Ms. Zahraa Al-Tamimi	Member	Resigned	3 <sup>rd</sup> December 2020
Ms. Dina A.Khalik	Rapporteur		

The 2020 Health and Safety Committee was formed by the Dean of Medicine Executive Committee on 2<sup>nd</sup> June 2020. A welcome online meeting was held on 10<sup>th</sup> June 2020, by the Chairman of the Committee, in which the objectives and responsibilities of the committee were discussed and documented. The main objective of the committee was to develop, issue and implement protocols for preventing the spread of (SARS-CoV-2) virus causing the COVID-19 Pandemic in the Faculty of Medicine. The Committee guidelines will be based on and in accordance with any MOH-issued guidelines, and are subject to change accordingly.

In the following weeks the committee held twelve online meetings, and two online meetings with the Strategic Curriculum Teaching Plan committees. The Committee held multiple meetings with concerned departments and organized OSPE/OSCE and written exam logistics. Lecture hall capacity and ratio of invigilators were revised and published.

The committee discussed all the safety related aspects to implement regulations of MOH and Kuwait University for preventing the spread of the virus in the Faculty, and issued protocols and action plans, all these protocols were uploaded on the HSC Website through the Vice-Dean's office for Clinical Affairs, <http://www.hsc.edu.kw/fom/HealthSaftyGuidline.aspx> The protocols were also distributed in Teams for Academic Staff, Support Staff and Students (See below).

Adherence to the protocols was observed closely by the Committee through inspections, safety reports were sent to the office of the Vice-Dean's office for Clinical Affairs. The Committee will continue to monitor and report any safety breach incident to ensure safety of staff and students during the COVID-19 Pandemic.

**A- Environmental cleaning during (SARS-CoV-2) COVID-19 Pandemic**

The building was inspected, a comprehensive protocol and an action plan was put in place to ensure the safety of the building for the return of employee and students. A detailed protocol is attached, Appendix (1)&(6) , in summary:

- 1- The building was cleaned and disinfected, before the return of the employee and students, approved disinfectants suitable for each surface was used in accordance with the WHO recommendations and MOH.
- 2- Frequent touch surfaces such as door handles, elevator buttons, intercom buttons etc. are cleaned and disinfected frequently before and during official work.
- 3- The floor is cleaned before beginning of the official working hours, and after departure of workers and students.
- 4- Temperature is checked at entrances for students and employees, without allowing those over **37.5°C** to enter.
- 5- Educational safety signage used throughout the building to encourage hand hygiene, wearing masks and Social distancing.
- 6- Floor stickers were used to enforce social distancing.
- 7- Elevators capacity determined to ensure social distancing.
- 8- An educational safety Video displayed on the Plasma TV.
- 9- Obliging everyone to wear a mask while working and not to enter the building without wearing it.
- 10- A Protocol was issued to deal with suspected cases as per the regulations of MOH.
- 11- Lecture, exam Halls and MDL were rearranged to ensure social distancing.
- 12- The Mosque, cafeteria and common rooms were closed to avoid crowding.
- 13- Enough number of hand sanitizers were provided throughout the building.
- 14- The Biological waste is sterilized by a specialized contractor company before leaving the building.

**B- Return to work protocol for Faculty members and support staff during (SARS-CoV-2) COVID-19 Pandemic**

Comprehensive guidelines were put in place to ensure the safety of Faculty members and support staff and contracted staff returning to work during the COVID-19 Pandemic. A detailed protocol is attached, Appendix (2), in summary:

Employee were urged to avoid crowding and respect social distancing, wear masks all the time while in the building, disinfect/wash hands regularly, adhere to floor signs, adopt correct hygiene and cough etiquette, ensure hygienic disposal of masks and PPE, wash clothes upon returning home, conduct virtual meetings as possible, stay home if unwell

and follow MOH regulations, communicate with the H&S committee for any problem or query.

The committee replied to all quires sent by employee in this regard.

**C- Guidelines in handling Paper Examination and OSCE Material under COVID-19 Pandemic**

The H&S committee worked with the Strategic Curriculum Teaching Plan committees to issue detailed instructions and safety guidelines for instructors/ invigilators/ simulated patients and students to ensure the safety of students and concerned staff involved in the exams during the COVID-19 Pandemic. A detailed protocol is attached, Appendix (3), in summary:

Appropriate Safety signage and hand sanitizer stations were provided in all workstations. Students desks were rearranged in all halls assigned for the exams e.g lecture theatres/ MDL/Cafeteria/Seminar rooms to comply with the 2-meters distance regulations.

A detailed instruction & safety guideline on attending the Written Examination/OSCE were emailed to students 2-weeks ahead of the examination. A plan for phase III exams is under preparation.

Representatives from H&S committee and Centre for Medical Education monitored the first exam conducted on 4<sup>th</sup> August 2020, from the entry of students at the entry gates till they have left the building, a report was sent to the office of the Vice-Dean's for Clinical Affairs.

The committee replied to all quires sent by students in this regard.

**D- Guidelines for safe return to hospital clinical rotations for Medical Students during (SARS-CoV-2) COVID-19 Pandemic**

In accordance with the Ministry of Health, the Health and Safety Committee issued detailed guidelines for students during the gradual transition back to hospital rotation. Appendix (4).

The committee replied to all quires sent by students in this regard.

## **E- Protocol for Safe Return to Clinical and Non-Clinical Laboratories in FOM During COVID-19 Pandemic**

Comprehensive guidelines were put in place to ensure the safety of workers in Clinical and Non-Clinical laboratories during the COVID-19 Pandemic. A detailed protocol is attached, Appendix (5), in summary:

Safety officers were nominated from each department; their contacts were updated. The protocol instructed the concerned staff to perform a site inspection and regularly test eyewash stations and emergency showers and report any problems to the Service Department. Inspect compressed gas cylinders and ensure that hazardous material is stored safely. Ensure availability of biohazard waste bins/containers and dispose the waste safely. Include proper signage and social distancing indicators to reinforce face covering, physical distancing and personal hygiene. Post maximum occupancy signage for restrooms and common rooms in the department. Induct new staff and students, and develop a detailed cleaning schedule, relocate shared equipment/workstations needed to follow physical distancing guidelines. Make sure that Clinical samples, especially samples from known or suspected COVID-19, are handled and processed in a BSL-2 Laboratory, SARS-CoV-2 (COVID-19) virus isolation in Cell Culture should be strictly conducted in a BSL-3 facility using BSL-3 practice. All samples coming from outside the Faculty, should be submitted at the Reception Area in the Ground floor. Consult with the Health and Safety Committee for any concerns regarding the safety measures. Routine inspection to departments will take place in the future.

The committee studied all quires received from the departments and units of the faculty and followed every issue till the problem is solved.

## **F- Safety Workshops**

The following proposed workshops were not conducted due to the ban and curfew took place this year during the COVID-19 Pandemic. A plan has been set to conduct them virtually due to the current situation:

1. Waste Management.
2. Fire extinguisher use and First-aid training courses for technicians and Research Assistants/, Associates.
3. Safety instructions for cleaners in their own language.
4. Mandatory yearly General Safety Instruction Lecture for all HSC personal.
6. Radiation-Safety Instruction Workshop for all HSC personal.

#### **G- Emergency Information Guide (EIG) software**

This program, prepared by the previous committee, allows direct access to several online data banks that provide safety information for chemicals (e.g. MSDS, Pubmed Safety sheets etc.), code of practice how to deal with specific emergency situations (e.g. needle stick injury etc.) and a complete set of emergency numbers. It was installed on all laboratory computers in the HSC. The Program will be revised/updated and we will work on installing it on the HSC Website.

#### **H- Inspection:**

1. The committee intend to conducted comprehensive safety inspection for all Scientific Departments, laboratories who are not compliant with safety measures will be given time to rectify, reports will be sent to the Chair of each department through the Vice-Dean's office for Clinical Affairs.
2. The committee prepared a database for the location and quantity of fire extinguishers in all location of FOM.

#### **I- On-going safety concerns**

There are still on-going safety-related issues in the FOM:

1. Reception Area for Receiving samples in the ground floor still not activated.
2. Exit escape in the Microbiology department still not solved.

#### **J- Future plans and suggestions**

- Emergency showers and eye wash facilities should be installed in every department in the hallways. Request for construction of these units was sent by the former committee to the university administration but no action was taken up to date.
- Strict enforcement of lab coat ban in general areas, like cafeteria, lecture halls etc.
- Prohibition of smoking near the entrances of the faculty building.
- Conduction of fire drill every year.
- Conduction of a General Safety Instruction Lecture to all HSC personnel every year.
- Safety instruction lectures to all cleaners and porters in their own language.
- Induction for new employee and students (including lab-walks).

**Appendices:**

- (1) Environmental cleaning during (SARS-CoV-2) COVID-19 Pandemic.
- (2) Return to work protocol for Faculty members and support staff during (SARS-CoV-2) COVID-19 Pandemic.
- (3) Guidelines in handling Paper and OSCE Examination Material under COVID-19 Pandemic.
- (4) Guidelines for safe return to hospital clinical rotations for Medical Students during (SARS-CoV-2) COVID-19 Pandemic.
- (5) Protocol for Safe Return to Clinical and Non-Clinical Laboratories in FOM During COVID-19 Pandemic.
- (6) FOM Risk Area's Map

**VICE-DEAN FOR  
ACADEMIC AFFAIRS**



## **INTRODUCTION**

This was yet another successful year for the Faculty. The Faculty continued its efforts to achieve excellence in imparting medical education and moulding the future health care professionals for the nation. The Faculty is committed to providing patient-centered care and quality medical education throughout the pandemic. This has included providing care to those directly impacted by the COVID-19 virus, as well developing innovative ways to continue to provide care to patients with a variety of medical issues.

### **Medical Undergraduate Program**

This year students were admitted to the Faculty of Medicine directly according to the admission policy adopted by Kuwait University since 2015 as outlined below:

- 1) High school students who hold secondary school certificate (Science major), or its equivalent, with a minimum percentage of 85% in the high school marks.
- 2) Priority of admission will be given to applicants who have the highest equivalent Grade Point Average of the secondary school percentage and the results of aptitude tests as follows:
  - High School grades - 65%
  - Result of English language aptitude test - 15%
  - Result of Mathematics aptitude test - 10%
  - Result of Chemistry aptitude test - 10%

The students of Faculty of Medicine, Dentistry and Pharmacy have a common curriculum during the first year. The Faculty of Medicine is administratively responsible to administer the first year curriculum.

A total of 152 students were admitted to the Faculty of Medicine during this academic year. The highest comprehensive score was 100% and the lowest was 93.38%. Students who have scored a GPA of 2.00 or more are promoted to the second year.

The second year students take foundation courses in basic sciences and English language before they embark upon system based courses. The foundation courses are delivered in an integrated fashion during the second year and prepare these students to handle the system based modules in year 3 and 4 in an effective manner.

During the current academic year, the total student population in the Faculty was 1052. The final examinations for M.D. degree were held during the period of June 10 to July 7, 2021 (*Appendix 'A'*). Two external examiners were invited online to participate in the Community Medicine final examinations (*Appendix 'B'*). A total of 92 students were awarded with the degree of M.D. in July 2021 (*Appendix 'C'*).

The total number of students graduated with B.M., B.Ch./M.D. from the Faculty so far is 2644. This is the 38<sup>th</sup> batch of medical graduates.

The students of Faculty of Dentistry attend along with the medical students from year 1 to 4 and they take the medical curriculum. Faculty of Medicine is responsible for teaching and examining the Dental students during this period.

### **Curriculum Review**

Experts are invited from abroad to look into the curriculum and advise the Faculty on the improvement. The curriculum had an overall readjustment in 2005-06 with both vertical and horizontal integration, with active student involvement. Self-learning process is practiced in this curriculum. Various committees were appointed at that time to make the plans and to oversee the implementation of the curriculum.

Since the current curriculum is in force for the past several years, the Curriculum, Assessment and Admissions Committee had appointed a Curriculum Review Committee, chaired by the Vice-Dean Academic Affairs to review the Phase II and III curriculum.

However, this committee could not present its final recommendations to the Curriculum Assessment and Admission Committee. Therefore, the Curriculum, Assessment and Admissions committee has appointed a new Curriculum Review Committee for the clinical program. This committee is entrusted with the task of preparing a curriculum map for the Clinical Program.

The aim of this review committee is defined as follows:

#### **I. OVERSEE PHASE III CURRICULUM TO DEFINE**

A. Overall design/organisation structure

B. Content

- Course overview
- Course Goals
- Course objectives (competencies)
- Student duties
- Student Assessment

#### **II. OVERSEE STUDENT PORTFOLIO**

- Define design
- Content

#### **III. TO DEVELOP THE CURRICULUM MAP**

#### **IV. TO SET THE TIME LINE TO FINALISE THE TASK**

## **Curriculum Development**

### **Phase I Program (Year 1)**

The preprofessional program was revised in 2003-04 and a new curriculum was developed by the Faculty of Medicine in collaboration with other Health Science Center Faculties. The requirements for implementing the preprofessional program were identified by the multidisciplinary teams responsible for various courses. This curriculum was revisited periodically and some changes were made in the light of the feedback from students and staff.

New elective courses for the first year students were chosen to complement science courses to encourage critical thinking. These courses will be delivered by various faculties. Electives will be taught in the Health Science Center campus in order to spare the students the inconvenience of commuting between the campuses.

### **Phase II Program**

Phase II program includes second, third and fourth years. The first batch of students have entered the Phase II of the current curriculum in September 2006. The program took off well. Frequent meetings between the students, program coordinators, Department Chairmen and tutors were held between Dean and Vice-Deans to ensure the smooth and efficient delivery of the new curriculum. The Vice-Dean Academic Affairs from time to time closely monitored the new curriculum.

The Phase II curriculum was reviewed by the Faculty in the light of views and concerns expressed by the staff and students. The system modules were reorganized since 2009-10, increasing the duration for foundation block, introduced the Infection and Immunity module during second year. The Renal module was expanded to include Renal, Reproduction and Breast. The current version of the Phase II curriculum map is reflected in (*Appendix 'D'*). The Curriculum, Admission and Assessment Committee has decided to have two separate module for RRB; one for Renal part and the other for the Reproduction & Breast module is treated as a single module, with its own course numbers.

Some concerns were expressed by the staff on the method of delivery and assessment of the elective courses offered during the 4<sup>th</sup> year. The University already agreed to change the final grade of this course to pass/fail, instead of letter grading.

### **Phase III Program**

The final format of the Phase III program (Clinical years) have been successfully implemented. The faculty is resorting to advanced teaching techniques and methods in the clinical years. The first batch of students from the new curriculum have successfully completed the Phase III program and appeared for the B.M.B.Ch. final examination in June 2012. The breakdown of the Clinical Program in Phase III are as follows:-

**Phase III-Year 1 : 5<sup>th</sup> Year**

Medicine	10 weeks
Surgery	10 weeks
Community Medicine	7 weeks
Electives	3 weeks

**Phase III-Year 2 : 6<sup>th</sup> Year**

Medicine	5 weeks
Surgery	5 weeks
Pediatrics	10 weeks
Obst. & Gynaecology	10 weeks

**Phase III-Year 3 : 7<sup>th</sup> Year**

Psychiatry	6 weeks
Medicine	12 weeks (including pre-internship)
Surgery	12 weeks (including pre-internship)

The rotational plan of Phase III and the clinical year plan are reflected in (Appendix 'E').

Medical School Day and problem-based learning (PBL) are salient features of the new program. One day in each week is identified as Medical School Day. Integrated Basic Science lectures with clinical relevance, student lead seminars, multidisciplinary seminars and clinical skills are arranged on the Medical School Day. The First Clinical Year of Phase III program (5<sup>th</sup> year) began in September 2009. Mondays were assigned as Medical School Day for the first clinical year. The second clinical year of Phase III (6<sup>th</sup> year) began in September 2010. Tuesdays were assigned as Medical School Day for the second clinical year. The third clinical year of phase III (7<sup>th</sup> year) began in September 2011. Wednesdays were assigned as the MSD days for 7<sup>th</sup> year. The suggestions from Departments to improve the MSDs, are taken into consideration.

The first batch of 5<sup>th</sup> year (1<sup>st</sup> clinical year) students appeared for the final examinations in June 2010 and 59 students were promoted to the second clinical year (6<sup>th</sup> year). The first batch of 6<sup>th</sup> year (2<sup>nd</sup> clinical year) students began in September 2010 and appeared for the final examination in June 2011. The first batch of 7<sup>th</sup> year (3<sup>rd</sup> clinical year) students started in September 2011 and appeared for the final examination in June 2012.

It was a very proud moment for the Faculty to see that the first batch of students from the new curriculum (67 in total) graduated with the degree of B.M.B.Ch. in June 2012.

From academic year 2014 -2015 onwards, the Medical graduates are awarded with M.D. (Doctor of Medicine) degree. Only students from 2009 intake are given the M.D. degree while students prior to this intake will continue to be given B.M.B.Ch.

degree. It is our hope that we will be able to offer the BLS/ACLS courses utilising the University budget and all our graduates will be graduating with BLS/ACLS certification, in future. The faculty had arranged these courses earlier with the help of sponsors and KFAS, but it is very difficult to find finance for these courses, unless it is through the University budget. The Faculty had asked for the budget for BLS/ACLS from the University to be included in 2017-18 budget onwards.

The *Blueprint* for the OSCE Examination was finalized and implemented.

Approved allocations of marks awarded to the 7<sup>th</sup> year students effective 2017-18 are reflected in *Appendix "F"*.

### **Examination Committees**

The Faculty has established four examination committees. The term of these committees are two years.

1. Examination committee for first year is chaired by Prof. Suhail Ahmed, Department of Microbiology
2. Examination committee for second year is chaired by Professor Islam Khan, Department of Biochemistry.
3. Examination Committee for 3rd and 4th years is chaired by Prof. Jamshaid Iqbal, Dept. of Microbiology.
4. Examination Committee for Phase III program (years 5,6 & 7) is chaired by Prof. Amal AlEisa, Dept. of Pediatrics.

### **The Faculty held the following Staff building workshop during 2020-2021.**

#### **Faculty Capacity Development Workshops:**

1. Faculty Development Workshop on 'Clinical Skill Training' for Trainers' Centre for Medical Education, Faculty of Medicine.
2. Faculty Development Workshop on 'Assessment Item Writing & Analysis' Centre for Medical Education, Faculty of Medicine.
  - i, A 2-hour session on introduction and understanding of new Assessment tools, writing Multiple Choice Questions, Extended Matching Questions and Multiple Essay Questions, Item writing flaws, Faculty regulations on assessment, Item analysis of questions, distribution of relevant printed material, Q & A session;
  - ii, A 1-hour practice session on analysis of sample questions, editing fixing the flaws of sample questions by the participants.
3. Faculty Development Workshop on 'New Curriculum' Centre for Medical Education, Faculty of Medicine.

4. Faculty Development Workshop on Steps and Dynamics of PBL, Faculty of Medicine.
5. Training of Staff on MS Teams for online teaching sessions.
6. Training of Technical Staff on entering curriculum on MS Teams.

**B. CPR Training Course for Phase II 4<sup>th</sup> Year Students**

A basic CPR training program was organized for 4<sup>th</sup> Year students

**C. Training Programs for Standardized Patients (SPs):**

*Phase II*

**1. SPs for history givers & Communication skills -Revisit**

Objective: Train SPs to present case History in response to questioning by students

Target Group: 12 Teaching Assistants & 9 Scientific Assistants

Conducted by: Prof. Jamshaid Iqbal and Dr. Saud Al-Enezi

**2. SPs for history givers & Communication skills – Scientific Assistants**

Objective: Train New SPs to present case History in response to questioning by students

Target Group: 6 New Scientific Assistants

Conducted by: Prof. Jamshaid Iqbal

*Each training session included briefing on the SP program, Q & A on the transcript,*

*Role modelling & dry run of the case scenarios, responses to SPs questions etc.*

**3. SPs for Physical Examinations**

Objective: Train SPs to undergo a limited Physical Examination at the Tutor & students' direction

Target Group: 10 SPs

Conducted by: Prof. Jamshaid Iqbal, Dr. Annie & Dr. Julie

**Office of Student Counseling and Guidance**

Dr. Dalia Al-Abdulrazzaq, Assistant Professor, Department of Pediatrics has continued to serve as Director of Student Counseling and Guidance. Her service has helped many students to improve their study skills and examinations preparation techniques. In addition, many students were counseled by her. Dr. Dalia continued to give valuable advisory seminars to the students.

**Electronic Learning project**

The Faculty was working hard to establish an electronic Platform for curriculum management and student interaction with Faculty.

The Faculty has planned and finalized with Faculty of Engineering, establishment of a custom-built electronic platform for curriculum management. The Faculty had several meetings with the Faculty of Engineering to finalise the details.

The final proposal was submitted to the University for their final approval but no action has been taken by the University. However, the Faculty is now actively promoting the use of moodle as an electronic learning and teaching platform.

### **Curriculum Reforms**

#### **Grading for PBLs in Phase II**

From the academic year 2012-13, the students were awarded 5% marks for their contributions in Phase II PBLs. However, the Faculty found that the PBL grades were not awarded objectively and hence the Curriculum, Assessment and Admissions Committee has decided to make the PBL evaluations satisfactory/unsatisfactory. This is implemented from Academic Year 2015-16.

#### **Separation of OSPE from OSCE final examination**

The OSPEs were separated from OSCE final examinations from academic year 2013-14. The OSPEs were held at the end of each semester. This has encouraged the students to pay more attention to the practical sessions delivered during the system modules.

#### **Clinical Skills Lab sessions**

Some deficiency in history taking and clinical examination was noticed in the clinical skills teaching of the Phase II program. Therefore, an extra half an hour supervised session of clinical session was introduced at the end of each clinical skills sessions. This has helped the students to raise their questions and interact with the tutors.

The clinical sessions and history taking sessions were assigned to the tutors well in advance to ensure effective teaching. The Faculty plans to utilize the maximum number of Faculty staff as tutors in Phase II clinical skills. From last year onwards the Faculty has asked the students to prepare for the clinical skills from “Clinical Examination” by John McCleod. They were given the portions from this text book in advance so that they can prepare for the clinical skills very well before their classes.

This year the Centre for Medical Evaluation has given a planned mock OSCE to the Phase II students, with on the spot discussion on their performance, which has proved to be very helpful to the students. This has helped the students to perform better in the OSCE of final examination.

In addition, an item by item analysis on the performance of the students in the module assessment is sent to them by email, immediately after their module assessment evaluation.

### **Clinical Skills Lab**

We are still awaiting furnishing of the clinical Skills Lab. Hopefully the Clinical Skills Lab. will be fully furnished by the end of next academic year.

Dr. Ali Jarragh Ismail, Department of Surgery is appointed as the Director of the Clinical Skills Lab. His appointment has made a long way in organizing the activities and utilization of the Clinical Skills lab.

### **PBL Coordination Group**

The Faculty had expanded the PBL Coordination group with more staff. New staff have been included in this group to give them a chance to lead the curriculum so that in future they will be able to manage the curriculum. The Faculty needs wider involvement of staff in the curriculum. Dr. Heba Al-Hussaini, Assistant Professor, Department of Anatomy, continued to serve as the coordinator of the PBL coordination group.

### **Revision of system courses**

The Cardiovascular system has been thoroughly revised 4 years back to improve the delivery of the course, including PBLs. The Musculoskeletal system module also has undergone major revisions. The module coordinators and their team will be looking at their respective system modules to improve the courses. The Reproductive and Breast part of the RRB module has undergone thorough revision during last year. The Renal part has been thoroughly reviewed this year. The review of CNS module also has been completed. The Respiratory and Blood modules were also revisited and made serious adjustments. The PBL cases of these modules will be revisited. The plan is to have at least one new case in each module, each year.

### **Introduction of “Skills Development” week in 5<sup>th</sup> year**

A one week skills development was introduced to the 5<sup>th</sup> year students from this year onwards. During the first week of the 5<sup>th</sup> year, the students will be undertaking several clinical skills in Medicine and Surgery at the Clinical Skills Lab, to enable them to embark upon an effective clinical training period in year 5,6 and 7. Dr. Jassim Al Abbad is the coordinator of this course.

### **Meeting with students**

Several meetings were held with the students, to get their views and suggestions to improve the curriculum. The student, being the end user, have given the Faculty a full view of the curriculum. They have put forward many suggestions to improve the curriculum, teaching methods. They have brought to the notice of the Faculty some of the difficulties they face in the curriculum. In addition, students are asked to evaluate the Phase II module at the end of the modules.

The Faculty has taken into account their suggestions and implemented several suggestions put forward by the students and tried to solve their concerns wherever possible. The students have free access to the Vice Dean Academic and Student Affairs, the Director of Centre for Medical Education/Module Coordinators. This helps free communication between the students and the administration.



### **Online Teaching**

Online teaching had been introduced after the COVID-19 pandemic to complete the second semester of the academic year 2019-20 and it has been continued in 202-21 academic year too. Microsoft Teams is used as the platform for online teaching of lectures, practicals, PBLs and MSDs.

### **Change in the title of the Final degree**

The University has decided to change the title of the final degree to Doctor of Medicine (M.D.) instead of Bachelor of Medicine and Bachelor of Surgery (B.M.B.Ch.). This will be applicable to the students who were in fifth year during academic year 2012-13 (2009 intake). The medical students from 2009 onwards who have graduated with medical degree since June 2015 are awarded with the qualification Doctor of Medicine (M.D.).

### **Digitalization of Graduates' files**

The Faculty already finished the digitalizing the files of all its graduates.

### **Online registration of students**

The online registration of Medical students is implemented starting from this year.

### **Student Evaluation**

The Faculty has faced enormous problems with student evaluation since the university has made it mandatory that all student evaluations should be done online. Though the Centre for Measurement and Evaluation was doing a pilot study with the Faculty of Medicine students, the study was not complete and had faced several technical snags. The technical issues could not be solved and hence unfortunately students could not do the evaluations on-line during the current academic year. Absence of student evaluations will jeopardise the promotion and contract renewal requirement of several staff members.

The Faculty has taken up this matter with the University Administration and has approved that the Faculty can do manual student evaluation next year. The online evaluation also will be done in parallel. Hopefully technical issues will be solved by the University soon.

### **Accreditation**

The Faculty has been advised by the ECFMG that no student will be allowed from 2023 onwards to sit for the USMLE examinations if the student is not coming from an accredited medical school. So the Faculty of Medicine (FOM) is actively pursuing the matter of accreditation, and an Accreditation Office was established in the FOM in 2017. After due consideration, the Faculty recommended a Turkish accreditation agency TEPDAD (approved by the World Federal of Medical Education) for the accreditation of the FOM. A contract was signed by the President of Kuwait University and the President of TEPDAD. All the documents required by TEPDAD for accreditation of FOM were submitted by the FOM Accreditation Office in November 2019 and a site visit by the TEPDAD panel was

planned for March 2020. However, this could not materialize due to the COVID-19 pandemic.

Due to the urgency of the matter, a virtual site visit of the Faculty by the TEPDAD Committee was organized during June 22-24, 2021. They had interviewed Faculty administrators, staff, and students. A synchronized video of teaching facilities at the Faculty was also shown to them. Based on the virtual site visit, a written exit report from the President of TEPDAD was received on July 4, 2021, for a response from the Faculty. The response has been sent to the TEPDAD President and he has informed the Faculty that it will take 2-3 months for the TEPDAD panel for the evaluation of the report and the final decision. If found appropriate, the TEPDAD panel will provide provisional accreditation for 2 years, and an actual site visit will be conducted within this time period to provide the full accreditation of the Faculty.

### **Future plans**

1. Monitoring and review of Phase I, II and III Programs.
2. Continue staff-capacity building program.
3. Develop e-learning system.
4. Invitation of experts to evaluate the curriculum and give suggestions
5. Review and revise clinical skills teaching of third and fourth years.
6. Review and revise PBL cases/case reports for all Phase II modules.
7. Initiate self-evaluation process for the Accreditation of Faculty of Medicine.
8. Preparation of blueprint for OSCEs.

### **Staffing**

#### **Office of the Vice-Dean for Academic and Student Affairs**

Prof. Noura Al Sweih - Vice Dean for Academic and Student Affairs  
Ms. Elza Alexander  
Ms. Reem Al-Tabtabaee  
Ms. Marwa Samir Ahmed

#### **Student Affairs Office**

Ms. Eqbal Mohammad  
Ms. Fatma Safer  
Ms. Zainab Al-Madani  
Ms. Jumana Reda  
Ms. Nour AlTawari

#### **Multidisciplinary Laboratories**

Ms. Annie Thomas  
Ms. Susy John  
Mr. Sadeq Dashti  
Mr. Jamal Azab  
Mr. Luisito S. Dayag

**Centre for Medical Education**

Prof. Jamshaid Iqbal - Director

Ms. Sumitha Satheesh

Mr. Ahmed M. Mohammed

Ms. Preetha Thomas

Dr. Annie Pothen

Dr. Julie Varghese

Ms. Preethi John

**Clinical Skills Lab**

Dr. Ali Jarragh AlHaddad

Ms. Marsha Pablico

Ms. Mona ElMowyaed

## **Conclusion**

Clinical skills and simulation teaching is an important teaching/learning method for medical students which necessitate having a new Department of Medical Education. This department will be in charge of teaching/organizing clinical skills, simulation teaching.

Faculty is still without its own teaching hospital. Absence of the University hospital affects effective teaching and research opportunities for the staff. Now the Faculty conducts some of the final clinical examination in the Clinical Skills Lab., which used to be held in hospitals earlier.

I would like to thank all those who have contributed positively to the academic development of the Faculty during the current academic year, especially during the COVID-19 pandemic time.

I am grateful to all the staff who helped to make this a successful year. Their positive contributions, both formal and informal, were always a source to further improve the teaching programs and particularly the undergraduate medical curriculum. I also appreciate the cooperation and understanding of the students of the Faculty, individually or through their representatives and KuMSA, in maintaining an ideal academic environment in the Faculty. Consultation and dialogue between the students and the staff is a continuous process which helps to develop an understanding and a sense of belonging and commitment to this institution.

I place on record my appreciation to the staff in my office for their dedication and hard work.

Before concluding, I would like to thank the Dean for his trust in me and the duties and responsibilities bestowed upon me. I thank the Vice-Deans, Department Chairmen/Chairpersons and all other staff for their support.

Appendix "A"

**PHASE I AND II FINAL EXAMINATION TIMETABLE – JUNE/JULY 2021**

**Phase II Final Examination Timetable**

**FACULTY OF MEDICINE  
HEALTH SCIENCES CENTRE  
KUWAIT UNIVERSITY**

**Time- Table of Final Examinations – June/ July 2021**

**PHASE II - 2ND YEAR**

DATE	SUBJECT	TIME	GROUP	LOCATION
24.06.2021 Thursday	Paper I	01:00 - 03:30 p.m.	A	Reading Room
			B	L.T. 1-41& 1-42
01.07.2021 Thursday	Paper II	9:00 a.m. - 11:30 a.m.	A	Reading Room
			B	L.T. 1-41& 1-42

**PHASE II - 3RD YEAR**

DATE	SUBJECT	TIME	GROUP	LOCATION
27.06.2021 Sunday	Theory	9:00 a.m. - 12:00 p.m.	A	Reading Room
			B	L.T. 1-41& 1-42
01.07.2021 Thursday	OSCE	9:00 a.m.	All Group	MDLs / Seminar Rooms/ L.T.

**PHASE II - 4TH YEAR**

DATE	SUBJECT	TIME	GROUP	LOCATION
24.06.2021 Thursday	Theory	09:00 a.m. - 12:00 p.m.	A	Reading Room
			B	L.T. 1-41 & 1-42
28.06.2021 Monday	OSCE	9:00 a.m.	All Groups	MDLs/ Seminar Rooms L.T. 1-41
5-6.07.2021 Monday - Tuesday	<b>3RD &amp; 4TH Year Orals</b>			

**Phase I Final Examination Timetable**

DATE	DAY	SUBJECT
13/6/2021	Sunday	BBE
15/6/2021	Tuesday	English
23/6/2021	Wednesday	English Resit
24/6/2021	Thursday	Biology
27/6/2021	Sunday	Biology Resit
1/7/2021	Thursday	BBE Resit

**PHASE III FINAL EXAMINATION TIMETABLE – JUNE/JULY 2021**

**FACULTY OF MEDICINE**

**KUWAIT UNIVERSITY**

**Final draft January 2021**

**Phase III-Final Examination Timetable- June/ July 2021**

Date	Day	Year 5	Year 6	Year 7
07.06.2021	Monday		Obstetrics & Gynecology (Theory)	
08.06.2021	Tuesday			
09.06.2021	Wednesday			-
10.06.2021	Thursday	Community Medicine (Theory)	-	Medicine (Theory)
13.06.2021	Sunday	-	Pediatrics (Theory)	
14.06.2021	Monday	-	-	-
15.06.2021	Tuesday	-	-	-
16.06.2021	Wednesday	Medicine (Theory)	-	Psychiatry (Theory)
17.06.2021	Thursday		Surgery (Theory)	Psychiatry (OSCE)
20.06.2021	Sunday	Medicine (OSCE)	-	-
21.06.2021	Monday	-	Pediatrics ( OSCE) Group A	-
22.06.2021	Tuesday	-	Pediatrics ( OSCE) Group B	-
23.06.2021	Wednesday		-	
24.06.2021	Thursday	-	-	Surgery (Theory)
27.06.2021	Sunday	Surgery (Theory)		Medicine (OSCE) Group A
28.06.2021	Monday	-	Medicine (Theory)	Medicine (OSCE) Group B
29.06.2021	Tuesday	Surgery(OSCE)		
30.06.2021	Wednesday	-	Obstetrics & Gynecology ( OSCE) Group A	
01.07.2021	Thursday	-	Obstetrics & Gynecology ( OSCE) Group B	-
04.07.2021	Sunday	-		Surgery(OSCE) Group A
05.07.2021	Monday	-		Surgery (OSCE) Group B
06.07.2021	Tuesday	Community Medicine (Orals)		
07.07.2021	Wednesday	-	Obstetrics & Gynecology & Pediatrics (Orals)	Psychiatry, Medicine & Surgery ( Orals)
08.07.2021	Thursday	Board of Examiners Meeting & Faculty Council		

*Appendix "B"*

ONLINE EXTERNAL EXAMINERS – JUNE/JULY 2021

**COMMUNITY MEDICINE**

Prof. Fernando Rodriguez Artalejo  
Faculty of Medicine  
Autonomous University of Madrid  
**Spain**

Prof. Karmaus Wilfried Joachim Jurgen  
School of Public Health  
University of Memphis  
**U.S.A.**

Appendix "C"  
**FACULTY OF MEDICINE**  
**HEALTH SCIENCES CENTRE**  
**KUWAIT UNIVERSITY**

**GRADUATES OF JULY 2021**

<b>S.NO.</b>	<b>STUD. NO.</b>	<b>NAME</b>
1	2141118482	ABDELMOHSEN A A A A ALMODAHKA
2	2141120173	ABDUL AZIZ ABUL KARIM AKRAMA
3	2141117368	ABDULAZIZ A M S ALHAMMAD
4	2141116249	ABDULLAH AHMAD N A J S ALMUTAIRI
5	2121113910	ABDULLAH M E H REDHA
6	2141118843	ABDULLAH S A S E KH ALNAJEM
7	2141112800	ABDULMUHSEN S M M A A ALMUTAIRI
8	2141112335	AHAD S GH S A ALMUTIRI
9	2141115001	AHMAD J D M D ALMUTAIRI
10	2141112701	AHMAD M H A H M SAFAR
11	2141117620	AHMED ALI A ALSHAMMASI
12	2141119293	AISHA S S A H ALWEHAIB
13	2141115867	ALI A H S H ALMUTAWA
14	2141117504	ALI M E M H ESMAEIL
15	2141123849	AMRO EMAD ABDELKAWI HASSAN
16	2131112589	ANFFAL B E M DH ALENEZI
17	2141112963	AREEJ A A A ALYOUSEF
18	2141115529	AWSAF M E S ALDUWAIHEES
19	2141120601	BASHAYER A F M N ALMUTAIRI
20	2141114845	DALAL A S M ALSOWAILAM
21	2141113794	DALAL KH H H S ALROUMI
22	2141119678	DANA K A M A ALBADER
23	2141120124	DANAH A M ALYASEEN
24	2141112332	DANAH W KH A S ALBRAIKAN
25	2141113270	DEEMAH A A A ALSHAYA
26	2141113735	DHANA M A M J JAAFAR
27	2141120217	DIAA MAMDOUH MOHAMED SOLIMAN
28	2141117466	ELHAM A A A ALDUAJ
29	2141114141	EMAD R GH M HUSSAIN
30	2141119227	FAISAL KH S M ALMUNEFI



31	2141113582	FATEMAH S M M B ALMUTAIRI
32	2141113093	FATMA M M R S H S E M RIDHA
33	2141115064	FATMAH F M J M ALSARRAF
34	2141115021	GHADEER N A A ABDULLAH
35	2141113540	HAYFAA S KH F S ALOTAIBI
36	2131114659	HUSAIN M H M ALABDALRAHMAN
37	2141112684	JANINE SARAH DOUGHERTY
38	2141115427	JAWAHER H F H M ALGHAREEB
39	2141116026	JEHAN A A A KHALAF
40	2141116064	KALTHOUM N A M ALAWADHI
41	2141112690	KENDAH S W KH S ALADSANI
42	2141113667	KHADEEJA H H A ALSAEGH
43	2141112842	KHALAF KH KH KH M ALSHAMMARI
44	2141116325	KHALED S M S ALRAJHI
45	2141118263	MAISEM T S F TH ALHAJRI
46	2131113061	MANAR J M A N ALHUBAIDAH
47	2141113009	MARAM S S S H ALHUSSAINI
48	2141115024	MARIAM Y Y A H ALTAMMAR
49	2141120288	MARYAM A M A M ALKANDARI
50	2141112615	MARYAM A M A M ALMUTAWA
51	2141118535	MARYAM D S KH M ALKHAMEES
52	2141113573	MARYAM EBRAHIM E A A ALHAMER
53	2141114451	MAY A E H M ALSHAHABI
54	2141113648	MAZYAD J M H M ALMAZYAD
55	2141116372	MOHAMAD NASSER ALI
56	2141116107	MOHAMMAD ABDULMAJID
57	2141112887	MOHAMMAD KH M A S ALFADHALAH
58	2141123858	MOHAMMAD MAJID MUTAR ALMAAYOFI
59	2141119638	MOUDHI B GH GH ALMUTAIRI
60	2141120120	MUNERAH W KH E R ALYASEEN
61	2141113631	NASRIN MASHAALLAH SAEIDI
62	2141117508	NOFOUD D F GH J AL-DABBOUS
63	2141112719	NORA A M F R ALDHEFEERY
64	2141112777	NORA J M A H ALAMIR
65	2141113453	RAGHAD T M H E ALEINATI
66	2141116519	RATAJ S A M ALDHAEN
67	2141112753	RAWAN H A J M ALFAILAKAWI

68	2141114875	RAWAN M Y A M ALRADHWAN
69	2141116355	RAWAN N A F ALHJAILI
70	2141120298	RAZAN W A A R ALHENAIDI
71	2121112021	REEM A M F H ALDABASI
72	2141118593	REEM KH F KH ALSAEID
73	2141112315	REEM M O B A ALSAEEDI
74	2141114426	REEM ALFALA Y A H ALHABIB
75	2141113770	RUQAYAH S A A A ALRUBAH
76	2141123854	SAHAD AL AKRAM
77	2141116132	SALEH M A M ABDULKAREEM
78	2141115915	SARA W S M ALRABIAH
79	2141123810	SARAH IRSCHIED
80	2141120263	SARAH A J A Z ALDAIHANI
81	2141116333	SARAH MUBARAK R ALANAZI
82	2141120189	SHAHD ABDELMONEIM ISMAIL AWAD
83	2131110901	SHAIMAA A A E A ALKHUDHER
84	2141123260	SHAMAEL A A E M ALARBEED
85	2141112546	SHAMAEL E M M SULTAN
86	2141112704	SHARIFA E M R S H S E M REDHA
87	2141115857	TAIBA N A N A ALBESSAM
88	2141114039	WAAD M M R Z ALMUTAIRI
89	2141118559	ZAHRA A A H ABDULLAH
90	2141118643	ZAHRAA A A H MOHAMMAD
91	2141112238	ZAHRAA F M H A ALKOOT
92	2141116437	ZAINAB S A S M S A S HASHIM

Appendix "D"

**Phase II Program: Module Period : Year 2, 3 & 4**

**2020-2021**

<b><u>Year 2</u></b>		<b><u>SEMESTER III</u></b>				<b><u>SEMESTER IV</u></b>		
<b>FOUNDATION</b> (05 50 – 303) AND ENGLISH 183 <b>15 Weeks</b>		Mid Semester Break	<b>FOUNDATION</b> (05 – 50 – 307) <b>8 Weeks</b>			<b>INFECTION &amp; IMMUNOLOGY</b> (05-50-306) <b>5Weeks</b>	Exam Break	<b>FINAL EXAM</b>
08/11/2020- 18/02/2021		21/2/2021- 4/3/2021	07/03/2021-29/04/2021			02/05/2021- 03/06/2021		
<b><u>Year 3</u></b>		<b><u>SEMESTER V</u></b>				<b><u>SEMESTER VI</u></b>		
<b>BLOOD</b> (05-70-402) <b>4 Weeks</b>	<b>ENDO.</b> (05-80-308) <b>5Weeks</b>	<b>MUSCUL.</b> (05-80-309) <b>6Weeks</b>	Mid Semester Break	<b>CVS</b> (05-80-306) <b>7 Weeks</b>		<b>RESP.</b> (05-80-307) <b>6 Weeks</b>	Exam Break	<b>FINAL EXAM</b> MCQ OSCE
08/11/2020- 03/12/2020	06/12/2020- 07/01/2021	10/01/2021- 18/02/2021	21/02/2021 - 04/03/2021	07/03/2021-22/04/2021		25/04/2021- 03/06/2021		
<b><u>Year 4</u></b>		<b><u>SEMESTER VII</u></b>				<b><u>SEMESTER VIII</u></b>		
<b>NERVOUS SYSTEM</b> (05-30-312) <b>8 Weeks</b>	<b>RENAL</b> (05-80-404) <b>5 Weeks</b>	<b>ELECT.</b> (05-00-406) <b>2Weeks</b>	Mid Semester Break	<b>DIGESTIVE</b> (05-75-311) <b>7 Weeks</b>		<b>REPRO. &amp; BREAST</b> (05-80-403) <b>5 Weeks</b>	Exam Break	<b>FINAL EXAM</b> MCQ OSCE/OSPE
08/11/2020-31/12/2020	03/01/2021- 04/02/2021	07/02/2021- 18/02/2021	21/02/20 21- 04/03/20 21	07/03/2021-22/04/2021 Including 2 weeks midterm break		25/04/2021- 27/05/2021		

**PHASE III - 5TH YEAR**  
**FIRST CLINICAL (5TH) YEAR ROTATIONAL SCHEDULE - ACADEMIC YEAR 2020-2021**

<b>GROUP</b>	<b>1ST ROTATION</b> 08/11/2020 -07/01/2021)	<b>2ND ROTATION</b> (10/01/2021 - 25/03/2021) *	<b>3RD ROTATION</b> (28/03/2021 -27/05/2021)	<b>FINAL EXAM</b>
<b>A</b>	COMM. MEDICINE (6 weeks) 08/11/2020 - 17/12/2020  ELECTIVE (3 weeks) 20/12/2020 - 07/01/2021	MEDICINE (9 weeks) (10/01/2021 - 25/03/2021)	SURGERY (9 weeks) (28/03/2021 -27/05/2021)	
<b>B</b>	MEDICINE (9 weeks) 08/11/2020 - 07/01/2021	SURGERY (9 weeks) (10/01/2021 - 25/03/2021)	COMM. MEDICINE (6 weeks) (28/03/2021 -06/05/2021)  ELECTIVE (3 weeks) (09/05/2021 -27/05/2021)	
<b>C</b>	SURGERY (9 weeks) 08/11/2020 - 07/01/2021	COMM. MED. (6 weeks) 10/01/2021 - 18/02/2021  ELECTIVE (3 weeks) 07/03/2021 - 25/03/2021	MEDICINE (9 weeks) (28/03/2021 -27/05/2021)	

\* Including Mid term break ( 21/02/2021 - 04/03/2021)

Medical School Day - Monday

PBLs : As Published by the Departments

The detailed program of each rotation will be distributed by the departments separately.

**PHASE III - 6TH YEAR**

**SECOND CLINICAL (6TH) YEAR ROTATIONAL SCHEDULE - ACADEMIC YEAR 2020-2021**

<b>GROUP</b>	<b>1ST ROTATION</b> (08/11/2020 - 07/01/2021)	<b>2ND ROTATION</b> (10/01/2021 - 25/03/2021) *	<b>3RD ROTATION</b> (28/03/2021 - 27/05/2021)	<b>FINAL EXAM</b>
<b>D</b>	MEDICINE/SURGERY (9 weeks) (08/11/2020 - 07/01/2021)	OBS. & GYNAE. (9 weeks) (10/01/2021 - 25/03/2021)	PEDIATRICS (9 weeks) (28/03/2021 - 27/05/2021)	
<b>E</b>	OBS. & GYNAE. (9 weeks) (08/11/2020 - 07/01/2021)	PEDIATRICS (9 weeks) (10/01/2021 - 25/03/2021)	MEDICINE/SURGERY (9 weeks) (28/03/2021 - 27/05/2021)	
<b>F</b>	PEDIATRICS (9 weeks) (08/11/2020 - 07/01/2021)	MEDICINE/SURGERY (9 weeks) (10/01/2021 - 25/03/2021)	OBS. & GYNAE. (9 weeks) (28/03/2021 - 27/05/2021)	

\* Including Mid-Semester Holiday ( 21/02/2021 - 04/03/2021)

Medical School Day : Tuesdays

PBLs : As Published by the Departments

The detailed program of each rotation will be distributed by the departments separately.

**PHASE III - 7TH YEAR**

**THIRD CLINICAL (7TH) YEAR ROTATIONAL SCHEDULE - ACADEMIC YEAR 2020-2021**

<b>GROUP</b>	<b>1ST ROTATION</b>	<b>2ND ROTATION</b>	<b>3RD ROTATION</b>	<p align="center"> <b>MEDICINE (Group J)/SURGERY (Group K)</b>                      09/05/2021 - 20/05/2021 (2 weeks)  <b>MEDICINE (Group K)/SURGERY (Group J)</b>                      23/05/2021 - 03/06/2021 (2 weeks)                 </p>	<p align="center"><b>FINAL EXAM</b></p>
<b>G</b>	PSYCHIATRY (8 weeks) 08/11/2020 - 31/12/2020	MEDICINE (8 weeks) 03/01/2021 - 11/03/2021 *	SURGERY (8 weeks) 14/03/2021-06/05/2021		
<b>H</b>	MEDICINE (8 weeks) 08/11/2020 - 31/12/2020	SURGERY (8 weeks) 03/01/2021 - 11/03/2021	PSYCHIATRY (8 weeks) 14/03/2021-06/05/2021		
<b>I</b>	SURGERY (8 weeks) 08/11/2020 - 31/12/2020	PSYCHIATRY (8 weeks) 03/01/2021 - 11/03/2021	MEDICINE (8 weeks) 14/03/2021-06/05/2021		

**\* Including Mid-Semester Holiday (21/02/2021 - 04/03/2021)**

Medical School Day : Wednesdays

PBLs : As Published by the Departments

The detailed program of each rotation will be distributed by the departments separately.

**FACULTY OF MEDICINE  
HEALTH SCIENCES CENTRE  
KUWAIT UNIVERSITY**

**PLAN FOR PHASE III PROGRAM**

**YEAR I (5<sup>TH</sup> YEAR) – FIRST CLINICAL YEAR – 36 WEEKS OF ROTATION**

<b>MEDICINE – 12 WEEKS (14 CH)</b> 05 80 504 / 505	<b>SURGERY – 12 WEEKS (14 CH)</b> 05 75 504 / 505	<b>COMM.MEDICINE – 7 WEEKS (6 CH)</b> 05 10 504 / 505  <b>ELECTIVES – 5 WEEKS (2 CH)</b> 05 00 502	<b>FINAL EXAM</b>
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**YEAR II (6<sup>TH</sup> YEAR) – SECOND CLINICAL YEAR – 36 WEEKS OF ROTATION**

<b>MEDICINE – 6 WEEKS (6 CH)</b> 05 80 604 / 605  <b>SURGERY – 6 WEEKS (6 CH)</b> 05 75 604 / 605	<b>PEDIATRICS– 12 WEEKS (14 CH)</b> 05 85 604 / 605	<b>OBS. &amp; GYNAECOLOGY – 12 WEEKS (14 CH)</b> 05 90 604 / 605	<b>FINAL EXAM</b>
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**YEAR III (7<sup>TH</sup> YEAR) – THIRD CLINICAL YEAR – 36 WEEKS OF ROTATION**

<b>PSYCHIATRY– 8 WEEKS (8 CH)</b> 05 80 708 / 709	<b>MEDICINE</b> (including pre-internship) – <b>14 WEEKS (18 CH)</b> 05 80 706 / 707	<b>SURGERY</b> (including pre-internship) – <b>14 WEEKS (18 CH)</b> 05 75 706 / 707	<b>FINAL EXAM</b>
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**VICE-DEAN  
FOR RESEARCH &  
POSTGRADUATE STUDIES**



## **1. INTRODUCTION**

The office of the Vice Dean for Research & Postgraduate Studies (VDR) continued to facilitate and encourage research activities in the Faculty of Medicine and also at other sites of the University. The VDR office liaises between the Faculty of Medicine and Research Sector as well as other funding agencies such as the Kuwait Institute for Advancement of Sciences (KFAS). The VDR office continued its role in reviewing and authorizing grant applications, providing the information regarding funding issues and conducting workshops to provide information regarding the University procedures to apply for funded projects.

All matters related to research projects are made transparent and clear to all staff members. The VDR office has been regularly communicating with staff members through e-mails which provide the latest updates regarding research projects, guidelines and new regulations from the Research Sector.

During this academic year, the Office of the Vice-Dean for Research & Postgraduate Studies conducted 5 meetings of the Medical Research Committee (MRC). Details of the meetings are recorded in the respective minutes.

The VDR office has also continued to serve all grant applications which require ethical approval from all faculties of the University, both for staff and students.

The Centre for Research Support and Conferences (CRC) has been very active this year in organizing several conferences and workshops. In addition, many researchers including Faculty staff, members from the Ministry of Health, as well as students, have been assisted by CRC in the experimental design and statistical analysis required for their research projects.

The Vice Dean Research and Postgraduate Studies is responsible to ensure the smooth functions of the graduate programs and its proper delivery and quality assurance. The Chairperson of the Areas Committee is the link between the Program Directors and College of Graduate Studies. The Chairperson of Area Committee works closely with the College of Graduate Studies to support the graduate programs in the Faculty of Medicine.

## 2. RESEARCH PROJECTS AND PAPERS PUBLISHED

Table 1 shows the breakdown of the number of projects and their respective budgets per department.

Detailed information on research projects (under process, approved & ongoing) are displayed in the following tables and figures. (Table 1-4) & (Fig. 1-4).

Details of funded and unfunded research publications are also included in the enclosed tables and figures. (Table 5-7) & (Fig. 5).

<b>Table 1: Number of Research Projects (Under Process, Approved &amp; Ongoing) in FOM according to Department &amp; Grant during 2015- 2021*</b>					
<b>Department</b>	<b>No. of Under process Projects</b>	<b>Requested Budget (KD)- Under Process</b>	<b>No. of Active Projects</b>	<b>Budget (KD)- Approved &amp; Ongoing Projects</b>	<b>Total No of Projects</b>
<b>Anatomy</b>	6	1521642	4	293394	10
<b>Biochemistry</b>	1	14755	7	693050	8
<b>Community Medicine</b>	0	0	2	84508	2
<b>Microbiology</b>	2	26621	9	101256	11
<b>Medicine</b>	4	1512246	5	117400	9
<b>Nuclear Medicine</b>	2	198540	2	495000	4
<b>Obstetrics and Gynecology</b>	0	0	0	0	0
<b>Pediatrics</b>	1	3200	5	24000	6
<b>Pathology</b>	3	67563	6	40400	9
<b>Physiology</b>	7	62835	13	103047	20
<b>Psychiatry</b>	1	4000	0	0	1
<b>Pharmacology</b>	1	6000	2	57200	3
<b>Radiology</b>	0	0	0	0	0
<b>RCF/VDR</b>	0	0	1	2200	1
<b>Surgery</b>	3	1541641	2	8000	5
<b>TOTAL</b>	<b>31</b>	<b>4959043</b>	<b>58</b>	<b>2019455</b>	<b>89</b>

**Table 2: Research budget (KD) for Completed projects according to Department and Year (2015, 2016, 2017, 2018, 2019)**

Department	2015		2016		2017		2018		2019		Total No. of Projects
	No. of Project	Budget (KD)	No. of Projects	Budget (KD)	No. of Projects	Budget (KD)	No. of Projects	Budget (KD)	No. of Projects	Budget (KD)	
Anatomy	1	6000	2	21950	4	14000	0	0	0	0	7
Biochemistry	0	0	2	13447	2	8000	0	0	0	0	4
Community Medicine	1	16300	1	15400	0	0	0	0	0	0	2
Medicine	0	0	1	21682	3	48500	0	0	1	2650	5
Microbiology	5	92000	6	46750	6	80323	1	4000	1	3956	19
Nuclear Medicine	0	0	0	0	0	0	0	0	0	0	0
Obstetrics & Gynecology	0	0	1	4000	0	0	0	0	0	0	1
Pediatrics	1	2000	1	4000	0	0	0	0	0	0	2
Pathology	5	46495	1	3950	0	0	0	0	0	0	6
Physiology	2	19914	3	28000	7	49345	1	10000	0	0	13
Psychiatry	1	59150	0	0	0	0	0	0	0	0	1
Pharmacology	1	77200	2	23900	1	4000	1	4000	0	0	5
Radiology	0	0	0	0	0	0	0	0	0	0	0
Surgery	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>17</b>	<b>319059</b>	<b>20</b>	<b>183079</b>	<b>23</b>	<b>204168</b>	<b>3</b>	<b>18000</b>	<b>2</b>	<b>6606</b>	<b>65</b>

**Table 3: Research Projects (Completed, Ongoing, Under process) according to Budget**

Category	Completed	Ongoing	Under process	Total
	N (%)	N (%)	N (%)	
<b>I</b>	38(61.54)	28(50.00)	11 (29.03)	65
<b>II</b>	6(9.23)	3 (1.72)	2(6.45)	58
<b>III</b>	21(29.23)	27(48.28)	18(64.5)	31
<b>All Projects</b>	<b>65</b>	<b>58</b>	<b>31</b>	<b>154</b>
<b>I= &lt;4000, II=4001-10000 &amp; III= &gt;10000; * Until 10/11/2021</b>				

Figure 1: Research Projects of Ongoing, Under process & Completed in FOM, 2015 – 2021

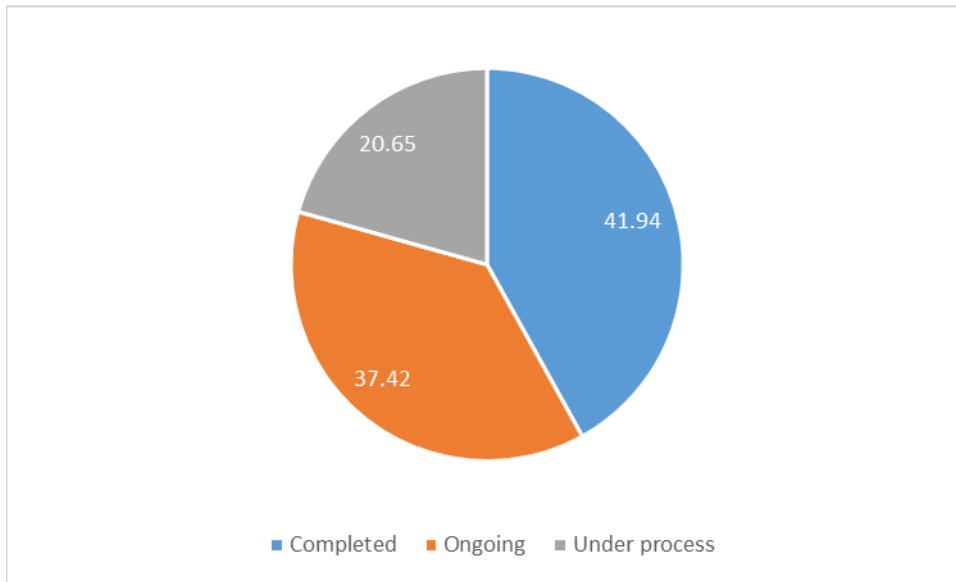
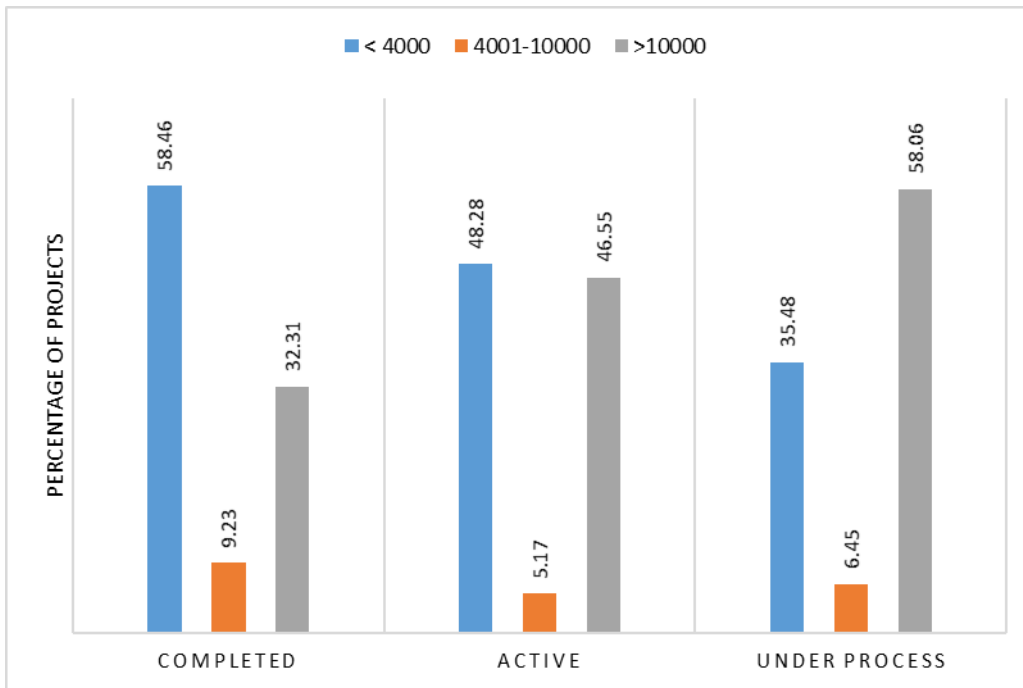
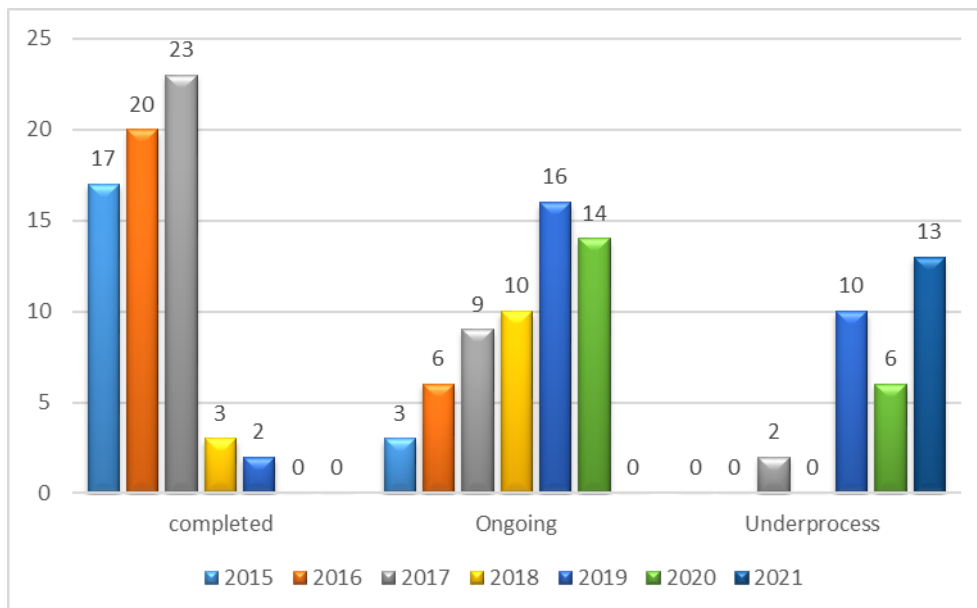


Figure 2: Research Projects of Ongoing, under process & Completed in FOM, 2015 – 2021



\*Until 11/10/2021

Figure 3: Year-wise number of Completed, Ongoing & Under process projects (2015-2021)



\*Until 11/10/2021

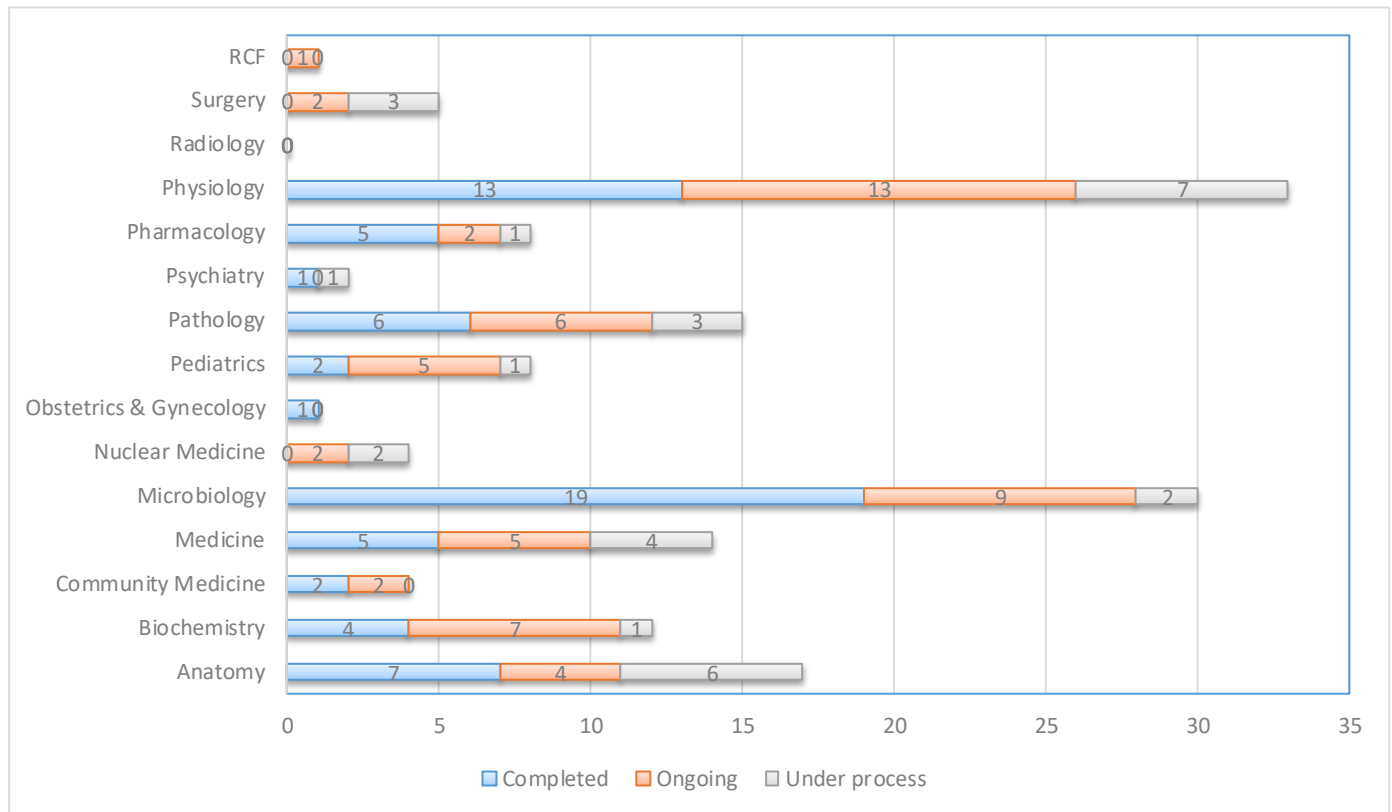
Table 4: Research Projects (Completed, Ongoing, Under process) per Department during 2015-

Category	Completed	Ongoing	Under process	Total	Grand Total
<b>Anatomy</b>					
<4000	6	0	1	7	17
4000-10000	0	0	0	0	
>10000	1	4	5	10	
<b>Biochemistry</b>					
<4000	3	0	0	3	12
4000-10000	1	0	0	1	
>10000	0	7	1	8	
<b>Community Medicine</b>					
<4000	0	0	0	0	4
4000-10000	0	0	0	0	
>10000	2	2	0	4	
<b>Medicine</b>					
<4000	3	3	0	6	14
4000-10000	0	0	0	0	
>10000	2	2	4	8	
<b>Microbiology</b>					
<4000	9	5	1	15	30
4000-10000	2	0	0	2	
>10000	8	4	1	13	
<b>Nuclear Medicine</b>					
<4000	0	1	0	1	4

4000-10000	0	0	0	0	
>10000	0	1	2	3	
<b>Obstetrics &amp; Gynecology</b>					
<4000	1	0	0	1	1
4000-10000	0	0	0	0	
>10000	0	0	0	0	
<b>Pediatrics</b>					
<4000	2	4	1	7	8
4000-10000	0	0	0	0	
>10000	0	1	0	1	
<b>Pathology</b>					
<4000	3	2	1	6	15
4000-10000	1	2	0	3	
>10000	2	2	2	6	
<b>Psychiatry</b>					
<4000	0	0	1	1	2
4000-10000	0	0	0	0	
>10000	1	0	0	1	
<b>Pharmacology</b>					
<4000	3	0	0	3	8
4000-10000	0	0	1	1	
>10000	2	2	0	4	
<b>Physiology</b>					
<4000	8	10	5	23	33
4000-10000	2	1	0	3	
>10000	3	2	2	7	
<b>Radiology</b>					
<4000	0	0	0	0	0
4000-10000	0	0	0	0	
>10000	0	0	0	0	
<b>Surgery</b>					
<4000	0	2	1	3	5
4000-10000	0	0	1	1	
>10000	0	0	1	1	
<b>RCF</b>					
<4000	0	1	0	1	1
4000-10000	0	0	0	0	
>10000	0	0	0	0	
<b>Total</b>	<b>65</b>	<b>58</b>	<b>31</b>	<b>154</b>	<b>154</b>

\*Until 11/10/2021

**Figure 4: Number of Research Projects (Completed, Ongoing, Under process) per Department during 2015- 2021**



\*Until 11/10/2021

TABLE 5: No of Published Papers 2008-2021					
YEAR	FUNDED	FUNDED%	UNFUNDED	UNFUNDED%	TOTAL
2008	41	17.83	189	82.17	230
2009	58	23.58	188	76.42	246
2010	73	30.29	168	69.71	241
2011	89	30.27	205	69.73	294
2012	64	26.89	174	73.11	238
2013	66	30.14	153	69.86	219
2014	59	29.35	142	70.65	201
2015	65	30.23	150	69.77	215
2016	76	34.23	146	65.77	222
2017	75	45.73	89	54.27	164
2018	62	44.60	77	55.40	139
2019	48	41.03	69	58.97	117
2020	27	26.73	74	73.27	101
2021	15	23.81	48	76.19	63
	<b>818</b>		<b>1872</b>		<b>2690</b>

Figure 5: Number of Published Papers 2008- 2021

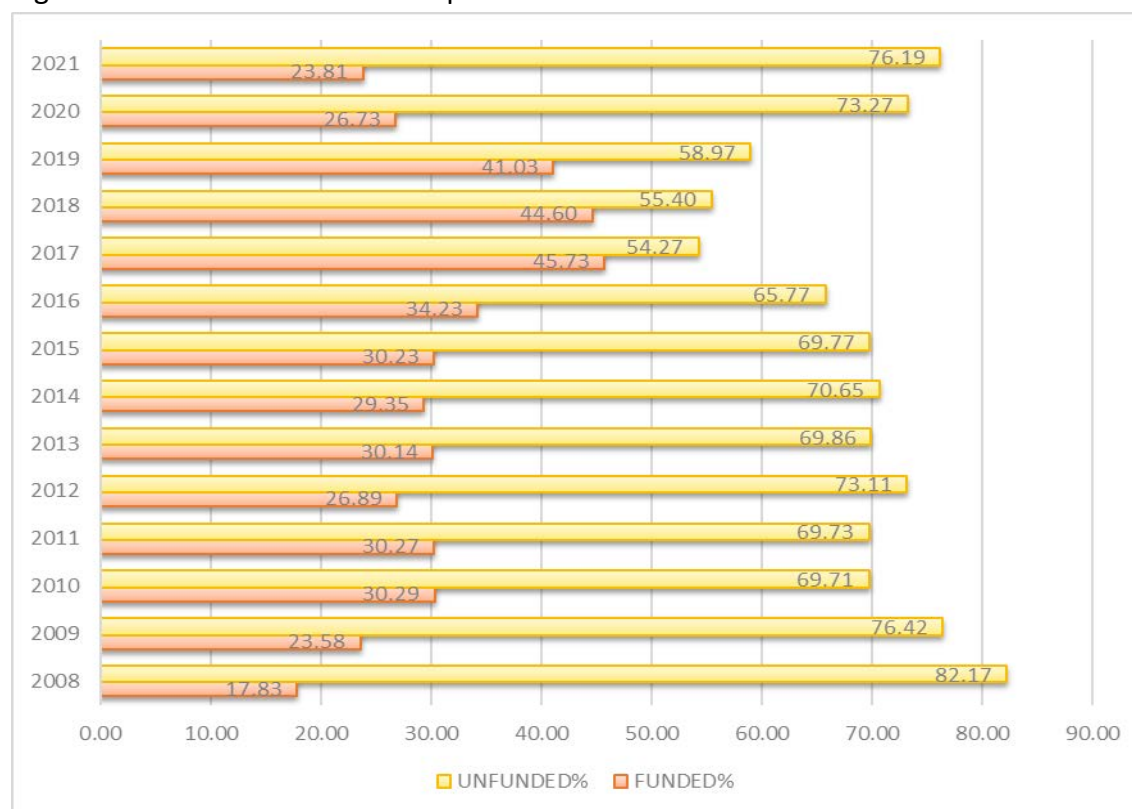




Table 6: Published papers of Funded & Unfunded (%)– 2008-2021

YEAR	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<b>FUNDED%</b>	17.83	23.58	30.29	30.27	26.89	30.14	29.35	30.23	34.23	45.73	44.60	41.03	26.73	23.81
<b>UNFUNDED%</b>	82.17	76.42	69.71	69.73	73.11	69.86	70.65	69.77	65.77	54.27	55.40	58.97	73.27	76.19

Figure 6: Published papers of Funded & Unfunded (%)– 2008-2021

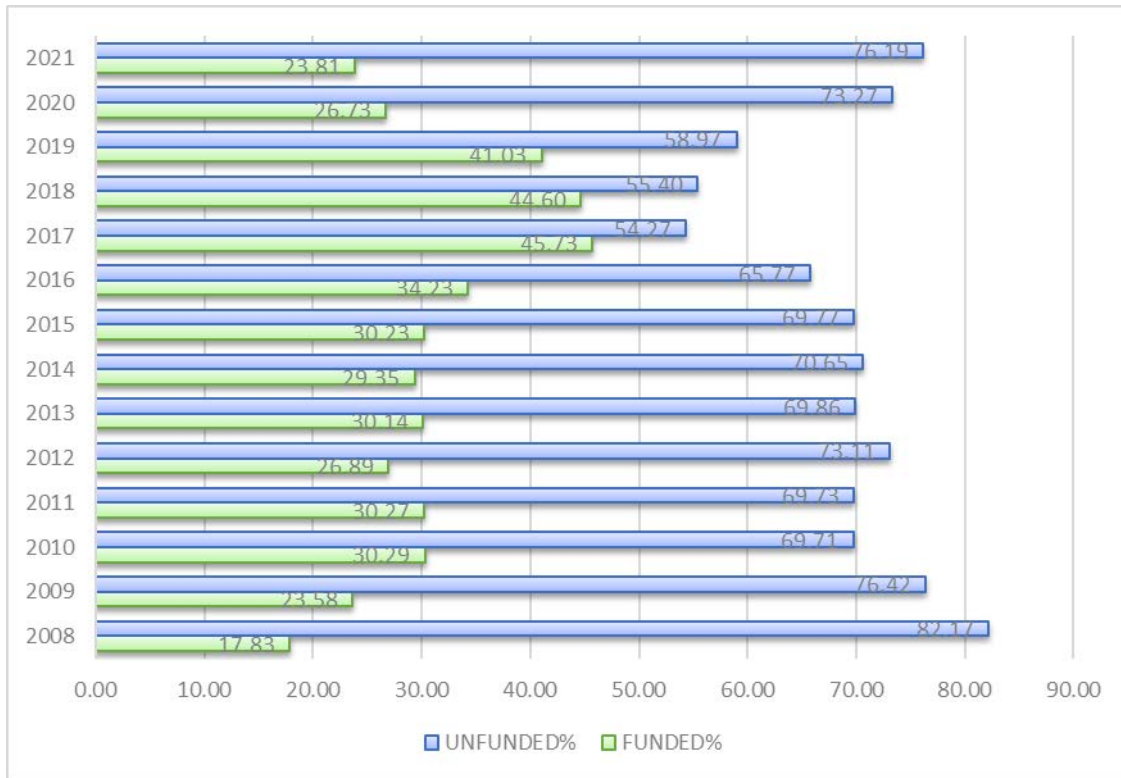


TABLE 7 No. of Published papers 2018-2021

No. of Published papers 2018-2021					
YEAR	FUNDED	FUNDED%	UNFUNDED	UNFUNDED%	TOTAL
2018	62	44.60	77	55.40	139
2019	48	41.03	69	58.97	117
2020	27	26.73	74	73.27	101
2021	15	24.19	47	75.81	62
	<b>152</b>		<b>267</b>		<b>419</b>

Figure 7: No. of Published papers 2018-2021

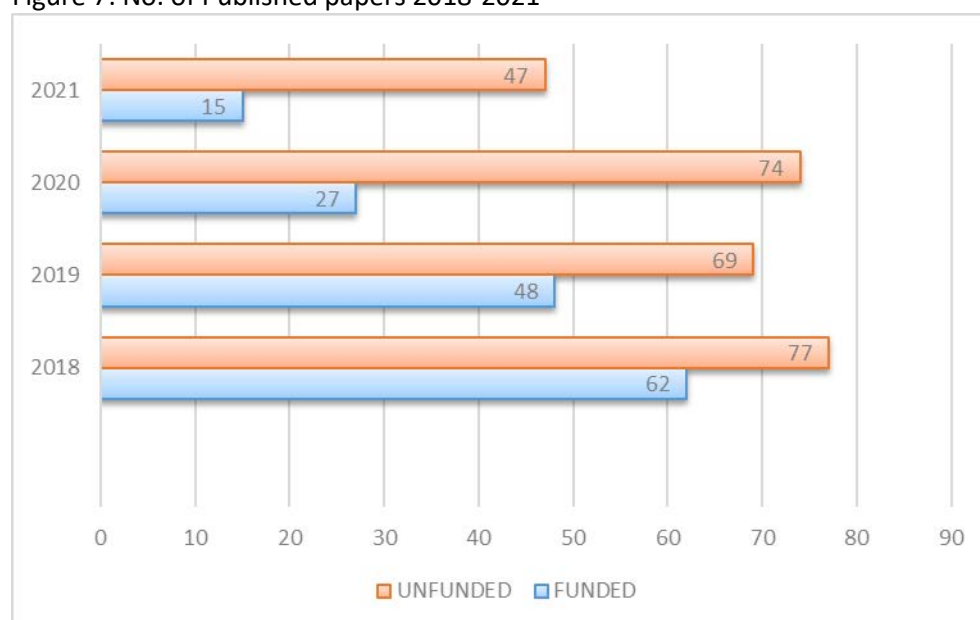


Table 8: Total No. of Published papers/total No. of staff

year	No. of Published Papers	Total number of staff	No. of published papers/Total no. staff	%
2017	164	196	0.837	83.673
2018	139	196	0.709	70.918
2019	117	199	0.588	58.794
2020	101	181	0.558	55.801

**Table 9: Research papers published from funded and unfunded research Position by Department (2018-2021)**

DEPARTMENT	FUNDED	%	UNFUNDED	%	Total
	No		No		
ANATOMY	14	66.67	7	33.33	21
BIOCHEMISTRY	15	71.43	6	28.57	21
COMMUNITY MEDICINE & BS	5	14.71	29	85.29	34
MEDICINE	10	33.33	20	66.67	30
MICROBIOLOGY	52	46.43	60	53.57	112
NUCLEAR MEDICINE	2	13.33	13	86.67	15
OBSTETRICS AND GYNECOLOGY	0	#DIV/0!	0	#DIV/0!	0
PATHOLOGY	15	34.88	28	65.12	43
PAEDIATRICS	16	26.23	45	73.77	61
PHARMACOLOGY	3	75.00	1	25.00	4
PHYSIOLOGY	16	44.44	20	55.56	36
PSYCHIATRY	0	0.00	2	100.00	2
RADIOLOGY	0	0.00	2	100.00	2
SURGERY	3	7.89	35	92.11	38
<b>Total</b>	<b>151</b>	<b>36.04</b>	<b>268</b>	<b>63.96</b>	<b>419</b>

Table 10: No. of Published papers 2018-2021 per Department per year

Department		2018	2019	2020	2021
ANATOMY	FUNDED	8	3	1	2
	UNFUNDED	2	2		3
BIOCHEMISTRY	FUNDED	6	2	5	2
	UNFUNDED	1	1	3	1
COMMUNITY MEDICINE & BS	FUNDED	2	2	2	
	UNFUNDED	11	4	9	5
MEDICINE	FUNDED	5	2	1	2
	UNFUNDED	5	2	10	3
MICROBIOLOGY	FUNDED	24	11	10	7
	UNFUNDED	22	12	15	11
NUCLEAR MEDICINE	FUNDED		1	1	
	UNFUNDED	4	3	4	2
OBSTETRICS AND GYNECOLOGY	FUNDED				
	UNFUNDED				
PATHOLOGY	FUNDED	4	8	3	
	UNFUNDED	6	12	6	4
PAEDIATRICS	FUNDED	3	10	2	1
	UNFUNDED	4	15	16	10
PHARMACOLOGY	FUNDED		2	1	
	UNFUNDED				
PHYSIOLOGY	FUNDED	8	7	1	
	UNFUNDED	3	9	6	2
PSYCHIATRY	FUNDED				
	UNFUNDED	1		1	
RADIOLOGY	FUNDED				
	UNFUNDED	2			
SURGERY	FUNDED	2			1
	UNFUNDED	16	9	4	6
		<b>139</b>	<b>117</b>	<b>101</b>	<b>62</b>
<b>Total of Funded and Unfunded (2018-2021)</b>					<b>419</b>



**Subjects, 59<sup>th</sup> WMA General Assembly, Seoul, October 2008** and in keeping with local regulations and moral values.

- c. To assess the potential risks involved in procedures involving human subject's relative to the benefits to be expected.
- d. To assure that adequate safeguards for the relief of trauma or stress are included in the protocol.
- e. To ensure the suitability of the investigator(s) for the proposal in relation to his/her qualifications, experience, supporting staff and available facilities.
- f. To ensure that the "informed consent form" is in an understandable language and specifies the name and designation of the informing person.
- g. To review the adequacy and completeness of the written information given to the subjects or an acceptable relative and if necessary legal representatives.
- h. To check documents of "informed consent" which include the following:
  - i. A fair explanation of the procedures to be followed.
  - ii. A description of attendant discomfort and risks.
  - iii. A description of the benefits to be expected.
  - iv. An offer to answer any inquiries concerning the procedure.
  - v. An undertaking that the subject is free to withdraw consent and to discontinue participation in the project at any time.
  - vi. An assurance that measures would be taken for the confidentiality of data.

The Committee shall consider any other matters referred to it by the Dean of the Faculty of Medicine, and the MOH/KIMS.

### **Procedures**

- a. Principle Investigator (PI) should submit the research proposal/protocol attached with the Special COMMITTEE Forms to the Office of the Vice Dean for Research.
- b. The PI should submit to the COMMITTEE forms according to his/her research, and to fill the appropriate set of forms concerning the research, and as to whether the research involves adults, or children, or both.

It is important to fill the Cover Form which includes:

Investigator's Name and Designation, Title of the Project, Summary of the Study and Detailed Plan of the Study

To submit consent forms both in Arabic and English.

- a. The Committee's deliberations shall be confidential, and the decisions taken shall be communicated directly to the investigator(s).

### **3.3 Scientific Affairs Advisory Committee**

No meeting.

### **3.4 Departmental Research Coordinators Committee**

#### **Members:**

- Prof. Eiman Mokaddas (Chairperson) (18-2-2020 – Present)
- Prof. Ludmil Benov (Dept. of Biochemistry)
- Prof. Wafaa Jamal (Dept. of Microbiology)
- Prof. Waleed Shuaib (Dept. of Physiology)
- Dr. Ismet Sarikaya (Dept. of Nuclear Medicine)
- Prof. Milad Bitar (Dept. of Pharmacology)
- Dr. Suad Abdeen (Dept. of Pathology)
- Prof. Nandakumaran Moorkath (Dept. of Obstetrics and Gynaecology)
- Prof. Renu Gupta (Dept. of Radiology)
- Prof. Saeed Akhtar (Dept. of Community Medicine)
- Dr. Sana Al-Mutairi (Dept. of Medicine)
- Dr. Ebtessam Abdel-Basset (Dept. of Anatomy)
- Dr. M.A. Zahid (Dept. of Psychiatry)
- Dr. Waleed Al-Herz (Dept. of Paediatrics)
- Prof. Fahad Al-Asfar (Dept. of Surgery)

During the academic year 2019-2020 the committee met once to discuss matters related to improvement of research activities.

### **3.5 Radiation Safety Committee**

#### **Members:**

- Prof. Eiman Mokaddas (Chairperson) (18-2-2020 – Present)
- Chairman, Dept. of Nuclear Medicine
- Chairman, Dept. of Radiology
- Dr. Suleiman Al-Sabah, Dept. of Pharmacology
- Dr. Suhail Ahmad, Dept. of Microbiology
- Dr. Gaber Ziada, Dept. of Nuclear Medicine
- Dr. Andreas Henkel, Dept. of Physiology
- Dr. Fadel Ali Haider Ghloom - MOH Representative
- Mr. Moh'd Sakr (Radiation Protection Officer) - Secretary

### **3.6 Ad Hoc Committee for Distinguished and Young Researcher Awards**

The committee examined the applications for the Distinguished Researcher Award (1 application) and Young Researcher Award (1 application) very carefully and followed the instructions for evaluation as recommended by the Research Sector.

Based on the final scores of the applicants, the Distinguished and Best Young Researcher Award committee was approved from the Faculty of Medicine for the year 2019-2020.

### **3.7 AREA COMMITTEE MEETINGS FOR GRADUATE PROGRAMS IN THE FACULTY OF MEDICINE**

Vice Dean Research and Postgraduate Studies is the Chairperson of the Area Committee for Graduate Program in Faculty of Medicine. In her capacity as the Chairperson of the Area Committee, she is responsible to ensure the smooth functions of the graduate programs and its proper delivery and quality assurance. The Chairperson of the Areas Committee is the link between the Program Directors and College of Graduate Studies.

The Chairperson of Area Committee works closely with the College of Graduate Studies to support the graduate programs in the Faculty of Medicine and formation of the graduate programs committees.

During the academic year 2019-2020, the committee met one time in order to discuss matters regarding the graduate programs in the faculty as well as to get reports from the program directors about the graduate programs and student's performance in the different programs.

#### **1. Graduate Programs:**

##### M.Sc. Programs

There are now 9 M.Sc. programs in the Faculty

##### PhD Programs

The following Programs are running:

- 1) PhD in Microbiology
- 2) PhD in Physiology
- 3) PhD in Pathology
- 4) PhD in Pharmacology (started 2016-2017)
- 5) PhD in Medical Biochemistry (started 2018-2019)

#### **2. PhD Programs approved:**

- 1) PhD Program in Nuclear Medicine

#### **3. Programs to be approved:**

- 1) M.Sc. Program in Child Health
- 2) M.Sc. Program in Medical Physics
- 3) PhD Program in Anatomy

#### **Area Committee Members**

- |                           |                                   |
|---------------------------|-----------------------------------|
| 1. Prof. Eiman Mokaddas   | Chairperson (18-2-2020 – Present) |
| 2. Prof. M. John Albert   | Microbiology                      |
| 3. Prof. Salah Al-Humood  | Pathology                         |
| 4. Prof. Maryam Yousef    | Pharmacology                      |
| 5. Prof. Zoran Redzic     | Biomedical Sciences               |
| 6. Prof. Saeed Akhtar     | Community Medicine                |
| 7. Dr. Gaber Ziada        | Nuclear Medicine                  |
| 8. Prof. Marian Turcani   | Physiology                        |
| 9. Dr. Sampath Madhyastha | Anatomy                           |
| 10. Prof. Farook Thameem  | Medical Biochemistry              |



**4. NUMBER OF GRADUATE STUDENTS IN THE FACULTY OF MEDICINE  
2019/2020**

<b>Program</b>	<b>MSc Current</b>	<b>PhD Current</b>	<b>Total</b>
Pathology	3	2	5
Anatomy	10	-	10
Medical Biochemistry	7	2	9
Biomedical Sciences	6	-	6
Microbiology	3	3	6
Nuclear Medicine	3	-	3
Pharmacology	-	3	3
Physiology	7	5	12
Public Health	6	-	6
<b>Totals</b>	<b>45</b>	<b>15</b>	<b>60</b>

#### **4- CENTRE FOR RESEARCH SUPPORT AND CONFERENCES (CRC)**

The Center for Research Support and Conferences is an integral part of the Faculty of Medicine and is supervised by the Vice-Dean for Research and Postgraduate Studies. The center's major objectives are to provide and extend logistic support in organizing conferences, workshops, seminars, and related activities held by different faculties of the Health Sciences Center (HSC). The focus is also in encouraging exchange and transfer of scientific knowledge within faculties and departments of HSC community. On the services front, the Center renders professional support in statistical consultation, research planning, analysis, data management and training.

The Center, therefore, endeavors to provide the researchers with the best services needed for accomplishing their basic and applied research goals in a congenial environment that nurtures innovation and leads to creative excellence through ample utilization of advanced facilities, professional consultations, technical support and services in areas of strategic priorities that are significant to human health. The CRC oversees continuous development of its multiple services provided to researchers, and endeavors to enhance existing facilities for expediting scientific advancement.

The center is located within the premises of Faculty of Medicine. Services are open to all faculty members and researchers of Faculty of Medicine, as well as the HSC's constituent faculties. The scientific community constantly interacts with the CRC consultative, technical and services staff for their diverse research needs, and utilizes the available facilities for accomplishing their scientific and professional commitments. For users benefit, requisite information on the Center's program and activities is accessed through the Health Sciences Center website ([www.hsc.edu.kw](http://www.hsc.edu.kw)), by clicking at the Faculty of Medicine.

#### **4.1 Centre for Research Support and Conferences works under the overall supervision of:**

Prof. Eiman Mokaddas  
Vice Dean Research & Postgraduate studies  
Faculty of Medicine

1. Dr. Nada Madi  
Director, Faculty of Medicine
2. Ms. Eqbal Mohammed  
Chairperson

Staff:

1. Mrs. Teena Sadan  
Senior Technician
2. Mrs. Rania Almawlawi  
Senior Administrator

### **Conferences, Symposia and Workshops**

CRC functions by extending scientific and logistic supports in planning and organizing scientific events, conferences, workshops, seminars, and related activities held by different faculties of the HSC and Ministry of Health. Support includes:

- Budget planning
- Website designing and announcements
- Scientific sessions planning and program development
- Registration system for attendance and CME points awards
- Event evaluation through surveys
- Logistic arrangements for guests and invited speakers

### **Faculty of Medicine Seminars/ Thesis presentations:**

Centre for Research Support and Conferences (CRC) is responsible of arranging the faculty seminars, including announcements, distribution, and generation of CME points awards since September 2004. Chairperson for Faculty Seminar during this year was Dr. Gursev Dhaunsi, Department of Pediatrics. CRC also circulates announcements of thesis defenses in the faculty and keeps database for that. Announcements are sent to all departments of HSC faculties, departments of Ministry of Health Hospitals and Directors of major private hospitals and medical centers in Kuwait. Monthly, an average number of 4 seminars are conducted. Because of the covid 19 pandemic situation, Faculty didn't conduct any seminars as offline.

**4.3 During the academic year 2020-2021, CRC supported fully or partially the following events**

<b>CRC Events: 2020-2021</b>				
<b>Year</b>	<b>TYPE</b>	<b>Title</b>	<b>Date, Year</b>	<b>Department /Faculty</b>
<b>Conference</b>				
2020	I	Online Hatton Competition	19/08/2020	FOD
2020		13th Student Research Day	08/10/2020	FAHS, KU
2021	I	25th HSC Poster Conference	March 16-18, 2021	HSC
2021	L	KU Research Sector Scientific Poster Day	08/03/2021	KU
<b>MSc Thesis Defense</b>				
2020	L	M.Sc. Thesis Defense - The role of sodium transporters in dexamethasone-induced programmed hypertension and the effects of melatonin	15/12/20	FOM
2021	L	MSc Thesis Defense - Antimicrobial Resistance and Virulence of Escherichia coli Cultured from Sewage in Kuwait	24/03/21	FOM
2021		Assessing the risk of developing Type 2 Diabetes and Obesity in healthy young adults with family history of the disease	08/06/21	FOM
2021		Micro-RNA-146b-5p Modulation of the Cellular Stress Response in Papillary Thyroid Cancer	16/06/21	FOM
<b>PhD Defense seminar</b>				
2020	L	PhD Defense: A Study of the Prevalence and Molecular Characterization of Carbapenem-resistant Enterobacteriaceae in Healthy Community Population of Kuwait	06/10/2020	FOM
2020	L	PhD Defense: Molecular Detection, Characterization and Epidemiology of Drug-Susceptible and Resistant Mycobacterium Tuberculosis Strains Isolated in Kuwait	20/10/2020	FOM
2020	L	PhD Defense - Epidemiology of Taenia solium Infection / Cysticercosis and Other Major Parasitic Infections in Kuwait	24/12/20	FOM
2021	L	PhD Dissertation Defense - A study of Fecal Carriage, Epidemiology, and Molecular Characterization of Carbapenem-resistant Enterobacteriaceae among Patients in High Dependency Hospital Units	22/04/21	FOM
<b>SURVEY &amp; ANALYSIS</b>				
2020	I	Covid 19 questionnaire to Different nationalities	01/08/2020	FOPH

2020	I	COVID-19 Healthy Lifestyle Survey	01/09/2020	FAHS
2020	I	OSH (Occupational Safety and Health) and COVID-19 Prevention	20/11/2020	FOPH
<b>SYMPOSIUM</b>				
2020	I	Systemic Sclerosis Associated Interstitial Lung Disease Joint Webinar	16/05/2020	KTS-MOH-HSC
2020	I	Virtual Interstitial Lung Disease Program	June 20 and 26, 2020	KTS-MOH-HSC
2020	L	Kuwait COVID-19 Snapshot MONitoring (COSMO Kuwait) study	Aug-20	FOPH
2020	I	Factor 6: Guidance through IPF Patients Journey - Virtual Summit	28/11/20	KTS-MOH-HSC
2021	I	Beyond Skin: SSc-ILD   E-Master Class	27/03/21	KTS-MOH-HSC
2021	I	Approach to Severe Asthma within the context of The United Airway Hypothesis	29/05/21	KTS-MOH-HSC
2021	I	New Era In COPD Management	05/06/2021	KTS-MOH-HSC
<b>Training Course &amp; Workshop</b>				
2020	I	OSH (Occupational Safety and Health and COVID-19 Prevention Training)	October 3, 2020 to November 21, 2020	FOPH
2021	I	Train to become an SPI	December 2020 - February 2021	FOP
<b>WEBINAR</b>				
2020	L	Lessons learned from COVID-19 pandemic webinar	12/09/20	KTS-MOH-HSC
2020	L	How to Evaluate and Critique Clinical Trials?	19/09/2020	FOP
2020	L	Regulatory Framework In Kuwait	07/10/2020	FOP
2020	I	Lessons Learned from COVID 19 Pandemic: 2nd Webinar	09/10/2020	KTS-MOH-HSC
2020	L	Thermo Fisher Scientific Real Time PCR Solutions	03/11/2020	OMICS-RCF
2020	L	Thermo Fisher Scientific Sanger Sequencing/Fragment Analysis Solutions	05/11/2020	OMICS-RCF
2020	L	Pharmacotherapy Updates in Septic Shock	07/11/2020	FOP
2020	L	Introducing QIAGEN NGS Solutions (QIAseq): Robust Chemistry, Faster Workflows, and Better Sequencing Economics	08/11/2020	OMICS-RCF

2020	L	Dasman Diabetes Institute - The recent work on remission of type 2 diabetes	19/11/2020	DDI
2020	L	Agilent NovoCyte: a high-performance benchtop flow cytometer designed for all levels of users and all types of laboratories	25/11/2020	OMICS-RCF
2020	L	Enteral Nutrition Therapy	02/12/2020	FOP
2020	I	Renal Nutrition Webinar Series - Series 1	06/12/2020	DDI
2020		Renal Nutrition Webinar Series- Series 2	20/12/2020	DDI
2021		Renal Nutrition Webinar Series- Series 3	10/01/2021	DDI
2021	L	COVID-19 Vaccine: Current Status and Updates	13/01/21	FOP
2021	I	An update on COVID-19 Vaccines	10/02/21	FOM
2021	I	COPD Breathe Free: Challenges and Opportunities in COPD Webinar	20/02/21	KTS-MOH-HSC
2021	L	The Role Of Clinical Pharmacists During COVID-19 Pandemic	23/02/2021	FOP
2021	L	The Role Of Direct Oral Anticoagulants For The Treatment Of Cancer-Associated-Venous Thromboembolism In Cancer Patients	21/03/21	FOP
2021	L	Miltenyi Biotec: Be smart - Join the Flow Revolution	29/03/21	OMICS-RCF
2021	L	Dilemmas In The Management Of Gastroesophageal Reflux Disease	23/04/21	FOP
2021	I	SOM Global Webinar with IOMSC- Occupational Medicine & Health Challenges in the Middle East	18/05/21	MOH
2021	I	CHRONIC IDIOPATHIC CONSTIPATION	24/06/21	FOP
<b>WORKSHOP</b>				
2020	L	Optimizing Vancomycin PK/PD Targets: New Insights	15/07/2020	FOP
2020	L	Clinical Pharmacists As Part Of Critical Care Multidisciplinary Teams	25/07/2020	FOP
2020	I	Online Interactive HPM Workshop	November 2, 9 and 19, 2020	FOPH
2021	I	Occupational Safety and Health Under COVID-19 on the occasion of The World Day for Safety and Health at Work	28/04/21	FOPH
<b>Announcements- RCF Instruments</b>				
2021	L	a. QuantStudio 7 Flex Real time PCR usage advertisement b. Next Generation(9th) Confocal Microscope c. BMG LABTECH CLARIOstar	08/03/2021	RCF

2021	L	Incucyte S3 ( Live cell imaging system) & UVP Biospectrum -Multispectral Imaging System	21/03/2021	OMICS-RCF
2021	L	Confocal microscope	21/06/2021	OMICS-RCF
2021	L	QuantStudio™ 7 Flex Real-Time PCR System	27/06/2021	OMICS-RCF
<b>Announcements- Achievements</b>				
2021	L	Kuwait University Meeting- KU Teams	28/06/2021	KU
2021	I	New Milestone for MPP- IF	07/07/2021	HSC
2021	L	Scientific KU poster day for Humanities and scientific facilities for the Academic year 2020-2021- Winners	06/04/2021	KU
* Type – L – Local; I International				

**Events 2020-2021- CRC**

	Conference	Workshop	Symposia	Survey & Analysis	Webinar	Training Course & Workshop	Announce-Achievements	Announce-RCF - Instruments
<b>HSC - Faculty of Medicine Staff, HSC</b>	1				1			
<b>HSC - Faculty of Pharmacy (staff,</b>		2			9	1		
<b>HSC - Faculty of Public Health</b>		2	1	2		1		
<b>Faulty of Allied Health</b>	1			1				
<b>Faculty of Dentistry</b>	1							
<b>Dasman Diabetes Center</b>					4			
<b>Kuwait Thoracic Society-KTS, HSC</b>			6		3			
<b>Ministry of Health</b>					1			
<b>MSc Thesis Defense-FOM</b>					4			
<b>PhD Defense Seminar-FOM</b>					4			
<b>OMICS Research Unit, RCF-HSC</b>					5			
<b>Sub total</b>	3	4	7	3	31	2	3	4
<b>Total for Events 2020-2021</b>				57				



#### 4.4 Database Management

The center is responsible for the following databases

- Management of journal publications in FOM since 2008
- Research projects data of FOM academic staff since 2007
- Providing support for ethics and questionnaire database management since 2010
- Database and statistical support for the best researcher award in FOM
- Database management for abstract submission for all conferences
- Database management of online registration system for all events
- Database management of e- certificates for the events supported by CRC

#### 4.5 Promotion Committee

CRC is responsible for the technical procedures of the promotion of academic staff in FOM

### 5- ANIMAL RESOURCES CENTRE SERVICES (ARC)

#### Introduction

In any institution that is striving hard to excel in scientific research and teaching, a state-of-the-art animal resources center (ARC) is a *sine qua non*. Our ancestors realized the importance of an ARC decades ago and established it to achieve excellence in education. That paved the way for the inception of the current Kuwait ARC, which to its founding idea, lived its purpose. The ARC is now central to the progress in scientific research at the Health Sciences Center (HSC) to the extent that other general facility electron microscope laboratories depend on animal samples. The ARC provides high-quality animal models for research and teaching-related experiments. The ARC is a close colony facility as no animals are allowed into the facility in order to keep the strain lines. All laboratory animals are supplied free of charge to all researchers provided they justify the use of animal models in their research experiments, provided the research projects are approved by the Animal Ethics Committee.

The animal facility has grown from strength to strength and emerged as a major stakeholder in research output from the HSC, especially from the basic science departments. The center has come a long way regarding the infrastructure up gradation, quality control of animals, the number of breeding colonies and applying internationally approved ethical guidelines in conducting animal experiments. The Kuwait University entirely funds the ARC, and the administrative control of the Center is commanded by the Dean of Faculty of Medicine and the Vice Dean for Research & Postgraduate Studies as the Chairperson. However, the Director of the ARC is responsible for day-to-day administration of the ARC who directly reports to the Vice Dean.

The ARC is located on the lower ground floor of the new HSC building. It occupies a vast area of about 54,000 square feet., which is divided into four units. The first unit houses the animal surgery theaters, administrative offices, and laboratories and food storage facility. The second unit is mainly meant for animal breeding. The third unit houses experimental animals shared by all researchers. The fourth unit houses the large animal pens, technician rooms, and laboratories and bedding material storage area. The ARC is maintained under controlled temperature, humidity, and dark and light cycles.

The ARC maintains three different strains of mice, eight strains of rats, and one strain each of guinea pig, rabbit, and hamster. The experimental unit and the specific pathogen-free unit of the ARC houses the individually ventilated cages. About 7000 to 8000 animals are housed in the ARC on a regular basis. These animals belong to breeding colonies, stock, and experimental groups. Over 6,000 animals, mostly rodents, are used every year by the researchers and graduate students in many research projects. The ARC intends to replace the breeding colonies of all animal species from time to time, and that the faculty members are free to suggest any other disease models, which may be brought to the ARC.

The ARC, as a part of its mission and inspired by its very idea of excellence in research and teaching, contributes to education, provides training in laboratory animal handling and management to new faculty members, technical staff and students at the four faculties. Also, the ARC offers support services to Faculty of Science, Department of Psychology, Center for Islamic Medicine, and Kuwait Institute for Scientific Research, and Authority of Agriculture and Animal Resources. The ARC, in the past, also provided intellectual and technical support to the animal facility at the Dasman Diabetes Institute. All animal handling procedures are according to international animal ethical guidelines. The ARC keeps the records of day-to-day activities such as details of animal breeding, maintenance, and animal distribution to all researchers.

Food and water are provided ad libitum to all animals unless the experiments warrant otherwise. The ARC is always under the surveillance to monitor and control the entry and exit of people. Routine rounds are conducted by all technicians and periodically by the Director to maintain lofty standards of ethics and cleanliness in the ARC. From time to time, all researchers/students/technicians are reminded of the rules and regulations laid down in the Handbook for the Use of Laboratory Animals at the Health Sciences Centre, Kuwait University.

Animal Resources Center did not shut down during the Covid-19 pandemic. The staff were available even at weekends and public holidays to maintain the breeding colony. During when the pandemic started in the year 2020, the staff halted at the ARC as there was a complete lockdown. From March 2020 to September 2020, the ARC did not supply much animals to researchers as that time was mostly spent in lockdown. When we went back to offices, researchers and graduate students started animal experiments. The ARC was just able to save the breeding colony of all animal species we have. It took time to breed animals and supply to the researchers. We also had a problem of food shortage. All in all, the ARC was just able to pull on during the pandemic. At the time of writing this report, the ARC is still going through a lot of problems such as shortage of food, bedding materials, staff, equipments, etc.

### **Mission and Objectives**

The primary objectives of the ARC are:

- To minimize problems associated with animal research, but to ensure that at the same time all regulations and ethics of animal handling and use are strictly followed.
- To train the researchers, students, and technicians in animal handling and experiments, and to provide necessary information about the animals.
- To provide excellent quality animals for research and teaching-related experiments

## **The facilities**

The ARC facility is subdivided into following sections:

- Animal breeding and stock rooms
- Experimental rooms
- Animal surgery theaters
- Laboratory facilities and preparation rooms
- Cage and rack washing unit.
- Autoclave and sterilization unit
- Cage storage units
- Feeds and bedding stores
- Administration and Technicians rooms

At present, the ARC has four special pathogen-free rooms and are continuously used by the researchers.

### **Administration of the ARC**

- |                               |   |
|-------------------------------|---|
| 1. Prof. Eiman Mokaddas       | Vice Dean for Research & Postgraduate Studies<br>Chairperson, ARC |
| 1. Prof. Narayana Kilarkaje   | Director, ARC   |
| 2. Mr. Sunny A. Ojoko         | Chief Technician (Laboratory Animal Management & Technology)      |
| 3. Dr. Severino A. Gabato Jr. | Chief Technician (Veterinarian)                                   |
| 4. Mrs. Ola Zahran            | Senior Technician   |
| 5. Mr. Binil George Abraham   | Technician  |
| 6. Mr. Hector S. Velasco      | Technician  |
| 7. Ms. Azza Mahmoud.          | Technician  |
| 8. Mr. Assiz Eduardo Dias     | Equipment Technician  |
| 9. Mr. Abdulsalam Abdulrafeei | Animal/ Office Assistant  |
| 10. Mr. Shaik Karimulla       | Office Assistant  |

## **Animal Ethics Committee (AEC)**

All animal experiments are closely monitored by the Animal Ethics Committee chaired by the Vice-Dean for Research & Postgraduate Studies at the Faculty of Medicine. It is mandatory that all research projects should be approved by the AEC. There are application forms available at the ARC to request for the approval of the animal experiments.

The members of the committee are:

1. Prof. Eiman Mokaddas	Chairperson (Vice-Dean for Research and Postgraduate Studies, Faculty of Medicine)
2. Prof. Narayana Kilarkaje	Director ARC
3. Prof. Mabayoje A. Oriowo	Member
4. Dr. Hanady Amoudy	Member
5. Dr. Aishah Al-Jarallah	Member
6. Dr. Altaf Al-Romaiyan	Member – Faculty of Pharmacy
7. Dr. Ala'a Al-Mousawi	Member – Faculty of Dentistry
8. Dr. Anwar Al-Banaw	Member – Faculty of Allied Health Sciences
9. Mr. Sunday A. Ojoko	Secretary

### **The AEC is responsible for the following duties:**

1. To ensure that the animal experiments are conducted in accordance with the guidelines of the AEC. The AEC will advise and, if necessary, will make necessary arrangement to train the researchers to use animal models in research.
2. To protect the rights of investigators and to support legitimate procedures necessary for animal experiments. The committee will also ensure that there is always acceptable justification for the use of animals in proposed experiments.
3. To prevent possible negligence by the investigators/researchers/technicians or any other personnel of standard ethical guidelines during the conduct of experiments.
4. To ensure rational and/or judicious use of laboratory animals, controlling unnecessary or overuse of the animals in experiments and/or teaching.
5. To conduct regular workshops in laboratory animal handling and management for those researchers/technicians/research assistants/or any other personnel interested in animal research. The workshop will be conducted at the ARC, whenever needed. The attendees will be awarded a certificate each denoting competence in animal handling. If in case, anyone needs further advanced training, which can also be arranged. The personnel without the mandatory training in animal handling will not be permitted to handle laboratory animals.
6. To ensure that all application forms for procurement of laboratory animals, the number of animals needed, and techniques and management procedures that will be used in the experiment/s are strictly followed by all researchers.

7. Further, the AEC will meet regularly to scrutinize the applications submitted for the approval.
8. It is mandatory that all Principal investigators fill the Application form for animal ethics committee's approval for research project, submit for approval before any laboratory animal is issued for a research program.

### **Management of animal experiments at the ARC**

The number of researchers and postgraduate students using the ARC facility is increasing by the passing year, which is a good indicator of research progress at the HSC. Currently, an important advantage is that the experimental animals, animal maintenance including feeds and bedding and cages are supplied free of cost to all researchers.

At present, the ARC follows all regulations stipulated in Handbook of Guidelines for Animal Experimentation. Accordingly, all researchers are required to submit the animal request forms indicating necessary details of experiments. There are different application forms for funded and unfunded research projects and the preliminary studies. Although, there is a form for submitting request for animals for unfunded research projects, as a policy, recently, the ARC discontinued giving animals to unfunded projects. However, if the ARC has extra animals, still it gives the animals for unfunded research. Only the faculty members can submit the forms. The ARC does not entertain any forms submitted by the personnel other than the faculty members. The forms should contain details such as the strain, number of animals, required species, age, or weight range, sex, and date on which the animals are required, and full contact details of the applicants. Further, sufficient details regarding the experiments and techniques carried out in the animals should be mentioned in the forms.

Each ARC staff supervises 3-4 experimental rooms in liaison with the technicians or principal investigators. The purpose of this arrangement is to maintain the cleanliness in the animal rooms. This method is working well as the accountability for both good and bad works are fixed, and thus far, there are no new cases of violation of ARC rules.

As per the guidelines indicated in the handbook, the ARC personnel in consultation with the Director and, if necessary, with the Vice-Dean for Research & Postgraduate Studies, ensures the following necessities in addition to all other guidelines stipulated in the handbook.

1. To ensure that the researchers and the technical staff comply with the standard guidelines for animal experimentation stipulated by the International Council of Laboratory Animals Sciences and Good Laboratory Practices, during experiments.
2. To conduct training workshops to all researchers and technical staff in laboratory animal research.
3. To ensure that all researchers follow the necessary ethical requirements during research or animal handling. The ARC personnel can bring to the notice of the Administration of any violation of animal ethics by the researchers, the technicians and the students.

### **Acquisition of materials or instruments**

It is always a challenging job to procure materials or other necessary items needed for the ARC. As the researchers, students and technicians from all four faculties of the HSC use the ARC facility, a lot of consumables are required to meet their demands. Thus, the ARC

administration is always racing against time and venturing an uphill task for getting these items. In the future, buying necessary consumables and other items needs to be streamlined and should be made simple. Often, the ARC is faced with huge challenges in procuring animal feed and bedding materials, and the lack of these consumables hampers the progress of the ARC and impedes research work at the HSC.

We have already requested the Administration to provide the following.

- 1. Conventional cages:** There is always a shortage of animal cages, especially rat cages as many researchers use rat as the preferred experimental model. Type 3 cages are mostly in demand, and this size is equally used in the stock units of our rat strains.
- 2. CCTV cameras:** The ARC needs surveillance cameras to monitor activities in the facility 24 hours daily. For about two years, we have been expecting this in the facility.
- 3. Workforce:** For many years, the ARC administration, current or the previous, has requested for the appointment of new technicians/assistant technicians. Recently, however, the ARC received one grade and an assistant technician was appointed. In the near future, the ARC will suddenly wake up to a new reality of a shortage of technicians as some may retire or decide to leave. It is possible that very soon, some technicians will leave or retire from the service.

### **Urgently needed equipment for the ARC**

The ARC needs a new cage washer and a cage-rack washer as soon as possible. These machines are expensive, but they are needed to wash cages and sterilize them in a massive scale.

### **Problems faced by the ARC in the academic year 2019-2020**

The major problem we face in the ARC at present is shortage of staff. We need technician and Assistant technicians to cope with the load of work. We have been requesting for additional Assistant technicians for more than two years.

### **Training for Experimental Animal Handling and Management**

The ARC provides training in laboratory animal handling and techniques. The training is mandatory to all users of laboratory animals for research at the Health Sciences. The ARC conducts annual training programs for new staff or in some cases specialized training for students. The training covers a wide range of laboratory animal handling, technique and ethics of use of Laboratory animals

### **Guidelines for laboratory animal handling and training workshop**

#### **1. Introduction to the various units within the ARC**

- a) Animal rooms, breeding, stock and experimental animals
- b) Laboratory and general facility
- c) Theatre for big and small animals
- d) Storage facility
- e) Cage washing and sterilization units

#### **2. Request for Animals**

- a) Ethical issues related to use of laboratory animals in research
- b) Types of requisition forms and submission to ARC administration
- c) Accommodation of animals

- d) Responsibility of Principal Investigators of research projects in use of experimental animals
- e) Animal importation to Kuwait

### **3. Working practices in the ARC**

- a) Use of appropriate cages for each species
- b) Recognition of wellbeing of laboratory animals
- c) Labeling
- d) Feeds and water
- e) Use of laboratory animals

### **4. Handling, inoculation (including oral dosing) and specimen collection techniques following animals**

- a) Mice
- b) Rat
- c) Hamsters
- d) Guinea Pig
- e) Rabbits

### **5. Disposal of laboratory animals**

- a) Euthanasia
- b) Methods of disposal of animal waste
- c) Disposal of consumable in the Animal facility

## **Training and Workshops**

In view of the pandemic, there was no workshop conducted throughout the academic year.

### **Animal breeding**

All animal colonies are physically separated in their designated units. Breeding is arranged according to requisition from the Departments and Researchers.

### **Close colony Strains available in the A.R.C.**

#### **A. Rat Colonies**

- Sprague-Dawley (SD)
- Hooded
- Spontaneously Hypertensive Rats (SHR)
- SHR Stroke-Prone Rats
- Wistar
- WKY
- Dark Agouti
- Dwarf

#### **B. Mice Colonies**

- Db/db
- BALB/c
- NMRI

**C. Guinea- pig colony**

1. Dunkin Hartley strain

**D. Hamster Colony**

1. Syrian Hamster

**E. Rabbits colony**

1. New Zealand

**Number of Issued & Used Laboratory Animals  
(April 2020 – April 2021)**

<b>FACULTY</b>	<b>TYPE OF ANIMALS</b>	<b>NUMBER</b>
Faculty of Medicine	Mice (All Strains)	1,200
Faculty of Medicine	Rats (All Strains)	1,400
Faculty of Medicine	Guinea Pigs	20
Faculty of Pharmacy	Mice (All Strains)	450
Faculty of Pharmacy	Rats (All Strains)	220
Faculty of Pharmacy	Guinea Pigs	32
Faculty of Allied Health	Rats - Wistar	20
Faculty of Social Science	Rats - Wistar	10
K.A.R.C. for Practical	Golden Syrian Hamster	20
K.A.R.C. for Practical	New Zealand White Rabbits	10
Total Number issued to Faculty of Medicine		2,620 Laboratory Animals
Total Number issued to Faculty of Pharmacy		702 Laboratory Animals
Total Number issued to Faculty of A. Health		20 Laboratory Animals
Total Number issued to Faculty of Social Science		10 Laboratory Animals
Total Number used by Animal House		30 Laboratory Animals
<b><u>Grand Total of Laboratory Animals</u></b>		<b><u>3,382</u></b>

<b>Project Category</b>	<b>Number</b>
M.Sc. Project	8



Ph.D. Project	2
KFAS support	4
Departmental Support	10
Research Admin. Support	18

## **Conclusion**

Despite the barriers associated with the pandemic, the ARC was able to support research at the Health Sciences Center during the current academic year by providing animals and facilities to maintain them. The ARC supported 42 research projects this academic year. All members of staff at the ARC have contributed to this impressive achievement. The ARC gratefully acknowledges the support, and continued guidance of the Dean of Faculty of Medicine, and all Deans of other Faculties, Vice-Deans and other Administrators, the Finance, Maintenance, and Stores Departments. The ARC acknowledges the support provided by the Office of the Vice-President of HSC. Finally, we also thank the researchers, students and technicians using the ARC facilities.

## **6. ELECTRON MICROSCOPE UNIT SERVICES: 2020-2021**

### **INTRODUCTION**

The Electron Microscopy Unit (EMU) of the Faculty of Medicine is an independent body of the Health Sciences Center, under the administration of the Vice-Dean for Research and Postgraduate Studies that functions with a member of the Academic staff as the Director. Two experienced EM technologists provide reliable technical support and assist in daily operations at the Unit. The unit is housed in level G of main building of the Faculty of Medicine. A process to renew all electron microscope equipment is taking place gradually. A new IT 200 Mobile SEM has been fully operational since July 2020 and is being utilized effectively by both students and academic staff. The unit has two transmission electron microscopes (TEM) and one scanning electron microscope (SEM), ultra-microtomes, image analysis system, Gold and Carbon sputter coater and other such equipment that are required for the Electron Microscopy preparations. The main intention of providing EM services is to support basic science and clinical research at various levels in the Health Sciences Center. This covers undergraduate, graduate, PhD and academic staff research. Furthermore, the unit provides support to diagnostic services to the Ministry of Health in areas that include renal, muscular, storage and ciliary genetic disorders.

### **THE MAJOR OBJECTIVES OF THE EMU**

1. To provide modern, up-to-date EM facilities to academic staff and their students to support basic and medical research, education and clinical diagnostic service.
2. Assist academic staff on utilization and incorporation of TEM and SEM analysis in research work.
3. Train technical staff and students on Electron Microscopy methods and preparations.
4. Bridge the gap between electron microscopic research and cutting edge molecular research.

5. Assist Master's, Doctoral students and Post-doctoral fellows from different faculties of Health Sciences Centre in their courses and theses.

**Staff:**

**Faculty Members:**

**Head of Unit:** Dr. Issam Francis, B.M.B.Ch., M.I.A.C., F.R.C.Path.  
Associate Professor & Acting Chairman of Dept. of Pathology  
Head of Histopathology Unit, Mubarak Hospital

**Technical Staff:**

1. Jessy Rachel Mathew, B.Sc., M.Sc., B.Ed.  
Chief Laboratory Technician.
2. Philip George Theckel, B.Sc., M.Sc., M.A.  
Senior Laboratory Technician.

**STAFFING CHANGES**

**New staff appointed**

Dr. Issam Francis has been appointed as the Director of the E.M.Unit since July 2020

**LABORATORY ACTIVITIES DURING THE ACADEMIC YEAR 2020-2021**

**a) Contributions to teaching activities**

1. M.Sc. Basic Laboratory Medicine-Histopathology, Course no.0570-502
2. M.Sc. in Histology, Principles and methods of Electron Microscopy, Course no.0712-535
3. M.Sc. Anatomy, The structure of cells, Course no. 0560-539
4. M.Sc. Anatomy, The Microscopic Techniques, Course no. 0560-535
5. M. Sc. Physiology Project, Grant no. YM09/20

**b) Contributions to research activities**

1. Department of Pharmacology, Studies on neuroprotective effects of different polarity fractions from Allium cepa on experimental model of nerve crush injury. Grant no. YP05/18.
2. Research Project, Study of virus in fish. Grant no. DB02/17
3. Research Project: A new model of resistant exercise. Kupffer cells. Grant no. MY02/17
4. Re-myelination during pregnancy in rats. Grant no. YM 02/16
5. Alteration of vitamin D metabolism pathway and advanced end point in diabetes rat retina, modulatory role of lycopene and resveratrol.

6. Effect of heat therapy on STZ induced Diabetic Rat Model.
7. Bio Clinical Sciences: Study of Silver Nanoparticles, Nano silver Sodium Fluorite, GTR Membranes.
8. Bio Clinical Sciences: Evaluation of Surface Treatment Effects on the Bond Strength Between Novel CAD/CAM Dental Ceramics and Human Dentine.
9. Molecular genetics of PCD Grant No. P 114-13Mg-01.
10. Effect of Porphyrins on bacterial culture. Grant No. MB-01/18.
11. Characterization of the interplay between HDL and RAS in hypertension associated vascular remodeling.
12. Vascular smooth cells in vitro.
13. Investigation of Environmental and Pathologic resistant bacteria polluting the environment in Kuwait.

**List of staff members who used the facilities at the Electron Microscope Unit:**

1.	Prof. T. C. Mathew	Faculty of Allied Health
2.	Dr. Sherief El Shazley	Faculty of Allied Health
3.	Dr. Leila Vali	Faculty of Allied Health
4.	Prof. Waleed Renno	Anatomy
5.	Dr. Hanaa Sadek	Anatomy
6.	Dr. Heba Al Hussaini	Anatomy
7.	Dr. Muddanna Rao	Anatomy
8.	Prof. Narayana Kilarkaje	Anatomy
9.	Abdullah Al Sabah	Anatomy
10.	Dr. Aishah Al Jarallah	Biochemistry
11.	Prof. L. Benov	Biochemistry
12.	Dr. Dalal Al Mutairi	Pathology
13.	Dr. Abdeslam Mouihate	Physiology
14.	Dr. Hameed Al Sarraf	Physiology
15.	Dr. Lama Yousef	Faculty of Dentistry
16.	Dr. Syed Saad Bin Qasim	Faculty of Dentistry
17.	Dr. Maribasappa Karched	Faculty of Dentistry
18.	Dr. Azad Ismail Saheb	Kuwait Institute for Scientific Research

**c) Contribution to laboratory diagnostic services**

Renal and other Biopsies are delivered to the Unit on a weekly basis for processing, sectioning, staining and evaluation.

The following staff members have used the facilities at the EMU for clinical diagnosis:

1. Dr. Ahmed Al Taleb	Histopathology
2. Dr. Issam Francis	Pathology

#### **d) Contribution to public service**

No visits from outsiders due to Covid 19.

#### **Current Problems and anticipated solutions:**

1. The TEM machines are old and out of manufacturing production. They require frequent service and spare parts are difficult to purchase.
2. There are plans to purchase a new Transmission electron microscope (TEM) that will greatly improve the services provided by the Unit.
3. Utilization of EM services has been very limited in the faculty. With more than 5000 publications annually worldwide utilizing TEM and SEM, our college has produced a limited number of publications that use EM as part of their studies. Purchase of a new TEM will correct this situation.
4. Academic staff should be encouraged to incorporate EM in basic research including supervised MSc and PhD research.
5. Awaiting replacement of old TEM equipment in the unit while continuing to maintain and service the old TEM equipment so as to keep them in operational status as far as possible.

#### **CURRENT DEVELOPMENTS:**

The Unit installed a new CCD camera (MegaviewG3, EMSIS) for the TEM. This camera has greatly improved the quality of the TEM images and has already spurred renewed interest in the activities of the unit. The unit renewed its annual request to maintain and service the existing TEM equipment to maintain functionality at a basic level. TEM is operational and has been used extensively by staff. The status of the machine is under continuous surveillance but interruptions due to technical failure are to be expected. A new mobile SEM, IT 200, was installed in 2020 and is in perfect condition. New Ultra microtomes, a CPD and a Processing machine have greatly enhanced the productivity of the Unit. The Unit is hopeful that plans for newer machines will come to fruition sooner.

#### **Conclusion**

If a new TEM is purchased and installed, the Unit looks forward to playing significant roles in the major applications of TEM listed below.

#### **Major applications of TEM in basic and clinical research include:**

- 3D tissue imaging
- Biological production and viral load monitoring
- Cryobiology
- Cryo-electron microscopy
- Diagnostic electron microscopy
- Drug research
- Electron tomography
- Food science
- X-ray microanalysis

- Protein localization
- Structural biology
- Toxicology
- Virology
- Pharmaceutical QC

**Applications of TEM in Medical Diagnosis:**

- Renal disease
- Respiratory /ciliary disorders
- Muscle disease
- Inherited metabolic disorders
- Viral and other microbial infections
- Oncology

The Unit also plans to conduct regular seminars and training workshops. The Unit looks forward with hope that a new TEM will be installed in the near future.

**Publications / Research Papers (2020- 2021):**

- Al-Adwani DG, Renno WM, Orabi KY (2019) Neurotherapeutic effects of Ginkgo biloba extract and its terpene trilactone, ginkgolide B, on sciatic crush injury model: A new evidence. PLoS ONE 14(12): e0226626. <https://doi.org/10.1371/journal.pone.0226626>
- Rita Rahmeh, Abrar Akbar, Thnayan Alonaizi, Mohamed Kishk, Anisha Shajan, Batool Akbar (2020) Characterization and application of antimicrobials produced by Enterococcus faecium S6 isolated from raw camel milk. J. Dairy Sci. 103:11106–11115. <https://doi.org/10.3168/jds.2020-18871>
- Fatma J. Al-Saeedi, Salah Kh. Al-Waheeb, Peramaiyan Rajendran, Khalid M. Khan & Moudhi Sadan (2021): Early initiation of insulin attenuates histological and functional changes in the liver of streptozotocin-induced diabetic rats using 99mTc-sulfur colloid functional imaging, Journal of Receptors and Signal Transduction, DOI: 10.1080/10799893.2021.1912097
- Renno WM, Afzal M, Paul B, Nair D, Kumar J and Al-Hassan JM (2021) Catfish Epidermal Preparation accelerates healing of damaged nerve in a Sciatic Nerve crush injury rat model. Front. Pharmacol. 12:632028. doi: 10.3389/fphar.2021.632028



## HEALTH SCIENCES CENTER

The Research Unit for Genomics, Proteomics and Cellomics Studies (OMICS)

### 2020-2021 ANNUAL REPORT Project No. SRUL02/13

Genomics, Proteomics and Cellomics Studies Research Unit

<b>PI &amp; Director:</b>	<b>Prof. Moussa Alkhalaf</b> Biochemistry, Faculty of Medicine (Until September 12, 2020)
	<b>Prof. Wafaa Jamal</b> Microbiology, Faculty of Medicine (From September 13, 2020)
<b>Supervisors:</b>	<b>Prof. Eiman Mokaddas</b> Vice Dean Research & Postgraduate Studies Faculty of Medicine
	<b>Dr. Ali R. Almutairi</b> Assistant Vice President for Research Finance & Implementation
<b>Steering Committee:</b>	<b>Prof. Mohammad Abdel Hamid</b> VDR, Faculty of Pharmacy
	<b>Dr. Rana Al-Awadhi</b> VDR, Faculty of Allied Health Sciences
	<b>Dr. Areej Al-Khabbaz</b> VDR, Faculty of Dentistry
<b>Report Period</b>	<b>: April 01, 2020 to March 31, 2021</b>

## Contents

- 1. Summary**
- 2. Introduction**
- 3. Achievements, Equipment Utilization and future requirements**
- 4. Research Publications and the leading role of  
OMICSRU/RCF in developing research culture at HSC**
- 5. Details of OMICSRU/RCF manpower (2020-2021)**
- 6. Project budget utilization for SRUL02/13 (2020-2021)**
- 7. Purchase Report for SRUL02/13 (2020-2021)**
- 8. Expected budget with justification for SRUL02/13 (2021-2022)**
- 9. Estimated budget with justification for SRUL02/13 (2022-2023)**
- 10. Acknowledgements**

## The impact of COVID -19 & Fire accident on the First Floor

Early March in 2020, we have all experienced something like never before in our times, with the emergence of the COVID - 19 outbreak that quickly turned into a global pandemic. Due to this, long shutdowns, unusual work arrangement and also fire accident on the first floor has impacted the research and training activities at OMICSRU - RCF. We are just returning slowly to normalcy. Although this was one of the most challenging years for many of us, in fiscal year 2020 -2021, we have managed to provide equipment availability, technical support and services in progressing the research activity of researchers and students from HSC, Faculty of Science and KISR.

### 1. Summary

The Genomics, Proteomics and Cellomics Studies (OMICSRU) Research Unit (previously known as the Research Core Facility (RCF) at the Health Sciences Centre (HSC) is a specialized cutting edge technology research unit established by the Research Sector (RS), Kuwait University. The mission of the OMICSRU is to enable faculty researchers, undergraduate, graduate students and technical staff to have accessibility to dedicated facilities to perform research in basic and clinical sciences in Genomics, Proteomics and Cell Biology. Services at these facilities are delivered by trained and experienced staff to enable, facilitate or enhance the research mission of the university. The 2020-2021 annual report highlighted the achievements, training support, funding and oversight of the laboratories available at OMICSRU.

Since its inception, the OMICSRU has been highly successful, productive, and impacted the research output generation related to the intended areas, and it's evident from a large number of full-length research publications (n = 254 till date). During the academic year 2020-2021, OMICSRU has provided the access, and training support to both PI's, staff and students from different faculties and institutions. The entire activity during this year, yielded 8 research papers in peer-reviewed journals. Organized 3 webinars to update on the availability of equipment and its applications to the students and staff at HSC and enable them to use for their research.

In the year 2020-2021, staff/ researchers from 4 faculties/ non HSC faculty received 225 requests to utilize the equipment at the OMICSRU, analyzed 9,946 samples.

Besides this, to promote and establish sustainable research culture at HSC, the staff at OMICSRU regularly engaged in conducting training sessions, workshops and seminars for HSC community (faculty members, students and technical staff). In addition, OMICSRU staff has been engaged in demonstrating and teaching experimental techniques to undergraduate and graduate students towards the fulfillment of the requirements for undergraduate course work, graduate research theses for master's (MSc) and doctoral (PhD) dissertations.

**Table 1. Productivity during 2020 – 2021**

1.	Number of Papers published	8
2.	Number of Undergrad students trained	2
3.	Number of MSc students trained	3
4.	Number of PhD students trained	2
5.	Number of KU Staff trained	6



6.	Total projects served	35
8.	Total webinars conducted	2
11.	Total number Student & PI requests	224
12.	Total number samples analyzed	9942

**Table 2. Webinars conducted during 2020-2021**

S.No.	Speaker name	Webinar title	Date
1.	Samih Alqawlaq, PhD Qiagen, Genomics Sales Development Manager, Dubai Middle East and Africa	Introducing QIAGEN NGS Solutions (QIAseq): Robust Chemistry, Faster Workflows, and Better Sequencing Economics	Sunday, November 08, 2020
2.	Ozguncem Bozkulak, PhD Regional Manager Eastern Europe, Middle East, Africa & Turkey Cell Analysis - Product line ACEA XA Agilent Technologies	Agilent NovoCyte: a high- performance benchtop flow cytometer designed for all levels of users and all types of laboratories	Wednesday, November 25, 2020

### **Equipment Advertisement emails sent during 2020-2021**

Advertised two equipment, Incucyte S3 Live cell imaging system and UVP Biospectrum - Multispectral Imaging System via email to all our HSC users.

In conclusion, the OMICSRU is a broadly accessible, shared research facility has made excellent progress in developing, fostering research skills and training in genomics, proteomics and cellomics studies to individual PIs academic and health sciences research, and many of their staff, undergraduate and graduate students. To enable the researchers and students to use without any interruption and continued upgrade is required. Hence, the approval of the financial support to OMICSRU for 2020 - 2021, through SRUL02/13 & GM01/15, with the requested manpower budget, running cost, new equipment, and equipment maintenance is essential. The uninterrupted and financial support for the OMICSRU through SRUL02/13 & GM01/15 from the Research Sector of Kuwait University is gratefully acknowledged.

### **Funding details**

To maintain the equipment in good condition for enhancing the research and training activities at OMICSRU/RCF a total sum of KD 480,088.357.000 is requested through SRUL02/13 for 2020-2021. The budget will cover the cost of manpower KD 112,800/- for 15 ongoing permanent manpower, 2 secondments, and running cost that's consumables & reagents KD 56,456.357/-, petty cash KD. 3000/-, equipment KD. 125,619/- and equipment maintenance KD. 182,213.000.

## 2. Introduction

Kuwait University's Health Sciences Center (HSC) is an educational institution specialized in health-care, must value high quality advanced research as a basic foundation to accomplish most prestigious research university in the world and to fulfill its objectives of teaching, training and research community services. The OMICSRU at HSC is broadly accessible, provides access to specialized instrumentation, technologies, training and high quality scientific/analytical services for the conduct of basic and clinical research. To successfully achieve all these goals, three major issues must be addressed, which include **A.** Professionally qualified and experienced manpower. **B.** The state of art infrastructure, as evidenced from the availability of the equipment and resources, to encourage innovative and cutting edge research, and **C.** besides these two, a fully proficient administrative hierarchy, which encourages independent and original thinking and facilitates the work of researchers by establishing a progressive and forward looking support system. Towards the implementation of the above ideas and goals at HSC, the Research Sector (RS) at Kuwait University has generously supported the establishment and functioning of the Research Core Facility OMICS Research Unit (OMICSRU) through the General Facility grants GM 01/01, SRUL02/13 and GM01/15. This Facility was established to serve primarily the needs of the five HSC Faculties, i.e. Medicine, Pharmacy, Dentistry, Allied Health Sciences, and Public Health.

According to the article 72 of Rules and Regulations of RS Research Support System, a specialized Research Unit, like OMICSRU, is aimed at achieving the following:

1. Effective utilization of facilities and capabilities and providing the infrastructure for executing advanced scientific research projects.
2. Develop and implement strategic plans for raising the status of scientific research at Kuwait University.
3. Highlight and enhance KU's research strength
4. Encourage multidisciplinary research, joint projects and activities across faculties.
5. Provide continuous support, and enhance research infrastructure through:
  - a. Establishing research units and laboratories with latest most advanced scientific equipment
  - b. Avoiding duplication of facilities and equipment.
  - c. Providing continuous maintenance of scientific equipment, with requisite upgrade, and ensuring that the facilities are maintained in good working condition.
  - d. Providing trained cadres, developing their skills and ensuring safety.
6. Improving the quality of scientific research through:
  - a. Promoting specialized research groups and consortiums.
  - b. Training and encouraging participation of young researchers.
  - c. Supporting and promoting graduate students' research activities.
  - d. Focusing on priority research areas of direct relevance to society, and finding practical solutions to local concerns and problems.
7. Developing partnerships and collaborations with local, regional and international research institutions.
8. Focus on research results and outcomes, also explore their commercial propensity.

Towards accomplishing the above goals, the OMICSRU at HSC houses technically advanced and state-of-the-art equipment required for cutting-edge research in health sciences, and professionally qualified and experienced manpower; all of which are generously supported by RS. With the OMICSRU, the administrators at the RS and the five Faculties of HSC have taken decision towards extending state-of-the-art equipment to facilitate the health sciences researchers community through the creation of a centralized research unit at HSC, which houses many sophisticated equipment to accomplish high quality research. The OMICSRU thus marks the pinnacle of RS and HSC's relentless efforts in spatial adjustments, acquisition of new equipment and technical empowerment to offer best of the facilities, resources and services in fields of Genomics, Proteomics and Cellomics Studies.

Laboratory Information Management System site is available on the main page of Health Sciences Centre, Kuwait University. The site can be accessed for registration (using pre-assigned username and password) and equipment reservation/booking by logging on to <http://www.hsc.edu.kw/rcf>. The site has details of all the equipment available at OMICSRU. Through this site, researches, staff and students with a valid funded project number can find out the availability of the desired equipment with respect to specific slot timing and dates and book them accordingly. Hence, they can plan and execute their experiments without facing administrative and regulatory inconveniences.

The conceptual basis for the establishment of OMICSRU-RCF revolves around the optimum utilization of the available resources by the academic and research staff/students (undergraduate, graduate and postgraduate medical ) of different Faculties and Departments at HSC, Kuwait University, and other health-related institutions in Kuwait.

The webinar advertisements circulated to all HSC and research institutes staff, the graduate students (MSc and PhD), postgraduate trainees/residents of Kuwait Institute of Medical Specialization (KIMS), and undergraduate students of the five faculties of HSC.

### **3. Achievements and Equipment Utilization**

#### **A. Establishment, standardization, operation and justification of the equipment in various specialized laboratories**

The instruments currently available at OMICSRU were carefully selected after extensive consultations with active Researchers, Specialized Technical Committee/Steering Committee and Vice Deans of Research from different Faculties at the HSC with the hope to provide the HSC research community the ability and the power to address latest trends in research in the areas of basic and applied health sciences relevant to Kuwait and the region. Towards this end, the equipment at OMICSRU are located on two floors of OMICSRU building under one roof, and are divided into four specialized laboratories. The details of these laboratories and the equipment/facilities present in OMICSRU are given below.

**1. Sample preparation laboratory:** These laboratories consist of areas to handle/isolate and purify tissues and cells, and intracellular materials, including nucleic acids and proteins for analysis. These laboratories house sample preparation instruments and robots capable of handling hundreds of samples daily for PCR sample preparations, DNA, RNA and protein

extractions, analyses and quantification. The facility also includes capabilities to synthesize oligonucleotide primers for research and diagnostic applications.

**2. Cellomics laboratories:** These laboratories have been established to provide researchers, faculty, staff, and students with state of the art instrumentation that will allow them to perform laser based flow cytometric analysis and cell sorting and training. The laboratory set up is meant to fulfill the requirements of various aspects of cell and tissue-culture and cell analysis, which include sterile hoods for cell and tissue culture and micro manipulation system which accurately picks up single cells for visualization and tracking of molecules in living cells, using specialized plate readers and high precision microscopes and other equipment.

**3. Genomics laboratory:** The laboratory mainly dedicated to furthering genome science and technology. The information generated will provide information for prevention, diagnosis of communicable and genetic diseases as well as common killers or causes for chronic ill health including cardiovascular, diabetes, cancer, and dementia. The laboratory performs and focuses on the molecular diagnostic testing to identify genetic changes and utilization of genomic techniques to study structural, organizational and functional changes in DNA of a single gene or the interactions of many genes. The laboratory addresses detailed search for genetic variations due to mutations/changes in a single base pair to variations in whole chromosomes and much more using Sanger sequencer. The whole genome sequencing for microbial and viral microbiome, metagenomics, de novo sequencing, HLA typing, targeted and small RNA sequencing applications are available through Illumina MiSeq sequencing System (Next Generation Sequencing). The equipment in this laboratory is continuously being utilized by researchers to obtain data related to various aspects of genomics. All instruments in this laboratory are standardized and utilized.

**4. Proteomics laboratory:** Proteomics lab provides high throughput proteomic techniques. Currently these laboratories focus on the crude protein extraction (from animal, plant, microbial samples, and tissue and cell culture), fractionation, and identification by the peptide mass fingerprint, and analysis of proteins and peptides using Mascot software (protein pilot) for research applications. These techniques are being applied to basic research, cancer studies and other diseases and drug discovery. With the completion of a large number of Genome Projects, including the human and non-human genomes, significant amount of information regarding molecular and cellular processes can be obtained from the products of gene expression, activity pattern and it's an important component of genomics which is extremely important in understanding their role in health and disease. With these issues in the background, the proteome facility at the OMICSRU was built. The laboratory is useful for both basic and clinical research.

**Digital Laboratory Information management system (LIMS):**

An easy and user friendly system to organize and follow-up the utilization of the equipment available at OMICSRU-RCF. LIMS is vital for its successful utilization. To that end, all equipment is linked via LIMS, which accelerates and organizes the workflow at OMICSRU-RCF. Researchers can login the system via the website <http://www.hsc.edu.kw/rcf>, fill the request forms electronically and send them with the samples for analysis. Sample tracking and the results are then sent to the researchers. The equipment usage details, faculty wise, department wise and instrument wise are presented in table 3

## **B. Administration of the OMICSRU**

The Director & PI, Prof. Moussa Alkhalaf, ( Faculty of Medicine), until September 12, 2020, Prof. Wafaa Jamal ( Faculty of Medicine) from September 13, 2020, the supervisor, Prof. Eiman Mokaddas (Vice Dean Research and Postgraduate Studies, Faculty of Medicine), Dr. Ali Rashid Almutairi ( Research Finance & Implementation, Research Sector) are responsible to manage the facility, provide guidance, resolve conflicts, evaluate the function, and approve day to day resources for maintenance of the OMICSRU-RCF.

The administrative and supervisory committee with the members of steering committee (Dr. Rana Al-Awadhi, Faculty of Allied Health Sciences, Dr. Areej Al – Khabbaz, Faculty of Dentistry, and Prof. Mohammad Abdel Hamid, Faculty of Pharmacy), meet once each semester to discuss all aspects related to the fulfilment of the aims of the OMICSRU.

To streamline the functioning of OMICSRU, constituted the technical committee by the Vice Dean for Research & Postgraduate Studies with the following members.

1. Prof. Moussa Alkhalaf	Chairman (until September 12, 2020)
2. Prof. Wafaa Jamal	Chairman (from September 13, 2020)
3. Prof. Abu Salem Mustafa	Member
4. Prof. Yunus Luqmani	Member
5. Dr. Abeer Abdullah	Member
6. Dr. Sulaiman Al-Sabah	Member
7. Dr. Aishah Al-Jarallah	Member
8. Dr. Ghadir Jamal	Member
9. Dr. Randa AbdulSalam	Member
10. Dr. Fatma Shaban	Member

## **D. Increasing OMICSRU awareness through Webinars**

To increase the awareness related to the utilization and potential of OMICSRU, the Director has organized equipment focused webinar to researchers, staff and students of different Faculties of Health Sciences Centre in the year 2020-2021. A brief overview of these given below.

### ***Webinars & Equipment Advertisements coordinated by OMICSRU for teaching and training of faculty members, research staff and students***

To increase the awareness related to the utilization and potential of OMICSRU, during 2020 - 2021 fiscal year, the director has organized, coordinated and implemented 3 webinars through Microsoft teams, Zoom and Cisco Webex to all our HSC users and staff at OMICSRU. Two equipment availability advertisements circulated to all HSC users. See the enclosed flyers for the details, pages 10-13.



**HEALTH SCIENCE CENTER**  
**FACULTY OF MEDICINE**  
**OMICS RESEARCH UNIT**  
**RESEARCH CORE FACILITY**



**WEBINAR - 1**

**Introducing QIAGEN NGS Solutions (QIAseq): Robust Chemistry, Faster Workflows, and Better Sequencing Economics**

**Date: Sunday, November 08, 2020**

**Time: 10:00 – 11:00AM**

**Speaker: Samih Alqawlaq, PhD**  
**Qiagen, Genomics Sales Development Manager, Dubai**  
**Middle East and Africa**

**Webinar link : <https://qiagen.zoom.us/j/93314245797>**

**Sunday, November 08, 2020 at 10AM**

**Coordinator: Prof. Wafaa Jamal**  
**Director, Research Core Facility (RCF) –Health Science Center**  
**Tel: 246 36548**



## HEALTH SCIENCE CENTER

FACULTY OF MEDICINE  
OMICS RESEARCH UNIT  
RESEARCH CORE FACILITY



### WEBINAR -2

**Agilent NovoCyte:**

a high-performance benchtop flow cytometer  
designed for all levels of users and all types of  
laboratories

**Date:** Wednesday, November 25, 2020

**Time:** 10AM -11AM

**Speaker:** Ozguncem Bozkulak, PhD  
Regional Manager Eastern Europe, Middle East,  
Africa & Turkey  
Cell Analysis - Product line ACEA XA  
Agilent Technologies

**Webinar Link:**

<https://us05web.zoom.us/j/83390670923?pwd=RTR0UjVYWXZpWGJpV2tPdXg2eEFtUT09>

**Meeting ID:** 833 9067 0923

**Passcode:** 40c3Q5

**Coordinator: Prof. Wafaa Jamal**

**Director, Research Core Facility (RCF) –Health Science Center**

**Tel: 246 36548**



## HEALTH SCIENCE CENTER

### FACULTY OF MEDICINE OMICS RESEARCH UNIT RESEARCH CORE FACILITY



## EQUIPMENT ADVERTISEMENT -1

Dear Colleagues,

The staff of the OMICS Research Unit / RCF would like to invite all to use the *UVP Biospectrum -Multispectral Imaging System* for funded research projects of staff and students. OMICSRU/RCF users are requested to book the equipment online ( <http://www.hsc.edu.kw/rcf> ) and acknowledge the OMICS Research Unit Grant SRUL02/13 in conference abstracts, thesis, research papers and other publications.

### Applications of UVP Biospectrum Multispectral Imaging System

1. Transillumination: Image capture of DNA and RNA gels stained with Ethidium Bromide
2. Image capture of Ponceau stain, silver stain and Coomassie stained protein gels.
3. Chemiluminescent western blot imaging
4. Multiplex fluorescent western blots

Thanking you,  
With best wishes and regards,

Prof. Wafaa Jamal  
Director-OMICSRU, Research Core Facility  
Health Sciences Center, Kuwait University  
P.O.Box 24923, Safat 13110, Kuwait  
Tel: 246 36426  
Email: wafaa.jamal@ku.edu.kw





## HEALTH SCIENCE CENTER

FACULTY OF MEDICINE  
OMICS RESEARCH UNIT  
RESEARCH CORE FACILITY



### EQUIPMENT ADVERTISEMENT - 2

Dear Colleagues,

The staff of the OMICS Research Unit / RCF would like to invite all to use the **Incucyte S3 (Live cell imaging system)** for your research (funded projects of staff and students). OMICSRU/RCF users are requested to book the equipment on line ( <http://www.hsc.edu.kw/rcf> ) and acknowledge the OMICS Research Unit Grant **SRUL02/13** in conference abstracts, thesis, research papers and other publications.

The Main Applications of Incucyte S3 (Live cell imaging system)

1. Proliferation assays
2. Cell migration and invasion assays
3. Cytotoxicity and
4. Transfection efficiency assays

Thanking you,

With best wishes and regards,

Prof. Wafaa Jamal

Director-OMICSRU, Research Core Facility

Health Sciences Center, Kuwait University

P.O.Box 24923, Safat 13110, Kuwait

Tel: 246 36426

Email: wafaa.jamal@ku.edu.kw

## **E. Strengthening of OMICSRU and establishing strategic local and international partnerships**

The establishment of OMICSRU has created a venue from which various strategic research partnerships can be initiated, both at the national and international levels. In this regard, contacts with both national and international institutions have been established and strengthened.

The OMICSRU partnerships and collaborative efforts will certainly have significant impact on the quality of research performed at the HSC and KU. In this direction, the Director is reaching out to researchers through, newsletters, seminars, workshops and e-mails, etc.

## **F. Equipment utilization by staff and students at OMICSRU**

During the current report period, the OMICSRU/RCF handled a total of 223 requests and 9929 samples processed utilizing the equipment present in the OMICSRU/RCF (**Table 3**). The samples analyzed at OMICSRU were received from staff and students of Faculties of HSC/institutions, (Allied Health Sciences, Medicine, Pharmacy) and Faculties of Science and Life Science, Kuwait University).

**Research Core Facility**

**Faculty, Department, & Instrument wise Sample Count Report  
From Date: April 01, 2020 To Date March 31, 2021**

**SRUL 02/13**

**Table 3**

<b>Faculty</b>	<b>Department</b>	<b>Instrument</b>	<b>No. of Requests</b>	<b>No. of Samples</b>
Allied Health	Medical Laboratory	Abi 3130 Xl	1	96
		Illumina Miseq	5	120
Medicine	Anatomy	Biotek	5	120
		Data Analysis Software	2	12
		Densitometer Gs-800	8	67
		Zeiss Lsm 800 Meta	2	16
		Ziess Lsm 700	1	4
	Biochemistry	Abi 7500 Fast Real Time Pcr	1	96
		Abi Thermal Cyclcr	1	1
		Biotek	3	43
		Ilshin Freeze Dryer	2	55
		Mermade 12	1	18
		Qubit Flurometer	2	36
		Speed Vac	8	14
		Zeiss Lsm 800 Meta	2	27
		Ziess Lsm 700	25	150
	Medicine	Abi 3130 Xl	10	160
		Biotek	2	10
		Illumina Miseq	1	4
		Mermade 12	1	10
		Qubit Flurometer	15	117
		Rodwell Phoenix 60-Mp25	1	8
		Ziess Lsm 700	1	4
	Microbiology	Abi 3130 Xl	3	60
		Ilshin Freeze Dryer	4	65
		Qubit Flurometer	1	26
		Speed Vac	1	4
	Pathology	Abi 3130 Xl	1	18
		Abi 7500 Fast Real Time Pcr	10	647
	Pharmacology	Abi 7500 Fast Real Time Pcr	1	96
		Ziess Lsm 700	1	17

	Physiology	Biotek	2	81
		Ziess Lsm 700	3	14
	RCF	Abi 7500 Fast Real Time Pcr	1	16
		Densitometer Gs-800	1	100
		Proteom Lab Pf2d	1	2
		Waters Analytical Hplc	1	5
	Surgery	Abi Thermal Cycler	9	145
		Biosafety Cabinet Class2	1	16
		Biotek	12	168
		Gel Electrophoresis Unit	5	60
		Omniq	3	30
		Refrigerated Centrifuge	23	4396
		Uvp Bio Spectrum Imaging	1	10
Pharmacy	Pharmaceutical Chemistry	Abi 7500 Fast Real Time Pcr	3	384
		Densitometer Gs-800	1	60
		Refrigerated Centrifuge	1	24
	Pharmacology & Therapeutics	Abi 7500 Fast Real Time Pcr	19	2112
		Densitometer Gs-800	2	80
		Ziess Lsm 700	6	90
Science	Science	37c Incubator	1	2
		Abi 7500 Fast Real Time Pcr	1	12
		Affymetrix	1	7
		Incucyte S3	1	2
		Tissue Culture Hood	1	2
		Vi-Cell Analyzer	1	2
		Zeiss Axiovert -40	1	2
		<b>Total</b>	<b>223</b>	<b>9929</b>

The OMICSRU-RCF endures to help researchers and students and continues to deal with different activities.

Core facility actively engaged in solving the user's problems, providing technical consultancy for current and future experiments and projects. Performing routine activities like preparing annual reports, LIMS registration, regular equipment maintenance, inventory of reagents and consumables. Budget preparation for manpower, reagents and consumables, equipment maintenance contract requests and preparation of new equipment requests under two grants (SRUL02/13 & GM01/15). These two grants are generously supported by RS. The Director of OMICSRU manages 12 staff, coordinates seminars and workshops held at the facility, streamlining the daily administrative activities, preparing several reports on brief description of

functions of OMICSR for FOM undergraduate yearbook and a brief OMICSRU annual report for FOM.

### OMICSRU Workload in training Researchers and Students

OMICSRU has been providing training, which includes both PI's and students from different faculties and institutions such as HSC, Science, KCC, KISR. The OMICSRU staff trained students (Tables 4 -7), staff of various Faculties of HSC, Science, and KISR OMICSRU consistently provides training on standard operation protocol. Apart from everyday activities, the instruments are periodically maintained by the staff for impeccable output.

Table 4. List of Undergraduate students guided/trained

S. No.	Name of Student	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
1	Monita Wael	Dr. Alyaa Mousa	Tissue Culture	Vidya Alexander

Table 5. List of MSc students trained

S. No.	Name of Student	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
1	Abrara Almutairi	Prof. Waleed M Renno	Confocal Microscopy	Vidya alexander
2	Siham Al Hajri	Dr. Narayana Kiarkaje	Confocal Microscopy	Arshad Reza
3	Muneera Al Mutawa			

Table 6. List of PhD students trained

S. No.	Name of Students	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
1.	Alia	Prof Ludmil Benov	Speed Vaccum	Faiza Rasheed
2.	Zeineb Janbeih	Prof Ludmil Benov	Live Cell Observer Confocal Microscopy	Sunitha Pramod Vidya Alexander

Table 7. List of Kuwait University Staff trained

S.No.	Name of the Staff (Position)	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
1	Preethi Tobin (Technician)	Prof. Waleed M Renno	Confocal Microscopy	Vidya Alexander
2.	Carol D Souza Senior (Research Assistant)	Dr. Mohammed Jamal	Gel Electrophoresis	Amir Sheikh
3.	Ramani Varghese	Prof. Mohammed Ajmal	PCR	Amir Sheikh

	(Chief Technician)	Zahid	Real Time PCR	Faiza Rasheed
4.	Asha Merine Isaac (Research Assistant)	Dr.Saleem Al-Shammary	Relative Quantitation Reverse Transcription	Faiza Rasheed
5.	Dr.Nazima Habibi (Scientist)	Dr. Nazima Habibi	Real Time PCR	Faiza rasheed
6.	Ms. Reem Mutaira Badarunnisa Kandath (Research Assistant)	Dr. Jamshed Iqbal Prof. Wafaa Jamal	Nucleic Acid Quantitation Proteomics Analysis	Dr.Ananthalakshmi Kethireddy Betty Thomas

#### **4. Research Publications and the leading role of OMICSRU/RCF in developing research culture at HSC**

A total of 8 publications in peer reviewed journals were published during 2020-2021 (see the enclosed list, page 19-20. (PDF files enclosed in attached CD)

The Utilization of the OMICSRU-RCF by a large number of staff/researchers and graduate students (MSc and PhD) of all HSC Faculties suggests that OMICSRU is highly valuable for the state-of-the-art research laboratory in Biomedical Sciences, especially at HSC, Kuwait University.

##### **List of Publications in 2020-2021: Full-length Publications in 2020/2021**

1. Shayea AMF, Mousa AMA, Renno WM, Nadar MS, Qabazard B, Yousif MHM.J  
Chronic Treatment with hydrogen sulfide donor GYY4137 mitigates microglial and astrocyte activation in the spinal cord of Streptozotocin-induced diabetic rats. *neuropathol exp neurol.* 2020 Dec 4;79(12):1320-1343.
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## 5. Details of Manpower approved for 2020-2021

### A- Permanent Manpower:

- |                             |   |                                       |
|-----------------------------|---|---------------------------------------|
| 1. Dr. Fatma Shaban         | - | Research Associate (Cellomics)        |
| 2. Dr. Sunitha Pulikkot     | - | Research Associate (Cellomics)        |
| 3. Faiza P A Rasheed        | - | Research Assistant (Genomics)         |
| 4. Betty Teena Thomas       | - | Research Assistant (Proteomics)       |
| 5. Jucy Gabriel             | - | Research Assistant (Cellomics)        |
| 6. Sunitha Pramod           | - | Research Assistant (Cell Biology)     |
| 7. Riyas Sulaiman           | - | Research Assistant (Proteomics)       |
| 8. Mohd Arshad Reza         | - | Research Assistant (Cellomics)        |
| 9. Badarunnisa M Kandanath  | - | Research Assistant (Genomics)         |
| 10. Mohd Amir Shaikh        | - | Research Assistant (Genomics)         |
| 11. Tahera Nasreen Mohammed | - | Research Technician (stationed in RS) |
| 12. Nada Mohd. Salahuddin   | - | Senior Technician (stationed in RS)   |
| 13. Mustafa Mohd. Abubakar  | - | Senior Technician (stationed in RS)   |

### B- Secondment Manpower:

- |                           |   |                     |
|---------------------------|---|---------------------|
| 1. Dr. Randa Abd El Salam | - | Research Assistant  |
| 2. Ahmed Qatan            | - | Research Technician |

## 6. Project budget utilization for SRUL02/13 (2020-2021)

### Equipment:

The equipment budget was 99.73% utilized after receiving the ordered equipment. Please refer to the Budget status from Research Sector and the purchase report on page No. 22

### Consumable:

Due to Covid 19 pandemic, the companies couldn't submit all items in time. One consumable tender and one reagent contract were cancelled by the Purchase Department in the last week of March because rules prevent signing contracts in the last month of a financial year. We received some items transferred from year 2019- 2020. Please refer to the Budget status from Research Sector and the purchase report on page No. 22.

**Maintenance:**

The maintenance budget is 100% utilized. Since maintenance contracts cover 2 years, the pending sum is to cover the remaining cost of the contracts' period. Please refer to the Budget status from Research Sector and the purchase report on page No. 22.

**Manpower:**

The manpower budget is 98.5% utilized. The balance amount is due to stopping the salary of the secondment people during the closing time of covid 19 pandemics. Please see below the budget status and the purchase report from Research Sector on page No.21-22.

**7. Purchase Report for OMIMCSRU Project SRUL02/13 for 2020-2021**

**Budget**

- 11 purchase requests were prepared and sent to the R.S. (4 Maintenance, 3 Equipment, 1 Consumable & 3 Reagent).
- 2 Equipment requests, out of the 3 were cancelled because of shortage of budget.
- 1 maintenance contract was cancelled from the company because of ending of the expiration of the prices validity.
- One consumable tender and one reagent contract were cancelled by the Purchase Department because rules prevent signing contracts in the last month of a financial year.
- The documents of 12 contracts were received (7 maintenances, 1 equipment, 4 Reagent) costing K.D. (39,397.0, 47,800.0, 47,233.0) respectively.
- 3 bills from year 2019-2020 were received costing K.D. 1807.6 /.
- The total cost of the received reagent items is K.D. 28,611.60/.

**Please refer to the attached excel sheet.**

**Budget Statement of 2020-2021 for Project No. SRUL02/13 (from R.S.)**

- 1. Equipment:** A sum of K.D.75,000.0 was approved. A piece of equipment costing K.D. 74,800.0 was received. The balance is K.D.200.0/.
- 2. Consumable:** A sum of K.D. 56,184.0 was approved. Reagent items costing K.D. 28,611.60 were received. The balance is K.D. 699.0/.
- 3. Maintenance:** A sum of K.D. 85,250.0 was approved, K.D. 628.0 was spent. K.D. 84,627.0 is still pending. The balance is zero.
- 4. Manpower:** A sum of K.D. 98,727.0 was approved, K.D. 95,400.0 was spent, K.D. 1,800.0 is still pending. The balance is K.D. 1,527.0/.



### SRUL 02/13 Requests during 2020 – 2021

R.NO.	T. NO.	P. O.	CO.	O. Date	R. Date	Contract Price	Received	Left	TYPE	REMARKS
20191016	95	9644	Tectron	01/02/2021	31/12/2022	10,465.00	Running		Main.	
20191017	95	9645	Tectron	01/02/2021	31/12/2022	19,159.00	Running		Main.	
20191613	96		Alarfaj			0.00			Main.	Cancelled
20191613	96	9293	Behman	01/01/2021	31/12/2022	6,200.00	Running		Main.	
20191613	96	9295	AMICO	01/01/2021	31/12/2022	1,643.00	Running		Main.	
20191614	96	9299	Alarfaj	01/01/2021	31/12/2022	1,000.00	Running		Main.	
20191614	96	9301	Behman	01/01/2021	31/12/2022	800.00	Running		Main.	
20191614	96	9302	AMICO	01/01/2021	31/12/2022	130.00	Running		Main.	
						39,397.00			Main.	Total
20182333						0.00		0.00	Eq.	Cancelled
20182393	166	9222	Alarfaj	13/12/2020	15/03/2021	74,800.00	74,800.00	0.00	Eq.	
20191014						0.00		0.00	Eq.	Cancelled
						74,800.00		74,800.00	Eq.	Total
20191611	247		AMICO			4,205.00		4,205.00	Con.	Cancelled
20191611	247		Tectron			2,966.00		2,966.00	Con.	Cancelled
20191611	247		ATB			1,218.35		1,218.35	Con.	Cancelled
20191611	247		MAC			462.00		462.00	Con.	Cancelled
						8,851.35		8,851.35	Con.	Total
20191612	234	9440	MAC	06/01/2021	15/03/2021	15,248.00	2283.000	15,248.00	Reag	
20191612	234	9443	C.C.	06/01/2021	15/03/2021	1,819.00		1,819.00	Reag	
20191615	234	9592	MAC	24/01/2021	20/03/2021	25,301.00	24,518.00	783.00	Reag	
20191619	234	9419	C.C.	24/01/2021	15/03/2021	4,166.50	0	4,166.50	Reag	
20191619	234		MAC			699.00	0	699.00	Reag	Cancelled
20182327	191	8390	C.C.	24/11/2019	19/10/2020	0.00	937.3		Reag	Tran. From 19-20
20182332	191	8270	Dar Al taghezat	01/11/2019	19/08/2020	0.00	742.8		Reag	Tran. From 19-20
20182328	205	8278	Dar Al taghezat	17/11/2019	6/10/2020	0.00	130.5		Reag	Tran. From 19-20
						47,233.50	28611.60		Reag	Total

### 8. Expected budget with justification for SRUL02/13 (2021-2022)

The annual Budget of (2021-2022) required for the RCF/OMICSRU in Health Sciences” at Abdul Mohsen Abdul Razzak Health Sciences Centre, Kuwait University, Kuwait.

Category	Cost (KD)	Justification
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<b>I. Manpower:</b>	<b>112,800.000</b>	<b>3 Research Associates:</b> one of each for Genomics, Proteomics and Cell Biology (KD 700/month per position, Total =KD 25,200.0/ year).
---------------------	--------------------	--

**8 Senior Research Assistants:** 3 for Genomics, 2 for Proteomics and 3 for Cell Biology (KD 600/month per position, Total =KD 57,600/ year).

**1 Research Assistant:** one for Proteomics (KD 550/month, total= KD 6,600/ year).

**3 Senior Research Technicians:** one of each for Genomics, Proteomics, Cell Biology (KD 500/month per position, Total =KD 18,000/ year)

**2 Secondment manpower:** To help in financial matters and administrative work. (KD 450/month, Total =KD 5,400/ year)

## II. Running cost

<b>Equipment:</b>	<b>125,619.000</b>	For purchasing the important equipment for OMICSRU
<b>Consumable:</b>	<b>56,456.357</b>	For full utilization of the equipment in OMICSRU
<b>Petty Cash:</b>	<b>3,000.000</b>	For supplying consumable and gas urgently needed for the project
<b>Maintenance:</b>	<b>182,213.000</b>	For equipment maintenance in OMICSRU
<b>Grand Total:</b>	<b>KD. 480,088.357.000</b>	

The detailed justification for each item of the above budget is provided in the following pages.

### I. Justification for Manpower:

#### A- Permanent Manpower:

- |                             |  |
|-----------------------------|--|
| 1- Dr. Fatma Shaban         | - Research Associate (Cell omics)              |
| 2- Dr. Sunitha Pulikkot     | - Research Associate (Cell omics)              |
| 3- Faiza P A Rasheed        | - Senior Research Assistant (Genomics)         |
| 4- Betty Teena Thomas       | - Senior Research Assistant (Proteomics)       |
| 5- Jucy Gabriel             | - Senior Research Assistant (Cell omics)       |
| 6- Sunitha Pramod           | - Senior Research Assistant (Cell Biology)     |
| 7- Riyas Sulaiman           | - Senior Research Assistant (Proteomics)       |
| 8- Mohd Arshad Reza         | - Senior Research Assistant (Cell omics)       |
| 9- Badarunnisa M Kandanath  | - Senior Research Assistant (Genomics)         |
| 10- Mohd Amir Shaikh        | - Senior Research Assistant (Genomics)         |
| 11- Amr Fathi abdelhamid    | - Research Assistant (Proteomics)              |
| 12- Tahera Nasreen Mohammed | - Senior Research Technician (stationed in RS) |
| 13- Nada Mohd. Salahuddin   | - Senior Research Technician (stationed in RS) |
| 14- Mustafa Mohd. Abubakar  | - Senior Research Technician (stationed in RS) |

## B- Secondment Manpower:

5. Dr. Randa Abd El Salam - Research Assistant
6. Ahmed Qatan - Research Technician

## II. Justification for Running cost items:

**Equipment:** Equipment needed under SRUL02/13 budget, requested due to requests from HSC users. The total budget of these equipment is **KD. 125,619.0/**. Please see the attached table, page No.25.

**Consumable & Chemicals:** The consumable & chemicals are required to keep the equipment at OMICSRU- RCF running at their full utilization and complete potential. Although, individual PIs of funded projects are expected to provide the reagents/consumables required for their work, OMICSRU will need additional fund for consumables for newly purchased equipment, requested above, to keep the equipment in working condition and also to provide initial support training on techniques to help research projects staff & graduate students of all the five faculties of HSC. In addition, OMICSRU-RCF conducts workshops and technique demonstrations to undergraduate students enrolled in course based projects and also occasionally provides needed technical training to scientists and technical staff at other institutions based in Kuwait.

**Petty cash:** For the daily needs of gas and urgent reagents & consumables.

**Maintenance:** Maintenance is essential to keep all the equipment in good running condition. The budget for maintenance is required to cover the cost of the maintenance contract for two years for some equipment in the OMICSRU.

## Equipment during 2021-2022

S.No	Instrument name	Price (KD)
1.	Cello meter (Cell Viability Counter for Primary Cell Analysis)	13,000.000
2.	Hybridization Oven	3,319.000
3.	Ice Maker (2)	1,600.000
4.	liquid nitrogen storage system-90L	5,000.000
5.	Analytical Balance (2)	1,600.000
6.	Automated flow cytometer system	40,000.000
7.	Calibrated Densitometer system	5,500.000
8.	Combined Centrifuge/Vortex Mixer (4)	3,600.000
9.	Nano Photometer	3,300.000
10.	BENCHTOP pH METER (2)	1,000.000
11.	Handheld pH Meter (4)	400.000
12.	Bench top Fluorimeter	2,500.000
13.	Thermal cycler	2,500.000
14.	Automated Protein Analysis System	41,500.000
15.	Tissue homogenizer	800.000
	<b>Total</b>	<b>125,619.000</b>

9. Estimated Budget for General Facilities Projects - 2022-2023

Faculty of Medicine		Project: SRUL02/13	Total Amounts Requested
No.	Manpower	Description	
	Research Associate	3 position	25,200.000
	Senior Research Assistant	8 position	57,600.000
	Research Assistant	1 position	6,600.000
	Senior Research Technician	3 position	18,000.000
	Research Technician	-	-
	Assistant Technician	-	
	Admin. Employee/Secretary	-	
	<b>Other Manpower</b>		
	<b>Secondment manpower</b>		
	Research Assistant	1 position	3,000.000
	Research Technician	1 position	2,400.000
	<b>Running Cost</b>		
	Consumables	Chemicals, Reagents, etc	30,468.950
	Temp Manpower		-
	Maintenance		87,633.000
	Accessories		-
	Upgrade		-
	Petty Cash		3,000.000
	<b>Equipment</b>		<b>570,220.000</b>
			<b>Total</b>
			<b>804,121.95</b>

**Expected budget with justification for SRUL02/13 (2022-2023)**

<b>Category</b>	<b>Cost (KD)</b>	<b>Justification</b>
<b>I. Manpower</b>	<b>112,800.000</b>	<p><b>3 Research Associates:</b> One for proteomics, and two for cell biology (KD 700/-month per position, Total= KD. 25,200/-)</p> <p><b>8 Senior Research Assistants:</b> Three for genomics, three for proteomics and two for cell biology (KD 600/-month per position, Total =KD 57,600/-)</p> <p><b>1 Research Assistants:</b> (KD 550/- month per position, Total= KD. 6,600/-)</p> <p><b>3 Senior Research Technicians:</b> One each for genomics, proteomics and cell biology (KD 500/- month per position, Total= KD. 18,000/-)</p> <p><b>2 Secondment manpower:</b> To help in financial matters and administrative work. (KD 450/-month, Total =KD 5,400/-)</p>
<b>II. Running cost</b>		
Equipment	<b>570,220.000</b>	For buying Important Equipment for OMICSRU
Consumables and Reagents	<b>30,468.950</b>	For full utilization of all the equipment in OMICSRU
Temporary Manpower	-	-
Maintenance	<b>87,633.000</b>	To maintain all the requested equipment in OMICSRU
Petty Cash	<b>3,000.000</b>	
<b>Grand Total:</b>	<b>804,121.95</b>	

The detailed justification for each item of the above budget is provided in the following pages.

## Justification for Manpower:

<b>A. Permanent Manpower:</b>				
S.N .	Name	University I.D	Job Title	Salary
1	Dr. Fatma Shaban	19700609	Research Associate ( Cellomics)	8,400.000
2	Dr. Sunitha Pulikkot	21701267	Research Associate ( Cellomics)	8,400.000
3	New Position	-	Research Associate (Proteomics)	8,400.000
4	Faiza P A Rasheed	20801136	Senior Research Assistant (Genomics)	7,200.000
5	Betty Teena Thomas	20900316	Senior Research Assistant (Proteomics)	7,200.000
6	Jucy Gabriel	20603654	Senior Research Assistant (Cellomics)	7,200.000
7	Sunitha Pramod	20603340	Senior Research Assistant (Cell Biology)	7,200.000
8	Riyas Sulaiman	21301508	Senior Research Assistant (Proteomics)	7,200.000
9	Mohammed Arshad Reza	21401845	Senior Research Assistant (Cellomics)	7,200.000
10	Badarunnisa M Kandanath	21502060	Senior Research Assistant (Genomics)	7,200.000
11	Mohammad Amir Shaikh	21601094	Senior Research Assistant (Genomics)	7,200.000
12	Amro Fathi Abdelhamid Ibrahim	21601094	Research Assistant	6,600.000
13	Tahera Nasreen Mohammed	20504610	Senior Research Technician (stationed in RS)	6,000.000
14	Nada Mohammad. Salahuddin	20700944	Senior Research Technician (stationed in RS)	6,000.000
15	Mustafa Mohamed. Abobaker	20800023	Senior Research Technician (stationed in RS)	6,000.000
<b>B. Secondment Manpower:</b>				
1	Dr. Randa Abd El Salam	18404615	Research Assistant	3,000.00
2	Ahmed Fakhry Cottonani	21801890	Research Technician	2,400.00

## II. Justification for Running cost items:

**Equipment:** New equipment requests are added to SRUL02/13 budget year 2022-2023 due to the demanded requests from HSC users. The total budget of these equipment is **KD. 570,220.000**

**Consumables & Chemicals:** The consumables & chemicals are required to keep the machines running at OMICSRU- RCF and to their full utilization with complete potential. Although, individual PIs of funded projects are expected to provide the reagents/consumables required for

their work, OMICSRU will need additional funds for consumables for newly purchased machines and the equipment requested above to keep the machines in working conditions and also to provide initial support training on techniques to help research projects staff, graduate students of all the five faculties at HSC. In addition, OMICSRU-RCF conducts workshops and technique demonstrations to undergraduate & graduate students enrolled in course based projects and also occasionally to provide needed technical training to scientists and technical staff at other institutions based in Kuwait.

**Petty Cash:** To purchase urgent reagents, consumables & some equipment repair which are not covered under maintenance, stationery, ink cartridges and gas cylinder which are not available at KU store.

**Maintenance:** To keep all the equipment in running conditions, maintenance is essential. The budget for maintenance is required to have maintenance contract for two years for some equipment in the OMICSRU. The budgetary details for each equipment are given in the attached sheets.

**Estimated Budget for the required equipment for the year 2022/2023**

<b>N.O.</b>	<b>Equipment</b>	<b>Cost</b>
<b>1</b>	Talos F200C G2 TEM	362,500.000
<b>2</b>	High Frequency Ultrasound Imaging System	207,720.000
	<b>Total</b>	<b>570,220.000</b>

**10. Acknowledgements**

We are thankful to all academic staff, researchers and graduate/postgraduate students of different faculties of HSC, and other institutions in Kuwait, for utilizing the OMICSRU to cultivate good research culture and obtaining academic excellence.

We would also like to thank profoundly the Vice President for Research and all Assistant Vice Presidents for Research and staff at the Research Sector for their full-fledged financial, administrative and moral support, without which it is not possible to run the OMICSRU.

We are also thankful to the Vice President of Health Sciences and Deans and Vice Deans of Research of all HSC Faculties for the continued support. Our sincere thanks and appreciation are also due to all members of the supervisory, steering (Prof. Mohammad Abdel Hamid, VDR, Faculty of Pharmacy, Dr. Rana Al-Awadhi, VDR, Faculty of Allied Health Sciences, Dr. Areej Al-Khabbaz, VDR, Faculty of Dentistry) and technical committee (Prof. Yunus Luqmani, Faculty of Pharmacy, Dr. Abeer Abdullah, Faculty of Medicine, Dr. Sulaiman Al-Sabah, Faculty of Medicine, Dr. Aishah Al-Jarallah, Faculty of Medicine, Dr. Ghadir Jamal, Faculty of Allied Health Sciences), as well as the staff of OMICSRU for making it a highly successful facility.

The OMICSRU will definitely need their full-fledged continuous support to reach to new heights. With the sophisticated equipment, already available at OMICSRU and the approved, purchased during 2020-2021, we hope that OMICSRU can be instrumental in advancing the academic stature of the Health Sciences Centre and Kuwait University at the international level.

## **9. STAFF MEMBERS OF THE VICE DEAN FOR RESEARCH & POSTGRADUATE STUDIES OFFICE**

Prof. Eman Mokaddas (Vice-Dean for Research & Postgraduate Studies)

### **Support Staff:**

- Mr. Ahmad Qatanani
- Mrs. Zainab

## **10. CONCLUSION**

The VDR office continued to work diligently in order to achieve the objectives and needs of the researchers at the Faculty and to encourage more researchers to apply for funded research projects. During this academic year, efforts have been made to fulfill the needs of the researchers at the Faculty.

All achievements would not have been possible without the support of the staff members in the Faculty, and in particular staff who are serving on the different committees of the office. The VDR office will continue to support the researchers and research activities at the Faculty of Medicine in order to promote and achieve excellence in research.



## **ADMINISTRATIVE MANAGER**

## SERVICES & PURSUANCE DEPARTMENT

### DUTIES AND RESPONSIBILITIES

Services Department accomplish the requirements of all scientific and nonscientific departments. The nature of works includes, oversee the Civil, Mechanical, Electrical, Plumbing works & Cleaning Company tasks. As well as Services Department Monitor and co-ordinate with other contracting Companies work in F.O.M.

Services Dept. assist and meet some of the requirements of student's activities and other conferences, seminars, exhibitions & workshops in F.O.M.

More over services Dept. handle the transfer/clearing personal items (office equipment only) from the personal inventory.

We carry out most of the requirements of the F.O.M have been implemented by the support of various administrative departments; such as Planning department, Construction & Maintenance department, Housing and Furnishing department, Store Department, Information Systems and General Services department.

### Following are the Works implemented in Faculty of Medicine

- As per our future plan of past years, **replaced vinyl flooring in all departmental corridors. (Work Done).**
- As per our future plan of past years **Lecture Theatre 143, 144 and 010 are renovated.** But the Installation of chairs and tables are in pending.
- As per our future plan of past years **renovated lobby ie, replace flooring, ceiling & skylights, painting, New counter for security and other area, replaced Nameplates, install wooden paneling and plant pots in lobby.**
- Installed **vinyl flooring, Tables & chairs, re-arrange electrical circuit for lights, installed extra sockets, fabricate a new base for projector and fixed projector screens** in newly built **PBL rooms in MDL. (Work Done)**
- Letter sent to construction & Maintenance dept. to **Replace Ceiling, Light & Paint in Lab 335, 335A, 335B, 345.** and **extend partition to ceiling in lab. 335.** (up on request from Department). **(Work Done).**
- Letter sent to construction & Maintenance dept. to **do full renovation of 1<sup>st</sup> floor in RCF building. (Work Done).**
- Letter sent to construction & Maintenance dept. to **replace the flooring in RCF building Main corridor in Ground floor.** (up on request from Department). **(Work Done).**
- Converted a main store in RCF building in 1<sup>st</sup> floor to **2 toilets** (1 for gents and 1 for ladies) **kitchen and Store. (Work Done).**

- Letter sent to construction & Maintenance dept. to **replace all extension cable to wall mounted socket** to connect lab equipments. **(Work under correspondence)**.
- Provide additional **soap and tissue boxes** in **RCF Labs**. **(Work Done)**.
- **Replace old escalator** with **Elevator for physically disabled people**, in administration side. **(Work Done)**.
- Installed **additional emergency sockets** in **Pathology Dept., Medicine Dept., Pharmacology Dept., Physiology Dept., Biochemistry Dept. and Microbiology Dept.** (up on request from Department). **(Work Done)**.
- **Remove a partition room in surgery Dept., room 261 and cover the exposed pipe lines**. **(Work Done)**.
- Need to **remove a fume hood** in room **261****(Work under correspondence)**.
- **Replaced the flooring** in room **268** Surgery Dept. **(Work Done)**.
- Letter sent to construction & Maintenance dept. to install a **new door in corridor in front of room 423** (up on request from Department). **(Work under process)**
- **Handed over Lab. 424 to Pediatric Dept., From Biochemistry Dept.**
- **Disconnect and removed the gas pipe line** in all corridors in **ARC** and **plaster the gaps** with cement. Also installed **new epoxy flooring in all ARC corridors**. (up on request from Department). **(Work Done)**.
- **Replaced the carpet in Lecture theatre corridor**. **(Work Done)**.
- Letter sent to construction & Maintenance dept. to install a **split Unit in room 364** for sensitive lab equipment. (up on request from Department). **(Work under correspondence)**.

### General Works

- Installed / replaced door closures, door stoppers, door handles & Door locks in different offices and Labs up on request.
- Time to time checking the power supply, air condition systems and cleaning of all seminar rooms, MDLs, and Lecture theatres.
- Regularly checking cleanness, maintenance etc. in all toilets and resolved the problems if found.
- Replace old telephones in different offices and Labs up on request.
- Install or re-locate network cables through Trunkey in different Labs and offices up on request.
- Paint different Labs and offices in various Departments up on request.
- Provide furniture / telephone line & set for newly appointed staffs from, respective departments and Provide extra furniture or replaced old furniture from different departments up on request.
- Install carpets and window curtains in various departments up on request.
- Cleaning the carpets and chairs in various departments up on request.

- Replaced old indoor plants and provided extra plants in various departments up on request.
- Provide & Install custom made tables & Shelves in various departments up on request.
- Made necessary arrangements for poster day, Students Activities, Exams and other programs conduct by departments and outside organizations in F.O.M.
- Provide necessary arrangement, such as installation of sanitizers, fix awareness notices/sticker/rollups, arranging check points etc.. with the co-ordination of safety committee.
- Co-ordinate with vice-president of KU evaluation unit, made necessary arrangement to conduct the exam for high school students in F.O.M.

### **Future Plans**

- Replace existing florescent lights to LED Lights.
- Open a “*Trolley supermarket*” in campus.

## MAIL DEPARTMENT

### **Tasks of the Post Office:**

#### **Task 1:**

- Inside the faculty deliver all mail letters sent from Personnel Affairs Department, Finance Affairs Department and in general, mails from all departments of the faculty to be sent outside the faculty.
- Deliver circulates sent from the faculty.
- Receive all the outside mails from the General Mail Section and receive packages from Kifan Post in addition to providing Express Mail Services, receive incoming mails and deliver it to the scientific departments.
- Receive mails from inside the faculty and deliver it to the concerned departments. Also, deliver mails to Mubarak Health Area, Mubarak Al-Kabeer Hospital, Faculty of Dentistry and Faculty of Allied Medical Health.

#### **Task 2:**

- Related to Capital Health Area (Amiri Hospital – Kuwait Medical Specialization Institute – Kuwait Foundation for the Advancement of Sciences – Medical Warehouses – Criminal Evidences – Private Hospital in both Capital and Hawalli Medical Areas – Receive Civil ID Cards – Medical Centers – Ministry of Justice – Medical Companies – Medical licenses)
- Deliver Faculty Mails and invitations related to conferences and receive mail packages.

#### **Task 3:**

- Mails sent to Khaldiya Campus, deliver mails to the following Departments (Office of KU President – All departments inside the said campus).
- Deliver mails from the faculty staff to the Social Security Fund and vice versa.
- Issue ID cards – Issue airline tickets – finish paperwork related to the scientific missions – receive cheques issued to the staff from the finance Department – moreover deliver mails to the faculties at Khaldiya Campus – issue salary certificates and salary continuity certificate. Moreover, deliver passports to the Passports Section, Human Resources Department in order to renew residency permits.

#### **Task 4:**

- Related to Sabah Health Area and all affiliated hospitals, i.e. Makki Juma Center – Al-Bahar Center – Sabah Hospital (Internal Medicine – Surgery – Pediatrics – ENT - Obstetrics Hospital – Allergy – Psychiatric) – Al-Razi Hospital – Ibn Sina Chest and Dermatology Hospital (tuberculosis), Labor Examination, Skin Communicable Diseases, Hamed Al-Issa, Al-Nafisi, Laboratories Department, Ministry of Health, Premarital Examination, Babtain, Hearing and Speech Hospital.

- Jahraa Health Area – Jahraa Hospital – Medical Centers – Al-Ahmadi Health Area – Al-Adan Hospital – Al-Ahmadi Hospital – Jaber Al-Ahmad Hospital for Armed Forces - Private Hospitals – Private hospitals at Jahraa, Al-Ahmadi and Mubarak Al-Kabeer Governorates.
- Shuwaikh Campus and all Faculties at the campus - Department of Storage Affairs - Department of Construction and Maintenance - Department of Furniture and Housing - Deanship of Admission and Registration - Department of University Press - (Aafaq Magazine, Department of Sports Activities at the Deanship of Student Affairs, Society of Computer Teaching Staff).

## **ACADEMIC STAFF AFFAIRS**

The future plans of the Academic Staff Affairs office are as follows:

1. The office has created an updated staff database of academic and support academic staff in all the Departments. The database includes details such as names, civil ID number, designation, email ID, department name etc. of both the academic and support academic staff. We are planning on maintaining this system to continue all work electronically, after testing it for three months which started since April 2021 until July 2021.
2. We are currently testing an electronic emailing system in order to correspond with the academic and support academic staff in the Departments.
3. Since April 2021, the staff in the Academic Staff Affairs office are being trained and the work is distributed equally among them.
4. The staff are also assessing any possible flaws in the current work system, so that positive changes can be implemented for a smoother workflow.

## ACADEMIC STAFF AFFAIRS OFFICE REPORT

2020/2021

Approximately 73 applications were received. All applications were forwarded to the Departments according to routine procedures. The breakdown of the 73 applications are detailed below:

<u>Department</u>	<u>No.</u>	<u>Rec</u>	<u>Rejected</u>	<u>Withdr.or</u>	<u>Joined</u>	<u>In</u>	<u>Others</u>			<u>End</u>	<u>Renewal</u>
	<u>Applied</u>	<u>I.View</u>		<u>Declined</u>							
Anatomy	-	-	-	-	-	-	-	1	-	-	1
Biochemistry	22	-	-	-	-	-	-	1	-	-	1
Com.Medicine	21	-	-	-	1	-	-	-	-	-	-
Microbiology	-	-	-	-	-	-	-	1	-	-	2
Pharmacology	10	-	-	-	1	-	-	-	-	-	3
Physiology	16	-	-	-	-	-	-	1	-	-	1
Medicine	1	-	-	-	-	-	-	1	-	-	-
Nuclear Med	1	-	-	-	-	-	-	1	-	-	-
Obst. Gynae.	-	-	-	-	-	-	-	1	-	-	-
Pathology	1	-	-	-	-	-	-	-	-	-	1
Paediatrics	-	-	-	-	1	-	-	-	1	-	1
Radiology	-	-	-	-	-	-	-	1	-	-	-
Psychiatry	-	-	-	-	-	-	-	2	-	-	-
Surgery	-	-	-	-	-	-	-	-	-	-	-
Organ Transplant	1	-	-	-	-	-	-	-	-	-	-
<b><u>Total</u></b>	<b>73</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>10</b>	<b>1</b>	<b>-</b>	<b>10</b>

Note:

The candidates are currently applying for the open positions . The vacancy announcement will close in July, 4th 2021.



Nationality Department	USA & Canada	South America	Arabs	Europe	Asia & Australia	Africa	Nationality Not Specified
Anatomy None							
Biochemistry 22			Yemen 2 Egypt 4 Algeria 1 Sudan 3 Tunisia 1	Britain 2 Russia 1	India 6 Bangladesh 1 Australia 1		
C.M. 21	Canada 5		Lebanon 1 Egypt 4 Tunisia 1 Kuwait 1	Britain 2	India 4 Bangladesh 1 Pakistani 1	South Africa 1	
Microbiology None							
Pharmacology 10			Egypt 2 Kuwait 1 Jordan 1 Lebanon 1 Yemen 1		India 2 Australia 1	Ethiopia 1	
Physiology 16	Canada 1		Jordan 3 Kuwait 1 Egypt 3 Sudan 1 Palestine 1 Tunisia 1	France 1 Britain 1	Nepal 1 India 1	Nigeria 1	

Nationality Department	USA & Canada	South America	Arabs	Europe	Asia & Australia	Africa	Nationality Not Specified
Medicine 1			Egypt 1				
Nuclear Medicine 1			Sudan 1				
Obstet. & Gynae. None							
Pathology 1				Georgia 1			
Pediatrics None							
Psychiatry None							
Radiology None							
Surgery None							
Organ Transplant 1	Canada 1						

## SUMMARY

Nationality Department	USA & Canada	South America	Arabs	Europe	Asia & Australia	Africa	Nationality Not Specified	
							Ant.	Bio.
Anatomy -	Canada 7		Yemen 3	Briain 5	India 13	South Africa 1	Ant.	-
Biochem. 22			Egypt 14	Russia 1	Australia 2	Ethiopia 1	Bio.	-
C.M. 21			Jordan 4	France 1	Pakistan 1	Nigeria 1	C.M.	-
Micro. -			Algeria 1	Georgia 1	Bangladesh 2		Mic.	-
Pharma. 10			Tunisia 3		Nepal 1		Phar.	-
Physio. 16			Sudan 5				Phys	-
Medicine 1			Kuwait 3				Med.	-
N. Med. 1			Palestine 1				N.Med	-
OBG. -			Lebanon 2				OBG.	-
Pathology 1							Path.	-
Pediatrics -							Ped.	-
Radiology -							Radi.	-
Psych. -							Psyc.	-
Surgery -							Surg.	-
Organ Transplant 1								-
<b>73</b>	<b>7</b>		<b>36</b>	<b>8</b>	<b>19</b>	<b>3</b>		<b>-</b>

## ACADEMIC STAFF WHO JOINED

Name	Department	Post	Result	Date
Zainab AlMousa	Community Medicine	Assistant Professor	Joined	8/15/2021
Habib Abul	Pharmacology	Professor	Joined	4/11/2021
Hind Al Sharhan	Pediatrics	Assistant Professor	Joined	9/29/2020

**ANNUAL REPORT - SUPPORT ACADEMIC STAFF**  
**ACADEMIC YEAR 2020 - 2021 (November 2020 - June 2021)**

S.NO.	DEPARTMENTS	TEACHING ASSISTANT POSITIONS ADVERTISED	CLINICAL INSTRUCTOR POSITIONS ADVERTISED	STAFF WHO JOINED		STAFF WHO GOT PROMOTED	
				TEACHING ASSISTANT	CLINICAL INSTRUCTOR	TEACHING ASSISTANT	CLINICAL INSTRUCTOR
1	Anatomy	2	–	–	–	–	–
2	Biochemistry	–	–	–	–	–	–
3	Community Medicine	1	–	1	–	–	–
4	Medicine	–	1	–	–	–	–
5	Microbiology	–	–	–	–	1	–
6	Nuclear Medicine	–	–	–	–	–	–
7	Obstetrics & Gynaecology	1	–	–	–	–	–
8	Organ Transplant	–	–	–	–	–	–
9	Paediatrics	–	–	–	–	–	–
10	Pathology	2	–	–	–	–	–
11	Pharmacology & Toxicology	–	–	–	–	–	–
12	Physiology	–	–	–	–	2	–
13	Psychiatry	1	–	–	–	–	–
14	Radiology	–	–	–	–	–	–
15	Surgery	1	–	–	–	–	–
<b>TOTAL</b>		<b>8</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>0</b>

**Notes:**

The candidates are currently applying for the open positions. The vacancy announcement will close by the end of June 2021.

## **FINANCE AND PURCHASING DEPARTMENT**

### **1. Departments' Requests and Supplies**

- All the departmental request forms were received and sent to the University's Purchasing Department according to the dates set by the administration. We also followed up the execution stages and awarding for the companies whose offers were accepted.
- The department followed up all supplies for the contracts included with the companies for items that are delivered to the Department of Storage Affairs and executed the procedures needed to transfer it to the Faculty as soon as possible in order to satisfy the needs of the departments from such items.
- Coordination has been made with Professor\ Salah Alwhaib - Head Of instrument committee through many meetings to set priorities to arrange laboratory equipment for all departments upon request from the Financial Affairs Department and according to the budget allocated to the faculty for this item, taking into account the provision of the requirements of all departments according to what has been provided during the past years for each department (the attached CD contains a detailed statement for all the items).

### **2. Maintenance Contracts**

- All maintenance requests from the departments for the scientific equipment have been received, and the necessary actions have been made towards the implementation of the required in coordination with the University's Purchasing Department.
- Follow-up has been made with all departments regarding maintenance requests for the devices or equipment of the department, so that a copy of the last maintenance contract for the device or equipment for which maintenance is to be performed and the invoice for the purchase of the device or equipment were compared in order to estimate the value of the maintenance contract through the purchase price of the device or equipment in order to avoid any mistake in estimating the maintenance value.

### **3. Scientific Poster Day**

- Arrangements have been made to organize the celebration of the twenty-fifth scientific poster day, which is organized annually by the faculty, during the period from 16 to 18 March 2021. All procedures for that celebration were implemented online; publications, gifts, launch meals

and snacks. But the celebration was canceled due to the Corona pandemic, as all activities have stopped and the university was shut down for months.

#### **4. Estimated Budget and Inventory Cost Estimate**

- A faculty's draft budget for the fiscal year 2021/2022 was prepared for all the requirements of the departments, whether manpower, scientific and office equipment, and all other items that the departments need throughout the year. All inquiries that the Financial Affairs Department inquired about regarding any item of that budget were answered and clarified.
- Inventory cost estimate for the Faculty of Medicine for the fiscal year 2021/2022 has been completed, which includes all the items that were supplied to the departments, including consumables, spare parts, chemicals, animal feed, stationery and others, in addition to the new materials requested by the departments.

#### **5. Cash Advances**

- Temporary cash advance for the final clinical examinations during the month of June 2021 was settled which was registered in the name of faculty staff and some technicians during the fiscal year ending on 3/31/2021.

#### **6- Compensation for Publishing Researches and Evaluation of Members**

- The Financial Affairs Department was addressed to pay compensation for publishing researches and reprinting research publications for faculty staff of all departments.
- The Financial Affairs Department was addressed to pay the dues of all external members who evaluated the work of faculty staff in preparation for staff promotion. Any late dues of external members were followed up.

Required	Department	Request No.	Tender No.	Supply End Date	Supply Start Date	Contract Number	Contract amount	Company Name
Lab furniture	Physiology	0915/18	211	15/03/2020	15/10/2019	7945	34750.000	Alessa
							<b><u>34750.000</u></b>	<b><u>Total</u></b>
Lab equipment	pediatrics	2057/18	238	10/03/2020	19/01/2020	8632	4930.000	Averroes
Lab equipment	pediatrics	2057/18	238	31/01/2021	1/10/2020	8954	5188.000	Ashraf
Lab equipment	pediatrics	2057/18	238	11/02/2021	11/10/2020	8953	550.000	Almajid
Lab equipment	pediatrics	2057/18	238	28/02/2021	25/10/2020	8955	2698.000	Dmetco
Lab equipment	medicine	0225/17	153	20/03/2021	24/01/2021	9594	5990.000	Averroes
Lab equipment	medicine	0225/17	153	20/03/2021	24/01/2021	9829	1750.000	Med arabia
Lab equipment	biochem	2689/18	135	15/03/2021	13/12/2020	9264	9645.000	Med arabia
Lab equipment	biochem	2689/18	135	9/03/2021	10/12/2020	9262	17360.000	Averroes
Lab equipment	biochem	2689/18	135	9/03/2021	10/12/2020	9267	2340.000	Advanced tech
Lab equipment	biochem	2689/18	135	20/03/2021	3/01/2021	9263	5253.000	Bahman

Lab equipment	biochem	0834/18	122	15/03/2021	15/11/2020	9102	6750.000	Averroes
Lab equipment	biochem	0834/18	122	15/03/2021	15/11/2020	9105	7821.000	Ashraf
Lab equipment	biochem	0834/18	122	15/03/2021	15/11/2020	9099	11900.000	Advanced tech
Lab equipment	biochem	0834/18	122	15/03/2021	15/11/2020	9103	3352.000	Alessa
Lab equipment	biochem	0834/18	122	15/03/2021	15/11/2020	9106	1252.000	tectron
Lab equipment	biochem	0834/18	122	15/03/2021	15/11/2021	9104	6315.000	Techno science
Lab equipment	microbiology	1138/19	137	11/03/2021	6/12/2020	9168	480.000	Averroes
Lab equipment	microbiology	1138/19	137	11/03/2021	6/12/2020	9167	9000.000	tectron
Lab equipment	microbiology	1139/19	175	15/03/2021	23/12/2020	9363	4475.000	Averroes
Lab equipment	microbiology	1139/19	175	15/03/2021	20/12/2020	9357	15000.000	isaac service
Lab equipment	microbiology	1139/19	175	15/03/2021	20/12/2020	9366	14000.000	ATC
Lab equipment	microbiology	1139/19	175	15/03/2021	23/12/2020	9358	16427.000	medical engineering
Lab equipment	microbiology	1139/19	175	24/02/2021	27/12/2020	9596	3521.550	ATP medical
Lab equipment	microbiology	1139/19	175	15/03/2021	27/12/2020	9365	1250.000	tectron



Lab equipment	physiology	1125/19	149	21/02/2021	22/11/2020	9129	9400.000	ATC
Lab equipment	physiology	1125/19	149	15/03/2021	23/11/2020	9130	7940.000	Med arabia
Lab equipment	pathology	2682/18	149	10/12/2020	6/12/2020	9061	40.000	Med arabia
Lab equipment	pathology	2682/18	149	25/02/2021	22/11/2020	9063	6900.000	Dmetco
Lab equipment	pathology	2682/18	149	18/02/2021	16/11/2020	9062	5750.000	Averroes
Lab equipment	physiology	1123/19	151	20/03/2021	31/01/2021	9331	10570.000	Averroes
Lab equipment	physiology	1123/19	151	20/03/2021	24/01/2021	9334	4360.000	ATC
Lab equipment	physiology	1123/19	151	20/03/2021	31/01/2021	9337	8838.000	Almajid
Lab equipment	physiology	1123/19	151	20/03/2021	4/02/2021	9333	12582.000	Alessa
Lab equipment	physiology	1123/19	151	20/03/2021	24/01/2021	9335	15800.000	tectron
Lab equipment	physiology	1123/19	151	20/03/2021	31/01/2021	9332	7875.000	technoscience
Lab equipment	pharmacology	2684/18	145	15/03/2021	8/11/2020	9053	9368.000	Med arabia
Lab equipment	pharmacology	2684/18	145	15/03/2021	15/11/2020	9049	6356.000	Almajid
Lab equipment	pharmacology	2684/18	145	9/02/2021	8/11/2020	9051	10440.000	Averroes

Lab equipment	med photography	2702/18	271	15/03/2021	24/01/2021	9640	3240.000	proact
Lab equipment	med photography	2702/18	271	25/02/2021	10/01/2021	9641	660.000	Ashraf
Lab equipment	anatomy	1099/19	226	15/03/2021	15/12/2020	9304	1625.000	Med arabia
Lab equipment	anatomy	0789/17	221	27/02/2020	17/11/2019	8283	9975.000	Alessa
Lab equipment	anatomy	0789/17	221	20/02/2020	10/11/2019	8282	13800.000	badr sultan
Lab equipment	anatomy	1099/19	226	15/03/2021	13/12/2020	9303	650.000	mousa bahman
Lab equipment	MDL	2484/18	121	21/01/2021	18/10/2020	8994	36300.000	badr sultan
							<b><u>339716.550</u></b>	<b><u>TOTAL</u></b>
chemicals	biochemistry	0468/17	189	10/01/2020	5/01/2020	8189	193.000	Almajid
chemicals	anatomy	1122/19	258	20/03/2021	31/01/2021	9605	363.500	atlas
chemicals	anatomy	0919/19	333	18/02/2021	14/02/2021	9660	312.000	Med arabia
chemicals	anatomy	1122/19	258	20/03/2021	25/01/2021	9580	9422.000	tectron
chemicals	anatomy	1122/19	258	20/03/2021	27/01/2021	9606	10125.500	medclone
chemicals	physiology	1238/19	246	20/03/2021	5/01/2021	9455	1262.000	Med arabia

chemicals	physiology	1238/19	246	20/03/2021	11/01/2021	9457	5605.500	medclone
chemicals	physiology	1238/19	246	20/03/2021	28/01/2021	9460	2608.000	tectron
chemicals	physiology	1238/19	246	20/03/2021	11/01/2021	9454	6484.000	Almajid
chemicals	medicine	1127/19	293	20/03/2021	24/01/2021	9602	7491.000	tectron
chemicals	pharmacology	0845/18	189	13/02/2020	6/11/2019	7962	1546.150	scientific supply
chemicals	animal resource center	1109/19	257	15/03/2021	31/12/2020	9483	3720.000	mousa bahman
chemicals	microbiology	1085/19	257	25/03/2021	9/02/2021	9700	29116.000	medclone
							<b><u>78248.650</u></b>	<b><u>TOTAL</u></b>
consumables	pharmacology	0624/17	243	11/03/2020	23/01/2020	8124	1595.000	Averroes
consumables	pathology	0622/17	243	30/01/2020	27/10/2019	8048	1396.000	Averroes
consumables	pathology	2478/18	266	20/03/2021	7/02/2021	9446	716.500	Averroes
consumables	pediatrics	1116/19	264	15/03/2021	20/12/2020	9339	6124.500	Med arabia
consumables	anatomy	1132/19	264	15/03/2021	20/12/2020	9330	22750.000	Med arabia
consumables	med education	2536/18	292	20/02/2020	8/12/2019	8371	556.900	scientific supply

consumables	nuclear med	2572/18	246	10/03/2020	21/01/2020	8166	919.600	scientific supply
consumables	microbiology	2618/17	246	20/02/2020	10/11/2019	8129	44.900	scientific supply
consumables	surgery	2575/18	245	10/03/2020	22/12/2019	8520	375.500	scientific supply
consumables	med photo	1136/19	266	15/02/2021	15/12/2021	9288	1540.150	computer center
							<b><u>36019.050</u></b>	<b><u>TOTAL</u></b>
manikins	clinical skills	0926/19	291	31/03/2021	23/02/2021	6910	35165.000	ATC
manikins	clinical skills	0926/19	291	31/03/2021	23/02/2021	9773	4390.000	ATC
manikins	clinical skills	0923/19	288	20/03/2021	17/01/2021	9565	62500.000	ATC
							<b><u>102055.000</u></b>	<b><u>TOTAL</u></b>
animal food	animal resource center	2466/18	211	18/02/2021	9/11/2020	2029	22760.000	Dmetco
animal food	animal resource center	1107/19	15	31/03/2021	4/02/2021	9679	8400.000	Dmetco
cages	animal resource center	1106/19	264	15/03/2021	20/12/2020	9283	12079.000	Alessa
							<b><u>43239.000</u></b>	<b><u>Total</u></b>
Gifts+prints	research support	2850/19	70	14/03/2021	16/02/2021	9764	850.000	alnazaer group

office equipment	physiology	2686/18	دليل الشراء	15/12/2020	14/11/2020	9046	655.000	almulla
							<b><u>1505.000</u></b>	<b><u>TOTAL</u></b>
							<b><u>635533.250</u></b>	<b><u>Final Total</u></b>

## **PERSONNEL DEPARTMENT**

### **Vision**

The Personnel Affairs Department seeks to organize, develop and reduce the documentary cycle on an ongoing basis and create an ideal and integrated work environment for the department's staff, which affects the quality of provided service to achieve job satisfaction for all employees of the Faculty of Medicine.

### **Tasks of the Personnel Affairs Department**

- Supervise and follow-up all work affairs related to the staff of the Faculty.
- Follow-up any amendments to the laws and regulations governing work and which are applicable by the Civil Service Commission.
- Organizing the leaves of the faculty's staff in accordance with the regulations and decisions issued in this regard, and following up sick leave cases and referring them to the Human Resources Department according to the established rules.
- Takes the necessary measures to fill the vacant administrative positions in the Faculty, taking into account the notification period set by the Human Resources Department before the date of the announcement in the daily newspapers. This shall take place in case there is no job applications at the Administration satisfying the required positions.
- Follow up the process of receiving and recording applications to fill vacant positions and nomination of the employees after conducting personal interviews in coordination with the various scientific departments and the Deanship of the Faculty.
- Preparing the bi-annual, final and the trial period evaluation reports for the staff of the Faculty, in coordination with the scientific departments, on the specified dates, and sending them to the Human Resources Department.
- Follow up everything related to the faculty's staff at all other concerned work centers of the university and implement procedures related to passports, in coordination with the Support Services Section in the Human Resources Department.
- Follow up the systems related to developing job performance of the Faculty's staff in coordination with both Administrative Development and Human Resource Development departments of the university.

## Staff Total Number

#	Organizational Unit	Number of Staff			
		General	Total Reward	Lump sum Salary	Total
1	Dean office	1	4	0	5
2	Office of the Vice Dean for Clinical Affairs, Consultation and Training	1	1	0	2
3	Medical Photography Unit	1	2	0	3
4	Medical Engineering Unit and Electronic Workshop	0	2	0	2
5	Consulting and Training office	2	0	0	2
6	Office of the Vice Dean for Research and Graduate Studies	1	4	0	5
7	Kuwait Animal Resources Center	0	6	3	9
8	Electron Microscope Unit	0	2	0	2
9	Office of the Vice Dean for Academic and Student Affairs	2	2	0	4
10	Educational and Medical Technologies Department	2	3	0	5
11	Quality Control and Academic Accreditation Unit	0	1	0	1
12	Medical Education Unit	0	4	0	4
13	Guidance and Counseling Office	4	0	0	4
14	Office of the Administrative Manager	1	1	0	2
15	Office of the Assistant Administrative Manager	0	1	2	3
16	Teaching Staff Service Department	1	2	0	3
17	Financial Affairs Department	3	2	0	5
18	Personnel Affairs Department	2	1	0	3
19	Post office	1	0	3	4

#	Organizational Unit	Number of Staff			
		General	Total Reward	Lump Sum Salary	Total
20	Services and Follow-up Section	2	0	2	4
21	Biochemistry Department	1	2	0	3
22	Pediatrics Department	1	3	0	4
23	Community Medicine Department	0	3	0	3
24	Microbiology Department	4	7	0	11
25	Physiology Department	1	8	1	10
26	Psychiatry Department	2	2	0	4
27	Obstetrics and Gynecology Department	0	7	0	7
28	Radiology Department	1	1	0	2
29	Pharmacology and Toxicology Department	2	9	1	12
30	Medicine Department	1	5	1	7
31	Pathology Department	1	4	0	5
32	Anatomy Department	4	8	3	15
33	Surgery Department	0	4	1	5
34	Nuclear Medicine Department	2	3	0	5
	Total	44	104	17	165

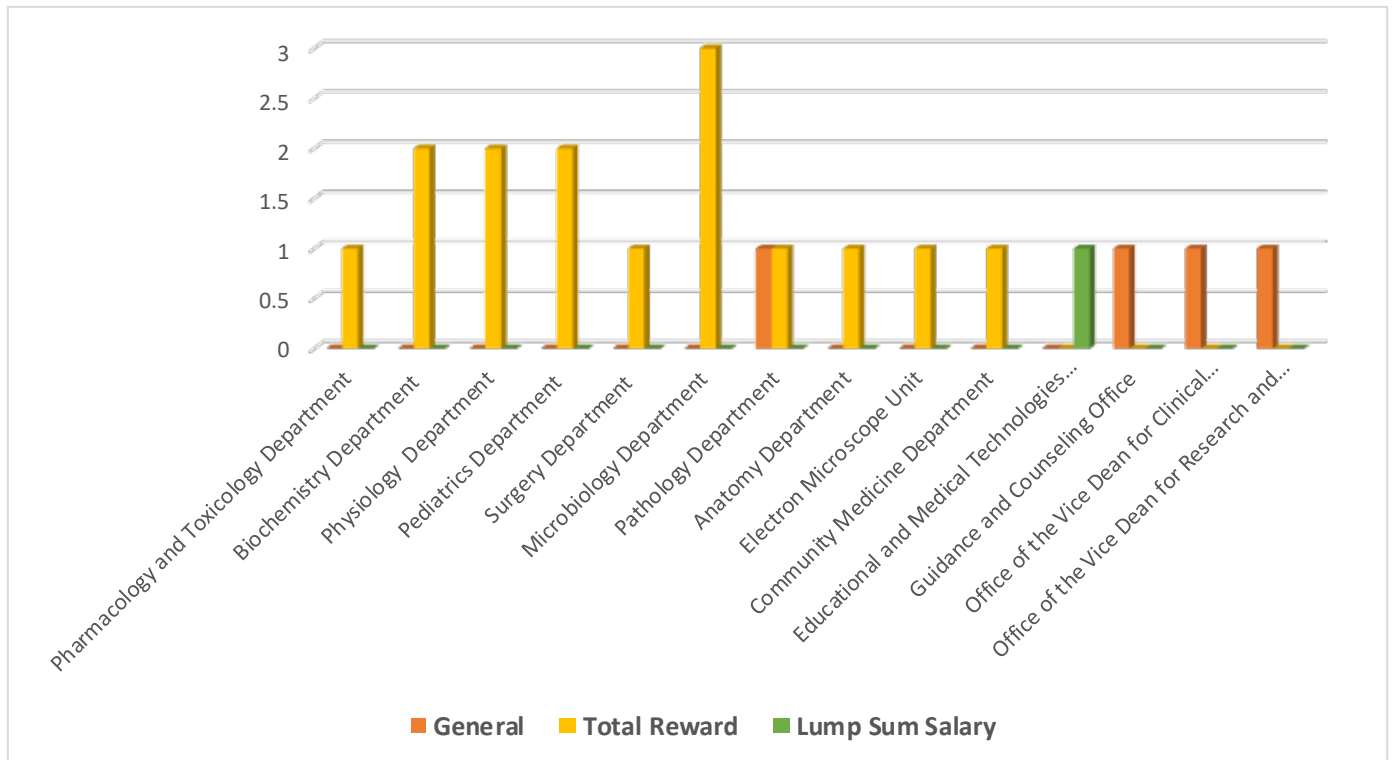


### Staff Numbers according to Job Category

#	Job Category	Number of Staff			
		General	Total Reward	Lump Sum Salary	Total
1	Engineering Jobs	3	7	1	11
2	Social Services, Educational and Sports	4	59	2	65
3	Information Systems and Technology	1	4	0	5
4	Scientific	11	12	0	23
5	Arts, Media and Public Relations	4	2	0	6
6	Finance, Economic and Business	2	2	0	4
7	Law, Politics and Islamic Affairs	0	1	0	1
8	Administrative Support	11	16	1	28
9	Services	1	1	13	14
	Total	37	104	17	158

## Number of Retired/Resigned Staff

The number of terminated Staff (resignation - retirement) at the Faculty of Medicine is (20) employees, starting from 1/4/2020 until 31-3-2021, as shown below:



## Number of Terminated Staff according to Resolution 11/2017

The number of terminated staff at the Faculty of Medicine in accordance with Civil Service Commission Resolution No. 11/2017 regarding the rules and procedures for Kuwaitization of government jobs is (22) employees as shown below:

#	Job Category	Number of terminated staff according to Resolution 1/2017
1	Engineering	4
3	Information Systems and Technology	2
4	Sciences	6
5	Arts, Media and Public Relations	1
6	Finance, Economic and Business	1
8	Administrative Support	8
	Total	22

### Future Plan

Personnel department seeks to develop and organize the work mechanism in addition to automation of the administrative procedures according to a time plan to cope with the executive plan for the faculty in order to enhance the levels of provided services

#### 1. Promoting and organizing work environment at Personnel Affairs Department

Promoting and organizing the work environment through the application to build up storage units to keep the files and official letters, in addition to satisfying the needs of the staff by providing new desk equipment and desks.

#### 2. Preparing a survey to measure the level of job satisfaction for the Staff of the Faculty of Medicine.

A survey is made to measure the level of job satisfaction for the staff of the Faculty of Medicine using KU Staff e-mails for the term of three months.

##### - Objectives of conducting a survey to measure the level of job satisfaction:

- Develop and enhance the level of services provided for the Faculty staff and investigate the problems and difficulties facing the staff in order to find the best solutions.

- Reduce the number of resigned employees by investigating the reasons for resignation.
- Review the proposals and needs of the staff the satisfy it.

### **3. Keep the Personal Files of the Staff using the E-Archive System**

To ensure the safety and easy review for the data of the staff we sent a letter to the Information Systems Department No. 337 dated 02/05/2021 requesting to give our staff the privileges to use the E-Archive System, provided that all data of the staff will be e-archived within a year, at most, from the date of approval.

### **4. Request the Privileges to Review specific screens in the Human Resources System (Oracle):**

We sent letter No. 336 dated 02/05/2021 to the Human Resources Department requesting to give our staff the privileges to use specific screens in the Human Resources System (Oracle) as follow:

- Employment Screen.
- Personnel Screen

Also requested a report including the following data (KU ID No. – Name – Designation – Basic category – Sub-category – Organizational unit – Department – Nationality – Employment Category – Occupational level – Educational Certificate - Specialization – Employment Start Date - Employment End Date – Date of Birth – Age – Social Status – Direct Manger – Superior Manager – KU E-Mail)

### **5. Prepare the Budget for the Job Grades of the Staff**

Prepare the budget for the job grades of the staff using MS. Excel in order to facilitate the process of reviewing the number of staff, vacant positions as a result of service termination, positions to be announced as vacant and number of nominated candidates for vacant positions, if any.

### **6. Prepare a Format for Staff's Service Termination**

Prepare a format for staff's service termination in order to facilitate the coordination with the human Resources Department regarding the service termination.

### **7. Create an E-Mail Dedicated for the Staff of the Personnel Affairs Department**

Create an e-mail dedicated for the staff of the Personnel Affairs Department in order to facilitate communication with concerned parties and employees at the different organizational units of the faculty. Moreover, send daily mail to the concerned departments.

**LEGAL CONSULTATION OFFICE**

- Prepare the pleadings (defense notes) for any suit filed against the Faculty of Medicine – Kuwait University.
- Provide consultations and legal opinions required by the work center, including explanatory notes related to the regulations and bylaws applicable by Kuwait University.
- Prepare correspondences related to and question raised by the Members of the Parliament.
- Investigate and search any legal subject referred to the office, in particular; the administrative affairs and prepare the necessary administrative and legal letters and correspondences, in addition to following-up all matters related to the various departments of the University.
- Rapporteur of the Technical Committee for Administrative & Financial Affairs – Faculty of Medicine.
- Member of the Faculty’s Employment Committee.
- Member of the Dean’s Executive Committee.
- Member of the Fact-Finding Committee.
- Prepare correspondences for the administrative notes sent by the University’s Administration.
- Prepare the pleadings for any case sent by Ministry of Justice.
- Participate in conducting the administrative investigation with any employee of the faculty who is referred for investigation.
- Prepare the correspondence for the Operational Plan for Kuwait University 2018-2022.
- Prepare the correspondence for the Strategic Plan for Kuwait University 2018-2022.
- Prepare the correspondence for the Executive Plan for Kuwait University 2018-2022.
- Prepare the approved New Organizational Chart for the Faculty of Medicine 2021.
- Prepare the list of achievements for the Faculty of Medicine for the academic year 2019/2020/2021.
- Conduct all the assigned legal tasks, administrative researches and any other assigned works.

# **ANATOMY**

## INTRODUCTION

The subject of human anatomy in its entirety is paramount to the medical curriculum. It is all the more important to have a well-organized enriched facility in the Anatomy Department to train medical and dental graduates so as to make them skilled and efficient doctors. During the current COVID-19 pandemic situation, classes are being held online. This report encompasses a summary of departmental activities in the academic year 2020-21.

The Department of Anatomy is involved in teaching gross anatomy, embryology, histology, neuroanatomy and cell biology to undergraduate and graduate students. The department also conducts several multi-faceted high-demand elective courses in a wide range of subject areas to both undergraduate and graduate students. The departmental faculty members lead the way by actively participating in all teaching activities such as lectures, laboratory training, problem-based learning, seminars, tutorials and elective courses to medical and dental students and graduate students. The departmental members, both academic and non-academic, extend their service to the Faculty of Medicine and other faculties whenever and wherever needed to conduct the examinations, clinical skills lab training and assessment, committees, and organization of several college-level programs such as the Poster Conference, and so on and so forth. The department also supported the teaching activities of the Faculties of Allied Health Sciences, Pharmacy and Dentistry by making the dissection room facilities available. The members of the Department are also involved in scientific research, both within the department and in collaboration with other departments at the Health Sciences Center. While doing so the Faculty members and technical staff provide both technical and intellectual support to graduate students and faculty members of other departments, which facilitate the successful completion of many research projects. The progress made by the departmental faculty members in research during the current academic year has been exemplary. In addition to their research, some faculty members also supervised undergraduate research projects. The department also won four awards, in that, two awards in the Research Sector Poster Conference. The members of the Department actively participated in the 25<sup>th</sup> HSC poster conference and presented eleven posters. At the moment, the department has several funded research projects, including two priority research grants, in which the Faculty members are participating either as principal investigators or co-investigators. The successful completion of research projects coupled with meaningful publishable results depends upon the inestimable service rendered by the technical staff and research assistants. The department admires their unstinted support, smart and ethical work and, places on record their contributions to the progress of the department.

Currently, the teaching assignments are met by the seven faculty members and seven support staff. The support staff is the backbone of laboratory teaching, and they are involved in the preparation of gross anatomy and histology laboratory sessions; they actively participate in teaching and play key roles in conducting both written and objective structured practical examinations. The Faculty members are involved, besides being in teaching and research, in administration such as in coordinating the courses, participating in several committees at departmental or faculty levels as either members or coordinators. The faculty members conduct research in subject areas of neuroscience, diabetes, toxicological mechanisms, molecular biology, cell signaling, cell biology and other priority research areas. They use cutting edge research techniques such as cell and tissue culture, behavioral techniques, quantitative polymerase chain reactions, microarray, blotting techniques, immunohistochemistry /immunofluorescence, histopathological techniques, ELISA, and gene



sequencing. The faculty members frequently publish research findings in Q1 journals indicating the novelty of the research done in the department.

### **Departmental Objectives**

Our motto is to provide an excellent learning environment to students and to provide high-quality training. The specific departmental objectives are to:

- Teach and train undergraduate and graduate students in all branches of human anatomy
- Provide excellent skill-oriented practical training in gross anatomy, neuroanatomy, histology and developmental biology to all students, compulsory or elective courses, related to their programs.
- Actively involve in faculty-controlled training programs such as problem-based learning.
- Extend intellectual and infrastructure support to students, residents, and doctors and other health professionals who are interested in learning the science of anatomy.
- Train undergraduate and graduate students in state of the art research techniques and to facilitate them to do high-quality research in medical sciences.
- Collaborate and promote interdepartmental teaching and research activities to undergraduate and graduate students.
- Provide excellent leadership wherever and whenever required in teaching, research and administration.

### **Obstacles in meeting objectives**

At the end of this academic year one teaching staff member of the Department retired and another two retired in the year before, thus further aggravating the already existing shortage of teachers. This problem also extends to the technicians. To conduct proper teaching and research, the department needs highly trained competitive technicians. At present, we are facing acute shortage of technicians. Also, the department is facing several problems in procuring chemicals and consumables for teaching and research purposes. The department is hopeful of easing these difficulties in coming years lest we fail in our academic achievements.

A vibrant graduate program is the life-line of any department. The department currently has 8 MSc students at various years of training. These students are conducting experiments in various biomedical research areas. The Department is confident that they would complete their theses and graduate soon. We are looking forward to receiving a group of new M.Sc., students in the next semester as soon as the ongoing review by an external reviewer is over. The Department is also eagerly waiting for the Ph.D. program in Anatomy to be approved by the College of Graduate Studies and the University Authorities. The Department had already submitted a thoroughly researched proposal to the College of Graduate Studies after an extensive expert review from two renowned external reviewers. Given this, the Department is optimistic that the program would be approved soon and may be able to admit the first group of students. This program would set the Department in an all new track to progress in research output and student training.

## **Current Developments**

At present, we received the permission to use the renovated dissection room. The renovated dissection room is one of the state-of-the-art facilities in the region. This facility would substantially contribute to the quality of teaching. In this academic year, teaching is on line and has been re-organized in such a way that one faculty member each was made in-charge of each academic year, from year 2 to 4. The laboratory handouts were all re-organised to suit the on line teaching. More emphasis is being given to discipline and self-learning so that the students make full use of the time to study when they are in the dissection room. The Faculty members also participate in teaching Phase III courses, especially in medical school day sessions. As regards to research, two new priority research grant application has been submitted to the Kuwait University Research Sector, which is under review. The department has several ongoing research grants, which are listed below. The seminars will be presented by the MSc students.

## **MANPOWER**

### **MEMBERS OF THE DEPARTMENT**

#### **Faculty members**

##### **Chairman & Chairperson**

1. Prof. Narayana Kilarkaje., M.Sc., Ph.D., FAGE, FRSB – up to November 8, 2020
2. Dr. Heba Al-Hussaini, M.B., Bch, BaO (NUI), LRCPI & SI., MSc., Ph.D. – From November , 2020

##### **Professors**

1. Prof. Waleed M. Renno, B.Sc., Ph.D. [Gross Anatomy, Neuroanatomy, Embryology]
2. Prof. Narayana Kilarkaje., M.Sc., Ph.D., FAGE, FRSB [Gross Anatomy, Histology, Cell Biology, Embryology, Neuroanatomy, Toxicology]

##### **Associate Professors**

1. Dr. Muddanna S. Rao, M.Sc., Ph.D., FAGE [Gross Anatomy, Neuroscience, Histology, Cell Biology, Embryology]
2. Dr. Sampath Madhyastha, M.Sc., Ph.D., FAGE [Neuroscience, Gross Anatomy, Embryology, and Teratology,]
3. Dr. Alyaa M. A. Mousa, M.Sc., MED. Ph.D. [Neuroscience, Histology, Cell Biology, Embryology, Immunology]
4. Dr. Heba Al-Hussaini, M.B., Bch, BaO (NUI), LRCPI & SI., MSc., Ph.D. [Gross Anatomy, Neuroanatomy, Retinal Biology]

##### **Assistant Professors**

1. Dr. Mohammed Al-Onaizi, B.Sc., M.Sc., Ph.D. [Neuroanatomy, Neuroscience, Human Anatomy, Cell Biology]

##### **Teaching Assistant**

1. Ms. Iman Masoor Faid, M.Sc

##### **Clinical Instructor**

1. Dr. Hana Loutfy Sadek, M.B., B.Ch., M.Sc. Ph.D.[Anatomy & Embryology]

## **Visiting professors - Nil**

## **External examiners - Nil**

## **M.Sc. Students**

### **(2017 intake)**

1. Mr. Ahmed Fareed Al-Kandari
2. Ms. Saud Mohammed Saeed

### **(2018 intake)**

1. Mr. Abdullah AlSabagh
2. Ms. Sara Jeri Jerwan

### **(2019 intake)**

1. Ms. Monira Al-Mutawa
2. Muneera Al-Dhaen
3. Siham Al-Hajri
4. Fatemah J Al-Omiri

## **SUPPORT STAFF**

### **Research Technician**

1. Ms. Krishna Girija Santhosh, B.Tech

### **Scientific Assistants**

1. Dr. Anwar. R. Qureshi, MBBS
2. Dr. Beena Mary Luke, MBBS., DMRD., FAGE
3. Dr. Hala F. Waheeda, M.B., B. Ch, Dip. Med.
4. Dr. Nahed A.H. Al-Sobky, M.B., B.Ch.
5. Dr. Omnia Al-Beltagy, M.B.,B.Ch.

### **Chief Technicians**

1. Ms. Amal Wagdi, B.Sc.

### **Senior Technicians**

1. Dr. Josely George, Ph.D.
2. Ms. Sinu Joe, B. Pharm
3. Ms. Susan Varghese, B. Pharm.

### **Technicians**

1. Ms. Smitha Sivanandan, M.Sc.

### **Biologist Specialist**

1. Ms. Ameera S. Al-Fadhli, B.Sc.
2. Mr. Mohammed El- Badary

### **Biological Researchers**

1. Ms. Amna Abdullah Najem, B.Sc.

**Lab. Attendants**

1. Mr. Khalid Mohammed Ahmed
2. Mr. William Boutrous
3. Mr. Zubayer Hasan Sumon

**Secretaries**

1. Ms. Keren Susan Nesty
2. Ms. Nouf M. Ahmed

**STAFFING CHANGES****New staff appointed:**

1. **Ms. Krishna Girija Santhosh**, joined as a Research Technician in September, 2020
2. **Mr. Zubayer Hasan Sumon** joined as a Lab Attendant in September, 2020

**Promotions - Nil****Staff who left the Department:**

1. **Mr. Mohammed Jaseem** left from the Department on August, 2020
2. **Dr. Ebtesam Al-Basset** left from the Department on January, 2021
3. **Dr. Saju Simon Jacob** left from the Department on January, 2021
4. **Ms. Preethi Tobin George** left from the Department on May, 2021

**Staffs on Leave: Nil****Academic staff on sabbatical leave: Nil****TEACHING IN THE DEPARTMENT PROGRAM****I. FACULTY OF MEDICINE**

a) **Undergraduate teaching** - Medical & Dental Students:

**Semester - I****Total number of Contact hours for faculty members during Semester I**

<b>Discipline</b>	<b>Lecture hours</b>	<b>Lab/Practical Hours</b>	<b>Seminar/ Tutorial hours</b>	<b>PBL Facilitation</b>	<b>Total hours</b>
Medical and Dental	127	448	33.5	166	774.5

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**Total Number of Contact hours: 774.5**

## Semester - II

### Total number of Contact hours for faculty members during Semester II

Discipline	Lecture hours	Lab/Practical Hours	Seminar/Tutorial hours	PBL Facilitation	Total hours
Medical and Dental	56	235	3	125	419

### Total Number of Contact hours: 419

Lectures	: 183	hours
Seminars/ Tutorials	: 36.5	hours
Lab/ Practical	: 683	hours
PBL Facilitation	: 291	hours
<b>Total contact hours</b>	<b>: 1193.5</b>	<b>hours</b>

### GRAND TOTAL: 1193.5 hours

### Objective Structured Practical Examinations (OSPE)

The organization, invigilation and marking of OSPEs for 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup>-year Medical and Dental students during Semesters I and II requires several days. In an academic year, the department conducts 6 OSPEs.

### Course Coordinators

Name	Module
Prof. Narayana Kilarkaje	Infection & Immunology Digestive system
Prof. Waleed Renno	Renal System Musculoskeletal System
Dr. Heba Al-Hussaini	Nervous system
Dr. Sampath Madhyastha	Endocrine System Reproduction & Breast
Dr. Muddanna Rao	Cardiovascular system
Dr. Alyaa Mousa	Respiratory system Blood Module

**Elective Courses for the PBL Curriculum:****Phase II**

1. Anatomy of Abdomen (Prof. Waleed Renno)
2. Experimental Hippocampal Stem Cell and Slice Culture (Dr. Muddanna Rao)
3. Introduction to Tissue Culture (Dr. Alyaa Mousa)
4. Transmission electron microscopy techniques (Prof. Narayana Kilarkaje)

**Phase III**

1. Regional Anatomy - Dissection of Upper Limb (Prof. Waleed Renno)
2. Immunohistochemistry and immunofluorescence techniques (Prof. Narayana Kilarkaje)
3. Dissection of Orbit and its contents (Dr. Heba Al-Hussaini)
4. Dissection of lower limb joints - Applied Anatomy (Dr. Muddanna S. Rao)
5. Integrative Neuroscience (Dr. Mohammed A. Al-Onaizi)
6. Embryological basis of congenital anomalies (Dr. Sampath Madhyastha)

**Medical Students' Day**

Department faculty and staff participates in Medical Students' Days. Faculty conducts six sessions per semester.

**b) Graduate Program Teaching (M.Sc.)****Semester – I & II****Total number of Contact hours for faculty members**

<b>Discipline</b>	<b>Lecture hours</b>	<b>Lab/Practical Hours</b>	<b>Seminar / Tutorial hours</b>	<b>Total hours</b>
M.Sc.	183	203	20	406

**Total Number of Contact hours: 373**

Lectures	:	183 hours
Tutorials / Seminars	:	20 hours
Practicals	:	203 hours
<b>Total contact hours</b>	<b>:</b>	<b>406 hours</b>

**GRAND TOTAL: 406 hours**

## Course Coordinators

Name	Course
Prof. Narayana Kilarkaje	Fine structure of cells, Introduction to Human Development from February 2021
Prof. Waleed Renno	Gross Anatomy I, Advances in Neuroscience Research, Neurobiology of pain
Dr. Muddanna Rao	Gross Anatomy II, Behavioral Neuroscience Methods
Dr. Madhyastha Sampath	Tissue & Organ Histology
Dr. Alyaa Mousa	Introduction to Human Development, Introduction to Tissue Culture, Neuroanatomy
Dr. Heba Al-Hussaini	Microscopic Techniques
Dr. Mohammed Al-Onaizi	Introduction to Cell Biology, Advance in Neuroscience Research

## Thesis Supervision

No:	Student Name	Supervisor	Co-Supervisor	Outcome
1.	Ahmed Fareed Mohammed Abdullah	Dr. Sampath Madyastha (Anatomy)	Dr. Muddanna Rao	Ongoing
2.	Suad Mohammed Saeed	Dr. Muddanna Rao (Anatomy)	Prof. Waleed Renno (Anatomy)	Ongoing
3.	Sara Salem	Dr. Alyaa Mousa (Anatomy)	Prof. Mariam Yousif (Pharmacology)	Ongoing
4.	Abdullah AlSabagh	Prof. Waleed Renno (Anatomy)	Dr. Muddanna Rao (Anatomy)	Ongoing
5.	Siham Alhajri	Prof. Waleed Renno (Anatomy)	Prof. Jassim Al-Hasan	Ongoing
6.	Muneera Naji	Dr. Alyaa Mousa (Anatomy)	Prof. Waleed Renno (Anatomy)	Going to start
7.	Abulaziz M F Shayea	Prof. William ( Pharmacy)	Dr. Khalid Orabi	Ongoing

8.	Sara Khamisi	Dr. Slava Adel (Physiology)	Prof. Narayana Kilarkaje (Anatomy)	Ongoing
9.	Abrar Al-Mutairi	Dr. Khalid Orabi ( Pharmacy)	Prof. Waleed Renno (Anatomy)	Ongoing

## II. OTHER FACULTIES

NIL

## RESEARCH AND PUBLICATIONS

### Research Grants

#### Principal Investigators

- Grant Number: MA01/17**  
**Title: *Attention deficit hyperactivity disorder: Can it be maneuvered by manipulating serotonin and adrenergic receptors?***  
Funding: Funded  
Status: Ongoing  
Principal Investigator: **Dr. Sampath Madhyastha**  
Co-investigators: Prof. Waleed Renno, Dr. Muddanna Rao
- Grant Number: RM01/2020**  
**Title: *The modulatory role of Tempol in diabetes induced neuro-retinal degeneration***  
Funding: Funded  
Status: Ongoing  
Principal Investigator: **Dr. Heba Al-Hussaini**  
Co-investigator: Prof. Narayana Kilarkaje
- Grant Number: RM01/19**  
**Title: *Elucidating mechanisms underlying the link between diabetes and Alzheimer's Disease***  
Status: Under review  
Principal Investigator: **Dr. Mohammed Al-Onaizi**  
Co-investigators: Prof. Narayana Kilarkaje, Dr Ayman ElAli (University of Laval)
- Grant Number: YM17/19**  
**Title: *Effect of N-Acetyl cysteine amide against Abeta induced neurotoxicity***  
Funding: Funded  
Status: Ongoing  
Principal Investigator: **Dr. Sampath M**  
Co-investigator: Dr. Muddanna S Rao
- Grant Number: YM02/20**  
**Title: *Mechanisms of lead induced decline in neurogenesis-An in-vitro and in-vivo study***



Funding: Funded  
Status: Ongoing  
Principal Investigator: **Dr. Muddanna S. Rao**  
Co-investigator: Prof. Waleed Renno

6. **Grant Number: YM02/20**  
**Title: *Effect of Ginkgo biloba extract on Neuropathic Pain in Streptozotocin induced diabetic rats: Involvement of Microglia activation***  
Status: Ongoing  
Principal Investigator: **Dr. Alyaa Mousa**  
Co-investigator: Prof. Mariam Yousif
7. **Grant Number: CN2013MM01**  
**Title: *Study of some Aspects of the Regenerative Actions of Fraction-B Derived from Preparations from the Skin of a Catfish (Arius Bilineatus, Val.) on STZ-induced Diabet in SD Rat.***  
Funding: Funded  
Status: Ongoing  
Principal Investigator: **Prof. Waleed Renno**
8. **Grant Number:**  
**Title: *A protective role of Hydrogen Sulphide (H<sub>2</sub>S) through activated microglia Induced-Anti-inflammatory cytokines in the spinal cord of Diabetic Rats***  
Status: Going to start  
Principal Investigator: **Dr. Alyaa Mousa**  
Co-investigator: Prof. Waleed Renno
9. **Grant Number: YM06/20**  
**Title: *Effects of Heat Therapy on Attenuating Muscle Atrophy on an STZ-Induced Diabetic Rat Model***  
Funding: Funded  
Status: Approved  
Principal Investigator: **Prof. Waleed Renno**
10. **Grant Number: MA01/19**  
**Title: *Evaluation of the catfish skin preparations (SPF Fraction-B) for the treatment of diabetic-induced reproductive dysfunctions in rats.***  
Funding: Funded  
Status: Pending  
Principal Investigator: **Prof. Waleed Renno**

**Co-Investigators:**

1. **Grant Number: MY02/18**  
**Title: *Cytokines and chemokines in the cerebrospinal fluid- their role in the signaling process during hypoxia in the rat***  
Funding: Funded  
Status: Ongoing  
Co-investigator: **Prof. Narayana Kilarkaje**

2. **Grant Number: MY02/16**  
**Title:** *The effect of prenatal exposure to dexamethasone on renal expression of glucose transporters in the rat fetus and offspring*  
Funding: Funded  
Status: Ongoing  
Co-investigator: **Prof. Narayana Kilarkaje**
3. **Grant Number:**  
**Title:** *The effect of angiotensin (1-7) on diabetes-induced podocyte structural changes: Possible role of miRNAs.*  
Funding: Funded  
Status: Ongoing  
Co-investigator: **Prof. Narayana Kilarkaje**
4. **Grant No. PR19-13MM-02**  
**Title:** Modulation of Experimental Myointimal Hyperplasia by Gum Arabic and Micronize Purified Flavonoid Fraction.  
Funding: Funded  
Status: Ongoing  
Principal Investigator: Dr. Ali Shuaib  
Co-investigator: **Dr. Muddanna S Rao**
5. **Grant No. PR19-13MC-01**  
**Title:** Study of excessive lead exposure among children in Kuwait biological and environmental assessment.  
Funding: Funded  
Status: Ongoing  
Principal Investigator: Prof. Janvier Gasana  
Co-investigator: **Dr. Muddanna S Rao**
6. **Grant No. YM10/20**  
**Title:** Studies on molecular pathophysiology of experimental colitis induced by DSS in rats: effect of natural flavonoid  
Funding: Funded  
Status: Ongoing  
Principal Investigator: Prof. Islam Khan  
Co-investigator: **Dr. Muddanna S Rao**
7. **Grant Number: YP05/18**  
**Title:** *“Studies on Neuroprotective Effects of Different Polarity Fractions from Allium cepa on an Experimental Model of Nerve Crush Injury.”*  
Funding: Funded  
Status: Ongoing  
Principal Investigator: Dr. Khalid Orabi  
Co-investigator: **Prof. Waleed Renno**
8. **Grant Number: KFAS -PR1713MA01**  
**Title:** *Characterization of the effect of chronic hydrogen sulfide treatment in the corpus cavernosum of type-1 diabetic rat model*  
Funding: Funded

Present status: Ongoing  
Principal Investigator: Dr. Bedoor Qabazard  
Co-investigator: **Dr. Alyaa Mousa**

### **Funded Projects from Kuwait University**

9. **Title:** *The association between microminerals and cognitive function in school children in Kuwait.*  
Funding: Funded  
Status: Completed in March 2021  
Principal Investigator: Dr. Abdur Rahman (College of Life Sciences)  
Co-investigator: **Dr. Muddanna Rao**

## **RESEARCH AND PUBLICATIONS**

### **Research papers**

1. Role of Microglia in Modulating Adult Neurogenesis in Health and Neurodegeneration. **Al-Onaizi M**, Al-Khalifah A, Qasem D, ElAli A. *Int J Mol Sci.* 2020 Sep 19;21(18):6875. doi: 10.3390/ijms21186875.
2. Reem Jallad, **Muddanna S. Rao**, Abdur Rahman (October, 2020). Prevalence of Lead Toxicity in Adolescents in Kuwait. Research Square, DOI:10.21203/rs.3.rs-97678/v1
3. Reem Jallad, **Muddanna S. Rao**, Abdur Rahman (May, 2021) Association of blood lead level with vitamin D binding protein, total and free 25-hydroxyvitamin D levels in middle school children. *British Journal of Nutrition - BJN-RA-21-0194*(Accepted for publication).
4. **Al-Hussaini H**, Kittaneh RS, **Kilarkaje N**. Effects of *trans*-resveratrol on type 1 diabetes-induced up-regulation of apoptosis and mitogen-activated protein kinase signaling in retinal pigment epithelium of Dark Agouti rats. *Eur J Pharm* (Available online).
5. **Kilarkaje N**, Al-Qaryyan M, Al-Bader M. *Trans*-resveratrol imparts disparate effects on transcription of DNA damage sensing/repair pathway genes in euglycemic and hyperglycemic rat testis. *Toxicol Appl Pharm* (Available online).
6. Abdulaziz M F Shayea, **Alyaa M.A. Mousa**, **Waleed M. Renno**, Mohammed Shaban Nadar, Bedoor Qabazard, Mariam H. M. Yousif. Chronic Hydrogen Sulfide Donor Alters Microglial and Astrocyte Activation in the Spinal Cord of Streptozotocin-induced Diabetic Rats. *Journal of Neuropathology and Experimental Neurology.* 2020 Dec 4;79(12):1320-1343. doi: 10.1093/jnen/nlaa127. Peer Reviewed and Indexed Q1.
7. Amina M. I. AlAwadi, Abdulaziz Isa AlJawder, **Alyaa Mousa**, Safa Taha, Moiz Bakhiet. A critical role for Immune System-Released Activating Agent (ISRAA) in the ontogenetic development of the brain. *PLOS ON.* May.2021. Peer Reviewed and Indexed Q1.

8. Bedoor Qabazard, Mariam Yousif, **Alyaa Mousa**, Oludotun Adebayo Phillips. GYY4137 attenuates functional impairment of corpus cavernosum and reduces fibrosis in rats with STZ-induced diabetes by inhibiting the TGF- $\beta$ 1/ Smad/CTGF pathway. *Biomedicine & Pharmacotherapy*.138 (2021) 111486. Peer Reviewed and Indexed Q1.
9. Ahmed F. Alkandari, **Alyaa Mousa**, Fatimah A. Alawadhi, Abrar Alawadhi, **Sampath Madhyastha**. Erythematous linear lesion on the course of superficial fibular nerve after the topical application of black henna: a case report. *Journal of Neuroscience in Rural Practice*. Submitted May 2021.
10. Jassim M. Al-Hassan, Aleksander Hinek, **Waleed M. Renno**, Yanting Wang, Yuan Fang Liu, Rui Guan, Xiao-Yen Wen, Michael L. Litvack, Andras Lindenmaier, Mohammad Afzal, Bincy Paul, Sosamma Oommen, Divya Nair, Jijin Kumar, Meraj A. Khan, Nades Palaniyar and Cecil Pace-Asciak, 1Department of BioPotential Mechanism of Dermal Wound Treatment With Preparations From the Skin Gel of Arabian Gulf Catfish: A Unique Furan Fatty Acid (F6) and Cholesta-3,5-Diene (S5) Recruit Neutrophils and Fibroblasts to Promote Wound Healing. *Front. Pharmacol.*, 18 June 2020 <https://doi.org/10.3389/fphar.2020.0089>
11. **Waleed M. Renno**, Mohammad Afzal, Bincy Paul, Divya Nair, Jijin Kumar, Jassim M. Al-Hassan. Catfish (*Arius bilineatus*, Val.) skin protein extraction ameliorates neurobehavioral and axonal and neuronal histopathological alterations in a sciatic nerve crush injury rat model. *Frontiers in Pharmacology*. *Frontiers in Pharmacology*, 14 April 2021 | <https://doi.org/10.3389/fphar.2021.632028>.

### Abstracts:

#### Papers / Manuscripts in preparations:

#### Published Abstracts

1. Abd-El-Basset EM, **Rao MS**, Najem A: dBcAMP Rescues hippocampal neurons and enhances neurogenesis in kainic acid injury by increasing BDNF secretion. (Abstract no.3, 25<sup>th</sup> Health Sciences Center Poster Conference ,16-18 March 2021)
2. Alfarhan NW, **Rao MS**: Dibutyryl cAMP Enhances cognitive functions, neurogenesis, BDNF, VEGF in diabetic Rats (Abstract no.4, 25<sup>th</sup> Health Sciences Center Poster Conference,16-18 March 2021).
3. Al-Sarraf A, Al-Duwailah M, Kazem F, Abdullah L, **Rao MS**, **Kilarkaje N**, **Al-Onaizi MA**: Spatial memory deficits and synaptic dysfunction in Type 2 Diabetes (Abstract no.6, 25<sup>th</sup> Health Sciences Center Poster Conference ,16-18 March 2021).
4. Kazem F, Al-Duwailah M, Al-Sarraf A, Abdullah L, **Rao MS**, **Al-Onaizi MA**: Determining the effects of Type 2 Diabetes on Learning, Memory, and Adult Hippocampal Neurogenesis: Implications for Alzheimer's Disease (Abstract no.7, 25<sup>th</sup> Health Sciences Center Poster Conference ,16-18 March 2021).

5. Al Ajimi RS, Miskin B, Smitha S, **Rao MS**: Heavy metal contents in herbal products sold in Kuwait (Abstract no. 186, 25<sup>th</sup> Health Sciences Center Poster Conference, 16-18 March 2021).
6. Amina AAAS AlSalmi, KANDARI MA Smitha S, **Rao MS**: Ferulic acid enhance neuronal differentiation in hippocampal stem cells derived neurospheres (Abstract no.187, 25<sup>th</sup> Health Sciences Center Poster Conference, 16-18 March 2021).
7. Ahmed F. Alkandari, Fatimah A. Alawadhi, Abrar Alawadhi, **Alyaa Mousa, Sampath Madhyastha**. Erythematous linear lesion on the course of superficial fibular nerve after the topical application of black henna: a case report, (25<sup>th</sup> Health Sciences Center Poster Conference, 16-18 March 2021).
8. Yassin K, Aref R, Nabulsi D, **Al-Hussaini H, Kilarkaje N**. Department. Effects of Resveratrol on diabetes-induced apoptosis in retinal pigment epithelium in Wistar rats. (25<sup>th</sup> Health Sciences Center Poster Conference, 16-18 March 2021).
9. Abrar M. Almutairi, **Waleed M. Renno**, Khaled Y. Orabi, Antioxidative and Neurobehavioral Recovery of Allium Cepa Different Polarity Fractions following Sciatic Nerve Crush Injury in Rat. (25<sup>th</sup> Health Sciences Center Poster Conference, 16-18 March 2021, Reference ID: 123.).
10. Ahmed F. Alkandari, Abrar A. Alawadhi, Fatima A. Alawadhi, and **Waleed M. Renno**; The Diagnosis of an Isolated Flexor Digitorum Profundus Tendon Injuries in Flexor Zone II: A Report of Five Cases and Review of Literature., (25<sup>th</sup> Health Sciences Center Poster Conference, 16-18 March 2021 Reference ID: 154.).
11. Alfarhan MW, Al-Hussaini H, Kilarkaje N. Role of peroxisome proliferator-activated receptor-gamma (PPAR- $\gamma$ ) in type 2 diabetes-induced testicular DNA damage and repair in leptin receptor-deficient obese mice. (25<sup>th</sup> Health Sciences Center Poster Conference, 16-18 March 2021).

### **Award:**

1. AlAjmi R, Miskin B, Smitha S, **Rao MS**. Heavy Metal Content in Herbal Products Sold in Kuwait (**Dr. Nael Al-Naqeeb Best undergraduate poster Award**, 25<sup>th</sup> Health Sciences Center Poster Conference 2021, 16-18 March 2021)
2. Amina A.A.A.S. AlSalmi, Maryem A.M.A. Kandari, Smitha S, **Rao MS**. Ferulic Acid Enhance Neuronal Differentiation in Hippocampal Stem Cells Derived Neurospheres (**Dr. Nael Al-Naqeeb Best undergraduate poster Award**, 25<sup>th</sup> Health Sciences Center Poster Conference 2021, 16-18 March 2021)
3. United State Patent No.: US 10,471,105, B1  
Method for treating infertility  
Date of Patent: Nov 12, 2019  
Inventors: Jassim M. Hassan M. Ali and **Waleed M Renno**
4. United State Patent No.: US 10,561,689, B1  
Method of Treating Nerve Damage  
Date of Patent: Nov 12, 2019

Inventors: Jassim M. Hassan M. Ali and **Waleed M Renno**

## **CONTRIBUTIONS**

a) **Participation in Ministry/government activities:**

b) **Offices held in professional organizations**

*Dr. Alyaa Mousa*

- Representative of International Centre for Diarrheal Disease Research, Bangladesh (icddr-b) in Kuwait and the Gulf Region, TIES Center, Kuwait

c) **Advisory editor services for professional journals**

*Prof. Narayana Kilarkaje*

### **Editorial Board member:**

- EC Gynecology 2016-
- Archives of Medicine & Health Sciences 2014-
- Borneo Journal of Medical Sciences 2013-
- Journal of Endocrinology and Thyroid Research (JETR) 2016-
- SM Journal of Clinical Andrology 2016-
- Global diabetes 2017-

### **As a peer reviewer of scientific papers for publications:**

- Andrologia
- Archives in Physiology and Biochemistry
- Biological Trace Element Research
- Biomedicine & Pharmacotherapy
- Biotechnology & Histochemistry
- Chemico-biological interactions
- Diabetologica
- Drug Design, Development and Therapy
- Epigenomics
- Environmental Toxicology
- Journal of Basic and Clinical Physiology
- Medical Principles and Practice
- Reproduction
- Reproductive Sciences
- Toxicology and Applied Pharmacology
- Toxicology Research

*Prof. Waleed Renno*

### **Editorial Positions And Peer-Review Services**

- British Journal of Nutrition
- Journal of Neurosciences in Rural Practice

- Amino Acids
- Clinical Nutrition
- Journal of Neurochemistry
- Neural Regeneration Research
- Medical Science Monitor
- Neurological Research

***Dr. Muddanna Rao***

**Reviewer for the following journals.**

- Review Editor, for Frontiers in Molecular Neuroscience
- BMC Complementary and Alternative Medicine
- Seizure: European Journal of Epilepsy
- International Journal of Medicine and Medical Sciences
- Journal of Traditional and Complementary Medicine
- Frontiers in Neuroscience

**d) Active participation in professional conferences**

***Prof. Narayana Kilarkaje, Prof. Waleed Renno, Dr. Muddanna Rao, Dr. Sampath Madhyastha, Dr. Alyaa Mousa, Dr. Heba Al-Hussaini and Dr. Mohammed Al-Onaizi***

- 25<sup>th</sup> Health Sciences Center Poster Conference, Kuwait University (March,16-18 2021).

**e) Service as external examiner outside Kuwait**

***Prof. Narayana Kilarkaje***

1. External examiner to Sultan Quaboos University, Oman

**f) Contribution to committees in the Faculty of Medicine**

***Prof. Narayana Kilarkaje***

1. Director of Kuwait Animal Resource Center
2. Chairman, Department of Anatomy – up to November 8, 2020
3. Acting chairman, Department of Anatomy
4. Member, Phase II Curriculum committee, Up to November 8, 2020
5. Member, HSC Animal Ethics Committee
6. Member of M.Sc., Biomedical Sciences
7. Member of Faculty Council, up to November 8, 2020
8. Member of Higher Scientific Committee
9. Member of Judging Committee for the Poster Conference, 2021
10. Chairman of Judging committee for basic sciences for the poster conference, 2021
11. Member of promotion review committees
12. Member of young and distinguished researcher award committee
13. Member of Faculty Promotion Committee
14. Member of Medical Research Committee
15. Professor representative to the Faculty council from March 2021

16. Coordinator of Departmental - Recruitment committee, Scholarship committee up to November 8, 2020
17. Member of Departmental - Research Committee, Recruitment committee, Graduate studies committee, Scholarship committee

***Prof. Waleed Renno***

1. Member of Dental Faculty Examination Committee for Phase II – January 20, 2010 – Present.
2. Member of the Kuwait Surgical Board Part I Examination committee Postgraduate Surgical Training Program, Kuwait Institute for Medical Specialization (KIMS), Applied Anatomy and Principles of Surgery Station.
3. Member of Promotion Review Committees for 6 Faculty candidates 2020-2021.
4. In charge of OSP Examination (Year 3) for Anatomy Department
5. Coordinator - Oral Science Summer Course (2014 – Present)
6. Member of Departmental - Recruitment committee, Graduate studies committee, Purchasing Committee, Scientific Committee

***Dr. Muddanna Rao***

1. Coordinator-Nervous System Module (2018 - To date)
2. Member, Subcommittee on Student policies (2018- To date) (Academic Accreditation subcommittee)
3. Member of Departmental - Scholarship committee, Research committee, Purchase committee, Dissection room committee

***Dr. Sampath Madhyastha***

1. Member, Examination review committee
2. Phase I and Phase II strategic and planning under Covid-19
3. In charge of OSP Examination (Year 4) for Anatomy Department
4. Member of Departmental - Purchasing committee, PhD program committee, Dissection room committee

***Dr. Alyaa Mousa***

1. Chairman of Graduate Program Committee, 2018-2020
2. Foundation Block-Examination Committee. 2009-To date
3. Teaching Coordinator Committee (Second Year)-2016-To date
4. Member, of Committee of Academic Affair, Kuwait University Faculty Association (KUFA), Kuwait (2017- To date)
5. Member of Departmental - Graduate Program Committee, 2006-2020
6. Member of Departmental - Purchasing committee, Scholarship committee, Appointment and Contract Renewal Committee, Research Committee
7. Staff-Student Consultative Committee, Nov. 2020-To date.
8. Coordinate with the coordinator of the pre-professional program at HSC.
9. Coordinate with the department of Anatomy / Pathology for OSPE organization (year 2-4).
10. Coordinate the PBL with module / department coordinators.
11. Follow up the exam schedules / timing with Medical Education

***Dr. Heba Al-Hussaini***

1. Acting Chairperson, Department of Anatomy (November 2020 onwards)
2. Member, Academic Accreditation committee (2018- To date)



3. Member of Departmental - PhD program committee, Scholarship committee, Appointment and contract Renewal Committee, Dissection room renovation committee

***Dr. Mohammed Al-Onazi***

1. Health and Safety Committee Member, 2020-2021
2. Year II Examination Committee Member, 2020-2021
3. Purchasing and Instrument Committee Member, 2020-2021
4. Member of Departmental - Dissection Room Committee, Purchasing Committee, Graduate Program Committee, Appointment Committee (2016-Present)

**g) Contributions to committees outside the Faculty**

***Prof. Narayana Kilarkaje***

- ❖ Member of American Association of Clinical Anatomists (AACA)
- ❖ Member of Anatomical Society
- ❖ Member of Society for Toxicology
- ❖ Member of American Association of Anatomy
- ❖ Member of European Society of Endocrinology
- ❖ Member of American Association for Advancement of Science
- ❖ Member of Fellow of Royal Society of Biology UK

***Prof. Waleed Renno***

- ❖ Member of American Association of Clinical Anatomists (AACA)
- ❖ Member of Society for Neuroscience

***Dr. Alyaa Mousa***

- ❖ 1994- To date, Member of the Society for Neuroscience (SFN).
- ❖ 2006-To date, Member of International Vaccine Institute Friend's Society (IFS).
- ❖ 2009- To date, Member of International Society for Stem Cell Research (ISSCR)
- ❖ Member, Kuwaiti Women philanthropic team, (2017 –to date)
- ❖ Member, Kuwait Women's Cultural and Social Society, (2011 –to date)
- ❖ Member, Alzheimer Committee of Kuwait Women's Cultural and Social Society, (2012 –to date)
- ❖ International consultant for ICDDR-b, Bangladesh (2014 –to date)

***Dr. Mohammed Al-Onazi***

- ❖ Alzheimer's Association (AAIC)
- ❖ Society for Neuroscience (SfN)
- ❖ Southern Ontario Neuroscience Association (SONA)

**Conferences Organized**

***Prof. Waleed Renno***

1. Applied Head and Neck Anatomy and Oral Histology - for KIMS – PDEP (Kuwaiti Board in Pediatric Dentistry Program) October 4, 2020

## **CONCLUSION**

The members of the Department Anatomy work hard and efficiently to achieve a set of goals in teaching and research. Several important Faculty level committees include the Faculty members of the Department. This reflects the administrative abilities of the members. The faculty members have been authors in 11 published papers. All faculty members attend the Health Science Poster Conference regularly. The faculty members put in extra effort to teach anatomy with the intention of making the learning of otherwise difficult science of anatomy, easier. This has been reflected in the excellent rating of anatomy teachers almost always by the students. The Department always supports the faculty members to try for new grants, excel in teaching and venture into collaborations with other departmental faculty members. The expertise of Anatomy Faculty members and technical staff has been widely applauded, which is also reflected in several collaborations extended into the Department by other departments. Our intention is to extend total support to the Faculty of Medicine in its endeavor to pursue greater heights in academic excellence and research.

## **Future**

The department is eagerly awaiting our new renovated dissection room so that we could be able use new interactive methods of teaching. The Department also looks forward to some changes in the examination method for medical and dental students. As regards to the research, we are looking forward to upgrading the available research facilities. We are looking forward to buying new instruments related to histological techniques, molecular biology and biochemistry. The department is interested in establishing facilities needed for RT-PCR assays at the earliest, which would benefit all researchers in the Department to pursue research.

# **BIOCHEMISTRY**

## INTRODUCTION

The Department of Biochemistry has a limited staff capacity. There are seven academic, five support academic and two technical support staff members. The focus of Department research focuses mainly on the Biochemical, Cellular and Molecular Aspects of Diabetes, Oxidative Stress, Free Radicals and Inflammation, Oncology and Cancer Treatments, Membrane Transport and Enzymes, Cell Signaling and Hypertension. In the current academic year, seven peer-reviewed research articles and 4 abstracts were published despite a heavy teaching and administrative load. Currently there are twelve ongoing research projects including three MSc and two PhD student research grants in the Department currently. At present five MSc students and two PhD students are enrolled in the Medical Biochemistry Graduate and Post Graduate Programs in the Department. For the next academic year (2021-2022), two students have been approved for admission into the MSc and none into the PhD programs.

Department staff members actively participate in teaching of several topics at different levels in the Undergraduate and Graduate Academic Programs. These are listed as follows:

### Undergraduate Courses:

1. Biology Course (Year-1, Phase-1)
2. Chemistry Course (Year-1, Phase-1)
3. Foundation Biochemistry (Year-2, Phase-2)
4. Biochemistry Electives (Year-3-4, Phase-2)
5. Biochemistry Topics in the Medical-School-Day (Year-6, Phase-3)

### Graduate and Post Graduate Programs:

1. M.Sc. Medical Biochemistry Graduate Program, Department of Biochemistry, Faculty of Medicine
2. Ph.D. Medical Biochemistry Post Graduate Program, Department of Biochemistry, Faculty of Medicine
3. M.Sc. Molecular Biology Graduate Program (University-based)
4. M.Sc. Part-time Graduate Program in Medical Sciences (Faculty-based)

### **(a) Objectives of the Departmental Academic Programs**

#### **Phase-1 Year-1 Chemistry and Biology**

The main objective of these courses is to prepare students to integrate basic science knowledge with medically relevant concepts in the higher levels of their study program. A total of thirty-six lectures, four workshops, five laboratories and one revision sessions are offered in the Chemistry course. In the Biology course, nine lectures, three tutorials and one laboratory session are delivered.

#### **Phase-2 Year-2 Foundation Blocks**

Several important Biochemistry and Molecular Biology topics are delivered to strengthen students' comprehension of basic concepts, mechanisms and skills in Biochemistry, Nutrition and Molecular and Cellular Biology and to enable them to integrate their knowledge in the System-based PBL curriculum to be offered in the year-3 and year-4 of their study program.

### **Phase-2 Years-3-4**

Biochemistry topics are delivered to support students' learning of basic mechanisms underlying the pathogenesis of different themes which are delivered in small groups.

### **Elective Courses**

Several specialized biochemistry elective courses are available to offer in the Phase-2 Year-4 of the study program. These courses are designed to complement the knowledge deficit as experienced by individual students. In the current academic year, one elective course was selected by and delivered to the students.

### **M. Sc. Medical Biochemistry Graduate Program**

The Program is designed to impart a sound knowledge and hands-on experience in skills including experimental designing and execution, data collection, analysis, presentation, and scientific writing.

### **Ph.D. Medical Biochemistry Post Graduate Program**

The Program is aimed to provide students with a sound knowledge, hands-on skills, and research methodology in Biochemistry, Cellular and Molecular Biology, and Genetics.

### **(b) Obstacles in Meeting Objectives**

#### **Undergraduate Teaching**

Due to covid-19 pandemic, in-person lectures and laboratory sessions could not be conducted and were offered online via MS Teams. Students seem to be uninterested in online mode of learning which has been reflected in their poor grade performance. This has been difficult time for students and staff. In the future when Covid-19 is subsided, it is anticipated that teaching and examination processes shall resume in-person format.

#### **Graduate Teaching**

The Graduate Program and Post-Doctoral Program significantly enhance research progress and productivity of an institution and therefore a suitable encouragement as an incentive should be provided to the teachers. However, for teaching a cohort of less than three graduate students, the teaching faculty does not get any credit which diminishes their enthusiasm. Another problem is lack of funding for the technique-based courses by the College of Graduate Studies (CGS). For student research grants a research fund is prepared in an itemized manner to support achievement of the proposed objectives. However, strangely the Research sector cuts the budget without any justification. Problem of scarcity and procuring of experimental animals and their maintenance are also a serious challenge in conducting research and progress. Furthermore, processing of research/student grants by the Research sector and procuring research money take a long time and delays outcomes of the research. Minimizing the processing time of the grant applications, petty cash application and petty cash settlement shall expedite the availability and delivery of funds.

#### **Shortage of Manpower and Recruitment**

This year we lost three support staff and one academic staff without being any replacement. This high attrition rate has created a critical shortage of workforce in the Department. We tried to appoint new staff but could not recruit anyone therefore currently there are only seven academic members left in the Department. To plan and manage necessary material supply for running the department there is no chief technician. Restrictions in hiring of only Kuwaiti nationals for some positions remain unsuccessful as no one seems to be interested in joining

such low paid positions. This shortage of the academic and support staff together with a heavy administrative load is impacting Department's progress and productivity in teaching and research.

### **Research**

Research is being negatively impacted due to serious restrictions in the availability and maintenance of experimental animals and making it compulsory to publish certain number of articles in Q1 journals for moderate and big budget grants. Therefore, Research sector should take necessary steps to make availability of funds in-time for the purchase of research items such as consumables/chemical supplies, and maintenance of necessary instruments.

### **(c) Current Developments**

#### **Undergraduate Teaching**

##### **Remedial Sessions**

Department is keen in supporting students' learning of various difficult concepts in Biochemistry by offering remedial sessions which must be selected by the needy students. The Teaching Assistants can deliver such topics only on students' demand under the guidance of an academic staff.

##### **Medical School Day Teaching**

Biochemistry topics are offered in an integrated manner to the Year-6 students in Phase-3 as part of Medical School Day. However, because of Covid-19 pandemic no Medical School Day activity was conducted in this academic year.

##### **Students Training**

Training in several cutting-edge-technologies such as Polymerase Chain Reaction, DNA sequencing, Chromosomal analysis by Fluorescence in-situ hybridization and LC/GC Mass Spectroscopy are offered as compulsory and elective courses.

##### **Other Graduate Programs**

Department also offers several Biochemistry, Molecular and Cellular Biology courses in other graduate programs such as Part-time MSc Program for Medical students and Molecular Biology Graduate Program in addition to the Medical Biochemistry graduate program.

##### **PhD Program in Medical Biochemistry**

Currently two PhD students are conducting their thesis work. However, due to lack of academic staff, future admission into the PhD program is temporarily on hold.

### **(d) Program Achievements**

(List initiatives undertaken and outcomes achieved in the following area):

#### **Student Engagement and Success**

MSc Students normally attends faculty seminars regularly. They also are encouraged to participate in poster presentation in the local and international scientific meetings to foster their scientific writing and communication skills.

## **Curriculum Enhancement and Development**

(Overall summary of teaching effectiveness of all teaching/training sessions undertaken, using the students'/tutors' feedbacks.)

**Undergraduate Curriculum** is controlled centrally by individual Coordination Committees for Year-1-4 which are responsible for curriculum modification and enhancement in the Faculty of Medicine. In these Committees there is representation of the Biochemistry Department. Based on students' feedback from a continuous and routine evaluation of the curriculum and instructor the committees to revise and eliminate redundancies including repetition and extensive overlap among different disciplines. Changes are incorporated by the main coordination committee upon recommendations of the Department Curriculum Committee (ad hoc).

**The Graduate Programs** in the Kuwait University are evaluated routinely every 5 years by an external expert. The Medical Biochemistry Graduate Program has undergone review process twice since its initiation in 2002. The changes suggested by the external reviewers were incorporated and implemented. The instructors are also evaluated routinely by students, and their feedback is taken into consideration to modify the teaching modalities by individual staff members. In addition, there is regular feedback from the CGS as well to incorporate changes. As a result, recently the following two courses were inducted as compulsory courses:

1. Scientific Writing and Communication Skills (2000-501, 3 credits)
2. Ethics and Professionalism (2000-503, 2 credits)

Two courses (Research Seminar I (0540-568) and Research Seminar II, (0540-569) have been replaced by the above two new courses as compulsory courses. As a result of this change, the students are required to complete a total of 31 credit-hr course work including 22 credits course work, and 9 credits thesis. Therefore, the students are now exempted to subscribe to any Elective course for their graduation.

**PhD Program** in Medical Biochemistry has been initiated with two students who are conducting their thesis work under the supervision of Prof I. Khan (Ms Asmaa Al-Failakawi) and Prof L. Benov (Ms Alia Al-Harban). Due lack of sufficient academic staff, the program is on hold temporarily.

### **Changes/Review to the Curriculum Undertaken**

(Review of various teaching/training modalities, clinical rotations, MSD activities, assessments, clinical and communication skill/procedural skill activities.) Curriculum review is an ongoing process which is conducted based on the student review/feedback. For example, the students do not like learning topics therefore, several learning topics have been changed to lecture or seminar.

### **Activities Undertaken for the Accreditation Process in Preparing Self-Evaluation Document:**

(Collection and submission to VDA Office of the evidence for the review to the curriculum undertaken [training of clinical tutors, review of student logbook, review of rotation objectives, training workshops, minutes of inter- and/or intra-departmental moots, etc.]

Department has representative to the faculty accreditation subcommittee and has participated in the preparation of self-evaluation document. The academic staff are encouraged to attend the workshops and seminars on various aspects of curriculum and assessment which are organized by the Faculty of Medicine. Data pertaining to curriculum evaluation and teacher's evaluation are collected which are analyzed through the Vice-Dean Academic office. These documents are available in the VDA office and in the Department as well. Recently the Faculty has undergone Accreditation through online meetings conducted by the Turkish Tepdad group in which department also participated.

### **Challenges Towards Successfully Achieving Teaching/Training Activities:**

The Department is facing acute shortage of the academic and the support staff which is having a negative impact on the Department progress and productivity in the research and teaching.

## **MANPOWER**

### **Faculty Members**

#### **Full Professors**

1. Dr. Islam Khan, B.Sc., M.Sc., M.Phil., Ph.D. (Chairman)  
(Membrane Transport, Inflammation: Role in Biochemical and Molecular Pathophysiology of Human Inflammatory Bowel Diseases)
2. Dr. Ludmil T. Benov, B.Sc., Ph.D.  
(Free Radicals, Cell Defense Systems and Physical Biochemistry)
3. Dr. Moussa Alkhalaf, B.Sc., Ph.D.  
(Breast Cancer, Steroid Therapeutics and Molecular Biology)

#### **Associate Professors**

4. Dr. May Al-Maghrebi, B.Sc., M.Sc. Ph.D.  
(Molecular and Biochemical Characterization of Ischemia Reperfusion Injuries and Cancer)
5. Dr. Farook Thameem, B.Sc., M.Sc., Ph.D.  
(Genetics, Molecular Biology and Biochemistry of Diabetes Nephropathy)

#### **Assistant Professors**

6. Dr. Aishah Al-Jarallah, B.Sc., M.Sc., Ph.D.  
(Nutrition: Lipoprotein Metabolism, Hypertension, Cardiovascular Disorder)
7. Dr. Selma Alkafeef, B.Sc., M.Sc., Ph.D.  
(Molecular Mycology and Fungal Pathogenesis, Dimorphism and Epigenetic Switching, Functional Genomics and Proteomics)

#### **Academic support staff (Teaching Assistants + Scientific Assistants)**

1. Ms. Mona Mohammed, B.Sc., M.Sc. (Teaching Assistants)
2. Ms. Raeda Khanafer, B.Sc., M.Sc. (Teaching Assistants)
3. Dr. Osama Habib, B.Sc., M. Sc., Ph.D. (Teaching Assistants)
4. Dr. Elizabeth Jayanthi, B.Sc., M.Sc., Ph.D. (Scientific Assistants)
5. Ms. Fatima Sequeira, B.Sc., M.Sc. (Scientific Assistants)



## **Graduate Students**

### **M.Sc.**

1. Ms. Reham Abdullah Abdulrahman Al-Othman
2. Ms. Zahraa Abdulkareem Baidhoun
3. Ms. Athari A.S.S. AlEnazi

### **Ph.D.**

1. Ms. Alia Ali Al-Harban
2. Ms. Asma'a Tahar Ali Al-Failakawi

## **Scholarship Students for PhD Training**

1. Mr. Mohammad Al-Ansari (Durham University, UK)
2. Ms Maha Habeeb (Glasgow University, UK to join in October, 2022)

## **SUPPORT STAFF**

### **Chief Technician**

1. Dr. Elizabeth Jayanthi, B.Sc., M.Sc., Ph. D (Acting Chief technician)

### **Senior Chemistry Specialist**

1. Ms. Amna Al-Shamali, B. Sc., M.Sc.

### **Chemistry Specialist**

1. Mr. Godwin Budadasari, B.Sc., M.Sc.

### **Senior Secretary**

1. Ms. Mary Geetha Haris, B.A.

### **Staff Resigned**

1. Prof. Farida M. Al-Awadi, B.Sc., Ph.D.
2. Ms. Mona Al-Rustom, B.Sc. (Senior Technician)
3. Ms. Lilly Verghese, B.Sc., M.Sc. (Senior Technician)

### **Staff Transferred to another Department**

1. Ms. Anwar Bugmaz, B.A. (Translator)

### **Staff Terminated**

1. Ms. Smitha Mary Thomas, B. Pharm., M. Pharm. (Lab Analyst)

### **Staff on Study Leave**

Mr. Mohammad Al-Ansari on scholarship program at Durham University, UK

## TEACHING

### 1. FACULTY OF MEDICINE

#### (a) Undergraduate Teaching

Table 1. Coordination

Coordinators	Courses/Block	Year	Phase
1. Prof. L. Benov	1. Chemistry for Health Sciences	1	1
2. Prof. I. Khan	2. Foundation Block	2	2
3. Dr. A. Al-Jarallah	3. Foundation Biochemistry	2	2
4. Dr. F. Thameem	4. Infection and Immunology	2	2

Table 2. Phase-2 Elective Course Coordinators

Coordinator	Elective	Year
1. Dr. M. Al-Maghrebi	Basic Research Skills Course	4

Table 3. Representation in Phase-2 System Coordination

Representatives	System	Year
1. Prof. I. Khan	1. Digestive	4
2. Dr. M. Al-Maghrebi	2. Renal	4
	3. Reproduction & Breast	4
	4. Infection and Immunology	2
3. Dr. F. Thameem	5. Endocrinology	3
	6. Blood and Lymph	3
	7. Central Nervous System	4
4. Dr. A. Al-Jarallah	8. Foundation Biochemistry	2
	9. Cardiovascular System	3
5. Dr. S. Alkafeef	10. Musculoskeletal	3
	11. Respiratory	3

Table 4. PBL Facilitation

Facilitators	System	Year
1. Prof. I. Khan	1. Musculoskeletal system	3
2. Prof. L. Benov	2. Respiratory System	3
3. Dr. M. Al-Maghrebi	3. Reproduction & Breast	4
4. Dr. F. Thameem	4. Blood and Lymph	3
	5. Renal	4
5. Dr. A. Al-Jarallah	6. Endocrine	3
6. Dr. Selma Alkafeef	7. Infection and Immunology	2
	8. Musculoskeletal system	3
	9. Digestive System	4

Table 5. Phase-1 Year-1 Chemistry

Format	Contact hours
Lectures	38
Workshop	90 (5 workshops x 3 classes x 3 subgroups x 2 hrs)
Labs	135 (3h x 5 labs x 3 classes x 3 subgroups)
<b>Total</b>	<b>263</b>

Instructors: I. Khan; L. Benov; A. Al-Jarallah; S. Alkafeef; O. Habib; M. Abdulwahab; R. Khanafer; G. Dhaunsi (Pediatrics); L. Sharaf (FOP)

Table 6. Phase-1 Year-1 Biology

Format	Contact hours
Lectures	9
Tutorial	4
Labs	3
Total	16

Instructors: I. Khan; M. Al-Maghrebi; F. Thameem

Table 7. Foundation-1 Block

Format	Contact hours
Lectures	37
Seminars	24 (1h x 6 seminars x 4 groups)
Labs	18 (2h x 3 labs x 3 groups)
Learning topics	6
Total	85

Instructors: I. Khan; L. Benov; M. Alkhalaf; M. Al-Maghrebi; F. Thameem; A. Al-Jarallah; S. Alkafeef

Table 8. Infection and Immunology

Format	Contact hours
Lectures/ Seminars	0
PBL	17.5
Total	17.5

PBL: S. Alkafeef

Table 9. Blood & Lymph System

Format	Contact hours
Lectures	5
Learning topics	1
PBL	17.5 (3.5 hr x 5 weeks x 1 facilitator)
Total	23.5

Instructors: L. Benov; S. Alkafeef  
(PBL: F. Thameem)

Table 10. Cardiovascular System

Format	Contact hours
Lectures	2
Total	2

Instructors: A. Al-Jarallah; S. Alkafeef

Table 11. Respiratory System

Format	Contact hours
Lectures	4
Seminars	4 (1h x 1 seminar x 4 groups)
PBL	24.5 (3.5 hr x 7 weeks x 1 facilitator)
Total	32.5

Instructors: I. Khan; L. Benov; M. Al-Maghrebi; F. Thameem; S. Alkafeef  
(PBL: L. Benov)

Table 12. Endocrine System

Format	Contact hours
Lectures	7
Seminars	15 (1h x 3 seminars x 5 groups)
Learning topic	2
PBL	17.5 (3.5h x 5 weeks x 1 facilitator)
Total	41.5

Instructors: I. Khan; L. Benov; M. Al-Maghrebi; F. Thameem; A. Al-Jarallah;  
S. Alkafeef (PBL: A. Al-Jarallah)

Table 13. Musculoskeletal System

Format	Contact hours
Lectures	3
Seminars	8 (1h x 2 seminars x 4 groups)
PBL	35 (3.5h x 5 weeks x 2 facilitator)
Total	46

Instructors: I. Khan; L. Benov; M. Alkhalaf; M. Al-Maghrebi;  
F. Thameem; S. Alkafeef (PBL: I. Khan; S. Alkafeef)

Table 14. Central Nervous System

Format	Contact hours
Lectures	1
Learning topics	1
Total	2

Instructors: I. Khan; S. Alkafeef

Table 15. Renal, Reproduction and Breast

Format	Contact hours
Lectures	1
Seminar	4 (1h x 1 seminar x 4 groups)
Learning topics	2
PBL	35 (3.5h x 5 weeks x 2 facilitators)
Total	42

Instructors: I. Khan; A. Al-Jarallah; F. Thameem  
(PBL: M. Al-Maghrebi; F. Thameem)

Table 16. Digestive System

Format	Contact hours
Lectures	3
Seminars	8 (1h x 2 seminars x 4 groups)
Learning topics	1
PBL	24.5 (3.5h x 7 weeks x 1 facilitator)
Total	36.5

Instructors: I. Khan; L. Benov; Al-Maghrebi; F. Thameem;  
A. Al-Jarallah; S. Alkafeef (PBL: S. Alkafeef)

Table 17. Elective: Basic Research Skills Course

Format	Contact hours
Lectures	4
Practical	12
Total	16

Instructor: M. Al-Maghrebi

### (b) Graduate Teaching

#### Medical Biochemistry Graduate Program (M.Sc.)

Program Director: Dr. Farook Thameem

Table 1. Graduate Courses and Coordinators

Coordinators	Compulsory courses		
	Number	Title	Credits
1. I. Khan	500-501	1. Basic Molecular Biology	1
2. L. Benov	540-560	2. Biochemistry Techniques-I	3
3. F. Thameem	540-561	3. Biochemistry Techniques-II	3
4. . Alkhalaf	540-562	4. Molecular Biology & Biotechnology	2
5. M. Al-Maghrebi	540-563	5. Metabolic Homeostasis & Abnormalities	3
6. F. Thameem	540-564	6. Biochemistry of Diseases	3
	540-501	7. Biochemistry of Cell Organelles	2

Table 2. Basic Molecular Biology-1 (500-501)

Format	Contact hours
Lectures	11
Labs	2
Total	13

Instructors: I. Khan; M. Al-Maghrebi; F. Thameem; A.S. Mustafa; S. Ahmed

Table 6. Biochemistry of Cell Organelles (540-501)

Format	Contact hours
Lectures	37
Total	37

Instructors: M. Alkhalaf; F. Thameem

### (c) Medical Biochemistry PhD Graduate Program

Program Director: Dr. Farook Thameem

Table 1. Post Graduate Courses and Coordinators (PhD)

Coordinators	Compulsory courses		
	Number	Title	Credits
I. Khan	540-605	Current Advances in Membrane Biochemistry	2
I. Khan	540-610	Inflammation and Mediators	1
F. Thameem	540-611	Introduction to Advanced Topics in Molecular Biology	1
M. Al-Maghrebi	540-614	Research Communication	2
M. Alkhalaf	540-615	Advanced Techniques in Cytogenetics & Tissue Culture	1
L. Benov	540-606	Advanced Topics in Free Radicals Biochemistry	2
A.R. Ahmad	540-602	Advanced Medical Nutrition and Nutrigenomics	3
S. Alkafeef	540-603	Selected Topics in OMICS	1

## II. HEALTH SCIENCES CENTER AND KUWAIT UNIVERSITY

### (a) Molecular Biology Graduate Teaching

(University-Based M. Sc. in Molecular Biology)

Table 1. Advanced Molecular Biology-I (2050-511); Coordinator: Prof. M.S. Abaza

Format	Contact hours
Lectures	14
Total	14

Instructors: I. Khan

Table 2. Advanced Cell Biology (2050-507); Coordinator: Dr. Majed Alnaqeeb

Format	Contact hours
Lectures/Discussions	11
Practical	9
Total	20

Instructors: I Khan; A. Al-Jarallah

### Overall Teaching Load

Program	Contact hours
1. Undergraduate didactic + PBL	1248
2. Graduate didactic	84
3. Graduate Thesis*	860
4. PhD Thesis**	360

(Calculated for 5 MSc students\* and 2 PhD students\*\* based on 8 credits per student per Supervisor 40 study weeks)

**Grand total (excluding thesis supervision) – 1332 hours per year** (undergraduate classes are big having students from two faculties therefore the number of teaching hours are doubled)

### III. STUDENT THESIS ADVISORS

Table 1. M. Sc. Students, Thesis Supervisors and Thesis Titles

Student	Supervisor	Program	Title
1. R. Al-Othman	A. Al-Jarallah	Medical Biochemistry	The role of high density lipoprotein signaling in ischemia reperfusion injury in spontaneously hypertensive rats
2. Z. Baidoun	I. Khan	Medical Biochemistry	Effects of curcumin on er stress in experimental colitis: mechanism of action
3. A. AlEnazi	F. Thameem	Medical Biochemistry	Genetic variants in Renin-Angiotensin system (RAS) and their association analysis in Kuwaiti patients with coronary heart disease (CHD)
4. A. Alnajem	M. Al-Maghrebi	Biomedical Sciences	The role of the JAK/Nrf2/Keap1 pathway in the regulation of germ cell apoptosis.
5. D. Al-Marzouq	M. Al-Maghrebi	Molecular Biology	The role of TXNIP/NLRP3 inflammasome pathway in NADPH oxidase-induced ROS and germ cell apoptosis.

Table 2. PhD Students, Thesis Supervisors and Thesis Titles

Student	Supervisor	Program	Title
1. Asma Al-Failakawi	I Khan	Medical Biochemistry	Studies on molecular pathophysiology of experimental colitis: Effects of natural flavonoid, nobiletin
Alia Al-Harban	L Benov	Medical Biochemistry	Effect of photosensitizer molecular features on cellular uptake, distribution, mechanism of cell death and photoefficiency

### RESEARCH AND PUBLICATIONS

#### (a) Funded Projects

##### I. Khan

1. Effects of curcumin on er stress in experimental colitis: Mechanism of action. Research Sector, Kuwait University, Fund: KD 5000. Duration: 1.5 years. PI: **I Khan**.
2. Perivascular adipose tissue dysfunction in hypertension: effect of losartan, MR 01/16. Funding: Kuwait University, Fund: KD 4000; Duration: 2 years; PI: Mabayoje Oriowo, CoI: **I Khan**.
3. Studies on molecular pathophysiology of experimental colitis induced by DSS in rats: Effects of natural flavonoid, nobiletin. YM10/20, Funding: Kuwait University, Fund: KD 16000; Duration: 3 years; PI: **Khan I**, CoI: Al-Jarallah A, Rao M.

#### L. Benov

4. Effect of peripheral modifications on the antibacterial activity of synthetic iron-porphyrins (MB01/18). Funding: Kuwait University, Status: 01/04/2019-31/03/2022. PI: **L. Benov**; CoIs: E. Udo; A. Tovmasyan.
5. Effect of photosensitizer molecular features on cellular uptake, distribution, mechanism of cell death and photo efficiency (Ph.D. thesis project), Funding: Kuwait University. Status: Approved for funding, submitted 18/02/2020. PI: **L. Benov**, CoI: Ali Shuaib (Physiology).

#### M. Al-Maghrebi

6. The role of TXNIP/NLRP3 inflammasome pathway in NADPH oxidase-induced ROS and germ cell apoptosis. (YM 10/19). Funding Institute: College of Graduate Studies and Research Administration, Kuwait University; Funds: KD 5,000; Duration: 18 months (2019-2021); Status: Ongoing. PI: **M. Al-Maghrebi**, Contributor: Duaah AlMarzouq.
7. The role of JAK/Nrf2/keap1 pathway in the regulation of germ cell apoptosis (YM 06/19). Funding Institute: College of Graduate Studies and Research Administration, Kuwait University; Funds: KD 6,000; Duration: 18 months (2019-2021); Status: Ongoing. PI: **M. Al-Maghrebi**, Contributor: Abdullah AlNajem.

#### F. Thameem

8. Discovery of Functional Variants in Type 2 Diabetes Genes in Mexican Americans. The major goals of this study are to validate the existing information on rare variants influencing type 2 diabetes (T2DM) and to find any additional rare T2DM risk variants; to replicate selected rare association findings in other cohorts; and, to perform functional assessment of non-coding variants influencing T2DM risk aided by recall for deep phenotyping and functional studies. 5 U01 DK085524-10: PI: **F. Thameem**, Duration: 05/01/15 – 04/30/22. Funding Agency: NIDDK, National Institutes of Health (NIH), USA.

#### A. Al-Jarallah

9. Analysis of High-density lipoprotein metabolism and function in spontaneously hypertensive rats, Research Sector (MB03/16). Funding: Kuwait University. Ongoing. PI: **A. Al-Jarallah**, Co: F Babiker.
10. The Effect of high-density lipoproteins on ischemia reperfusion injury in spontaneously hypertensive rats (P116-113MM-05). Funding: Kuwait Foundation for Advancement of Science (KFAS). PI: **A. Al-Jarallah**, Co: F Babiker.
11. Mechanistic insights into the role of high-density lipoprotein signaling in ischemia reperfusion injury in spontaneously hypertensive rats (YM04/18). Funding: Research Sector (Graduate Student Project). PI: **A. Al-Jarallah**.

#### S. Alkafeef

12. The role of metabolism and metabolic state on phenotypic switching in the human fungal pathogen *Candida albicans* (Project no. ZM01/19). Funding: Kuwait University. PI: **S. Alkafeef**.

#### **(b) Publications**

(Authors in bold refer to the Departmental staff members)



### Peer-Reviewed Scientific Journals

1. Siddique I, Mustafa AS, **Khan I**, Altarrah M, Sulaiman R, Kadungothayil N, Shaheed F (2021). Detection of mutations in NOD2/Card15 gene in Arab patients with Crohn's disease. **Saud J Gastroenterol (accepted)**
2. Tovmasyan, A., Batinic-Haberle, I., Benov, L., Antibacterial activity of synthetic cationic iron porphyrins, 2020 *Antioxidants* 9(10), 972, pp. 1-14.
3. Hasan, B., Tovmasyan, A., Batinic-Haberle, I., Benov, L. Ascorbate-dependent and ascorbate-independent Mn porphyrin cytotoxicity: anticancer activity of Mn porphyrin-based SOD mimics through ascorbate-dependent and -independent routes, 2021, *Redox Report*, 26(1), pp. 85-93.
4. Ishita Gupta; Gheyath K. Nasrallah; Anju Sharma; Ayesha Jabeen; Maria K. Smatti; Hamda A. Al-Thawadi; Ali A. Sultan; Moussa Alkhalaf; Semir Vranić; Ala-Eddin Al Moustafa. Co-Prevalence of Human Papillomaviruses (HPV) and Epstein Barr virus (EBV) in Healthy Blood Donors from diverse Nationalities in Qatar. *Cancer Cell International*, 2020 Apr 3;20:107. doi: 10.1186/s12935-020-01190-2. eCollection 2020.
5. Kandanath B. M., Thomas B. T., Alkhalaf M. (2021): " Role of Acetonitrile (Dielectric constant 36) in eluting primers by gel filtration chromatography: A method for purification of Oligonucleotides. *International Journal for Modern Pharmaceutical Research*. 4(6): 84-87.
6. Goodrich J, Singer-Berk M, ... **Thameem F**, Tomlinson B,.. for AMP-T2D-GENES Consortia. Determinants of penetrance and variable expressivity in monogenic metabolic conditions across 77,184 exomes. *Nature Medicine*: Under Review.
7. **Alkafeef SS**, Lane S, Yu C, Zhou T, Solis NV, et al. (2020) Proteomic profiling of the monothiol glutaredoxin Grx3 reveals its global role in the regulation of iron dependent processes. *PLOS Genetics* 16(6): e1008881. <https://doi.org/10.1371/journal.pgen.1008881>

### Peer-Reviewed Abstracts

1. Abbas G, AlEbrahim F, Kankouni R, AlBelushi S, **Benov L**: Effect of the metal center on the photoefficiency of porphyrin-based photosensitizers, 25th Health Sciences Centre Poster Conference, 16-18 March 2021.
2. Al-Habeeb M, **Benov L**: Impact of Structural Symmetry and Metallation on Photosensitizer Photo-stability and Anticancer Activity, 25th Health Sciences Centre Poster Conference, 16-18 March 2021.
3. Gupta I, Jabeen A, Smatti MK, Al-Thawadi HA, Nasrallah GK, Sultan AA, **Alkhalaf M**, Vranic S, Al Moustafa AE: Co-Prevalence of Human Papillomaviruses (HPV) and Epstein Barr virus (EBV) in Healthy Blood Donors in Qatar. Qatar University Annual Research Forum and Exhibition 28/10/2020, Qatar University, Qatar.
4. Thomas B\*, Kandanath BM, **Alkhalaf M**: Determination of caffeine content in coffee using the Waters Analytical HPLC. 25<sup>th</sup> Health Sciences Center Poster Day, Kuwait University, March 16-18, 2021.

### CONTRIBUTION

#### (a) Participation in Ministry/Government Activities

None

#### (b) Offices Held in Professional Organizations

M. Alkhalaf

Executive Member, Middle East Association for Cancer Research.

### **(c) Advisory Editor Services for Professional Journals**

#### **Editorial Services**

I. Khan

1. Member, Editorial Board, World Journal of Gastroenterology

L. Benov

1. Editor, Medical Principles and Practice

M. Alkhalaf

1. Member, Editorial Board, Archives of Medical Research
2. Member, Editorial Board, Clinical Cancer Investigation Journal
3. Member, International reviewers' panel, Journal of Molecular and Genetic Medicine
4. Member, International Reviewers Board, Journal of Pediatric Neurology
5. Member, Editorial Board, Molecular and Cellular Oncology

M. Al-Maghrebi

1. Member, Editorial Board, International Journal of Biochemistry and Molecular Biology Research
2. Member, Editorial Board, Journal of Genital Systems and Disorders
3. Member, Editorial Board, SL-Urology

F. Thameem

1. Member, PLOS ONE
2. Member, Journal of Diabetes Research
3. Member, Diabetes Research and Treatments
4. Member, Advances in Diabetes and Metabolism

#### **Refereeing Services**

I. Khan

1. Biochemical Pharmacology
2. Chemical Engineering and Processing: Process Intensification
3. Current Protein and Peptide Science
4. Dig Dis Sci
5. Gastroenterology
6. Gut
7. International Journal of Biological Macromolecules
8. Kuwait Medical Journal
9. KU Research Administration
10. Life Sciences
11. Medical Principles and Practice
12. Molecular & Cellular Biochemistry
13. PLoS One
14. Pakistan Journal of Pharmaceutical Sciences
15. Process Biochemistry
16. Scand J Gastroenterology
17. Saudi J Medicine

18. The European Journal of Pharmacology
19. World J Gastroenterology
20. Research Sector, Kuwait University

#### L. Benov

1. Analytical Biochemistry
2. Analytical Methods
3. Applied Microbiology and Biotechnology
4. Archives of Biochemistry and Biophysics
5. BBA – General Subjects
6. Biochimica Biophysica Acta
7. Experimental Cell Research
8. Innovative Food Science and Emerging Technologies
9. Redox Report

#### M. Alkhalaf

1. European Journal of Cancer Prevention
2. Frontiers in Oncology
3. Frontiers in Cell and Developmental Biology, section Molecular and Cellular Oncology
4. Grant Reviewer Services with Research Sector, Kuwait University
5. Phytotherapy Research

#### F. Thameem

*Reviewed Research Grants for the following funding agencies:*

1. Diabetes Action and Research and Education Foundation (DAREF), USA
2. Qatar National Research Fund, Qatar

*Reviewed Manuscripts for the following journals:*

1. Journal of Diabetes Research
2. PLOS ONE

#### **(d) Active Participation in Professional Conferences**

#### **(e) Services for External Examinations Outside Kuwait**

None

#### **(f) Contribution to Committees at the Faculty and Department Levels**

#### I. Khan

1. Chairman, Department of Biochemistry (2012-Present)
2. Chairman, Department Council (2012- present)
3. Chairman, Department Scholarship Committee (2012-Present)
4. Chairman, Department Appointment Committee (2012- Present)
5. Chairman, Faculty Examination Committee, Year 2 Phase-2 (2010-Present)
6. Coordinator, Foundation Block Curriculum, Phase-2 Year 2 (2010-Present)
7. Member, Board of Examiners, Faculty of Medicine (2010-present)
8. Member, Faculty Council (2012-present)
9. Member, Department Foundation Biochem Coordination Committee (2010-Present)
10. Member, GI Module Coordination Committee (2008-Present)
11. Member, Department Promotion Review Committee (ad hoc)
12. Member, Higher Scientific Committee, Faculty of Medicine (2015-Present)

#### L. Benov

1. Chair, Department Purchase Committee
2. Chairman, Promotion Review Committee (ad hoc)
3. Coordinator, Departmental Research Committee
4. Coordinator, Phase 1 Chemistry
5. Member, Medical Biochemistry Graduate Program Committee
6. Member, Department Foundation Biochemistry Committee
7. Member, Departmental Scholarship Committee
8. Member, Department Appointment Committee
9. Member, FoM M. Sc. Biomedical Sciences Program Committee
10. Member, Phase 1 Program Committee
11. Member, Graduate program committee for MSc in Biomedical Sciences

#### M. Alkhalaf

1. Member, Department Foundation Biochemistry Committee
2. Member, Department Scholarship Committee
3. Member, Department Appointment Committee
4. Member, Departmental Council
5. Member, Department Examination Committee
6. Member, Department Research Committee
7. Member, Medical Research Cancer (MRC)

#### M. Al-Maghrebi

1. Member, Phase 1 Biology Course Coordination Committee.
2. Member, Renal System Coordination Committee
3. Member, RRB System Coordination Committee
4. Member, Department Council
5. Member, Departmental Foundation Biochemistry Committee
6. Member, Department Scholarship Committee
7. Member, PhD Program Committee in Medical Biochemistry
8. Member, MSc Program Committee in Medical Biochemistry
9. Member, Biochemistry Department Research Committee

#### F. Thameem

1. Program Director, Medical Biochemistry Graduate Program, Faculty of Medicine
2. Course Coordinator, Biochemistry of Disease (#540-564; 3 Credit Hrs)
3. Course Coordinator, Biochemical Techniques II (#540-561; 3 Credit Hrs)
4. Course Coordinator, Advanced topics in Molecular Biology-I (540-611; 1 Credit Hr)
5. Course Coordinator, Biochemistry of Cell Organelle (#540-501; 2 Credit Hrs)
6. Member, Exam committee, Faculty of Medicine
7. Member, Academic Accreditation Unit, Faculty of Medicine
8. Member, M.Sc. Molecular Biology, Faculty of Science
9. Member, Department Scholarship Committee
10. Member, Department Research Coordination Committee
11. Member, Departmental Council
12. Member, Year 1 Biology Course Committee
13. Departmental representative, Adv. Cell Biology course (2050-507), FoS
14. Departmental representative, Infection and Immunology Module Coordination Committee
15. Departmental representative, Blood and Lymph Module Coordination Committee
16. Departmental representative, Endocrinology module Coordination Committee

17. Departmental representative, Nervous system Coordination Committee

A. Al-Jarallah

1. Member, Department Council
2. Member, Department Examination Committee
3. Member, Department Foundation Biochemistry Committee
4. Member, Department Purchase Committee
5. Member, Department Appointment Committee
6. Member, Department Research Coordination Committee
7. Member, Graduate Program Committee
8. Departmental Coordinator of the Cardiovascular Module
9. Departmental Coordinator of Phase-2 Year-2
10. Member, Scientific Advisory Committee, Faculty of Medicine
11. Member, RCF/OMICS Technical Committee
12. Member, Faculty of Medicine Animal Ethics Committee
13. Member, HSC Poster Conference Committee
14. Member, Faculty of Medicine Staff-Student Consultative Committee

S. Alkafeef

1. Member, Departmental Council
2. Secretary, Department Council
3. Departmental Representative, Musculoskeletal System Coordination Committee
4. Departmental Representative, Respiratory System Coordination Committee
5. Member, Phase-2 Year-2 Examination Committee
6. Coordinator (acting), Phase 1 Chemistry for Health Sciences

**(g) Contribution to Committees Outside the Faculty  
(University / Health Science Center)**

L. Benov

1. Acting Chairman, Faculty of Pharmacy Promotions Committee
2. Member, Dasman Diabetes Institute Animal Care and Ethics Committee

M. Al-Maghrebi

1. Advisor, HSC Student Club
2. Advisor, Kuwait University Medical Student Association (KUMSA)

A. Al-Jarallah

1. Member, Kuwait Heart Foundation-Food and Heart Committee
2. Member, American Heart Association
3. Member, European Atherosclerosis Society
4. Member, Canadian National Proteomics Network
5. Member, The American Society of Biochemistry and Molecular Biology

## CONCLUSION

### a) An Assessment of How Well the Department is Meeting its Objectives

In this academic year the department has published seven research publications, and 4 abstracts in the international conferences with financial support through several research grants funded by the Kuwait University Research Sector, KFAS and NIH (US). Members have participated in various administrative and academic duties pertaining to the accreditation and curriculum development and coordination. With limited staff the Department achieved the objectives set-in for the research, undergraduate and graduate teaching and supervision and administrative duties.

### b) Plan for the future

#### Organize Examination Review in the Department

Department Committees on an *ad hoc* basis critically review the curriculum and assess the suitability of examination items to be used in various examinations. This has led to a greater student's acceptance of our examination items.

#### PhD Program in Medical Biochemistry

Until new recruitments are made, new admission into the PhD program is on hold due to a current shortage of academic staff.

### c) Concluding remarks

In the current academic year, seven research articles were published in peer reviewed scientific journals, and research findings were presented. However due to COVID-19, the university remained closed for the entire 2<sup>nd</sup> semester. The remaining teaching was reattempted online starting from 09 August 2020 which delayed initiation of the next academic year, 2020-2021. The teaching staff with the help of the faculty and the university administration were able to deliver the remaining curriculum successfully online using MS Teams.

Several research and MSc student grants availed during the current academic year are ongoing while some were successfully completed. Department has approved two students for admission into MSc Medical Biochemistry program for the next academic year, 2021-2022. Furthermore, due to shortage of academic staff, no new admission was approved for the PhD Program in Medical Biochemistry for the academic year, 2021-2022. However, two PhD students of the first batch have started working on their thesis work. For an effective delivery of teaching at the undergraduate, graduate and post graduate levels recruitment of at least 4-5 additional academic members at Assistant-Associate-Full Professorial levels is required. One scholarship candidate is under training for his PhD degree who shall join the department after completing his PhD degree as Assistant Professor. Department has also approved one more Kuwaiti national to undertake her scholarship program starting from October 2022 in the Glasgow University, UK.

In conclusion, despite a heavy teaching and administrative load and the COVID-19 pandemic, the Department has fully achieved objectives in teaching, research, and administrative areas. Recruitment of additional academic and support staff is necessary to strengthen continuation of various teaching programs and participation in the extended academic programs in the Faculty of Medicine.

**COMMUNITY MEDICINE &  
BEHAVIORAL SCIENCES**

## INTRODUCTION

The Department of Community Medicine and Behavioural Sciences embraces the major disciplines of Epidemiology, Demography, Psychology, Sociology and Biostatistics that enable us to understand how psychological, social and demographic variables influence health. Other complementary fields of expertise, essential for fulfilment of the Department's mission, include Medical Ethics, Health Promotion and Education, Health Economics, Occupational and Environmental Health, Health Policy and Management and Communication Skills.

*Community Medicine*, also known as Public Health Medicine, aims to prevent disease, prolong life, and promote health through the organized efforts of society. It relies mainly on Epidemiology and Biostatistics as its basic science disciplines. Understanding key epidemiological and statistical concepts, principles and methods is necessary for comprehending health needs in the community, perceiving the interplay of risk factors, conceptualizing and implementing preventive and control measures, as well as evaluating the effects of intervention programmes.

These epidemiologic and statistical principles are also applied clinically since they enable physicians to read, interpret and apply the medical literature to clinical practice, and by enabling physicians to improve the clinical care of patients through the concepts of evidence-based medicine. Since the community is a real "human laboratory" for epidemiology and public health, a significant part of teaching is organized outside the classroom, in the "real life" situations of a community-based research project. Also emphasized are the basic concepts and methods of prevention, public health, health education and health promotion, global health and occupational and environmental health.

*The Behavioural Sciences* enable medical students to acquire a better understanding of themselves and others and, more specifically, to understand the psychological and socio-demographic factors that are determinants of health and disease. Psychology helps us to understand the mental processes of perception, learning, memory, attention, motivation, emotion, development and aging in individuals; as well as providing a basic knowledge of how people differ in terms of personality, temperament and cognitive performance. Sociology and Demography take us beyond the study of individuals to provide an understanding of the organisation, behaviour and interaction of groups in a social context.

Together Psychology and Sociology have a bearing on all aspects of human behaviour, including the quality of communication between patients and physicians in the context of the prevention, incidence, prevalence, manifestation, diagnosis, treatment and prognosis of disease. Health-promoting behaviours and discouraging illness-promoting behaviours are determined by a complex interaction of genetic and environmental factors and by different cultural patterns. Thus, an understanding of individual and group differences in human behaviour, and its application to patient care by the physician, facilitates early diagnosis and effective treatment in the promotion of health and prevention of illness.



## **Broad Objectives**

To provide medical students with knowledge and skills necessary to define, understand and address biopsychosocial determinants of health and disease at the individual and the community levels, thus preparing the graduating physicians to act as holistic primary health care practitioners; as investigative researchers in health-related issues; as key partners in Health education and promotion, disease prevention; and as informed users of the medical literature.

## **Specific Learning Objectives**

At the completion of the Community Medicine and Behavioural Sciences courses the graduating students should be able to satisfy the following cognitive and competency-based objectives.

### *Cognitive Objectives*

- To understand the mental processes of perception, learning, memory, attention, motivation, emotion, development and aging in individuals as well as the medical relevance of these processes.
- To know how people, differ in terms of personality, temperament and cognitive performance and to have some understanding of how these influences human interactions in general and the patient-physician interaction in particular.
- To be familiar with the behavioural, demographic, ecological, economic, cultural and psychosocial determinants of health and disease.
- To understand the concepts, measures and distribution of health and disease in human populations.
- To be familiar with the principles of prevention of the most prevalent health problems of communities.
- To know the primary epidemiologic study designs and methods of statistical analysis, their uses, and their limitations, including potential sources of wrong inferences and errors.
- To understand the basic structures and processes of the health care system in Kuwait and elsewhere as well as the elements of health administration and management.
- To be able to describe the foundation concepts of prevention, Health education and Promotion, public health, occupational and environmental health.
- To understand the basic concepts and principles of medical ethics.

### *Competency Objectives*

- To be able to draw on a broad understanding of the basic behavioural sciences and the principles of medical ethics in order to address health care issues and to enhance clinical practice.
- To communicate effectively and appropriately with the patient and his/her family.
- To be able to propose plans and means for behavioural changes towards optimal health.
- To use quantitative statistical methods and computer technology for analysis and interpretation of health-related data.
- To be able to address a public health problem by designing and conducting a field investigation, suggesting adequate measures, and preparing results for oral and written presentation.

## **CONTRIBUTIONS TO THE MEDICAL CURRICULUM**

### **Phase I**

The department of community medicine and behavioural sciences academic staff members are involved in teaching and coordinating two courses that are offered to students admitted to the faculties of Medicine, Dentistry, and Pharmacy. The first course is Basic Biostatistics and Epidemiology, and the second course is Introduction to Computers in medicine. In both courses, the academic contents are taught through lectures, tutorials, workshops, and use of computer laboratory to provide students with hands-on sessions for using SPSS statistical software and informatics resources to aid students to seek medical information and knowledge.

### **Phase II**

Phase II of the curriculum is a systems-based and problem-triggered curriculum with weekly cases. It runs from the second year through to the end of the fourth year, after which the more clinically oriented Phase III begins. Phase II is organized according to four themes, including the Integrated Basic and Clinical Sciences (IBCS) Theme, Clinical Competence (CC) Theme, Professional Development (PD) Theme, and the Public Health (PH) Theme. The Department of Community Medicine contributes primarily to the IBCS, PH and PD Themes with contributions from the following disciplines and specialist fields:

#### **Communication Skills**

Communication Skill course is delivered in Year 2 during as part of clinical skills lab consists of a 7-hours workshop that is spread throughout 3 days using live demonstration and practice with a simulated patient (SP).

#### **Epidemiology and prevention**

This series of lectures, also delivered during Years 3 and 4, covers the Epidemiology and Prevention of the most important diseases within each system. Topics include the epidemiology and prevention of coronary artery disease, hypertension, stroke, asthma, COPD, occupational lung diseases, tuberculosis, lung cancer, pneumonia, thyroid diseases, diabetes, obesity, osteoarthritis, back pain, rheumatoid arthritis, systemic lupus erythematosus, viral hepatitis, colorectal cancer, end-stage renal disease, infectious diseases, and HIV. The focus of these deliveries is the global and local burden of disease, modifiable and non-modifiable risk factors for the disease, and evidence-based interventions for the primary, secondary, and tertiary prevention of the disease.

#### **Nutrition and Obesity Medicine**

The course covers a range of topics pertinent to the everyday practice of nutrition and obesity in medicine, including:

- Introduction to Nutrition and Obesity Medicine
- Nutritional assessment tools.
- Identification of underlying causes of Obesity
- Consultation and communication skills.
- Application of the current guidelines.
- Nutrition and lifestyle therapy.

### **Medical Ethics**

The Ethics and professionalism course is taught throughout Phase II and III. In phase II there are 5 lectures in Foundation, Block II and 18 lectures across Years 2,3 and 4 of Phase II

### **Psychology**

The Psychology course (total of 31 lectures) is taught in the second semester of the second year (Foundation Block II). Additionally, 8 Psychology lectures and learning topics are provided in the Phase II systems Modules that follow Foundation Block II. The course provides foundational knowledge of the psychological processes needed for successful interaction with patients, for the specialized study of mental illness and for the acquisition of knowledge concerning psychological aspects of specific disease processes.

### **Phase III**

#### **Community Medicine**

The academic staff members at the Department of Community Medicine and Behavioural Sciences coordinate and collaboratively teach the Community Medicine course to students in their first clinical year (i.e., 5th year). These six credit hours' courses are taught three times over the academic year. The course teaches the concepts, principles, and methods of Community Medicine, its application within the global and local community, and its relevance to the physician's practice. Specifically, the course covers the disciplines of epidemiology, biostatistics, evidence-based medicine skills, behavioural sciences, social demography, health education, health systems, ethics, and professionalism. Also, the academic staff members participate in six Medical School Days (MSDs) scattered throughout the academic year, in which the broad areas of disease prevention, environmental and occupations health, and global health are covered. An additional three MSDs are delivered by the department during which in the Community Medicine rotation students present their community-based research projects.

Also, academic staff members at the department offer elective courses in "Learnt Creative Writing" and "Research Ethics: Evil Medical Experiments and Lessons".

#### **Communication Skills**

Paediatrics Medical school day for 6th year medical students on 'Communication Skills in Paediatrics'. An academic member of staff from the department of CMBS is involved in co-teaching this component. with academic members of staff from the department of paediatrics. Through the use of role-play, volunteer students practice their communication skills with trained simulated patients and with a variety of medical cases commonly encountered in paediatrics.

The fifth-year medical students completed the following research projects during their Community Medicine rotation in this academic year:

<b>NO</b>	<b>Title</b>	<b>Tutor</b>
21.01	COVID-19 and Distance Learning: Parent experiences, attitudes, and family well-being.	RS
21.02	Prevalence and determinants of SARS-COV-2 vaccine hesitancy among health- care workers in Kuwait	SA
21.03	Health and Sociodemographic factors affecting compliance with non-pharmacological factors preventive measures during the COVID-19 outbreak among adults in Kuwait.	MS
21.04	Burnout Among Physicians During COVID-19 Pandemic in Kuwait	WSH
21.05	Perceptions of harm and use of electronic cigarettes among adults in Kuwait	AZ
21.06	The Prevalence of and Factors Associated with Multimorbidity Among Adults in Kuwait	SA
21.07	Hesitancy of adults living in Kuwait to seek health care services during COVID-19 Pandemic	WSH
21.08	Effect of COVID-19 lockdown on glucose control, adherence, and accessibility to medical care among people with diabetes in Kuwait	JL
21.09	Knowledge of Gestational Diabetes Mellitus amongst Women of Reproductive Age in Kuwait.	AZ
21.10	Prevalence of adverse effects of covid-19 vaccines (Pfizer and AstraZeneca) among vaccinated adults in Kuwait.	MS
21.11	A Study Assessing the Knowledge, Attitude, and Practice Towards Obesity Among the Adult Population in Kuwait.	NM
21.12	Psychological distress during COVID-19 Curfews and Social Distancing in Kuwait.	AJB

### **Ethics and Professionalism III**

The Ethics and Professionalism teaching in Phase III develops and extends the educational process begun in Phase II. Contributions for ethics teaching in Phase III is provided on invitation basis only. Relevant ethics teaching is integrated in the clinical Medical School

Days (MSD) in Medicine, Surgery, Pediatrics, Obstetrics & Gynecology, Psychiatry and Community Medicine when such opportunities exist.

## **CONTRIBUTIONS TO POSTGRADUATE TEACHING PROGRAMS**

### *1.M. Sc. Programs FOM*

Biostatistics and Computers in Medicine is a faculty-requirement course intended for all students joining the various M.Sc. programs in the Faculty of Medicine. The course has two components that focus on “biostatistics” and “computers”, respectively. The course takes into account the fact that enrolled students have different backgrounds and hence it includes a diversity of topics to meet their interests. It covers a number of advanced statistics topics such as analysis of variance, multiple linear regression, logistic regression, and design and analysis of controlled randomized trials. The computer component provides students with knowledge of relevant computer hardware and software.

### *2.Master of Public Health program*

Department of Community Medicine & Behavioural Sciences has been offering its Master of Public Health (Epidemiology and Biostatistics) since 2013-2014. The program aims to prepare the students as academically qualified public health professionals, equipped with the knowledge and skills base needed for a career that effectively addresses public health challenges both nationally and internationally. MPH student’s complete minimum of 45 credit hours of coursework comprising core courses (21 credit hours (CH)), concentration courses (10 CH), elective courses (9 CH) and Kuwait University College of Graduate Studies courses (5 CH). Additionally, MPH students do capstone project on a public health issue chosen by the MPH students in consultation with their academic supervisors. The capstone project requires the development and implementation of a research proposal, data collection, analysis and report writing under the close supervision of an academic advisor. The practicum course involves the MPH students in a planned, supervised and evaluated practice experience that combines public health knowledge and skills. For practicum, students are placed in Ministry of Health facilities, Department of Public Health, infectious disease control, Social Health and Communicable diseases department under professional guidance of a site supervisor. The CHs earned in protocol development, capstone project and practicum courses are counted towards the requisite number of CHs mandatory for the completion of MPH degree. So far, four batches of MPH (Epidemiology and Biostatistics) including (20) students have graduated from this program.

MPH students completed the following Capstone Research Projects.

<b>Tutor</b>	<b>MPH Student</b>	<b>Title of Project</b>
Dr. Ali Ziyab	Kawthar Shehab	Beliefs of parents in Kuwait about third hand smoke and its relation to home smoking rules: a cross-sectional study.

### *3. Master of Child Life program*

This two-year program will prepare students for a professional career as child life specialists, who are able to work in both hospital and other health-care settings. Students will acquire the skills necessary to promote family-centred care and to effectively work with children and their families who are coping with a chronic or terminal illness, surgery, trauma, injuries and disabilities. The program will provide students with a combination of a solid theoretical background and a supervised clinical internship, in addition to introducing students to developing research skills and to administration related competencies.

The Master of Child Life program has been approved by Kuwait University Council in 2015. However, recruitment difficulties preclude starting the program.

#### **MANPOWER**

##### **Faculty Members**

##### *Professor and Chairman*

Dr. Ali Ziyab, B.Sc., M.Sc., Ph.D.  
Epidemiology  
Acting Chairman

Prof. Saeed Akhtar, D.V.M., M.Sc., M.P.V.M., M.S., Ph.D.  
Epidemiology

##### *Associate Professors*

Dr. Ahmed N. Albatineh, B.Sc., M.Sc. (Statistics), M.Sc. (Operations Research), Ph.D.  
Biostatistics

Dr. Joseph Longenecker, M.D., M.P.H., Ph.D. Epidemiology

Dr. Ali Ziyab, B.Sc., M.Sc., Ph.D.  
Epidemiology

##### *Assistant Professors*

Dr. Manal Bouhaimed, B.Sc., M.B.Ch.B., M.Sc., Ph.D., F.R.C.S. (Aphtha.)  
Medical Ethics

Dr. Naif Al-Mutawa, B.A., M.A. (Clinical Psychology), M.A. (Organizational Psychology),  
M.B.A., Ph.D.  
Clinical Psychology

Dr. Reem Naif Al-Sabah, B.A., Ph.D.  
Clinical Psychology

Dr. Ali Buabbas, B.Sc., M.Sc., Ph.D.  
Medical Informatics

***Unfilled academic positions:***

Biostatistics	2
Epidemiology	2
Health Economics	1
Occupational & Environmental Health	1
Sociology/Medical Sociology	1
Child Life Specialist	1
Public Health	1

***Teaching Assistants***

Ms. Manal Al-Kandari, B.Sc., M.Sc.  
Mr. Abdullah Al-Majran, B.Sc., M.Sc.  
Mr. Meshal Al-Sager, B.Sc., M.Sc.  
Dr. Ahmad Al-Sultan, B.Sc., M.Sc., Ph.D.

***Clinical Tutors seconded from the Ministry of Health (2020-2021)***

Dr. Wafaa Ali Shaban, PhD, Specialist, Food and Nutrition Administration, Al-Sabah Health Area, MOH.  
Dr. Mohammed Saleh AlSeaidan, PhD, Specialist, Public Health Administration, MOH.

***External Examiner***

Prof. Fernando Rodríguez-Artalejo, MD, Ph.D.  
Professor of Preventive Medicine and Public Health,  
University Autónoma Of Madrid

Prof. Wilfried J.J. Karmaus, MD, Dr. med., MPH  
Professor of Epidemiology, School of Public Health  
University of Memphis

***MPH students***

Ms. Sahar Mahmoud Behzadi  
Ms. Nourah Khaled Alajmi  
Ms. Maraheb Marzouq Alkhaldi  
Ms. Manal Alsaidi (she has been academically dismissed from College of Graduate Studies due to receiving two successive GPA probations).

***Scientific Assistant***

Mrs. Ajitha Suresh, B.Sc., M.Sc.

***Chief Technician***

Dr. Mumtaz Shukkur, B.Sc., M.Sc., Postgrad.Dip.H.E., Ph.D.  
Technician

### ***Secretarial Staff***

Mr. Ahmed Morsy, B.A

Ms. Hend Salah, B.Sc.

### **Staff Changes**

*Staff who left the Department*

### ***Academic Staff***

#### ***Support Staff***

Dr. Susan Jacob, B.Sc., M.Sc., B.Ed., Ph.D. (Technician).

## **TEACHING IN THE DEPARTMENT'S PROGRAM**

### **I. Faculty of Medicine**

#### ***a) Undergraduate teaching***

Lectures:	174.75
Learning Topics:	13.00
Electives:	224.00
Workshops:	840.00
Tutorials/Seminars:	87.00
PBL & Lab practical & OSCE	-
Total teaching hours given to students per year:	<hr/> 1338.75

#### **Course Coordinators:**

Prof. Saeed Akhtar

- Biostatistics and Basic Epidemiology, Phase I
- Respiratory Module, Phase II
- GI tract Module, Phase II
- Community Medicine, Phase III
- Epidemiology I, MPH (shared teaching)
- Epidemiology II, MPH (coordination and teaching)

Dr. J. C. Longenecker

- Biostatistics and Basic Epidemiology (Lecturer)
- Epidemiology/Prevention – Phase II (Course Coordinator)



Dr. Ahmed N. Albatineh

- Biostatistics and Computer in Medicine (0510-501) (Graduate course: (2 CR: 17 students).
- Biostatistics I (0566 - 550) (MPH graduate course: (3 CR: 3 students).
- Statistics for Biomedical Science (0712-540, Graduate course: 2 CR, 3 students)
- Biostatistics for Community Medicine Phase III 5<sup>th</sup> year MD (Two rotations: 75 students).
- Advanced Biostatistics (0510 – 502) (Graduate course: (1 CR: 2 students).
- Biostatistics II (0566 - 551) (MPH graduate course: (3 CR: 4 students).
- Sampling Survey Methods (0566 - 559) (MPH graduate course: (3 CR: 4 students).
- Biostatistics for Community Medicine Phase III 5<sup>th</sup> year MD (One rotation: 38 students).
- Biostatistics and Basic Epidemiology (14 10 144) (Undergraduate course, Teaching Biostatistics component and course coordinator: 242 students).

Dr. Manal Bouhaimed

- Graduate Teaching: -
  - Ethics in Public Health Practice & Research, Master of Public Health, Year 1, Semester II course No. (0566-562)
- Undergraduate Teaching: -
  - Ethics & Professionalism, Phase II &Phase III
    1. Phase II
      - Y2- Foundation II
      - Y2- (I&I Block)
      - Y3- (Blood system)
      - Y3- (cv system)
      - Y3- (Respiratory system)
      - Y3- (Endocrine system)
      - Y3- (MSK system)
      - Y3- (Endocrine system)
      - Y4- (Nervous system)
      - Y4- (Renal Module)
      - Y4- (GI Module)
      - Y4-Reproductive and Breast
    2. Phase III, Community Medicine (Introduction to research Ethics) – Y5
    3. Elective Courses, Phase II-Y4& Phase III-Y5
  - Ethics and Professionalism: -
    1. Patient Safety: Better Knowledge for safer Care
  - Module I
    2. Patient Safety: Better Knowledge for safer

- Care  
Module II
3. Quality of Health care services
  4. Research Ethics
  5. Child Protection services
  6. Community Eye Health

- Dr. Naif Al-Mutawa
- Psychology (System Blocks), Phase II
- Dr. Reem Al-Sabah
- Introduction to Medical Psychology (Phase II, Year 2, Foundation Block)
  - Introduction to Medical Psychology (Phase II; Systems Blocks, Years 2 and 3)
  - Community Medicine Project Supervision (Year 5)
  - Introduction to Medical Psychology (Faculty of Allied Health Sciences, Year 2)
  - Master of Public Health Practicum, Year 2, Semester II (MPH Practicum)
- Dr. Ali Ziyab
- Co-Instructor, Biostatistics and Basic epidemiology (shared teaching, epidemiology component), Phase I-1<sup>st</sup> year
  - Course coordinator and co-instructor, Community Medicine (shared teaching), Phase III, 5<sup>th</sup> Year
  - Instructor, Epidemiology I [CR3; 566-540]
- Dr. Ali Buabbas
- Computers in Medicine for pre-professional year (Compulsory module), Phase I
  - Telemedicine and mobile technology for 5th year (Elective module)
  - Community medicine project supervision

**b) Graduate Teaching**

Lectures:	323.50
Workshops:	239.00
Tutorials/Seminars:	40.00
Total teaching hours given to students per year:	602.50

**Program Director:**

Prof. Saeed Akhtar                      Master of Public Health Program

## 2. Other Faculties

### *Faculty of Allied Health Sciences*

Psychology (220) is delivered to students of the Faculty of Allied Health Sciences with a total of 44 lecture hours that includes basic psychology as well as health-related psychology topics. Dr. Reem Al-Sabah is the Course Coordinator.

## RESEARCH AND PUBLICATIONS

The Department has been actively involved in research in various areas. It also offers advice and research assistance to other members of the Health Sciences Centre and the Ministry of Health.

Part of the Department's research effort relates to common diseases in Kuwait. This research includes studies of diabetes, obesity, psycho-social aspects of aging and nutritional problems. Some of these studies involve international collaboration with international world institutions.

Other areas of interest include workforce needs for health professionals in Kuwait, family health, school health, prevalence of diabetes retinopathy, and heart rate variability. Studies are being conducted on the quality of routinely collected vital events data. Research is also being conducted on demographic factors affecting the Kuwaiti population, especially in terms of international migration, socio-economic factors affecting Kuwait's demographic structure, and psychosocial factors related to aging of Kuwaiti population.

### Funded Research Projects

1. Renal Function in the Kuwaiti Adult Population: Prevalence of Chronic Kidney Disease and Associated Factors” Principal Investigator: **Longenecker J.**  
Co-Investigators: Al-Hamad N; Tuomilehto J; Al-Watiyan R; Al-Ozairi E. KFAS Grant, 81,649KD, Supplemental grant to Salt Intake study). Status: Funded, ongoing.
2. “Estimation of salt intake assessed by 24-hour urinary sodium excretion in the adult Kuwaiti population” (Principal Investigator: Nawal Al-Hamad; Co-Investigators: **Longenecker, J;** Tuomilehto J, Al-Watiyan R; Al-Ozairi E. KFAS Grant, 72,835KD) Status: Funded, ongoing.
3. “Kuwait National Survey of Non-Communicable Diseases and their Risk Factors: A WHO STEPwise Approach to Surveillance (STEPS) Study, 2019” Principal Investigator: Al-Watiyan R; Co-Principal Investigator: **Longenecker J;** Co-Investigators: Al-Duwairi Q, Al-Ozairi E, Alali W, Tolma E; Funding Institution: Kuwait Foundation of the Advancement of Sciences. Grant, 40,000KD. Status, funded, ongoing.
4. Maternal vitamin D level in relation to neonatal infections and child health outcomes  
Principal Investigator: **Ali H. Ziyab**

Co-investigators: Abdullah Al-Taiar, Majeda Hammoud, Saeed Akhtar, Reem Al-Sabah.

Funding Institute: Kuwait University, Project #: MC 01/15, KD70,490 (~ \$231,800)

5. A study of the determinants and prevalence of chronic obstructive pulmonary disease in the Kuwaiti population  
Principal Investigator: Sana S. Al Mutairi  
Co-investigators: **Ali H. Ziyab**, Olusegun Mojiminiyi, Alia Al Alawi, Huda Al Duwaisan, Saddeeqah Bu Alyan  
Funding agency: Kuwait Foundation for the Advancement of Sciences – PR17-13MM-05, KD 49,708 (~ \$163,500)
6. Vitamin D level, refractive errors and colour vision among school children in middle schools in Kuwait (Partial funding from KU-WF02/13), **Bouhaimed M**
7. Assessment of Persistent Organic Pollutants (POPs) in Human Breast Milk in Countries of the West Asian region of the Stockholm Convention (KFAS PR18-13MC-03), **Bouhaimed M**
8. Kuwait Birth Cohort Study: Maternal vitamin D level in relation to neonatal infections and child health outcomes. Funding Agency: Kuwait University, Project ID: MC01/15 2015 On-going **Al-Sabah, R.** (Co-investigator)
9. Association of Vitamin D levels with cognitive function and school performance in school children in Kuwait. Funding Agency: Kuwait University, Project ID: WF02/13 -2013. Completed **Al-Sabah, R.** (Co-investigator)
10. Understanding the biochemical and genetic role of ANGPTL8/betatrophin in obesity and Vitamin D metabolism in school children in Kuwait. Funding Agency: Kuwait Foundation for the Advancement of Sciences, Project ID: RA HM-2017-026 Implemented. **Al-Sabah, R.** (Co-investigator)

### Unfunded Research Projects

1. **Bouhaimed M**, Surgical Site Infection After Gastrointestinal Surgery in Kuwait: A Prospective National Study
2. **Bouhaimed M**, Kuwait National Hospital Accreditation: Perception of Healthcare Providers
3. **Bouhaimed M**, Patient Waiting Time and Satisfaction in Kuwait's Outpatient Clinics
4. **Bouhaimed M**, Knowledge and Attitudes Regarding Infertility Among Selected Adult Population in Kuwait
5. **Bouhaimed M**, Patients' Preference for Physicians' Gender in Kuwait
6. **Bouhaimed M**, Work-Life Balance Among Physicians in Kuwait
7. **Bouhaimed M**, Selection Criteria of Paediatric Residents in Kuwait

8. **Bouhaimed M**, Factors Influencing Specialty Choice Among Residents in Kuwait
9. **Bouhaimed M**, Attitudes of Physicians in Kuwait Towards the Policies of Jaber Hospital
10. **Bouhaimed M**, Health Practices of Physicians in Kuwait
11. **Bouhaimed M**, Work Satisfaction Among Physicians in Kuwait
12. **Bouhaimed M**, Nephrologists' and Transplant Surgeons' Perceptions and Attitudes About Rewards and Compensation for Kidney Donation in Kuwait
13. **Bouhaimed M**, Anxiety and Depression Among Physicians in Kuwait
14. **Bouhaimed M**, Kuwait University Medical Student Attitudes' On Social Media Use in Medicine.
15. **Bouhaimed M**, Medical Student Empathy in Kuwait
16. **Bouhaimed M**, Attitudes of Medical Students in Kuwait Towards Healthcare Delivery to Expats in Kuwait.
17. **Buabbas AJ**, Usefulness of smartphone use among surgeons in clinical practice during the pandemic of COVID-19: A cross-sectional study.
18. **Buabbas AJ**, Patients' Satisfaction with Telerehabilitation System in Outpatient Clinics during COVID-19 Pandemic in Kuwait
19. **Buabbas AJ**, Evaluating the success of the telepathology system: An in-depth study in governmental hospitals in Kuwait
20. **Buabbas AJ**, a survey study to investigate students' perceptions towards artificial intelligence systems in medical education.

## **Publications**

### *Published Articles*

1. Rezaqalla J, Alshatti M, Ibraheem A, Omar D, Al-Failakawi H, AlHaqqan S, AlGhurair S, **Akhtar S**. Human Papillomavirus (HPV): unawareness of causal role HPV infection in cervical cancer, HPV vaccine availability and HPV vaccine uptake among female schoolteachers in a Middle Eastern country. *Journal of Infection and Public Health* 2021; 14(5): 661-667.
2. Al-Tarakemah Y, Akbar J, **Akhtar S**, Qudeimat M, Omar R. Evaluation of a technique for reducing chairside occlusal adjustment of crowns. *Journal of Prosthodontics* 2021; 30: 183-188.
3. **Akhtar S**, Alroughani R. Evaluation of disparities in multiple sclerosis risk by age, sex, and nativity in Kuwait:1980-2019. *Multiple Sclerosis and Related Disorders* 2021; 47:102676.
4. **Akhtar S**, Al-Abkal J, Alroughani R. Joinpoint regression analysis of trends in multiple sclerosis incidence in Kuwait: 1980-2019. *Neuroepidemiology* 2020; 54(6):472-481.

5. Ridha H, Bouzaber F, Al-Sallal M, Almutairi A, Al-dhubaiei R, **Akhtar S**. Prevalence of and factors associated with self-reported noncompliance with mandatory seatbelt-use law while driving among adults in Kuwait. *Injury Epidemiology* 2020; 7(1):58.
6. Tyshenko MG, Oraby T, **Longenecker JC**, Vainio H, Gasana J, Alali WQ, AlSeaidan M, ElSaadany S, and Al-Zoughool M. 2021. Analysis of intervention effectiveness using early outbreak transmission dynamics to guide future pandemic management and decision-making in Kuwait. *Infectious Disease Modelling*. 6: 693-705.
7. Oraby T, Tyshenko MG, Maldonado JC, Vatcheva K, Elsaadany S, Alali WQ, **Longenecker JC**, Al-Zoughool M. Modeling the effect of lockdown timing as a COVID-19 control measure in countries with differing social contacts. 2021. e-pub ahead of print: <https://doi.org/10.1038/s41598-021-82873-2>. *Scientific Reports* 11(1):3354.
8. Alali WQ, Bastaki H, **Longenecker JC**, Aljunid SM, AlSeaidan M. Chehadeh W, Vainio H. Seroprevalence of SARS-CoV-2 in migrant workers in Kuwait. February 2021. *Journal of Travel Medicine*. <https://doi.org/10.1093/jtm/taaa223>. 28 (2):1-3.
9. Alali WQ, **Longenecker JC**, Alwotyan R, Al-Kandari H, Al-Mulla F, Al Duwairi Q. Prevalence of smoking in the Kuwaiti adult population in 2014: a cross-sectional study. *Environmental Science and Pollution Research*. 2020 Oct. ePub ahead of print: <https://doi.org/10.1007/s11356-020-11464-x>. 2021 Feb. 28(8):10053-10067.
10. Kempen JH, Abashawl A, Suga HK, Difabachew MN, Kempen CJ, Debele MT, Menkir AA, Assefa MT, Asfaw EH, Habtegabriel LB, Addisie YS, Nilles E, **Longenecker JC**. SARS-CoV-2 serosurvey in Addis Ababa, Ethiopia. *American Journal of Tropical Medicine and Hygiene*. 2020 Nov; 103(5):2022-23
11. Gasana, J., Ibrahimou, B., **Albatineh, A. N.**, Al-Zoughool, M. and Zein, D., 2021. Exposures in the Indoor Environment and Prevalence of Allergic Conditions in the United States of America. *International Journal of Environmental Research and Public Health*, 18(9), p.4945.
12. Moradi, Y., **Albatineh, A. N.**, Mahmoodi, H., & Gheshlagh, R. G. (2021). The relationship between depression and risk of metabolic syndrome: a meta-analysis of observational studies. *Clinical Diabetes and Endocrinology*, 7(1), 1-12.
13. Hussein, S. H., **Albatineh, A. N.**, Almajran, A., & Ziyab, A. H. (2021). Association of health literacy and other risk factors with glycemic control among patients with type 2 diabetes in Kuwait: A cross-sectional study. *Primary Care Diabetes*, 15(3), 571-577.
14. Borojeny, L. A., **Albatineh, A. N.**, Dehkordi, A. H., & Gheshlagh, R. G. (2020). The Incidence of pressure ulcers and its associations in different wards of the hospital: A systematic review and meta-analysis. *International Journal of Preventive Medicine*, 11.
15. Al-Shammari N, Al-Modahka A, Al-Ansari E, Al-Kandari M, Ibrahim KA, Al-Sanea J, Al-Sabah R, **Albatineh AN**, (2020), Prevalence of depression, anxiety, and their associations among end-stage renal disease patients on maintenance hemodialysis: a multi-center population-based study. *Psychology, Health & Medicine*, 29:1-9.
16. Zahedi, M., Dehvan, F., **Albatineh, A. N.**, & Gheshlagh, R. G. (2020). Knowledge of Type II Diabetic Patients About Their Diabetes: A Systematic Review and Meta-Analysis. *Advances in Nursing & Midwifery*, 29(1), 36-43.
17. Ismet Sarikaya, Ali Sarikaya, **Ahmed N. Albatineh**, Ebru Tastekin, Yavuz Atakan Sezer, (2021), Assessing the correlation between FDG PET findings of IDC breast carcinoma and histopathology of coexisting DCIS? *Nuclear Medicine Review*, (In press).
18. Abdullah Al-Taiar, Nawal Alqaoud, Reem Sharaf Alddin, Faheema Alanezi, Monica Subhakaran, Anne Dumadag, **Ahmed N. Albatineh**, (2021), Stunting and combined overweight with stunting among school children in Kuwait: trends over a 13-year

period, *Medical Principles and Practice*, (In press).

19. Jan-Henning Schierz, Ismet Sarikaya, **Ahmed N. Albatineh**, Ali Sarikaya, (2021), Assessing correlation between 68Ga-PSMA-11 renal PET parameters and renal function tests, *Annals of Nuclear Medicine*, (In press).
20. Mohammad A, **Ziyab AH**, Mohammad T. Prevalence of prediabetes and undiagnosed diabetes among Kuwaiti adults: a cross-sectional study. *Diabetes Metab Syndr Obes.* 2021;14:2167-2176. doi: 10.2147/DMSO.S296848. [Original Article]
21. Al-Qattan H, Al-Omairah H, Al-Hashash K, Al-Mutairi F, Al-Mutairat M, Al-Ajmi M, Mohammad A, Alterki A, **Ziyab AH**. Prevalence, Risk Factors, and Comorbidities of Obstructive Sleep Apnea Risk Among a Working Population in Kuwait: A Cross-Sectional Study. *Front Neurol.* 2021; 12:620799. doi: 10.3389/fneur.2021.620799. [Original Article]
22. Hussein SH, Albatineh AN, Almajran A, **Ziyab AH**. Association of health literacy and other risk factors with glycemic control among patients with type 2 diabetes in Kuwait: A cross-sectional study. *Prim Care Diabetes.* 2021. doi: 10.1016/j.pcd.2021.01.011. [Original Article]
23. Alqudeimat Y, Alenezi D, AlHajri B, Alfouzan H, Almokhaizeem Z, Altamimi S, Almansouri W, Alzalalah S, **Ziyab AH**. Acceptance of a COVID-19 Vaccine and its Related Determinants among the General Adult Population in Kuwait. *Med Princ Pract.* 2021. doi: 10.1159/000514636. [Original Article]
24. Almari M, Mohammad A, Abubaker J, **Ziyab AH**. Obesity and Prediabetes are Jointly Associated with Lipid Abnormalities Among Adolescents: A Cross-Sectional Study. *Diabetes Metab Syndr Obes.* 2021; 14:345-353. doi: 10.2147/DMSO.S290383. [Original Article]
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29. AlShatti KA, **Ziyab AH**. Pet-keeping in relation to asthma, rhinitis, and eczema symptoms among adolescents in Kuwait: a cross-sectional study. *Front. Pediatr.* 2020; 8:331. doi: 10.3389/fped.2020.00331. [Original Article]
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32. Magnitude and Determinants of Refractive Error among Preparatory Schoolchildren in Kuwait. **Bouhaimed M**, Al-Taiar A, Al-Sabah R, Rahman A, Shaban L, Khandekar R. Under review
33. Serum Vitamin D25 in Myopic Vs Emmetropic Preparatory Schools Children in Kuwait and its Determinants. **Bouhaimed M**, Al-Taiar A, Al-Sabah R, Rahman A, Shaban L, Khandekar R. Under review
34. Book: *Clinical Ethics: A Practical Approach to Ethical Decisions in Clinical Medicine*. Albert Jonsen, Mark Siegler, William Winslade. Translated to Arabic and awaiting Publisher contract, **Bouhaimed M**
35. Al-Shammari, N., Al-Modahka, A., Al-Ansari, E., Al-Kandari, M., Ibrahim, K. A., Al-Sanea, J., **Al-Sabah, R.**, & Albatineh, A. N. (2020). Prevalence of depression, anxiety, and their associations among end-stage renal disease patients on maintenance hemodialysis: a multi-center population-based study. *Psychology, Health & Medicine*, 1–9. <https://doi.org/10.1080/13548506.2020.1852476>
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42. **Buabbas A**, Hasan H, Shehab AA. Parents' Attitudes Toward School Students' Overuse of Smartphones and Its Detrimental Health Impacts: Qualitative Study. *JMIR Pediatr Parent*. 2021 May 20;4(2): e24196. doi: 10.2196/24196. PMID: 33878024.



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44. Aldousari SA, **Buabbas AJ**, Yaiesh SM, Alyousef RJ, Alenezi AN. Multiple perceptions of robotic-assisted surgery among surgeons and patients: a cross-sectional study. J Robot Surg. 2020 Aug 10. doi: 10.1007/s11701-020-01136-w. Epub ahead of print. PMID: 32776285.

### *Book Chapter*

### *Poster Presentations*

1. Lari F, Algharibah N, Alrashidi M, Aldhubaiei D, Alenezy W, Alenzeni M, Albd Alotaibi N, Alhajri M, Akhanam R, Krisnan A, **Akhtar S**. Prevalence and determinants of SARS-COV-2 vaccine hesitancy among health-care workers in Kuwait. Kuwait Univ Health Sciences Center poster conference March 16-18, 2021.
2. AlRashed M, Abbas G, AlBelushi S, Alkhatlan S, Alqarbah M, Alrushaid S, AlSharekh N, Bahbahani B, Khamissi F, **Akhtar S**. Prevalence and Factors Associated with Medical Trust in Healthcare Among Public Sector Employees in Kuwait. Kuwait University Health Sciences Center poster conference March 16-18, 2021.
3. **Bouhaimed M**, Al-Taiar A, Al-Sabah R, Rahman A, Shaban L, Khandekar R. (2021, March). Serum Vitamin D25 in Myopic Vs Emmetropic Preparatory Schools Children in Kuwait and its Determinants. Paper presented at KU-Scientific Day Poster Conference, Kuwait.
4. AlMojel M, Ashkanani H, AlFahad M, AlYaqoub E, AlZamel A, AlZaabi A, Eliwa Y, **Bouhaimed M**. (2021, March). Attitudes of Physicians Towards Incentives in Kuwait. Paper presented at the 25<sup>th</sup> HSC Poster Conference, Kuwait.
5. Eliwa J, Jamal D, Alashqar A, Qadoura B, **Bouhaimed M**. (2021, March). Perception of Negative Teaching Approaches by Clinical Tutors in Kuwait. Paper presented at the 25<sup>th</sup> HSC Poster Conference, Kuwait.
6. **Bouhaimed M**, Al-Taiar A, Al-Sabah R, Rahman A, Shaban L, Khandekar R. (2021, March). Magnitude and Determinants of Refractive Error among Preparatory Schoolchildren in Kuwait. Paper presented at the 25<sup>th</sup> HSC Poster Conference, Kuwait.
7. Alsayegh R, Alnajem A, Esmaeil A, Eliwa J, **Bouhaimed M**. (2020, June). Attitudes and experiences towards own and peer medical errors in Kuwait: An opportunity to reflect. Paper presented at the 15<sup>th</sup> meeting of World Congress of Bioethics. (WCB), Philadelphia- USA.
8. AlMojel M, Ashkanani H, AlFahad M, AlYaqoub E, AlZamel A, AlZaabi A, Eliwa Y, **Bouhaimed M**. (2020, June). Attitudes of Physicians Towards Incentives in Kuwait: Results of a Pilot Study. Paper presented at the 15<sup>th</sup> meeting of World Congress of Bioethics. (WCB), Philadelphia- USA.
9. Al-Ebraheem Z, AlQahtani N, AlShemali B, **Bouhaimed M**. (2019, November). Reflective Auditing as A Teaching Modality in Ethics & Professionalism: Need for

Supportive and Informed Motherhood Policies During Residency Training in Kuwait. Paper presented at the 3rd KAS Conference, Kuwait.

10. AlFailakawi M, Buhaimed W, AlAradi D, **Buhaimed M.** (2019, November). SWOT Analysis of Bariatric Surgery in Adolescents: A Reflective Case Series on Guidelines Development. Paper presented at the 3rd KAS Conference, Kuwait.
11. AlFailakawi M, Babu U, **Buhaimed M.** (2019, November). How Informed Are Parents About Their Children Medical Conditions? A Parent's Knowledge of His Child's Hypoplastic Left Heart Syndrome. Paper presented at the 3rd KAS Conference, Kuwait.
12. Abdullah L\*, Alkandari A, Aloufan L, Murad D, Alfahad M, Alfalah D, Muqaddam A, Alrashid M, Nasri T, **Al- sabah R:** The Prevalence and Associated Factors of Cyberbullying among Kuwait University Students. 25<sup>th</sup> Health Sciences Center Poster Conference, Kuwait University. March, 2021.
13. Abdullah L, Alkandari A, Aloufan L, Murad D, Alfahad M, Alfalah D, Muqaddam A, Alrashid M, \*Nasri T, **Al- sabah R:** The Association of Cyberbullying with Self-esteem and Emotional and Behavioral Problems. 25<sup>th</sup> Health Sciences Center Poster Conference, Kuwait University. March, 2021.
14. Buhaimed M\*, Al-Taiar A, **Al-Sabah R,** Rahman A, Shaban L, Khandekar R: Magnitude and Determinants of Refractive Error among Preparatory Schoolchildren in Kuwait. 25<sup>th</sup> Health Sciences Center Poster Conference, Kuwait University. March, 2021.
15. **Buabbas AJ,** Physiotherapists' perceptions of and willingness to use telerehabilitation in Kuwait during the COVID-19 pandemic. Dubai 2021.

## OTHER CONTRIBUTIONS

### a) Participation in Ministry/Government activities

*Longenecker, J*

1. **Longenecker J.** Secondment to the Kuwait Ministry of Health, Department of International Health Relations.
2. **Longenecker J.** Public Health Advisory Group for COVID-19, Kuwait Ministry of Health.

*Buhaimed, M.*

- Expert member and country representative in the meetings of the Extraordinary Session of the UNESCO International Bioethics Committee (IBC) and the 11th Extraordinary Session of the UNESCO World Commission on the Ethics of Scientific Knowledge and Technology (COMEST)
- Member in the Advisory Committee of the Higher Council of Environment in Kuwait

*Ziyab, A.H.*

- Member, National Elderly Health Survey Committee, Ministry of Health, Kuwait

*Al-Mutawa, N.*

- Chief Psychotherapy Training Supervisor at the Kuwait Psychiatric Hospital
- Member of Kuwait Supreme Education Council
- Board Member of Investment Committee for the National Fund for SME Development
- Dr. Al-Mutawa has delivered a lecture on Cognitive Behavioural Therapy at Adan Hospital, April 2019
- Presently involved in various studies in the GCC regarding mental health impact of COVID19 Al-Mutawa N.
- Lecture on Stress Management at Abdullah Al-Mubarak Health Center in Farwaniya Health Region (Ministry of Health). Wednesday, October 9, 2019·8:30 – 10:30am
- Jleeb Hospital Lecture frontline health care Wednesday, April 22, 2020·
- Jaber Hospital psychology unit, Probono psychological counselling during COVID19 pandemic Jaber hospital March 2020 till present.

*Al-Sabah, R.*

- Board member, Kuwait Association for the Care of Children in Hospital (KACCH).

Buabbas, AJ

- Research work

## **b) Offices held in Professional Organizations**

*Akhtar, S.*

- Fellow, American College of Epidemiology
- Member, International Epidemiology Association
- Member, Society for Epidemiologic Research (USA)
- Member, Asian-African Society of Mycobacteriology.
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*Longenecker, J.*

- Member, American Public Health Association.
- Member, Society for Epidemiologic Research.
- Member, American Society of Nephrology.
- Member, American College of Physicians.

*Bouhaimed, M.*

- Member, International Association for Education in Ethics (IAEE)
- Member, The International Society for Quality in Health Care (ISQUA)
- Member, The International Association of Bioethics
- Member, American Society for Retina Specialists
- Member, European Vitreoretina Society
- Member, Kuwait Ophthalmology Society
- Member, Saudi Society of Ophthalmology
- Member, Kuwait Medical Association
- Founding Member, Kuwait Child Rights' Society
- Member, Association of Women Surgeons
- Member, Women in Ophthalmology Arabia

- Member, Steering Committee of the Eastern Mediterranean Health Genomics and Biotechnology Network (EMHGBN)
- Vice President and Chairperson, Health and Occupational Safety, Kuwait University Staff Association. KU.
- Board member and Chairperson of the Health Committee: Kuwait Society for Human Rights

*Ziyab, A.H.*

- Member, Society for Epidemiologic Research
- Member, International Epidemiological Association

*Al-Mutawa, N.*

- Approved Albert Ellis Institute RE & CBT Supervisor
- Member of American Psychological Association
- Member of American Society of Clinical Hypnosis
- Member of American Association of Sexuality Educators, Counsellors and Therapists
- Member, Young Presidents Organization
- Member, Young Arab Leaders
- Member, Young Global Leaders
- Member, Schwab Foundation for Social Entrepreneurship

*Al-Sabah, R.*

- Member, Child Life Council, USA.
- Member, American Psychological Association (APA).
- Member, Health Psychology, APA Division 38.
- Member, Pediatric Psychology, APA Division 54.

*Buabbas, A.*

- Member of the American Telemedicine Association

### **c) Advisory services for professional journals and grant proposal reviews**

*Akhtar, S.*

- Member, Editorial Board, Global Journal of Medicine and Public Health
- Reviewer, Neuroepidemiology
- Reviewer, Multiple Sclerosis Journal – Experimental, Translational and Clinical
- Reviewer, Public Health (Elsevier)
- Reviewer, Injury Epidemiology (BioMed Central)
- Reviewer, Kuwait Medical Journal

*Longenecker, J.*

- Reviewer, Medical Principles and Practice
- Reviewer, Kuwait Medical Journal

*Albatineh, A.N.*

- Reviewer, Medical Principles and Practice Journal
- Reviewer, Journal of Classification.
- Reviewer, Communications in Statistics - Theory and Methods.

- Reviewer, Communications in Statistics - Simulation and Computation.
- Reviewer, Psychometrika Journal.
- Reviewer, Journal of Statistical Computation and Simulation.
- Reviewer, Journal of Statistical Methods and Applications.
- Reviewer, Journal of Applied Statistics.
- Reviewer, Journal of Environmental and Analytical Toxicology.
- Reviewer, Journal of Health, Psychology, and Medicine
- Reviewer, Iranian Journal of Science and Technology, Transactions A: Science
- Reviewer, BMC Pediatrics
- Reviewer, Cogent Medicine

*Ziyab, AH.*

- Reviewer, World Allergy Organization Journal
- Reviewer, Pediatric Allergy and Immunology
- Reviewer, Preventing Chronic Disease
- Reviewer, Women's Health
- Reviewer, Clinical and Experimental Allergy
- Reviewer, The Journal of Pediatrics
- Reviewer, World Journal of Pediatrics
- Reviewer, BioMed Research International
- Reviewer, BMJ Open Respiratory Research
- Reviewer, Diabetes Research and Clinical Practice
- Reviewer, International Journal of Obesity
- Reviewer, Journal of Asthma and Allergy
- Reviewer, BMC Pediatrics
- Reviewer, BMJ Open

*Bouhaimed M.*

- Editorial Board Member, Society of Clinical Ophthalmology

*Al-Sabah, R*

- Reviewer, BMC-Paediatrics

#### **d) Active participation in professional conferences**

- Presenter: "Ophthalmology in the Arab World: Celebrating the International Women Day". Women in Ophthalmology Arabia -March 2021, ***Bouhaimed M.***
- Presenter: "Integrity Matters". 15<sup>th</sup> Annual Middle East African Council of Ophthalmology Congress. June 2021, ***Bouhaimed M.***
- Attended: 25th HSC Poster Conference. Kuwait. March 2021, ***Bouhaimed M.***
- Coordinator of the collaborative "Public Health Ethics" seminars with the Embassy of the Republic of South Korea and KU Covid-19 Committee from March 2020 – October 2020, ***Bouhaimed M.***
- Attended: Online webinar: Women ophthalmologists of the world: A global vision for the future. Medical Education Resources, INC. 25 July 2020, ***Bouhaimed M.***
- Attended: Hospital Diabetes Abstract Symposium. Diabetes Technology Society. Applying Science and Engineering to Fight Diabetes. PESI INC. June 18 2020, ***Bouhaimed M.***

- Attended: 15<sup>th</sup> virtual meeting of World Congress of Bioethics. (WCB), Philadelphia-USA 17-21 June 2020, ***Bouhaimed M.***
- Attended: Saudi Ophthalmology Society Virtual Conference. Saudi Arabia. 12-14 March 2020, ***Bouhaimed M.***
- Moderator: Ethical challenges in obtaining informed consent. 1<sup>st</sup> Regional conference on patient informed consent & patient confidentiality. KMA- International Code of Medical Ethics Regional Meeting in collaboration with WMA. Kuwait, 6-7 Feb 2020, ***Bouhaimed M.***
- Presenter: Walking the talk: Clinical ethical education in Kuwait. 1<sup>st</sup> Regional conference on patient informed consent & patient confidentiality. KMA-International Code of Medical Ethics Regional Meeting in collaboration with WMA. Kuwait 6-7 Feb 2020, ***Bouhaimed M.***
- Attended: Community lecture “Legal Perspective of Medical Errors”. Organized by the Kuwait Lawyers Association. Kuwait. 5 Feb 2020, ***Bouhaimed M.***
- Attended: “Professional Ethics for Academic Staff Members in Higher Education”. Faculty of Allied Health. Kuwait University. Kuwait. 5 Feb 2020, ***Bouhaimed M.***
- Presenter: Ethical and Legal Issues of Emerging Biomedical Science and Research. The 2<sup>nd</sup> International Bioethics Conference. Organized by Oman National Bioethics Committee. Sultan Qaboos University, Muscat, Sultanate of Oman. 2-4. Feb 2020, ***Bouhaimed M.***
- Attended webinar: Non-Technical Skills for Surgeons: Global Approaches to Improving Patient Safety. The Royal College of Surgeons of Edinburgh, 30 Jan 2020, ***Bouhaimed M.***
- Attended: Designing Safety: Redefining Safety and Quality Reviews- The Royal College of Surgeons of Edinburgh Webinar Number: Kuwait. 12 Dec 2019, ***Bouhaimed M.***
- Coordinated and Presented: Health Empowerment and Health Rights of Women in Kuwait. Panel Discussion Exploring Clinical, Social, And Legal Perspectives. In Collaboration with The MOH and NGOs in Kuwait. 11 Dec 2019, ***Bouhaimed M.***
- Moderator Session II - Health Governance by The Ministry of Health. Regional Conference for Arab States On Health Care in Detention. Red Crescent. Kuwait. 3-5 Dec 2019, ***Bouhaimed M.***
- Attended: Updates in Pediatric Ophthalmology. 21st Kuwait International Ophthalmology Conference. Under the patronage of Ministry of Health. Kuwait. 30 Nov – 2 Dec 2019, ***Bouhaimed M.***

- Speaker: Ethical and Clinical Challenges for Patients with Multiple Sclerosis in Kuwait. Improving Quality of Life for People with Disability in Kuwait Conference. Training Gate International with the General Secretariat of the Supreme Council for Planning and Development. Kuwait. 24-26 November 2019, **Bouhaimed M.**
- Coordinator and speaker: Workshop On Protecting the Environment from A Human Rights Perspective in Collaboration with the European Union and the Kuwait Society for Human Rights Kuwait. 17 Nov 2019, **Bouhaimed M.**
- Attended: WISE Doha Conference. Medical Ethics. Doha. 19-21 Nov 2019, **Bouhaimed M.**
- Attended Webinar: CPD as the Cornerstone for value creation in the healthcare system. International Association of Medical Education. Kuwait. 4 Nov 2019, **Bouhaimed M.**
- Attended AMEE Webinar: What Did We Learn About the Future When We Convened Leaders, Influencers and Visionaries from The International Medical Learning Ecosystem? By Alvaro Margolis, Suzanne Murray & Thomas Kellner. Kuwait. 1 Nov 2019, **Bouhaimed M.**
- Attended: Webinar: What's new in AMD? The role of fluid control. Moderator- Robin D Hamilton, Moorfields eye hospital. NHS, London, United Kingdom. 29 Octo 2019, **Bouhaimed M.**
- Attended: Kuwait Foundation for the Advancement of Sciences (KFAS) -United Nations Environment Programme (UNEP) Capacity-Building Workshop. Kuwait. 23-24 Octo 2019, **Bouhaimed M.**
- Attended: Kuwait conference for medical accountability and patient safety. Kuwait. 12 Oct 2019, **Bouhaimed M.**
- Attended: Involving Patients, families and new perspectives into CPD. Prof. David Wiljer. University Health Network, University of Toronto, Centre for Addiction and Mental Health. Kuwait. 8 Octo 2019, **Bouhaimed M.**
- Attended: The International Association for Medical Education (AMEE) Webinar: Resident-sensitive quality measures: placing patients at the center of our assessment efforts. By Dr Daniel J. Schumacher. 8 Oct 2019, **Bouhaimed M.**
- Attended: Climate change vulnerability and opportunities. By Dr Lia Sieghart. Practice manager for Middle East and North Africa at the World bank. KFAS. Kuwait. 16 Sep

2019, **Bouhaimed M.**

- Attended: Environmental Strategic Planning: World Bank. Kuwait. 15-17 Sep 2019, **Bouhaimed M.**
- Attended: International Patient Safety Workshop. Kuwait. 15 Sep 2019, **Bouhaimed M.**
- Attended: IUCN West Asia 9th Regional Conservation Forum (RCF). Kuwait. 9-11 Sep 2019, **Bouhaimed M.**
- Attended: Middle East African Council of Ophthalmology (MEACO) 14th International Congress. Amman-Jordan. 5-8 Sep 2019, **Bouhaimed M.**
- Attended: International Clinician Educators Summit. Vienna. 28 Aug 2019, **Bouhaimed M.**
- Attended: Member: UNESCO International Bioethics Committee (IBC) 26th ordinary session of the IBC and 11th ordinary session of the COMEST, Bangkok, Thailand. 2-7 July 2019, **Bouhaimed M.**
- Member of the Organizing Committee, 25<sup>th</sup> Health Sciences Center Poster Conference, Kuwait University. March 16-18, 2021 (Web-based), **Ziyab, AH.**
- Majlis Mohamed Bin Zayed Lecture Series - Abu Dhabi Tuesday, October 1, 2019, **Al-Mutawa N.**
- EMDR Basic Training: Part 1 Transforming Trauma with EMDR at New York January 9-12 /2020, **Al-Mutawa N.**
- EMDR Basic Training: Part 2 Transforming Trauma with EMDR at New York Friday, January 17-19/2020, **Al-Mutawa N.**
- Zinc, at Zain Headquarters- Speaker March 8, **Al-Mutawa N.**
- Saudi London Group for Saudi Students for Mental Health Monday, April 6, 2020, **Al-Mutawa N.**
- United Nations in Kuwait Lecture Wednesday, April 22, 2020, **Al-Mutawa N.**
- KIMS Paediatric lecture for Residents (Dr. Nasayem Al Quraini) April 30-2020 **Al-Mutawa N.**

#### **E) Other Activities**

- KFAS sponsored Amiri Hospital training for Frontline Healthcare Workers March 2020 till present, **Al-Mutawa N.**



- KFAS Awareness videos regarding the impact COVID19 pandemic on the mental Health sponsored in Amiri Hospital, **Al-Mutawa N**.
- The Scientific Center Instagram Live topic mental health 19 May, **Al-Mutawa N**
- AlMajlis TV Interview Saturday, June 20, **Al-Mutawa N**
- Ruwwad club virtual Seminar on the impact of Covid19 on mental Health in GCC 14 July, **Al-Mutawa N**
- Free covid19 Hypno therapy sessions for public Live on Instagram, **Al-Mutawa N**
- Corona Care Kuwait Weekly meetings supervisory meeting for treating mental health issues arising from the pandemic from march to September, **Al-Mutawa N**
- KFAS Online Mental Health Panel regarding Covid 19 pandemic Wednesday, July 22, **Al-Mutawa N**
- Chief Science Officer program creative writing program, August 2019, **Al-Mutawa N**
- National Fund Meetings weekly, **Al-Mutawa N**

#### **f) Contributions to Committees in the Faculty of Medicine**

*Akhtar, S.*

- Member, Faculty of Medicine Self-Evaluation Committee
- Member, Departmental Examinations Committee, Biostatistics/ Basic Epidemiology
- Member, Respiratory System Phase II Committee
- Member, Postgraduate Student Grievance Committee, FOM
- Member, Kuwait Medical Licensing Examination Committee
- Chairman, Departmental Research Committee
- Chairperson, Departmental Recruitment & Promotion of Technical & Support Staff Committee
- Member, Departmental Appointments/Contract Renewal Committee, Academic Staff,
- Member, Departmental Examinations Committee, Community Medicine & Ethics
- Member, Departmental Examinations Committee, Biostatistics & Basic Epidemiology
- Member, Departmental Electives Committee

*Longenecker, J.*

- Member, Cardiovascular System Phase II Committee
- Member, Gastrointestinal System Phase II Committee
- Member, Community Medicine Examination Committee
- Member, BBE Examination Committee

*Albatineh, A.N.*

- Member, Faculty Appointment, Contract Renewal, and Promotion Committee
- Member, Scholarship committee
- Chairperson, Curriculum and Examination committee
- Member, Departmental MPH committee
- Member, examination committee, community medicine course (Phase III)

*Ziyab, A.H*

- *Acting Chairman department of Community Medicine*
- Member, Faculty of Medicine Examination Committee, Phase III program – Year 5
- Member, Teaching Load Study Committee, Faculty of Medicine, Kuwait University
- Member, Strategic Curriculum Teaching Plan under MOH COVID-19 Preventive Guidelines. Phase III Committee
- Member, Department of Psychiatry, Appointment, Contract Renewal, Promotion, and Scholarship Committee
- Chair, Departmental Scholarship Committee
- Chair, Departmental Appointment, Contract Renewal, and Promotion Committee
- Member, Departmental Curriculum and Examination Committee
- Member, Master of Public Health Program Committee

*Al-Mutawa, N.*

- Member, Departmental Master of Child Life (MCL) Steering Committee
- Member, Departmental Recruitment and Promotion of Technical and Support Staff Committee

*Al-Sabah, R.*

- Member, FOM/FSS Joint Committee
- Member, Phase II Examination Committee
- Member, Scholarship Committee
- Member, Curriculum and Examination Committee

*Buabbas, A*

- Member, Examination Committee -phase I
- Member, Curriculum and Examination Committee

**g) *Special contributions to FOM and HSC administration***

*Longenecker, J.*

- Vice-Dean, Academic, Faculty of Public Health
- Acting Chairperson, Department of Public Health Practice, Faculty of Public Health
- FOM Representative, HSC Ethics Committee for Undergraduate Student Research (Sub-Committee of the Kuwait MOH Standing Committee for the Coordination of Health and Medical Research)
- Ongoing maintenance and development of the Phase II Curriculum Management System, Medical Education Unit

*Albatineh, A.N.*

- Search and screen committee for a Biostatistics faculty member in the Faculty of Public Health (July 2020).

*Bouhaimed, M.*

- Member in Kuwait University COVID-19 Committee
- Coordinator of the HSC students' volunteering efforts March 2020 – August 2020.

***h) Awards***

## **CONCLUSION**

During the past year the Department has made important contributions to the Faculty teaching program. Overall, Department contributed about 1338.75 hours of teaching at all levels of undergraduate programs. These contributions include courses across a range of different disciplines and in all three Phases of the Faculty curriculum. Staff have maintained a high level of research productivity, with 34 papers and one book chapter. Staff members also continue to have active roles in academic and consultation activities of the Health Sciences Centre and of the Ministry of Health.

# **MEDICINE**

## INTRODUCTION

### **A. Objectives of the department programs:**

The broad objectives of the department can be summarized as:

1. Provide the best educational exposure and training to Undergraduate medical students according to the educational objectives of the Faculty of Medicine.
2. Establish Postgraduate Training Programs for medical graduates of the Faculty of Medicine.
3. Provide state of the art medical care to patients in the hospitals assigned by MOH.
4. Encourage the staff to undertake basic and clinical research in areas relevant to health care  
by providing them with supportive staff and technical facilities.

### **B. Obstacles to meeting these objectives:**

#### **1. Increase in clinical year students:**

The increasing number of clinical year students in the recent years has become a challenge on the teaching responsibilities of the department. The problem is multiplied by the fact that the provision of facilities, e.g. hospital beds, teaching rooms, secretarial assistance etc remains static. The department is meeting this challenge by enrolling neighboring general hospitals as teaching hospitals.

#### **2. Lack of a university hospital:**

The quality of clinical teaching is entirely dependent on the best conducive atmosphere to learning and teaching. This is possible only when the hospital focuses its outlook towards the primary objective of a teaching hospital, viz. student oriented. An average general hospital, where the focus is primarily patient care, cannot replace a teaching hospital. This is a serious deficiency in the faculty teaching program.

### **C. Current developments.**

#### **- Additional Teaching programs:**

With the implementation of Phase II and Phase III preparation process, there is great enthusiasm and participation from several members of the department.

#### **- Primary Care and Dermatology:**

Primary Care and Dermatology are becoming a more integrated part of the departmental teaching responsibilities. The students and staff are highly appreciative of these changes.

- Examination in clinical and theoretical medicine:  
The department has achieved major changes in the examination format – both clinical and theory to make those more objective for both Final Year examinations and Phase III 5th year and 6th year Clinical examinations.
- Staff assessment:  
A system is now established to evaluate periodically all staff involved in teaching, for FOM and MOH.

**D. Program achievements – List initiatives undertaken and outcomes achieved**

**Student Engagement and success**

Curriculum enhancement and development

Overall summary of teaching effectiveness of all teaching /training session undertaken, using the students / Tutor feedbacks.

Course evaluation is taken from each student. Chairperson meet the students at the end of each rotation. The feedback of the students from the course evaluation and meeting is discussed in the council and the teaching hospitals to improve the effectiveness of teaching.

**Student's evaluation –**

- changes/review to the curriculum undertaken review of various teaching /teaining modalities, clinical rotations, MSD activities, Assessments, Clinical & Communication Skill/Procedural skill activities. – **No changes**
- Activities undertaken for the accreditation process in preparing self-evaluation document. Collection & submission to VDA Office of the evidence for the review to the curriculum undertaken {training of clinical tutors, review of student logbook, review of rotation objectives, training workshops, minutes of inter- and/ or intra-department moots etc }.

Yes, self-evaluation is done rotation wise by each students (not done by staff).

All the logbooks are collected and reviewed. The feedback and completeness of the logbook helps to evaluating the student's attendance and performance, availability of tutors and feedback.

Training workshops are done for students for several clinical skills. There was a medical education workshop dedicated for the staff done over three days with external visitors from UK.

Challenges towards successfully achieving teaching /trainings activities.

More Medical Education workshops for the staff should be recommended.

Although Medical ethics are emphasized in the clinical years, we need to concentrate also on safety (students, staff and patients).

## **MAN POWER**

### **ACADEMIC STAFF**

#### **PROFESSORS:**

- Prof. Adnan Abul – B.M.B.Ch, Am.B Int. Med., FRCP(C) Respiratory. **Chairman.**
- Prof. Abdul Mohsen Al-Yousef MBChB, MRCP, FRCPG, PhD. (Emeritus) – Cardiology.
- Prof. Kamel El-Reshaid M.B.Ch.B, Am.B. Int Med. Am.B. Neph. FRCP. – Nephrology.
- Prof. Nasser Hayat B.A, M.D, Ph.D, FACP, FACC. – Cardiology.
- Prof. Fuad Hasan, B.M.BCh, ABIM (Int.Med), ABIM(Gastro), A.A.S.L.D, FACP.- Gastroenterology.
- Prof. Mohammed Zubaid M.B.ChB, FRCP(C) FACC – Cardiology.
- Prof. Adel Al-Awadhi B.M.B.Ch, FRCPC, FACR – Rheumatology.
- Prof. Nasser Behbehani B.M.B.Ch, FRCP(C),- Respiratory Medicine.
- Prof. Mousa Khadadah B.M.B.Ch, FRCP(UK).- Respiratory Medicine
- Prof. Dia Shehab B.M.B.Ch, FRCP(C), MAAEM. - Physical Medicine
- Prof. Khalid Al Jarallah B.M.B.Ch., FRCP(C),FACR, FACP.- Rheumatology
- Prof. Nawaf Al Mutairi – B.M., B.Ch., FRCP (C) – Dermatology.
- Prof. Iqbal Siddiqui - M.B.B.S, AmB (Int. Med) AmB (Gastro) – Gastroenterology

### **ASSOCIATE PROFESSORS:**

- Dr. Babu Uthaman M.B.B.S, M.D, Doct.Med.(Card)., FRCP (Edin)Cardiology,
- Dr. Suhail Al-Shammari MBBS, FRCP(C) - Neurology
- Dr. Wael El-Reshaid B.M.B.Ch., FASN.- Nephrology
- Dr. Salem Al-Shemmari B.M.B.Ch., FRCP (C) – Haematology
- Dr. Sana Al-Mutairi B.M.B.Ch., MRCP, M.Sc – Respiratory Medicine.
- Dr. Faisal Ali Sayegh B.M.B.Ch., AmB (Int. Med.), AMB (Haem). FRCPC.  
- Haematology
- Dr. Laila Al-Qadan B.M.B.Ch., AMBd (Int. Med.) AmBd (Endocrin.) - Endocrinology
- Dr. Waleed M Alazmi- B.M.B.Ch., ABIM (Int. Med) ABIM (Gastro), Gastroenterology
- Dr. Jaber Al Ali B.M.B.Ch., DABIM FRCP (C)– Gastroenterology
- Dr. Jasem Yousef Al Hashel - B.M.B.Ch., FRCP(C), Neurology. FAHS

### **ASSISTANT PROFESSORS:**

- Dr. Ebaa Al-Ozairi, B.M.Sc(Hon.), M.B.Ch.B.,MRCP(UK),CCT
- Dr. Muath Alanbaei – B.M.B.Ch., ABIM (Med), FRCPC (Med.),ABIM (Card.), FRCPC (Card.), FACC, FGHA, ISACHID.
- Dr. Fatma K.Ali, MD, ABIM (Int.Med)., ABAI (Allergy & Immunology).
- Dr. Tariq Bader Al Fahad, MD., DABPN, MSCS, Neurology.

### **TEACHING ASSISTANT**

- Dr. Vasanty S. Nair- MSc. PhD. NRCC-CC

### **CLINICAL INSTRUCTOR**

- Ms. Khazana Al-Enezi - B.Sc., M.Sc



**DEPARTMENT OF MEDICINE**  
**FACULTY OF MEDICINE**  
**DEPARTMENT OF MEDICINE**  
**FACULTY OF MEDICINE**

**CLINICAL TUTORS LIST 2020-2021**

**MUBARAK AL-KABEER HOSPITAL *Total 38***

1	Dr. Majda A. Samad	Consultant, Chairperson, Dept. of Medicine
2	Dr. Ibrahim Ismail Farrag	Senior Specialist
3	Dr. Moudhi Al- Mutairi	Consultant
4	Dr. Abdulredah Al-Qalaf	Consultant
5	Dr. Abdulraouf Al-Shayeb	Consultant
6	Dr. Waleed Abdulla Al-Dahi	Consultant
7	Dr. Ahmed Al Fadhli	Consultant
8	Dr. Ibrahim Lasheen	Consultant
9	Dr. Shaikha Aba Al-Khail	Consultant
10	Dr. Majid Yousef Zaki	Consultant
11	Dr. Abdulmohsen Al- Shammeri	Consultant
12	Dr. Khulood Al Asfoor	Consultant- Phase II
13	Dr. Tanheed Al-Hajeri	Consultant
14	Dr. Hisham Sa'ad Ahmed	Consultant- Phase II
15	Dr. Medhat Mekhaeel	Consultant
16	Dr. Leena Kamal Al-Khalid	Consultant- Phase II
17	Dr. Aqeel Abdullah Muhanna Salam	Consultant- Phase II
18	Dr. Suha Mohammed	Consultant
19	Dr. Sana Nader Sawan	Consultant- Phase II
20	Dr. Amr Abd Al Moneim	Consultant- Phase II
21	Dr. Amro Al-sayed Abu-Kora	Consultant - Phase II
22	Dr. Hoda Al- Sahaf	Consultant
23	Dr. Abdelaziz Al- Adwani	Senior Specialist- Phase II
24	Dr. Yousef Behbehani	Senior Specialist
25	Dr. Marwa Al Qudhaibi	Consultant
26	Dr. Wasel AL adsani	Senior Specialist
27	Dr. Ali A. Al-Ali	Senior Specialist

28	Dr. Ahmad Esmaeel Abdullah	Senior Registrar
29	Dr. Namareq Al-Jarki	Specialist
30	Dr. Hala Abdullah Marzoq	Senior Registrar
31	Dr. Ahmad Al-Rashid	Senior Registrar
32	Dr. Hassan Al-Awadhi	Senior Registrar
33	Dr. Salem Al-Najjar	Senior Registrar
34	Dr. Suliman Mousa Khudadah	Specialist
35	Dr. Yousef Habeeb Al-Ramzi	Specialist
36	Dr. Mariam Al-Serri	Senior Registrar

**Payment to be made for 2<sup>nd</sup> semester only (7/3/2021 to 8/7/2021)**

37	Dr. Heba Al- Hajeri	Senior Specialist
38	Dr. Sundus Al Duaij	Consultant- Phase II

**AMIRI HOSPITAL *Total 19***

39	Dr. Raja Dashti	Consultant, Chairperson, Dept. of Medicine- Phase II
40	Dr. Eisa Al- Khaledy	Consultant
41	Dr. Najat Ashour	Consultant
42	Dr. M.M. Kapoor	Consultant
43	Dr. Anil Tussu	Consultant
44	Dr. Eman Haji Hassan	Consultant- Phase II
45	Dr. Alia Al- Alawi	Consultant
46	Dr. Asharf Keshk	Consultant
47	Dr. Saleh Al- Azmi	Consultant
48	Dr. Hossam Eldin Tawfik	Consultant
49	Dr. Mohammad Ashknani	Specialist
50	Dr. Saad Al-Zenki	Consultant
51	Dr. Ghadeer Akbar	Senior Specialist
52	Dr. Nada Al Hassan	Specialist
53	Dr. Noor Al Mutairi	Specialist
54	Dr. S. Sadandan	Senior Registrar- Phase II
55	Dr. Mohammad Merza	Senior Registrar

**Payment to be made for 1st semester only (8/11/2020 to 21/2/2021)**

56	Dr. Haifa Askar	Consultant
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Payment to be made for 2nd semester only (7/3/2021 to 8/7/2021)

57	Dr.Abeer Al-Gharabally	Consultant
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**FARWANIYA HOSPITAL *Total 12***

58	Dr. Mohammed Hussain Al- Kandari	Consultant
59	Dr. Mokhtar Al-Bayer	Consultant
60	Dr. Saleh Al- Enezi	Consultant
61	Dr. Fahad Al- Enezi	Consultant
62	Dr. Mohammed Al- Shammeri	Consultant
63	Dr. Ahmed Al- Dousari	Consultant
64	Dr. Hamdy Ibrahim	Consultant
65	Dr. Saqer Al- Srayei	Consultant
66	Dr. Khuloud Saleh	Consultant
67	Dr. Abdulrahman Aljassem	Senior Specialist
68	Dr. Fahad Adel Al-Halban	
69	Dr. Saad M. Al- Nesafi	Senior Specialist

**ADAN HOSPITAL *Total 14***

70	Dr. Abdullah Faras	Specialist, Chairman- Medicine Department
71	Dr. Bassam Al Helal	Consultant- Phase II
72	Dr. Mohammed Morou	Consultant
73	Dr. Mohammed Al-Sombati	Consultant
74	Dr. Ahmad Al-Hashemi	Specialist
75	Dr. Hussain Dashti	Senior Registrar
76	Dr. Tarek Abdel Hameed	Consultant
77	Dr. Amin Ma'arafi	Consultant
78	Dr. Salehmoud Abdel Fattah	Consultant
79	Dr. Hossam Al- Ghossen	Consultant
80	Dr. Moh'd Osama	Consultant
81	Dr. Mona Al- Hindi	Consultant
82	Dr.Nawaf Al-Enizi	Senior Registrar
83	Dr. Suliman A. Hajji	Specialist

**SABAH HOSPITAL *Total 10***

84	Dr. Ghassan Baidas	Consultant, Chairman, Dept. of Medicine
85	Dr. Afaf Al- Adasani	Consultant
86	Dr. Adnan Al-Assousi	Consultant
87	Dr. Mousa Akbar	Consultant
88	Dr. Fareeda Al- Habeeb	Consultant
89	Dr. Varkey Alexander	Consultant
90	Dr. Darwish Mustafa	Consultant
91	Dr. Sherif Talaat	Consultant
92	Dr. Amer Masood	Consultant
93	Dr. Ahmad Al-Tabikh	Senior Registrar

**CHEST HOSPITAL *Total 8***

94	Abdullah Al- Enezi	Specialist, Head - Cardiology
95	Dr. Mohammed Al-Mutairi	Consultant
96	Dr. Fawzia Al-Kandari	Consultant
97	Dr. Ali Al-Sayegh	Consultant
98	Dr. Christus Thomas	Consultant
99	Dr. Khalid Al Merri	Consultant
100	Dr. Abdul Mohammed Shukkur	Consultant
101	Dr. Derar Al- Khudair	Senior Specialist

**IBN SINA HOSPITAL *Total 2 per semester******Payment to be made for 1st semester only (8/11/2020 to 21/2/2021)***

102	Dr. Riyadh .A. Khan	Senior Specialist, Head - Neurology
103	Dr. John Alexander	Consultant

***Payment to be made for 2<sup>nd</sup> semester only (7/3/2021 to 8/7/2021)***

104	Dr. Samar Farooq	Senior Specialist
105	Dr. Wala Ahmad	Senior Registrar

**DERMATOLOGY- SABAH HOSPITAL *Total 4******Payment to be made for 1st semester only (8/11/2020 to 21/2/2021)***

106	Dr. Atlal Al- Lafi	Senior Specialist(Head-Dermatology center)
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107	Dr. Arti Nanda	Consultant
108	Dr. Ibrahim Al-Aradi	Consultant

***Payment to be made for 2<sup>nd</sup> semester only (7/3/2021 to 8/7/2021)***

109	Dr. Mohammad F. Al- Otaibi	Consultant
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**DERMATOLOGY- FARWANIYA HOSPITAL *Total 2***

110	Dr. Tarek Nour	Consultant
111	Dr. Ahmad AL- Mutairi	Specialist

**AL-NAFISI DIALYSIS CENTRE *Total 1***

112	Dr. Shabir Ahmad	Consultant
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**FAMILY PRACTICE SPECIALITY AND TRAINING PROGRAMME *Total 15***

113	Dr. Huda Suod Al-Duwaisan	Consultant& Chairperson
114	Dr. Amal Hamoud Al-Jhadli	Consultant& /undergraduate training coordinator
115	Dr. Deena Al- Dubaib	Consultant

***Payment to be made for 1st semester only (8/11/2020 to 21/2/2021)***

116	Dr. Sanaa Al Mansour	Consultant
117	Dr. Dalia AL-Sanea	Consultant
118	Dr. Tasneem Yousef AlJarki	Senior Specialist
119	Dr. Anwar Mohammad Bohamra	Consultant
120	Dr. Fareeda Mokaddam	Consultant
121	Dr. Amal Hamoud Al-Mehza	Consultant

***Payment to be made for 2<sup>nd</sup> semester only (7/3/2021 to 8/7/2021)***

122	Dr. Walaa Ahmad Al-Kandari	Consultant
123	Dr. Tahani Mohammed Al-Ansari	Consultant
124	Dr. Yasmin Ahmed Yahia	Consultant
125	Dr. Sawsan Al- Banai	Consultant
126	Dr. Dalal Al- Hajeri	Consultant
127	Dr. Mahdi Alhashemi	Senior Specialist

**VISITING PROFESSORS:**

Nil

**VISITING EXTERNAL FACULTY FOR CME PROGRAMMES:**

Nil

**MSc. STUDENTS**

Nil

**Ph. D STUDENTS**

Nil

**SUPPORT ACADEMIC STAFF:**

**SCIENTIFIC ASSISTANTS**

- Dr. Arpita Chathopadyay

**SUPPORT STAFF:**

**TECHNICIANS**

- Mrs. Cynthia D'Souza BSc. PG Dip. in Lab. Technology - Senior Technician
- Mrs. Aida Hussein Ali - Senior Technician
- Mrs. Sreeja Attur - Senior Technician

**SECRETARIES:**

- Mrs. Sayed Samina
- Ayasheh Savari

**COMPUTER ENGINEERS:**

1. Mrs Sobha Binoy George

**JUNIOR LAB ANALYST**

2. Mrs Soumya Pratap

**STAFFING CHANGES:**

Nil

## TEACHING IN THE DEPARTMENT PROGRAM

Faculty of Medicine

Undergraduate Teaching:

Phase II:

Year 3

Lectures	...	50 hrs.
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Phase III

Year 5

PBL	...	158 hrs.
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MSD	...	42 hrs.
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Bed Side Teaching		450 hrs.
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Year 6

PBL	...	198 hrs.
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MSD	...	19 hrs.
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Bed Side Teaching	...	450 hrs.
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Year 7

PBL	...	66 hrs.
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MSD	...	40 hrs.
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Clinical Skills

Demonstration	...	60 hrs.
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Bedside Teaching	...	250 hrs.
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Postgraduate Teaching -

Lectures	...	10 hrs.
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### Course Coordinators:

Overall Course Co-ordinator ; Prof. Adnan Abul

Phase III Year 3 Co-ordinator : Prof. Mousa Khadadah

Phase III Year 1 Co-ordinator : Dr. Waleed Al Azmi

Phase II Module Coordinators :-

Cardiology		Prof. Mohammad Zubaid
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Genitourinary	:	Dr. Wael El Reshaid
Respiratory	:	Prof. Nasser Behbahani
Neurology	:	Dr. Suhail Al Shammeri
Musculoskeletal	:	Prof. Adel Al Awadhi
Gastroenterology	:	Prof. Iqbal Siddique

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## Other Faculties

### Faculty of Pharmacy

Lectures	-	11 Hrs
Tutorials	-	Nil
Practical (Clinical bedside)	-	120 Hrs
Total	-	131 hrs

### Faculty of Dentistry

Lectures	-	28 hrs
Tutorials	-	Nil
Practical (Clinical Bedside)	-	24 hrs
Total	-	52 Hrs

## STUDENT ADVISOR

Prof. Adnan Abul	-	Number of students	4
Prof. Adel Al Awadhi	-		4
Prof. Mousa Khadadah	-		4
Prof. Nasser Behbahani	-		4
Prof. Mohammad Zubaid	-		4
Prof. Dia Shehab	-		4
Prof. Kamel El-Reshaid	-		4
Prof. Nasser Hayat	-		4
Prof. Khaled Al Jarallah	-		4



Prof. Iqbal Siddique		4
Dr. Suhail Al-Shammri	-	4
Dr. Wael El-Reshaid	-	4
Dr. Babu Uthaman	-	4
Dr. Sana Al-Mutairi	-	4
Dr. Faisal Al-Sayegh	-	4
Dr. Laila Qadan	-	4

## RESEARCH AND PUBLICATIONS

### Prof. Adel Al-Awadi

#### On-going research:

#### Non- Funded projects

1. **Role of co-morbidities on disease activity in patients with rheumatoid arthritis – KAAR registry.**
2. Easy Accessibility of Biologics and Its Impact on Disease Activity and Quality of Life in Kuwaiti Patients with Rheumatoid Arthritis
3. Higher uric acid is associated with a lower disease activity in rheumatoid arthritis patients: results from the Kuwait RA registry
4. High uric acid as a risk factor for cardiovascular diseases in rheumatoid arthritis patients

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### Dr. Suhail Al Shammeri

#### Completed research

1. Title: Vitamin D binding protein gene polymorphisms in Kuwaiti multiple sclerosis patients and healthy subjects

Funding: Funded by Kuwait University #MM02/17

Status : Completed

2. Title: Favorable outcome of Covid-19 in MS patients on Disease Modifying Treatments

Funding: Unfunded

Status: Completed

### **Ongoing research (Unfunded)**

1. Role Epstein-Barr virus in genesis of multiple sclerosis
  2. HLA genotypes in Myasthenia gravis patients
  3. HLA genotypes in multiple sclerosis patients
  4. The influence of Vitamin D on inflammatory mediators in multiple sclerosis.
  5. Influence of Nutritional factors on development and prognosis of MS
  6. Distribution of Vitamin D-Binding Protein gene subtypes in Kuwaiti population.
- 

### **Dr. Wael El Reshaid**

#### **On-going research:**

- 1 Title :Acute kidney injury following radiocontrast dye.  
Funding :Unfunded  
Status :Ongoing
  - 2 Title : Effect of Denosumab on bone hemodialysis associated osteoporosis.  
Funding :Unfunded  
Status :Ongoing
- 

### **Prof. Iqbal Siddique**

#### **On-going research:**

Endoscopic management of bariatric surgery.

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### **Dr. Sana Al Mutairi**

1. PI-investigator for **Immunological Profile of Rheumatoid Patients with Asthma** under Kuwait University grant MM 01/17.Finishedd and final Report submitted
  2. 2- PI-investigator for **A Study Of the Risk Factors, Determinants and Prevalence of Chronic Obstructive Pulmonary Disease In The Kuwaiti Population** under KFAST grant (PR17-13MM-05). Ongoing Research
-

## **Dr. Babu Uthaman**

Title:

- ✚ Etiology of pericardial effusion
- ✚ Incidence of congenital heart diseases in Kuwait
- ✚ Long term results of balloon coarctation angioplasty in native coarctation
- ✚ Long term results of balloon pulmonary valvuloplasty
- ✚ Long term follow up of infants with coarctation of the aorta
- ✚ Clinical profile of discrete subaortic stenosis
- ✚ Cardiovascular abnormalities of Down's syndrome.
- ✚ Interventional procedures following modified Fontan operations.

Funding:       Unfunded

Status     :     Ongoing

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## **Dr. Salem Al Shammeri**

### **Research:**

#### **1. Funded Research**

1. Refined Biomarkers in Chronic Lymphocytic Leukemia (P11613MM08)
2. Molecular aberrations in Myeloproliferative Neoplasms (PR1713MM03)

#### **2. Unfunded Research**

1. Thrombosis among patients with Myeloproliferative Neoplasms
  2. Profile of Myeloproliferative Neoplasms
- 

## **Dr. Waleed Al Azmi:**

1     Title    :     Trends in esophageal motility disorders in Kuwait

      Funding:     Unfunded

      Status:      Ongoing

      P.Invest:    Dr. Waleed Al Azmi

1     Title    :     The eradication rate of new H.Pylori therapies including Pylera and sequential therapy in Kuwait.

      Funding:     Unfunded

      Status:      Ongoing

      P.Invest:    Dr. Waleed Al Azmi

- 2 Title : Yield of capsule endoscopy in patients with obscure gastrointestinal bleeding  
Funding: Unfunded  
Status: Ongoing  
P.Invest: Dr. Waleed Al Azmi
- 

**Dr. Jasem Al-Hashel**

**Projects and Grants:**

**I. Principal Investigator:**

**1. Title of the project: Prevalence of Primary headache disorders in Kuwait.**

Starting Date: 01/01/2016 End Date: 31/12/2016 (Duration – 1 year)

PI: Dr. Jasem Yousef Al-Hashel

Name of the funding institute: Kuwait University

Project Number: MM02/15

Amount: 4000 KD

Co-investigators: Dr. Raed Al Roughani  
Dr. Samar Farouq

Present status: Completed

Rating: 69/90

This project produced three publications:

1. Al-Hashel JY, Ahmed SF, Alroughani R. Burden of migraine in a Kuwaiti population: a door-to-door survey. *J Headache Pain.* 2017; 18(1):105.
2. Al-Hashel JY, Ahmed SF, Alroughani R. Prevalence of Primary Headache Disorders in Kuwait. *Neuroepidemiology.* 2017; 48(3-4):138-146.
3. Al-Hashel JY, Ahmed SF, Alroughani R. Prevalence and Burden of Primary Headache Disorders in Kuwaiti Children and Adolescents: A Community Based Study. *Front Neurol.* 2019; 10:793.

**2. Title of the project: Structural MRI brain changes and its association with Homocysteine in Migraine patients.**

PI: Dr. Jasem Yousef Al-Hashel

Name of the funding institute: Kuwait University

Project Number: MM01/19  
Amount: 4000 KD  
Co-investigators: Dr. Raed Al Roughani  
Dr. Samar Farouq  
Present status: Approved, ongoing  
Rating: 73/95  
Co. Investigator: None

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**Dr. Muath Alanbaei**

**On-going research:**

**Funded projects**

- None

**Non-funded projects**

- Adult Congenital Heart Disease Prevalence in Kuwait
- 

**Dr. Jaber Al Ali**

**Non- Funded projects:**

**Title :** Endoscopic Treatment Of Obesity: Kuwait Experience

**Funding:** Unfunded

**Status:** Ongoing

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**Dr. Fatima Ali**

**Unpublished research paper**

**Title:** Machine Learning Reveals Deeper Insights into the Role of Anemia in the Outcome of Acute Coronary Syndrome

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**Prof. Mousa Khadadah**

3. Adekile, A.D., Azab, A.F., Owayed, A., **Khadadah, M.** Correlates of Pulmonary Function in Children with Sickle Cell Disease and Elevated Fetal Hemoglobin. (2018) Medical Principles and Practice, 27 (1), pp. 49-54.
-

## **Publications:**

**Prof. Adel Al-Awadi**

### **Publications:**

1. **Al-Awadhi AM**, Haider MZ, Sukumaran J, Balakrishnan S. High prevalence of protein tyrosine phosphatase non-receptor N22 gene functional variant R620W in psoriatic arthritis patients from Kuwait: implications for disease susceptibility. The Open Rheumatology Journal. Content list available at: <https://openrheumatologyjournal.com>
2. Adeeba Al-Herz, Khulood Saleh, **Adel Al-Awadhi**, Waleed Al-Kandari, Eman Hasan, Aqeel Ghanem, et al. Kuwait Registry for Rheumatic Diseases (KRRD): Accessibility to Biologics and its Impact on Disease Activity and Quality of Life in Patients with Rheumatoid Arthritis. *Clinical Rheumatology* <https://doi.org/10.1007/s10067-020-05444-2>
3. Ahmad Alsaber, Jiazhu Pan, Adeeba Al-Herz, Dhary S. Alkandary, Adeeba Al-Hurban, Parul Setiya et al. Influence of Ambient Air Pollution on Rheumatoid Arthritis Disease Activity Score Index. *International Journal of Environmental Research and Public Health*. January 2020 DOI: 10.3390/ijerph17020416
4. Recommendation for the Management of Spondyloarthritis Patients in Kuwait. Yaser Ali, Fatemah Abutiban, **Adel Alawadhi**, Ali AlDei, Ahmad Alenizi, Hebah Alhajeri, Adeeba Al-Herz, Waleed Alkandari, Ahmad Dehrab, Eman Hasan, Sawsan Hayat, Aqeel Ghanem, Khulood Saleh, Xenofon Baraliakos. *Open Access Rheumatology: Research and Reviews* 2020;12 147–165.
5. **Adel M. Al-Awadhi**, Mohammad Z. Haider, Jalaja Sukumaran, Asiya T. Mohammed, Eman A.H. Hasan, Youssef A. Bartella. The protein tyrosine phosphatase non-receptor type N22 (*PTPN22*) gene functional polymorphism (1858T) is not associated with rheumatoid arthritis in Kuwaiti Arabs. (submitted to *International Journal of Rheumatology*)

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**Prof. Dia Shehab**

### **Publications:**

1. F. Azizieh, K. Al-Jarallah, **D. Shehab**, R. Gupta, Kamaludin D, Raj Raghupathy. Patterns of circulatory and peripheral blood mononuclear cytokines in rheumatoid arthritis. *Rheumatol Int* 2017; 37:1727-1734
2. F. Azizieh, R. Reghupathy, **D. Shehab**, K. Al-Jarallah, R. Gupta. Cytokine Profiles in Osteoporosis suggest a Proresorptive Bias? *Menopause* 2017 Sep;24(9):1057-1064

3. Khaled Al-Jarallah, **Diaa Shehab**, Munirah T. Al-Jaser, Khaled M. Al-Azemi, Fatma F. Wais, Ahmed M. Al-Saleh, Abdulhadi S. Al-Ajmi, Hamad A. Al-Omairah, Mini Abraham and Prem N. Sharma. Prevalence of joint hypermobility in Kuwait. *International Journal of Rheumatic Diseases* 2017; 20 (8) 935–940
4. M Dughbaj, **D Shehab**, L Özçakar. Dynamic Ultrasound Imaging for Quadriceps Tendon Impingement in a Patient with Anterior Knee Pain. *Pain Medicine* 2017; 18(10), 2047–2048
5. Fawaz Y Zizith. Diaa Shehab, Khaled Al Jarallah, Olusegun Mojiminiyi, Renu Gupta, Raj Raghupathy. Circulatory pattern of cytokines, adipokines and Bone Markers in postmenopausal women with Low BMD.
6. Fawaz Y Zizith. Diaa Shehab, Khaled Al Jarallah, Renu Gupta and Raj Raghupathy. Circulatory levels of RANKL, OPG and Oxidative Stress Markers in Postmenopausal women with normal or low bone Mineral Density.
7. Generalised status epilepticus as a possible manifestation of COVID -19

### **Prof. Khalid Al Jarallah**

#### **Publications**

1. F. Azizieh, **K. Al-Jarallah**, D. Shehab, R. Gupta, Kamaludin D, Raj Raghupathy Patterns of circulatory and peripheral blood mononuclear cytokines in rheumatoid arthritis. *Rheumatol Int* 2017; 37:1727-1734
2. F. Azizieh, R. Reghupathy, D. Shehab, **K. Al-Jarallah**, R. Gupta. Cytokine Profiles in Osteoporosis suggest a Proresorptive Bias? *Menopause* 2017 Sep;24(9):1057-1064
3. **Khaled Al-Jarallah**, Diaa Shehab, Munirah T. Al-Jaser, Khaled M. Al-Azemi, Fatma F. Wais, Ahmed M. Al-Saleh, Abdulhadi S. Al-Ajmi, Hamad A. Al-Omairah, Mini Abraham and Prem N. Sharma. Prevalence of joint hypermobility in Kuwait. *International Journal of Rheumatic Diseases* 2017; 20 (8) 935–940
4. Fawaz Y Azizieh . Diaa Shehab, Khaled Al Jarallah, Olusegun Mojiminiyi, Renu Gupta, Raj Raghupathy. Circulatory pattern of cytokines, adipokines and Bone Markers in postmenopausal women with Low BMD.
5. Fawaz Y Azizieh . Diaa Shehab, Khaled Al Jarallah, Renu Gupta and Raj Raghupathy. Circulatory levels of RANKL, OPG and Oxidative Stress Markers in Postmenopausal women with normal or low bone Mineral Density.

## **Prof. Nasser Behbehani**

- 1 Ali F, Behbehani N, Alomair N, Taher A. Fatal and near-fatal thunderstorm asthma epidemic in a desert country. *Ann Thorac Med.* 2019 Apr-Jun;14(2):155-160.
  - 2 Alzaabi A, Idrees M, Behbehani N, Khaitov MR, Tunceli K, Urdaneta E, Awad N, Safwat M. Cross-sectional study on Asthma Insights and Management in the Gulf and Russia. *Allergy Asthma Proc.* 2018 Nov 16;39(6):430-436
  - 3 Tarraf H, Al-Jahdali H, Al Qaseer AH, Gjurovic A, Haouichat H, Khassawneh B, Mahboub B, Naghshin R, Montestruc F, Behbehani N. Asthma control in adults in the Middle East and North Africa: Results from the ESMAA study. *Respir Med.* 2018 May;138:64-73
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## **Prof. Iqbal Siddique:**

### **Publications**

#### **a. Book Chapter**

1. Siddique I. (2021) Endoscopic Management of Leak and Abscess Following Laparoscopic Sleeve Gastrectomy. In: Al-Sabah S, Aminian A, Angrisani L, Al Haddad E., Kow L (eds) *Laparoscopic Sleeve Gastrectomy*. Springer, Cham. [https://doi.org/10.1007/978-3-030-57373-7\\_43](https://doi.org/10.1007/978-3-030-57373-7_43).

#### **b. Papers published**

1. Essa S, Al-Attiyah R, Siddique I, Al-Nakib W. Modulation of Cellular Immune Subsets by Pegylated Interferon- $\alpha$  and Ribavirin therapy in Chronically Infected Hepatitis C patients. *Medical Principles and Practice.* doi: 10.1159/000511783
  2. Essa S, Siddique I, Al-Nakib W, Raghupathy R. Relevance of T helper Type 1, 2 and 17 Cytokine Profiles to the Outcome of Therapy in Hepatitis C Patients. *J Antivir Antiretrovir.* 12:193. DOI: 10.35248/1948-5964.20.12.193.
  3. Siddique I, Alazmi W, Al-Sabah SK. Endoscopic internal drainage by double pigtail stents in the management of laparoscopic sleeve gastrectomy leaks. *Surg Obes Relat Dis.* 2020;S1550-7289(20):30169-6.
-



## **Dr. Salem Al-Shemmari**

### **Publications:**

#### **Published:**

1. Ameen, R., Shemmari, S. Al, & Askar, M. (2018). Next-generation sequencing characterization of HLA in multi-generation families of Kuwaiti descent. *Human Immunology*. <https://doi.org/10.1016/j.humimm.2017.12.012>
2. Gerotziapas, G. T., Taher, A., Abdel-Razeq, H., AboElnazar, E., Spyropoulos, A. C., El Shemmari, S., ... Elalamy, I. (2017). A Predictive Score for Thrombosis Associated with Breast, Colorectal, Lung, or Ovarian Cancer: The Prospective COMPASS–Cancer-Associated Thrombosis Study. *The Oncologist*. <https://doi.org/10.1634/theoncologist.2016-0414>
3. Alrashid, M. H., Al-Serri, A., Alshemmari, S. H., Koshi, P., & Al-Bustan, S. A. (2016). Association of Genetic Polymorphisms in the VKORC1 and CYP2C9 Genes with Warfarin Dosage in a Group of Kuwaiti Individuals. *Molecular Diagnosis and Therapy*, 20(2). <https://doi.org/10.1007/s40291-016-0190-7>
4. Jabara, H. H., Boyden, S. E., Chou, J., Ramesh, N., Massaad, M. J., Benson, H., ... Geha, R. S. (2015). A missense mutation in TFRC, encoding transferrin receptor 1, causes combined immunodeficiency. *Nature Genetics*, 48(1). <https://doi.org/10.1038/ng.3465>

#### **Submitted**

1. Outcome of hematopoietic stem cell transplantation using busulfan for conditioning regimens in adult patients with hematologic malignant diseases. Kamal Matter, Salem Alshemmari, Reem Ameen et al
2. Primary Mediastinal Lymphoma In Kuwait. Salem Alshemmari, Abdulaziz Hamada, Rehab Alhagracy

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## **Dr. Waleed Alazami**

1. Siddique I, **Alazmi W**, Al-Ali J, Longenecker JC, Al-Fadli A, Hasan F, Memon A. *Scand J Gastroenterol*. 2014 Dec;49(12):1432-40. Demography and clinical course of ulcerative colitis in Arabs - a study based on the Montreal classification.
2. Siddique I, Al-Qabandi A, Al-Ali J, **Alazmi W**, Memon A, Mustafa AS, Junaid TA. *Gut Pathog*. 2014 Sep 26;6(1):41. Association between Helicobacter pylori genotypes and severity of chronic gastritis, peptic ulcer disease and gastric mucosal interleukin-8 levels: Evidence from a study in the Middle East.
3. **Alazmi W**, Al-Sabah S, Ali DA, Almazeedi S. *Surg Endosc*. 2014 Dec;28(12):3425-8. Treating sleeve gastrectomy leak with endoscopic stenting: the Kuwaiti experience and review of recent literature.

## **Dr. Jasem Al- Hashel**

### **a. Published research papers\*:**

1. Al-Hashel JY, Ismail II, Ibrahim M, John JK, Husain F, Kamel WA, Behbehani R, Ahmed SF. Demographics, Clinical Characteristics, and Management of Idiopathic Intracranial Hypertension in Kuwait: A Single-Center Experience. *Front Neurol.* 2020; 11:672, 1-8
2. Al-Hashel JY, Abdelnabi EA, Ibrahim Ismail I. Monomelic Amyotrophy (Hirayama Disease): A Rare Case Report and Literature Review. *Case Rep Neurol.* 2020; 12(3): 291-298.
3. Al-Hashel JY, Ismail II. Impact of coronavirus disease 2019 (COVID-19) pandemic on patients with migraine: a web-based survey study. *J Headache Pain.* 2020;21(1):115, 1-9
4. Ismail II, Ahmed SF, Al-Hashel JY, Abdelnabi EA, Alroughani R. Radiological characteristics of neuromyelitis optica spectrum disorder in Kuwait. *Clin Neurol Neurosurg.* 2020; 196:106047, 1-6
5. Ismail II, Massoud F, Kamel WA, Al-Hashel JY. Evaluation of clinical outcome and safety profile of edaravone in treatment of amyotrophic lateral sclerosis: a 72-week single-center experience. *Acta Neurol Belg.* 2020 Online ahead of print. PMID: 32651875
6. Shamov T, Al-Hashel JY, Rousseff RT. Fluoroscopic Epidural Steroid Injection: Pain Relief in Discogenic Sciatica versus Lumbar Spinal Stenosis. A Study on Middle Eastern Patients. *Acta Medica (Hradec Kralove).* 2020;63(2): 73-78
7. Ibrahim Ismail I, K John J, Ibrahim M, Al-Hashel JY. Paraneoplastic Limbic Encephalitis Associated with Anti-CV2/CRMP5 Antibodies Secondary to Thymoma in an Adolescent. *Case Rep Neurol.* 2020;12(1): 50-55.
8. Alashqar A, Shuaibi S, Ahmed SF, AlThufairi H, Owayed S, AlHamdan F, Alroughani R, Al-Hashel JY. Impact of Puberty in Girls on Prevalence of Primary Headache Disorder among Female Schoolchildren in Kuwait. *Front Neurol.* 2020; 11:594, 1-6
9. Al-Hashel JY, Alroughani R, Shauibi S, AlAshqar A, AlHamdan F, AlThufairi H, Owayed S, Ahmed SF. Impact of primary headache disorder on quality of life among school students in Kuwait. *J Headache Pain.* 2020; 21(1):80, 1-6
10. Kamel WA, Al-Hashel JY. LCIG in treatment of non-motor symptoms in advanced Parkinson's disease: Review of literature. *Brain Behav.* 2020; 10 (9): 1-17
11. Abdulsalam AJ, Alsairafy MA, Al-Hashel JY, Alkandari SA. Bilateral facial palsy after cosmetic filler injections: Is pain really the price of beauty? *Rev Neurol (Paris).* 2020; 176:634, 7-8

12. Ismail II, John JK, Al-Hashel JY. A Syndrome of Progressive Ataxia and Palatal Tremor (PAPT) in a Patient with Hypertrophic Olivary Degeneration. *Ann Indian Acad Neurol.* 2020; 23(3):381-383
13. Ismail II, Abokalawa FM, A Kamel W, Khan R, Al-Hashel JY. Association of Ramadan Fasting and Clinical Outcomes in Patients with Myasthenia Gravis. *JAMA Netw Open.* 2020; 3(4): E1-E5.
14. Shosha E, Al Asmi A, Nasim E, Inshasi J, Abdulla F, Al Malik Y, Althobaiti A, Alzawahmah M, Alnajashi HA, Binfalah M, AlHarbi A, Thubaiti IA, Ahmed SF, Al-Hashel J, Elyas M, Nandhagopal R, Gujjar A, Harbi TA, Towaijri GA, Alsharooqi IA, AlMaawi A, Al Khathaami AM, Alotaibi N, Nahrir S, Al Rasheed AA, Al Qahtani M, Alawi S, Hundallah K, Jumah M, Alroughani R; with the Guthy-Jackson Charitable Foundation International Clinical Consortium. Neuromyelitis optica spectrum disorders in Arabian Gulf (NMOAG); establishment and initial characterization of a patient registry. *Mult Scler Relat Disord.* 2020; 38:101448, 1-7
15. Al-Hashel JY, Rousseff RT, Khuraibet AJ, Rashad HM. Isolated asymptomatic atrophy of the extensor digitorum brevis muscle. *Muscle Nerve.* 2020; 61(1): E10-E11.
16. Al-Hashel JY, Kamel WA, Damier P, Abdulsalam AJ. An unusual initial presentation of Parkinson's disease: unilateral standing leg tremor. *Acta Neurol Belg.* 2020; 120(2):415-416.
17. Kamel WA, Al-Hashel JY, Abdulsalam AJ, Arabi M. Perampanel in refractory post-hypoxic myoclonus: see the difference! *Acta Neurol Belg.* 2020; 120(3):741-742.

### **Dr. Muath Alanbaei**

#### **Publications**

1. Muath Mohammed Alanbaei, Richard Haichin, Ian Malcolm. Pulmonary Embolus in Transit treated with Thrombolysis: Risk Stratification with Transthoracic Echocardiography. *Kuwait Medical Journal*, 37 (4): 292-294, 2005.
2. Alanbaei M, Jutras L, Therrien J, Marelli A. Iatrogenic cyanosis and clubbing: 25 years of chronic hypoxia after the repair of an atrial septal defect. *Can J Cardiol.* 23(11):901-3, 2007.
3. Muath Alanbaei, Suzanne Morin, Thao Huynh. A Complex Atheromatous Plaque of the Thoracic Aorta: The Role of Transesophageal Echocardiography. *Kuwait Medical Journal*, 39 (3): 268-270, 2007.
4. Amira Ahmad Abdulla Hay Al-Hay, Lulu Abushaban, Ali Al-Hassan, Muath Alanbaei, Velimir Stojanovic. Short and Long Term Outcomes of Repaired Complete Atrioventricular Septal Defects: Risk Factor Analysis. *Kuwait Medical Journal*; 42 (1): 38-45, 2010.
5. Mohammed Abdulaziz Al-Jarallah, Muath Mohammed Alanbaei. Persistent Left Sided Superior Vena Cava draining into the left Atrium with a large primum atrial septal defect. *Kuwait Medical Journal*; 43 (1): 53-56, 2011.
6. Thalib L, Zubaid M, Rashed W, Suwaidi JA, Almahmeed W, Alozairi E, Alanbaei M,

- Sulaiman K, Amin H, Al-Motarreb A. Impact of Diabetic Status on the Hyperglycemia Induced Adverse Risk of Short Term Outcomes in Hospitalized Patients with Acute Coronary Syndromes in the Middle East: Findings from the Gulf Registry of Acute Coronary Events (Gulf RACE). *Clin Med Res.* 9(1):32-7, 2011.
7. Al-Hay AA, Shaban LA, Al-Qbandi MA, Alanbaei M. Occlusion of Fontan fenestrations using Amplatzer septal occluder. *Int J Cardiovasc Imaging.* 27(4):483-90, 2011.
  8. Christus T, Shukkur AM, Rashdan I, Koshy T, Alanbaei M, Zubaid M, Hayat N, Alsayegh A. Coronary Artery Disease in Patients Aged 35 or less - A Different Beast? *Heart Views.* 12(1):7-11, 2011.
  9. Alanbaei M, Alsheikh-Ali AA, Aleinati T, Zubaid M, Ridha M, Alenezi F, Al-Mahmeed W, Sulaiman K, Al-Lawati J, Amin H, Al Suwaidi J, Al-Motarreb A. Clinical characteristics and outcomes of patients with acute coronary syndrome and prior coronary artery bypass grafting in a large middle eastern cohort. *Open Cardiovasc Med J.* 5:196-202, 2011.
  10. El-Menyar A, Zubaid M, Almahmeed W, Alanbaei M, Rashed W, Al Qahtani A, Singh R, Zubair S, Al Suwaidi J. Initial hospital pulse pressure and cardiovascular outcomes in acute coronary syndrome. *Arch Cardiovasc Dis.* 104 (8-9):435-43, 2011.
  11. Albaker O, Zubaid M, Alsheikh-Ali AA, Rashed W, Alanbaei M, Almahmeed W, Al-Shereiqi SZ, Sulaiman K, Qahtani AA, Suwaidi JA. Early Stroke following Acute Myocardial Infarction: Incidence, Predictors and Outcome in Six Middle-Eastern Countries. *Cerebrovasc Dis.* 32(5):471-482, 2011.
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#### **Dr. Suhail Al Shammari**

##### **Research papers accepted at international conferences:**

1. Abu S. Mustafa, Suhail Al Shammari, Arpita Bhattacharya. Phenotypes of vitamin d binding protein in healthy subjects of Kuwait. *BIOSPECTRUM 3rd International Conference on Biotechnology & Biological Sciences 8th to 10th August 2019.*

##### **Manuscripts (paper) under preparation:**

1. Suhail Al Shammari, Abu S. Mustafa, Arpita Chattopadhyay. Distribution of Vitamin D Binding Protein Gene Subtypes in Kuwaiti Population.
  2. Suhail Al Shammari, Abu S. Mustafa, Arpita Chattopadhyay. Role of Vitamin D Binding Protein Gene Polymorphisms in Vitamin D Deficiency in Healthy Kuwaiti Subjects.
- 

#### **Dr. Wael El- Reshaid**

##### **Publications:**

*In review:*

1. **El-Reshaid W**, Al-Disawy H, Nassef H, Alhelaly U.

Impact of first peritonitis on patient and technique survival in patients on peritoneal dialysis.

2. **El-Reshaid W**, El-Reshaid K, Al-Bader S, Ramadan A, Madda J. Complementary bodybuilding: A potential risk factor for permanent kidney disease. **Saudi J Kidney Dis Transpl.** 2018 Mar-Apr;29(2):326-331.
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**Dr. Fatima Ali:**

**Fatima Ali**, Naser Behbehani, Noura Alomair, and Assad Taher Fatal and near-fatal thunderstorm asthma epidemic in a desert country *Annals of Thoracic Medicine*, 2019 Apr-Jun; 14(2): 155–160

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**Dr. Babu Uthaman Chulliparambil**

Long term follow-up and outcomes of discrete subaortic stenosis in children. Abushaban L, **Uthaman B**, Selvan JP, Al Qbandi M, Sharma PN, Mariappa TV. *Ann Pediatr Card* 2018 (Accepted for publication)

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**Participation in Ministry/Government activities**

**Prof. Adnan Abal**

4. Consultant in Respiratory Medicine.
5. President IUTLD, Middle East Region.
6. Member of Scientific Committee of TB Bulletin of M.E. IUTLD.
7. Head of Chest Society, Kuwait Medical Association.
8. Head of Mortality and Morbidity Committee, Chest Diseases hospital.

**Prof. Mohammed Zubaid**

- Consultant Cardiologist - Mubarak hospital.
- Head of Cardiology division - Mubarak hospital
- Consultant Nephrologist - Amiri Hospital

**Prof. Dia Shehab**

- Head of Physical Medicine and Rehabilitation Unit, Mubarak Hospital, Kuwait
- Professor FOM, Kuwait University, Kuwait.
- Chairperson of the Department of Physical Medicine and Rehabilitation, Mubarak Al Kabeer Hospital.

- Chairperson, Physical Medicine and Rehabilitation Residency Program, Kuwait Institute for Medical Specialization (KIMS), Kuwait.
- Vice Dean Academic 2013 until September 2017.

## **Prof. Adel Al-Awadhi**

### **Membership to committees**

- Fellow of American College of Physician (FACP).
- Fellow of American College of Rheumatology (FACR).
- Fellow of Royal College of physicians & Surgeons of Ontario, Canada (FRCPC).
- Fellow of Canadian Rheumatism Association (CRA).
- Member of American Medical Association (AMA).
- Member of Pan Arab League against Rheumatism (PALAR).
- Member of Kuwait Medical Association (KMA).
- Member of Asian Pacific League against Rheumatism (APLAR).
- President of Kuwait Association of Rheumatology (KAR).

### **Teaching Activities**

#### **Teaching**

##### **Undergraduate**

- Teaching clinical sessions (bedside teaching), Problem based Learning (PBL), and Medical School Day (MSD) lectures of the musculoskeletal system for phase III Year 5 students.
- Teaching MSD lectures of the musculoskeletal system for phase III Year 6 students.
- Teaching MSD lectures of the musculoskeletal system for phase III Year 7 students.

##### **Postgraduate**

- Teaching KIMS Postgraduate Kuwaiti Board General Medicine residents.
- Teaching KIMS Postgraduate Ophthalmology Program residents.
- Teaching KIMS Postgraduate Dermatology Program residents.
- Teaching KIMS Postgraduate Rehab Program residents.
- Teaching KIMS Postgraduate Neurology Program residents.

#### **Hospital services**

- Looking after inpatients, outpatients and emergency patients.
- Covering consultations in hospital, out hospital and emergency.
- Doing in-hospital grand round
- Doing outpatient clinics

- Doing inter-hospital rheumatology meetings

**Prof. Nasser Behbehani**

- Consultant in Respiratory Medicine , Mubarak Hospital.
- Member, Committee for initiation of Kuwaiti Medical Licensing exam.
- Member – Self evaluation and accreditation committee.

**Prof. Khalid Al Jarallah**

- Consultant Internist, Mubarak Hospital, Kuwait.
- Professor, FOM, Kuwait University, Kuwait.
- Head of Rheumatology Unit, Jaber Hospital, MOH, Kuwait
- Founder & Vice President of Kuwait Human Relief Society.
- Member of Private Universities Committee.
- Appointment and Clinical Committee, Dept. of Medicine, FOM.
- Clinical Tutor Committee, Dept. of Medicine, FOM.
- Kuwait Patient Safety Alliance Committee.
- Kuwait League against Rheumatism and Auto immunity Association.
- Kuwait Red Crescent Society.
- Kuwait Patient Helping Fund Association.
- Kuwait Medical Association.

**Teaching Activities:**

 **Undergraduate Courses**

Fifth year (0580 504 & 0580 505)

Sixth year (0580 604 )

Seventh year (704/705 )

 **Graduate Courses**

Bedside teaching, Grand rounds, Clinical skills.

 **Postgraduate Courses:**

- Clinical teaching for resident in internal medicine programme (PGTP - Kuwait Board).

- Clinical teaching and didactic teaching for resident in Family Medicine Programme - Kuwait.
- Clinical teaching for resident in Clinical Immunology Programme - MRCPATH in Kuwait.
- Clinical teaching for resident in Internal Medicine & Rheumatology programme (KIMS programs and external programs).
- External Examiner for Postgraduate Internal Medicine Program – Arab Board, Saudi Arabia
- Examiner for Bachelor Degree in Medicine and Internal Medicine, Kuwait
- External Examiner for Internal Medicine MRCP (U.K.)

#### **Student advisor**

Mentor, The Kuwait Medical Student Association, FOM, Kuwait University

#### **Hospital services**

Head of Rheumatology Unit, Consultant Internist, Jaber Hospital, Kuwait.

#### **Prof. Mousa Khadadah**

- Consultant in Respiratory Medicine - Mubarak hospital.
- Head, Division of Respiratory Medicine, Mubarak Hospital.
- Coordinator of phase III Curriculum

#### **Prof. Nawaf Al-Mutairi**

- Head – Dermatology Division, Farwaniya Hospital.

#### **Total Undergraduate Teaching Hours:**

Clinical Teaching:	12h per week each semester
Lectures/Tutorial:	6 Hours
PBLs	9 Hours per semester 18h

#### **Postgraduate Teaching:**

Title of the Course(s):	KIMS, Post-Graduate Training Program Internal Medicine
Total No. of hours:	9 Hours per semester



## **Prof. Iqbal Siddique**

1. Full time clinical work at the Gastroenterology Department, Thunayan Al-Ghanim Gastroenterology Center, Al-Amiri Hospital, Kuwait, as a consultant gastroenterologist. This involves daily work at the hospital including outpatient clinics and consultations, inpatients ward rounds, performing gastrointestinal endoscopy procedures and providing emergency gastrointestinal endoscopy and consultation after working hours for all Ministry of Health hospitals in Kuwait.
2. Member of the Department Council of the Gastroenterology Department, Thunayan Al-Ghanim Gastroenterology Center, Al-Amiri Hospital, Kuwait.

### **Teaching Load:**

#### **Undergraduate Teaching                      Total Semester I (87h) Semester II 113h)**

Clinical Teaching  
Lectures/Tutorials  
PBL + MSD

#### **Postgraduate Teaching                      Total Hours (Semester I (12h) Semester II (12h)**

Clinical Teaching  
Lectures/Tutorials

#### **Graduate / Postgraduate Teaching:**

**24 Hours**

Title of the Course(s):

KIMS, Post-Graduate Training program  
Internal Medicine

Total No. of hours:

24 Hours

#### **Total Undergraduate Teaching Hours:**

**200 Hours**

Clinical Teaching:

90 Hours

Lectures/Tutorial:

94 Hours

PBLs

16 Hours

## **Dr. Babu Uthaman C.**

### **Hospital Service**

- Consultant Cardiologist, Department of Cardiology, Chest Diseases Hospital.
- Consultant, Department of Pediatric and Congenital Cardiology, Chest Diseases Hospital, Kuwait.
- Member, Utilization Committee, Chest Hospital, Kuwait.

### **Teaching Activities:**

- Teaching of undergraduate medical students.
- Teaching of postgraduate students in General Medicine.
- Teaching of postgraduate students in Pediatrics.
- Coordinator, 6<sup>th</sup> Year Clinical teaching, Chest Disease Hospital.

- Chairman 6<sup>th</sup> Year Examinations.
- Assistant Director, Pediatric Cardiology Fellowship , KIMS

**Total Undergraduate Teaching Hours:**

- Clinical Teaching - 284.5
- Lectures/Tutorial - 4.5
- PBLs - 8

**Graduate / Postgraduate Teaching**

- Title of the Course - Pediatric PG & Pediatric Cardiology Fellowship
- No. of hours - 206

**Dr. Suhail Al-Shammari**

- Consultant Neurologist - Mubarak Hospital
- Head of Neurology Division, Mubarak hospital
- Fellow of American Academy of Neurology.
- Representative of Associate Professors in Faculty Council.
- Examiner - Neurological board KIMS.
- Expert for Ministry of justice appeal Court cases.

**Hospital Service:**

- Provide comprehensive clinical service in Mubarak Al-Kabir Hospital including active in-patient and consultation services to other departments in hospital, as well as running 7 outpatient clinics, including two clinical neuro-immunology and multiple sclerosis clinics.
- Given intravenous thrombolytic therapy for acute stroke patients.
- Continue to provide the hospital with active electro-diagnostic tests such as multimodality evoked responses, EMG, EEG and Nerve Conduction Studies.
- CSF Electrophoresis service provided to hospitals in Kuwait to help in the diagnosis of inflammatory nervous disorders such as in multiple sclerosis.
- The Neurology Division has continued to provide the service outpatients evening clinics with 3 clinical clinics and another clinical clinic and EEG clinic.
- Botox Clinic has been established in Mubarak Al Kabeer Hospital for the first time and has already given botox treatment for patients with movement disorders and headache.

## **Teaching load 2019 – 2020:**

### **Graduate / Postgraduate Teaching**

Title of the Course(s) : Neurology residency program lectures & Internal medicine board review

Total No. of hours : 480 Hrs.

### **Total Undergraduate Teaching Hours:**

Clinical Teaching - 210

Lectures/Tutorial - 15

PBLs - 8

- Neuroscience course- fourth year
- Bedside teaching of clinical years particularly during sixth year rotations.
- MSDs: 5th, 6th and 7th years
- PBLs: 5th, 6th years
- Examinations: written, OSCE (5th, 6th, and 7th) and clinical final year examination.
- Committees: Examination committees: Co-Chair of 6th year

### **Dr. Salem Al-Shemmari**

- Consultant Hematologist - Amiri Hospital & KCCC.
- Coordinator, 5<sup>th</sup> year Hematology system Course.
- Member, Cancer Prevention Committee - MOH.
- Member, Organ Transplant Committee.
- Member of the committee that designed Yucaob Behbehani Bone Marrow Transplantation Center.
  - Member of the higher committee for treatment abroad.
  - Member of the committee to oversight the implementation of Ministry of Health contract with international universities to improve Cardiac and Cancer centers in Kuwait.
- Member to establish a cord blood bank in Kuwait.

### **Dr. Wael El-Reshaid**

#### **HOSPITAL SERVICE:**

- Consultant nephrologist and head of renal unit – Al-Sabah medical area.

- Head of Al-Nafisi Kidney Center.
- Working in full capacity to ensure “optimum” patient care for inpatients and consultation of renal service in Al-Sabah area.
- Development of KIMS accredited CME program for renal unit at Al-Nafisi center.
- Fulfillment of the of computerized data base system for Al-Nafisi dialysis center.
- Participation of the teaching rounds and seminars at Al-Sabah hospital
- Coverage of Al-Sabah area in terms of nephrology outpatient clinic and renal consultations.
- Fellow of the American Society of Nephrology (ASN)

**Teaching load 2019 – 2020:**

a) First semester:

- Clinical sessions: 60 hours
- PBL: 6 hours
- Didactic lectures: 2 hours

b) Second semester:

- Clinical sessions: 60 hours
- Didactic Lectures: 14 hours

c) Graduate teaching load (hospital based):

- Clinical sessions & rounds: 80 hours

**Student advisor:**

- 4 students have been assigned.

**Dr. Sana Al-Mutairi**

**HOSPITAL SERVICE:**

- -Head of the Respiratory unit Al-Amiri hospital, Ministry of Health, carrying both administrative and full clinical duties.
- Senior Consultant of Respiratory Medicine, carrying both inpatient and out-patient clinical care, including diagnostic procedures as Bronchoscopy both fiber-optics and Endoscopic Ultrasound, Sleep Studies both at the sleep laboratory and outside sleep lab at the general wards, Ventilatory care of sick patients with Respiratory Failure in the wards, supporting ventilator care for patients with chronic Ventilatory Failure on home ventilators, cardio-pulmonary exercise testing for patients with different co-morbidities and respiratory impairment, beside running the Pulmonary Function Laboratory
- Member of the Kuwait Thoracic Society.

- Member of the Saudi Thoracic Society.
- Member of the American Thoracic Society.

**Activities in MOH:**

- Head of COVID-19 Team II at al Amiri Hospital from March 2020 till August 2020.

**Teaching:**

**A-Under graduate:**

- Lecturer for 5<sup>th</sup> year students in respiratory course block teaching
- Representative of the Medical department at the Respiratory course module as well as Lecturer for 3<sup>th</sup> year students in respiratory course block teaching phase II
- PBL and Medical school days teaching for the Phase III, first, second and third year students in the respiratory block.
- Carrying related examinations of the current curriculum both clinical, written and OSCE.

**B- Post graduate teaching:**

- Supervising the Kuwait Board Respiratory Medicine Residents at Al-Amiri hospital , Respiratory Unit
- PGTP students teaching through their posting at the Respiratory unit at Al-Amiri hospital with one or two residents at a time each has an 8 weeks rotation in our respiratory unit.
- Participation in the postgraduate exams for PACES and PGTP examination

**Dr. Waleed Al-Azmi**

- Management of Gastroenterology & Hepatology Clinics.
- Management of Liver Transplant patients.
- Consultation for other speciality for management of patients with gastrointestinal diseases admitted to their services.
- Management of inpatient ward of Gastroenterology and Hepatology.
- Provide consultation regarding hepatobiliary diseases and indications for ERCP for patients in Amiri Hospital, Sabah Hospital (and its subspeciality hospitals), Adan Hospital, Jahra Hospital, Military Hospital, and KOC Hospital.
- Performance of endoscopic procedures referred from different hospitals, this includes :-

Upper endoscopy : diagnostic and therapeutic.

Colonoscopy : diagnostic and therapeutic.

Percutaneous endoscopic gastrostomy

Endoscopic retrograde cholangiopancreatogram: diagnostic and therapeutic.  
Capsule Endoscopy.  
Double balloon Enteroscopy.

- Attending on calls for acute gastrointestinal emergencies and performing emergency endoscopies for various cases which includes :-
  - Acute upper GI bleeding.
  - Acute lower GI bleeding.
  - Acute ascending cholangitis
  - Foreign body impaction / ingestion
  - Colonic pseudo-obstruction.
- Management of complicated hepatobiliary cases referred from around the country and applying the most appropriate endoscopic therapy.
- Chief coordinator of clinical tutors at Amiri Hospital.
- Clinical teaching of 5<sup>th</sup>, 7<sup>th</sup> year and phase II students.
- Examiner for the 5<sup>th</sup> and 7<sup>th</sup> year mock examination.
- Postgraduate students teaching of the Kuwaiti board (Medical & Surgical).
- Hospital Committees including Purchasing, infection control, accreditation and medical boards.

### **Teaching Load:**

(a) Undergraduate Teaching :

Didactic Teaching: 24 hours  
Clinical Teaching: 195 hours [Bedside / Tutorials]

(b) Graduate Teaching :

Clinical Teaching : 25 hours

KIMS – Kuwait Institute for Medical Specialization  
PGTP - Postgraduate Training Program.

### **Dr. Laila Qadan**

- Consultant Endocrinologist - Mubarak hospital.
- 

### **Dr. Muath Alanbaei**

- Full time work as an adult cardiologist & adult congenital heart disease specialist.

- Established an Adult Congenital Heart Disease Unit in Chest Disease Hospital
- Organized Daily Educational program for the year 2020 to date in Chest Hospital

**Teaching Load: - Undergraduate & Postgraduate**

First semester – 146

Second semester – 152

**Graduate / Postgraduate Teaching**

Title of the Course : Postgraduate Teaching

No. of hours :24 hours

**Student Advisor:**

- Elective coordinator of students from Kuwait & Overseas to Cardiology at chest hospital.

**Dr. Jasem Al-Hashel**

- Adult Neurologist and Headache specialist.
- Chairman of Neurology Department at Ibn Sina Hospital.
- Associate Professor of Neurology at the Kuwait University, Faculty of Medicine in Kuwait.
- Run the headache and the Botox Clinic at Mubarak and Ibn Sina hospitals.
- Chair of the Faculty of Neurology in Kuwait.
- Established the headache clinics in Kuwait.
- Established the epilepsy monitoring unit in Kuwait.
- Established the Botox Clinic at Mubarak Al-Kabeer Hospital.
- Member of the American Neurological Society.
- Member of the American Headache Society.
- Member of Kuwait Neurological Society.
- Member of Kuwait Medical Society.

**Postgraduate Teaching:**

I teach all of the following residents:

Internal Medicine residents (6 residents per year).

Neurology residents (2-3 residents per month).

Physiotherapy residents (1 residents per month).

### **Undergraduate Teaching:**

Phase III Students (4 groups per year), each group around 8-10 students)

PBL (2-3 groups per year ) around 15 hours per year

MSD: (5<sup>th</sup> year 6<sup>th</sup> year 7<sup>th</sup> year )

Total Teaching Load approximately: 450 hours.

### **Dr. Jaber Al-Ali**

#### **Teaching Load:**

#### **Graduate / Postgraduate Teaching:**

**20 Hours**

Title of the Course(s):

KIMS, Post-Graduate Training Program  
Internal Medicine

Total No. of hours:

20 Hours

#### **Total Undergraduate Teaching Hours:**

**200 Hours**

Clinical Teaching:

90 Hours

Lectures/Tutorial:

94 Hours

PBLs

16 Hours

### **Dr. Ebaa Al- Ozairi ( From Feb 2021)**

- Coordinator for 7th Yr. Pre-Internship

### **Dr. Fatima Ali**

- Phase II Clinical Skills coordinator (Year3 & 4), Yr 5 Exam Committee at Kuwait University – Department of Medicine, Poster committee, IPE committee, Accreditation Liason Officer- Medicine
- Year 5 Exam Coordinator at Kuwait University – Department of Medicine.

#### **Teaching Load:**

Faculty of Medicine

#### a) Undergraduate teaching

Lectures : 0

Tutorials/Seminars : 16

Practicals : 30

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Total teaching hours per given to  
Students per year : 2 hours/ week

Course coordinators : Phase II clinical skills.



### **Hospital Services:**

Outpatient clinic – 16 hours/week

In-patient consultation service – 1 hour/week

### **Contribution to committees in the Faculty / University:**

#### **Prof. Mohammed Zubaid**

- Member – Faculty Scientific Affairs Advisory Committee.
- Member – Appointment and clinical Tutor Committee.

#### **Prof. Mousa Khadadah**

- Member – Appointment and clinical Tutor Committee.
- Member – Scholarship Committee.

**Professor Kamel El-Reshaid ( Sabbatical Leave from June 2020- June 2021)**

**Professor Nasser Hayat ( Sabbatical Leave from Sept 2020- September 2021)**

#### **Prof. Dia Shehab**

- Member- Appointment and clinical Tutor Committee.

#### **Prof. Khalid Al Jarallah**

- Member in the University Advisory Committee for Promotion and Appointment.
- Member, Faculty Council, Faculty of Medicine, Kuwait University.

#### **Prof. Nawaf Al-Mutairi**

- Member – 7<sup>th</sup> Yr Department Examination Committee.
- Member- Scholarship Committee
- Member- DepartmentPurchase Committee

#### **Prof. Iqbal Siddiqui**

##### **1. Academic honors received**

- **2017 - Present** :Member, Appointments and Promotions Committee, Faculty of Public Health, Kuwait University.
- **2003- Present**: Clinical rotations coordinator, Faculty of Medicine, Kuwait University.
- **2003 - Present** Coordinator, Clinical Teaching, Department of Medicine, Al-Amiri Hospital, Kuwait.
- **1998 - Present** Member, Medical Council, Department of Medicine, Faculty of Medicine, Kuwait University.

#### **Dr. Suhail Al-Shammari**

- 6<sup>th</sup> Yr Examination committee
- Research committee member.
- Coordinator, neurology system course, Fifth Year, traditional curriculum.
- Examination committee, neuroscience block, Fourth year, traditional curriculum.
- Chair, Committee for the development of admission guidelines for the hearing impaired. Kuwait University.

#### **Dr. Babu Uthaman C.**

- Member – Chairman, 6<sup>th</sup> Year Examination Committee, Department of Medicine.
- Member – 7<sup>th</sup> Year Examination Committee, Department of Medicine.
- Examiner for M Sc thesis in Nuclear Medicine
- Member, Judging Committee, 24 HSC Poster conference

#### **Dr. Wael El-Reshaid**

- Member for the research advisory committee representing department of Medicine
- Member of the examination committee year 5.
- Member of curriculum integration committee of the department of medicine for preclinical and clinical years.

#### **Dr. Salem Al-Shemmari**

- Medical Oncology Chairmanship from 2008 till date.
- Member of the Higher Medical Board for Treatment Abroad (MOH).

- Member of the Higher Committee for Drug Purchase in MOH.
- Member- Department Purchase Committee

**Dr. Sana Al-Mutairi**

- Associate Professor – Department of Medicine.
- Head of the departmental Research committee – Department of Medicine, Faculty of Medicine, Kuwait University.
- Judge for the 23<sup>rd</sup> Health Science Center Poster Conference
- Member of the Examination Committee – Department of Medicine, Faculty of Medicine, Kuwait University.
- Member – 7<sup>th</sup> Year Examination Committee, Department of Medicine.

**Dr. Waleed M. Alazmi**

- 5<sup>th</sup> Yr Chairman-Examination Committee.
- Phase III Clinical Coordinator at Al Amiri Hospital.

**Dr. Jaber Al Ali:**

- Member- Examination committee for the 5<sup>th</sup> Yr

**Dr. Muath Alanbaei**

- Member – Examination committee for the 5<sup>th</sup> & 6<sup>th</sup> Yr students

**Dr. Jasem Al-Hashel**

- Chair of the seventh-year Medicine Exam 2020 – 2021

**Dr. Fatima Ali**

- Year 5 Exam Coordinator at Kuwait University – Department of Medicine.
- Phase II Clinical Skills Coordinator (Year 3& 4) at Kuwait University – Department of Medicine.
- HSC Poster Committee
- Liaison officer between Internal Medicine & KU Medical School Accreditation Committee
- Department Research Committee

**Dr. Tariq Bader Al Fahad:**

- Member- Examination committee 5<sup>th</sup> Yr

**Active participation in professional conferences:**

**Prof. Mohammad Zubaid**

- European Society of Cardiology Annual Meeting, August 31- Sept 4 , 2019, Paris , France

**Prof. Adel Al Awadhi**

- University of Barcelona musculoskeletal ultrasound master class workshop, Abudhabi, UAE, September 13-17, 2019.
- University of Barcelona musculoskeletal ultrasound master class workshop, Abudhabi, UAE, December 16-19, 2019.
- Olumiant Advisory Bord, SAS Hotel, Kuwait, January 30, 2020.
- Best of ACR, Dubai, UAE, February 7-8, 2020.
- EULAR E-Congress of Rheumatology conference, Frankfort, Germany, June 3-7, 2020.
- Attended many Webinars during Corona Pandemic, March – July 2020.
- Virtual Open Rheum 2020 Future Innovation, October 16-17, 2020.
- 22nd APLAR virtual congress, Japan, October 24-29, 2020.
- Attended many Webinars during Corona Pandemics as a chairman, speaker, and participant in the field of Rheumatology.

**Prof. Iqbal Siddique:**

- Abstract presentations in conferences

Siddique I, Al-Sabah S, Alazmi W. Endoscopic internal drainage by double pigtail stents in the management of laparoscopic sleeve gastrectomy leaks. Presented at the annual meeting of the American Gastroenterological Association (AGA), May 2020 and published in Gastrointestinal Endoscopy 91 (6), AB224-AB225.

- Attendance in conferences and courses

1. None.

**Prof. Nawaf Al- Mutairi**

- COVID- 19 with dermatologic manifestations and implications: An unfolding conundrum ( Virtual) .

**Dr. Laila Qadan**

- Clinical Endocrinology , March 21-25 , 2020 (Virtual)

### **Dr. Sana Al Mutairi**

- Attending the Annual American Thoracic Society Meeting Virtual Summer 2020
- European Respiratory Society International Conference, September 2020 Virtual due to COVID19 Pandemic
- Arranged and participated in the Webinar of MOH on COVID-19 July 2020
- Participated in the 25<sup>th</sup> HSC Poster Conference of with a poster of “Prevalence of Chronic obstructive Pulmonary Diseases in Kuwaiti Population “
- Participation in several Webinars on COVID-19 and Respiratory Diseases during year 2020-2021
- Attending the Gulf Thoracic Society Annual Meeting Virtual March 2021

### **Dr. Wael El-Reshaid**

- ASN Kidney week , Washington DC , 5<sup>th</sup> -10<sup>th</sup> November 2019

### **Dr. Suhail Al-Shammeri**

- American Academic Neurology Annual Meeting-2020 (Virtual)

### **Prof. Dia Shehab**

- Poster Day 2020 –
  - Shehab D, Ambardar R\*, Dughbaj M: Sonographic Evaluation of Laser Therapy Efficacy In Treatment Of Dupuytren's Contracture
  - Shehab D, \*AL Jarallah K, Ambardar R, Ozcakar L: Swollen shoulder in Rheumatoid Arthritis: (where) shall we inject?
- 11<sup>th</sup> Review conference /PMER – Toronto (Canada) – Feb 2020
- 14<sup>th</sup> ISPRM Conference March 4-6, 2020, Florida , USA –Poster presentation

### **Dr. Jasim AL- Hashel**

- Migraine trust conference - 8-11 October 2020 ( Virtual)

### **Dr. Tariq Bader Al Fahad**

- GCC Neurology Virtual meeting 2020 (Presenter)

### **Problems:**

### **Prof. Iqbal Siddique**

- Achieving balance in clinical, academic and administrative work.

### **Dr. Suhail Al-Shammeri**

- The increasing number of clinical year students in the recent years has become a challenge on the teaching responsibilities of the department. The problem is multiplied by the fact that the provision of facilities, e.g. hospital beds, teaching rooms, secretarial assistance etc remains static.
- Lack of a university teaching hospital is still remains a challenge for constructive teaching environment. the quality of clinical teaching is entirely dependent on the best conducive atmosphere to learning and teaching. This is possible only when the hospital focuses its outlook towards the primary objective of a teaching hospital, viz. student oriented. An average general hospital, where the focus is primarily patient care, cannot replace a teaching hospital. This is a serious deficiency in the faculty-teaching program.

### **Dr. Wael El Reshaid**

- Lack of adequate resources mainly man power and teaching assistants within the Department of Medicine.
- Lack of respected protected time for academic research. The current workload is simply more than the regular staff of the ministry of public health in addition to the academic workload.
- Lack of clinical research assistants who help with literature search, data entry and technical support for research tests.
- The slow process of research grants funding. In the world of fast-growing knowledge, scientific advances and research ideas has to be fulfilled in short time. If not acted upon immediately, they will soon become part of the past as other researchers from other parts of the world will certainly explore them. The current system of research grant approval is slow and simply it is just a delay in the path of promotion of university staff.

### **Future plan:**

#### **Dr. Babu Uthaman**

- Publish some of the research work and clinical material.

**Dr. Waleed Alazmi**

- Establish a collaborative work with other Universities.
- Establishment of gastrointestinal research group that would include researcher interested in that field from different specialities.
- Degree in medical education.

**Dr. Muath Alanbaei**

- Continue academic work and research and pursue my passion of teaching.
- To establish cardiovascular research center in Kuwait.

**Dr. Jasem Al-Hashel:**

- Plan to improve the epilepsy unit in Kuwait and also start surgical intervention for Parkinson patients. Also working hard to improve service for patients with multiple sclerosis and improve the research in the department of Neurology. Working hard to improve my research skills

## **MICROBIOLOGY**



## **INTRODUCTION**

### **Mission**

The Department of Microbiology has a broad range of objectives that include: i) quality undergraduate, graduate and post-graduate / post-doctoral teaching and training ii) basic and applied research of international standard especially relevant to Kuwait and Gulf countries, iii) high level of patient-centered care through the dedicated involvement of the academic staff, and iv) community services through overseeing the management of laboratory medicine in the Hospitals and Clinics of the Ministry of Health as well as direct patient management in these sectors.

Several Microbiology Reference Laboratories supported by the Ministry of Health are well-established in the Department, which provide high quality diagnostic services to all government hospitals in Kuwait. The Department also plays a leading role towards developing guidelines for optimal usage of antimicrobials keeping in view local epidemiology and resistance profiles of infectious agents. In addition, the Department is recognized as a WHO Collaborative Centre for HIV and WHO Collaborative Centre for Virus Reference and Research for the Eastern Mediterranean Region.

### **Teaching**

#### **1. Undergraduate Teaching**

The Department is currently involved in coordinating the Biology course for the Pre-professional year (Phase 1) of Health Sciences Students in Medicine, Dentistry and Pharmacy. Custom-designed lectures, practical, tutorials and workshops have been coordinated by the Department in conjunction with the Departments of Physiology, Biochemistry and Anatomy. In Phase II, the Department is actively participating in teaching of different Blocks/System modules, which include Foundation and Infection

and Immunology Blocks, and Cardio-Vascular System, Respiratory System, Endocrine System, Musculoskeletal System, Gastrointestinal System, Central Nervous System, Renal & Reproductive System and Blood modules. The quality of microbiology teaching is assessed by an examination process. All the questions are reviewed by the Departmental Examination Committee for content coverage, accuracy and quality before they are forwarded to Faculty coordinators for the respective modules. The Infection and Immunology course is being coordinated by the Microbiology Department. In addition, the Department offers 11 Elective Courses (Molecular microbiology in clinical practice, Climate Change, Infectious Disease and Ecology, Research Techniques in Microbiology, Health Care Associated Infections and Prevention, Emerging and Re-emerging viral disease, Tropical Infections and Travel Medicine, Antimicrobials and Chemotherapy, Recent Advances in Clinical Virology, Evaluation of a patient with allergies, Viral Infections in the Fetus and Neonates, Blood borne viruses and needle stick injury) to 4<sup>th</sup> Year medical students. In Phase III, the Department is actively contributing along with Departments of Surgery and Medicine in conducting multi-disciplinary seminars. The academic staff members of the Department continue to contribute significantly to the Problem-Based Learning (PBL) sessions included in different system modules. Furthermore, the clinical faculty members of the Department are involved in teaching of an elective course “Medical Microbiology Clinical” in Amiri, Farwaniya, KCCC, Maternity and Mubarak Hospitals.

## **2. Accreditation of Undergraduate Medical Education**

The Department is playing a pivotal role in getting the undergraduate medical education in the Faculty of Medicine accredited through an internationally recognized body. Several of its academic staff are members of the Accreditation Unit along with Prof. Abu Salim Mustafa as the Chairman of the Accreditation Unit,

overall Faculty Coordinator of the Committee responsible for the preparation of the Self Evaluation Report, and Chairman of Standard 9 “Continuous Renewal” of the Self Evaluation Report. The other members from the Department who are contributing to the accreditation process are Prof. Noura Al-Sweih (Acting Dean and Vice Dean for Academic and Students Affairs), Prof. Manuel John Albert (Chairman of Standard 4 “Students”), Prof. Jamshaid Iqbal (Director of Centre for Medical Education and Coordinator of the Committee responsible for the preparation of Videos for the virtual visit) and Dr. Mona Al-Ahmad (Chairperson of Standard 6 “Assessment of Students).

### **Graduate / Postgraduate Teaching**

The Department currently has 4 graduate students at the MSc level, and 1 student has graduated in 2020/2021. Furthermore, the Department continues to contribute substantially to the University-based MSc Molecular Biology program. We also coordinate a Faculty-based MSc “Basic Immunology Course” and contribute to the teaching of “Molecular Biology Course”. In addition, 1 student is pursuing PhD in Medical Microbiology and 5 students have graduated in 2020/2021.

In conjunction with the Kuwait Institute of Medical Specialization (KIMS) and the Ministry of Health, the Department is actively participating in Postgraduate Training Residency Program of Kuwaiti Board. Currently, there are 9 Residents in Clinical Microbiology and 5 in Clinical Virology. Thus, the Department is in the forefront of manpower development with the aim of providing adequate numbers of well-trained Kuwaiti professionals and academicians in various sub-disciplines of Microbiology.

### 3. Continuing Education Programs

Continuing Medical Education (CME) is essential for the maintenance of high academic and professional standards. The Department organizes and participates in several academic activities on a regular basis. These include Journal Clubs, Departmental and Faculty Seminars, Grand Rounds with Clinicians and Monthly Microbiology Meetings with Microbiologists from all of the Hospitals in Kuwait.

Furthermore, our academic staff members have contributed to various symposia organized by other Departments in the Faculty. They are individually listed under each Academic Staff contribution. Of special note is that these Workshops and Symposia have been increasingly popular and attendances from the Hospitals and Clinics are high, which is satisfying.

#### **Research**

The Department continues to maintain high standards of basic and applied research in different sub-disciplines of Microbiology. Currently, there are **22** funded and **17** unfunded projects that are being pursued by the academic staff. As in the past, the Department also excelled in research productivity by publishing **92** research papers in peer-reviewed and indexed journals, many of which have been published in quartile-one category journals. In addition, academic staff of the Department participated in a large number of International Conferences and presented their research work. The Department also contributed significantly in the 25<sup>th</sup> Health Sciences Centre Poster Conference; 16-18 March 2021 by presenting **25** posters. Three of the posters presented by graduate students received **Distinguished Graduate Research Awards (2 for MSc and 1 for PhD)**.

#### **Consultation and Diagnostic Services:**

The Department continues to offer quality laboratory diagnostic services and consultations to all teaching /training hospitals (Mubarak Al-Kabeer, Adan, Farwaniya, Sabah and Amiri Hospitals), Health Centers and Polyclinics in Kuwait. In recent years, there has been a significant expansion of these services to other hospitals which include Ibn Sina Hospital, Kuwait Cancer Control Centre, Organ Transplant Centre, Maternity Hospital, Infectious Disease Hospital, Farwaniya Hospital, Allergy Centre, Chest Disease Hospital, Jahra Hospital, Jaber Al-Ahmad Hospital, Armed Forces Hospital, KOC Hospital, Kuwait National Tuberculosis Reference Laboratory, and Kuwait National Quality Control Laboratory.

### **Future needs**

Over the years, the Department has significantly increased its academic activities and commitments. However, there has been no expansion in the space available to the Department since its inception. Consequently, our labs have become congested and we are not able to provide proper offices and laboratory spaces to new academic staff. A provision for additional space for the Department is requested as soon as possible.

## **FACULTY**

### **a. ACADEMIC STAFF**

#### **i. Faculty Members**

1. Abu Salim Mustafa, BSc (Hons), MSc, PhD, MRCPPath, FRCPath  
Chairman, Professor, Molecular Microbiology & Immunology
2. Manual J. Albert, BSc, MSc, PhD, MRCPPath, FRCPath, FAAM  
Professor, Microbiology
3. Raj Raghupathy, BSc (Hons), PhD, FRCPath  
Professor, Immunology
4. Suhail Ahmad, BSc(Hons), MSc, PhD  
Professor, Molecular Microbiology and  
Microbial Physiology

5. Eiman Mokaddas, BMSc, MB:ChB, MRCPATH, FRCPath  
Professor, Clinical Microbiology
6. Raja'a A. Al-Attiyah, BMSc, MSc, PhD  
Professor, Immunology
7. Noura Al-Sweih, BMSc, MB:ChB, MRCPATH, FRCPath  
Professor, Clinical Microbiology
8. Jamshaid Iqbal, MB:BS, MCPS, MSc, PhD, FRCPath  
Professor, Clinical and Immunoparasitology
9. Wafaa Jamal, BMSc, MB:BCh, MSc, DCH, MRCPATH, FRCPath,  
PhD, FIDSA  
Professor, Clinical Microbiology
10. Edet E. Udo, PhD, MASM, AIMLT  
Associate Professor, Microbial Genetics and  
Medical Microbiology
11. Wassim Chehadeh, BSc, MSc, PhD  
Associate Professor, Virology
12. Wadha A. M. Alfouzan, MB:BS, MSc., FRCPath  
Associate Professor, Clinical Microbiology
13. Mona S. Al Ahmad, B Med Sc; MB:BCh; ABIM; FRCPC (Canada)  
Associate Professor, Clinical Immunology
14. Hanady A. Amoudy, BSc, MSc, PhD, DIC  
Assistant Professor, Molecular Microbiology and Immunology
15. Sahar Essa, BSc., MSc., PhD.  
Assistant Professor, Virology
16. Nada M. Madi, BSc., MSc., PhD.  
Assistant Professor, Virology
17. Khalifa Albenwan, MSc. (Eco.), BMSc., MBBS, FRCPath (UK)  
Assistant Professor, Clinical Microbiology
18. Haya Al Tawalrah, B Med Sc, MB:BS, FRCPath (UK)  
Assistant Professor, Clinical Virology

#### **Joint appointments**

1. Charles Ezeamuzie, BSc, MSc, PhD (London), MIBiol, C.Biol (UK)  
Professor, Joint appointment with Pharmacology

2. Fouad Al-Hassan, MB:ChB, ABIM (Gastroenterology)  
Professor, Joint appointment with Medicine

**ii. Teaching Assistants**

1. Sora Asfar, BSc, MSc
2. Maryam Al-Badran, BSc, MSc, PhD
3. Ola Hassan Moghnai, BSc, MSc, PhD
4. Noura Al-Mutairi, BSc, MSc, PhD
5. Tahany Al Shemary, BSc, MSc
6. Eiman Sarkhoo, BSc., MSc.
7. Mohammad Asadullah Asadzadeh, BSc, MSc, PhD
8. Samar Boswihi, BSc, MSc, PhD
9. Marwa Al Khabaaz, BSc, MSc

**iii. Lab physicians – none**

**iv. Clinical Tutors – none**

**v. Visiting Professors - none**

**vi. M. Sc. Students**

1. Mahdi Ali Mohammad Redha - Graduated in 2020/2021
2. Noura Al Shammari
3. Rehab Zafer Al Ajmi
4. Fatma Ahmad Hegazi
5. Mais Amin Abdel Wahab

**vii. Ph.D. Students**

1. Mohammad Al Awadhi - Graduated in 2020/2021
2. Ghayda Al Hashem - Graduated in 2020/2021
3. Ola Hasan Moghnai - Graduated in 2020/2021
4. Noura Mishary Al Mutairi - Graduated in 2020/2021
5. Amani H. E. Al Fadli - Graduated in 2020/2021
6. Horeyah A. A. Sarkhouh

**b. SUPPORT STAFF**

**i. Research Associates/Assistants/Technicians**

None

**ii. Scientific Assistants**

1. Fatemah Bibi Khodakhast, BSc
2. Tina Verghese, BSc, MSc
3. Leena Joseph, BSc, MSc

**iii. Chief Technicians**

1. Shilpa Haridas, BSc

**Technicians**

1. Shiji George, BSc, Dip in Med Microbiol
2. Laila Abdulla Hussain, BSc
3. Anfal Ali Al-Adwani, BSc
4. Ameerah Mahdi Shtait Al Azmi, BSc, MSc
5. Aicha Abood Alissa, BSc
6. Sheikha Hamed Al Shammari, BSc
7. Ghayda El Refaiy, BSc, MSc, PhD
8. AlShaimma Ahmad A. Abdullah, BSc, MSc

**iv. Secretaries**

1. Arefa N. Nizami, B. Com

**c. STAFFING CHANGES**

**i. New staff appointed**

**Academic Staff**

None

**Technicians**

None

**ii. Promotion**

None

**iii. Staff who left the Department**

**Academic Staff**

1. Widad Al-Nakib, MA, FRSTM & H, MRCPPath, FRCPath, PhD, FIDSA  
Professor, Clinical Virology



### **Chief Technologists**

1. Amani Al-Shazly, BSc
2. Dina M. Abd El Khalik, BSc

### **Research Associates/Assistants/Technicians**

#### **Scientific Assistants**

1. Fatima H. A. Galil, BSc
2. Nahid F. Gadallah, BSc
3. Shabeera Syed Rahim, BSc, MSc
4. Soumya Mary Verghese, BSc, MSc
5. Susan Silpi Kurein, BSc, MSc
6. Osman Musa Al Noor, BSc
7. Anusha William Alphonsa - MPhil in Biotechnology

### **ADMINISTRATIVE RESPONSIBILITIES AT THE FACULTY/ HSC LEVEL**

The following academic staff of the Department of Microbiology are playing major administrative roles in the smooth functioning of the Faculty of Medicine.

Prof. Noura Al-Sweih      Acting Dean and Vice Dean for Academic and Student Affairs

Prof. Eiman Mokaddas      Vice Dean Research and Postgraduate Studies

Prof Abu Salim Mustafa      Chairman Academic Accreditation Unit

Prof. Raj Raghupathy      Chief Editor Medical Principles and Practice

Prof. Jamshaid Iqbal      Director of the Center for Medical Education  
Chairman Phase II Examination Committee  
Chairman Phase I & Phase II Strategic Curriculum Planning

Prof. Suhail Ahmad      Chairman Phase I Examination committee

Prof. Wafaa Jamal      Director of Research Core Facility

Dr. Wadha Al-Fouzan      Chairperson Health & Safety Committee

Dr. Nada Madi      Director of the Centre for Research Support and Conferences

## TEACHING ACTIVITIES

### Faculty of Medicine

#### a. Undergraduate teaching

##### I. Phase I (Pre Professional Biology Course)

**Biology Course Coordinator:** Prof. A. S. Mustafa

Courses	Lectures (Hours)	Tutorial/Seminar/Workshops (Hours)	Practical (Hours)
Biology	62	198	72

Teachers: A. S. Mustafa, S. Ahmad, H. Amoudy

(Total teaching hours to students per year = 332 hours)

(No. of students in 2020/21 = 254)

##### II. Phase II

Course	Lecture (Hours)	Tutorials (Hours)	Practical (Hours)	Learning Topics (Hours)
Foundation Block II	44		2	-
Endocrine System	2	4	-	-
Musculoskeletal	4	4	-	-
CNS System	4		-	-
GI System	13	-	-	-
Infection & Immunity	47	-	2	-
Respiratory System	33	-	-	-
Renal & Reproductive System	24.5	-	-	-
Blood & Lymph	-	4	2	-
Cardiovascular System	2	-	-	-

#### Phase II Course Coordinators / Representatives / Teachers/ Facilitators:

A. S. Mustafa, M. J. Albert, R. Raghupathy, S. Ahmad, E. Mokaddas, N. Al-Sweih, J. Iqbal, E. Udo, W. Chehadeh, W. Jamal, H. Amoudy, W. Alfouzan, S. Essa, M. Al Ahmad, N. Madi, K. Albenwan, H. Al-Tawalah.

#### I) Teachers/ PBL Facilitators (1 PBL = 3.5 hrs)/ Week

Course	Period	PBL Sessions
Blood	4 weeks	Dr. Sahar Essa Dr. Nada Madi
Cardiovascular	7 weeks	Dr. Khalifa Al Benwan

Nervous	8 weeks	Prof. Suhail Ahmad Dr. Khalifa Al-Benwan
Digestive	7 weeks	Prof. Manuel John Albert Prof. Wafaa Jamal Dr. Nada Madi
Renal	5 weeks	--
MSK	6 weeks	--
Respiratory	6 weeks	Prof. Suhail Ahmad Dr. Edet Udo, Dr Mona Al-Ahmad
Reproductive & Breast	5 weeks	Dr. Edet Udo Dr. Wassim Chehadeh
Endocrine	5 weeks	Dr. Wassim Chehadeh Dr. Wadha Al Fouzan Dr. Sahar Essa
FB Practice + I & I	4 weeks	Prof. Abu Salim Mustafa Prof. Manuel John Albert Dr. Edet Udo

**Participation in PBL Sessions (Total hours) : 456 hours**

**II) Clinical Skills Training Sessions (Clinical Teaching) (1 session = 4 hrs)  
Clinical Bed-side Training sessions (1 session = 2 hrs)\***

<b>Clinical Skills Training Sessions</b>	
Prof. Noura Al-Sweih	20
Prof. Jamshaid Iqbal	101
Dr. Mona Al-Ahmad	20

**Participation in Clinical Skills Sessions : 140 hours**

**III) Electives Courses Offered (2 CH)**

<b>Course</b>	<b>Lecture (Hours)</b>	<b>Practical (Hours)</b>
Climate change, Infectious disease and ecology	24	-
Healthcare associated infections and prevention	20	-
Emerging and Reemerging Viral Diseases	14	2
Antimicrobials and Chemotherapy	20	15
Evaluation of a patient with Allergies	45	35
Viral infections in the Fetus and Neonates	19	4
Blood borne Viruses and Needle Stick Injury	-	75
Recent advances in Clinical Virology	12	18

## Electives 5<sup>th</sup> Year Medical Student

Course	Lecture (Hours)	Practical (Hours)
Medical Microbiology Clinical (Farwaniya Hospital)		315
Medical Microbiology Clinical (KCCC Hospital)		375
Medical Microbiology Clinical (Mubarak Hospital)		45
Medical Microbiology Clinical (Maternity Hospital)		20
Medical Microbiology Clinical (Amiri Hospital)		24

**Participation in Electives Sessions (Total hours): 779 hours**

### IV) Phase III

Course	Lecture (Hours)	Tutorials (Hours)	MSD (Hours)
Respiratory	1	-	1
Musculoskeletal	4	4	-
Obs. & Gynae.	8	-	-
Surgery	-	-	16
CNS	-	-	2
G.I. System	-	-	2
Skin	-	4	2
Medicine	-	-	2
Rheumatology	-	3	2

#### a. Total Undergraduate Teaching (hours):

Phase I	}	1296
Phase II		
Phase III		
(Lectures+Practicals+Tutorials+PBL)		

Electives	1082
Clinical Skills/ Bedside Training	140
OSCE/OSPE	85
	2603 hrs

#### b. Graduate Teaching

##### 1. MSc

No. of courses      13 + Thesis  
 No. of credit hours    40 CH

##### 2. PhD

No. of courses      13 + Dissertation  
 No. of credit hours    33 CH

**Course Coordinators:**

A. S. Mustafa, M. J. Albert, R. Raghupathy, S. Ahmad, N. Al-Sweih, J. Iqbal, W. Jamal, E. E. Udo, W. Chehadeh, W. Al Fouzan, M. Al Ahmad, H. Amoudy

**Teachers:**

A. S. Mustafa, M. J. Albert, R. Raghupathy, R. Al-Attiyah, N. Al-Sweih, S. Ahmad, E. Mokaddas, J. Iqbal, W. Jamal, E. E. Udo, W. Chehadeh, H. Amoudy, W. Al Fouzan, S. Essa, M. Al Ahmad, N. Madi

**Thesis supervisor / Co-supervisors:**

V. O. Rotimi, A. S. Mustafa, M. J. Albert, S. Ahmad, E. Mokaddas, N. Al-Sweih, J. Iqbal, W. Jamal, W. Chehadeh, W. Al Fouzan

**c. Postgraduate Training (KIMS)**

Course	Lecture (Hours)	Tutorial/Seminar/Practical (Hours)
KIMS - Clinical Microbiology	430	1361

(Total No. of hours contributed per year 2349 hours)

**Kuwait Board (Clinical Microbiology)**

**Chairman:** E. Mokaddas

**Program Director:** E. Mokaddas

**Tutors:**

A. S. Mustafa, M. J. Albert, S. Ahmad, E. Mokaddas, N. Al-Sweih, J. Iqbal, W. Jamal, E.E. Udo, W. Al Fouzan, M. Al Ahmad

**Kuwait Board (Virology)**

**Chairman:** Haya Al Tawalrah

**Program Director:** S. Al Qabandi

**Tutors:**

W. Chehadeh, J. Iqbal, A. S. Mustafa, W. Jamal, S. Essa, N. Madi

**Other Faculties****Faculty of Allied Health Sciences and Nursing****a. Undergraduate Teaching****Mycology**

**Course coordinator:** Dr. Wadha Al-Fouzan

Course	Lecture	Tutorial/Seminar	Practical
Med Microbiology Course No.351	9		9

(Total teaching hours to students per year 18 hours)

**b. Faculty of Pharmacy**

**Undergraduate Teaching**

**1. PharmaD (1110-662 Advance Pharmacotherapy III)**

**Teachers:** W. Alfouzan

Course	Lecture (Hours)	Tutorial/Seminar/Practical (Hours)	Thesis(CH) (Hours)
PharmaD	12	2	-

(Total teaching hours to students per year 14 hours)

**2. Pathophysiology**

**Course coordinators:** H. Amoudy

**Teachers:** A. S. Mustafa, H. Amoudy

Course	Lecture	Tutorial/Seminar	Practical
Pathophysiology 1140-331	10		

(Total teaching hours to students per year 10 hours)

**c. University-based Graduate Program**

**MSc Molecular Biology**

**Course coordinators:** A. S. Mustafa, H Amoudy

**Teachers:**

A. S. Mustafa, S. Ahmad, R. Raghupathy, J. Iqbal, W. Chehadeh,  
H. Amoudy

**d. University-based Graduate Course in Scientific Writing and Communication Skills**

**Course coordinator:** R. Raghupathy

**Teachers:**

R. Raghupathy, S. Ahmad, S. Al-Sabah, A. El-Hashim, W. Al-Ali, E. Tolma

**e Faculty based Molecular Biology Course****Teachers:**

A. S. Mustafa, S. Ahmad

**f. Faculty based Basic Immunology Course**

**Coordinator:** R. Raghupathy

**Teachers:**

R. Raghupathy, Mona Al-Ahmad

**RESEARCH PROJECTS****Funded**

1. Whole genome molecular epidemiology of *Acinetobacter baumannii* colonizing the gut of patients in an adult intensive care unit (ICU) of a Kuwaiti teaching hospital.  
Project no.: PR17-13MI-03  
Budget: 29,292 KD  
Status: Ongoing (May 2019-June 2021)  
Principal Investigator: Prof. MJ Albert  
Co-investigator: Seemann T, Schultz M, Rotimi VO & Al Hashem G  
Funding: KFAS
2. Antimicrobial resistance and virulence of *Escherichia coli* cultured from sewage in Kuwait.  
Project no.: YM04/19 (MSc project)  
Budget: 1956 KD  
Status: Ongoing (November 2020-May 2022)  
Principal Investigator: Prof. MJ Albert  
Co-investigator: Prof. N. Al Sweih  
Contributor: Madhi A Redha (Co-Researcher) (MSc student)  
Funding: Kuwait University Research Sector
3. Occurrence of resistance to fluoroquinolones and second-line injectable agents among multidrug-resistant *Mycobacterium tuberculosis* isolates in Kuwait.  
Project no.: MI01/18  
Status: Completed  
Principal Investigator: Prof. Suhail Ahmad  
Co-investigator: Prof. Eiman Mokaddas

4. Molecular characterization of amphotericin B-resistant *Candida kefyr* isolates in Kuwait.  
 Project no.: MI02/20  
 Status: Ongoing  
 Principal Investigator: Prof. Suhail Ahmad  
 Co-investigator: Dr. Wadha Alfouzan  
 Prof. Jacques F. Meis
  
5. Molecular detection, characterization and epidemiology of drug-susceptible and drug-resistant *Mycobacterium tuberculosis* isolates in Kuwait.  
 Project no.: YM 08/14 (PhD project)  
 Status: Completed  
 Principal Investigator: Prof. Suhail Ahmad  
 Co-investigator: Prof. Eiman Mokaddas  
 Noura Al Mutairi (Co-Researcher) (PhD student)
  
6. Immunophenotyping and antiviral gene expression of innate immune response during SARS-CoV-2 infection.  
 Project Code: CORONA PROP 141  
 Budget: KD 20000/-  
 Starting date: 2020  
 Status: Ongoing  
 Principal Investigator: Prof. Raja'a Al-Attiyah  
 Co-investigator: Prof. Abu Salim Mustafa, Dr. Wassim Chehadeh, Dr. Hussain Safar, Dr. Meshal Beidas
  
7. Determining prevalence and associated risk factors of *Taenia solium* infection and cysticercosis in Kuwait  
 Project no.: YM 06/14 (PhD project)  
 Status: Completed  
 Principal Investigator: Prof. J. Iqbal  
 Co-investigator: Prof. Suhail Ahmad  
 Mr. Mohammad AlAwadhi (Co-Researcher) (PhD student)
  
8. The prevalence and molecular characterization of Carbapenem resistance *Enterobacteriaceae* in healthy community population of Kuwait  
 Project no.: YM07/15 (PhD Project)  
 Budget: 18,000 KD  
 Status: Completed  
 Principal Investigator: Prof. Noura Al Sweih  
 Co-Investigator: Prof. Vincent Rotimi  
 Ola Hasan Moghnai (Co-Researcher) (PhD student)



9. The Underworld's Project: A smart Sewage Infrastructure for Kuwait.  
 Project no.: P315-75ev-01  
 Status: Completed  
 Principal Investigator: Prof. Noura Al Sweih  
 Co-Investigator: Prof M J Albert  
 By Kuwait University Research administration with KEFAS and KISR.
  
10. Molecular characterization of methicillin-susceptible *Staphylococcus aureus* (MRSA) in Kuwait hospitals.  
 Project no.: PR17-13MI-02  
 Status: Ongoing  
 Principal Investigator: Dr Edet E Udo  
 Co-Investigator: Dr. Wadha AlFouzan  
 Dr. Samar Boswihi  
 Funding: KFAS
  
11. Evaluation of Novel Oxazolidinones as potential antimicrobial agents.  
 Project no.: PC01/05  
 Status: Ongoing  
 Principal Investigator: Dr. O. A. Philips  
 Co-Investigator: Dr. E. E. Udo  
 Funding: Kuwait University
  
12. Evaluation of CODEHOP-mediate PCR in HIV-1 genotyping and drug resistance testing.  
 Project no.: YM01/19  
 Status: Ongoing  
 Principal Investigator: Dr. Wassim Chehadeh  
 Co-Researcher: HA Sarkhouh  
 Funding: College of Graduate Studies and Research Administration
  
13. Prevalence of SARS-CoV-2 among migrant workers in Kuwait  
 Project no.: CORONAPROP49  
 Status: Ongoing  
 Principal Investigator: Dr. W Al-Ali  
 Co-Investigators: Dr H Bastaki, Dr J Longenecker, Dr S Aljunid, Dr M AlSeaidan, Dr Wassim Chehadeh, Dr H Vainio  
 Funding: Ministry of Health, KFAS
  
14. The prevalence of multidrug resistance *Acinetobacter baumannii* among neonates at Farwaniya hospital in Kuwait.  
 Project no.: YM09/19 (MSc Project)  
 Status: Ongoing

- Principal Investigator: Dr. Wadha Al-Fouzan  
 Co-investigator: Prof. Abu Salim Mustafa  
 Contributor: Rehab Z Al Ajmi (Co-Researcher) (MSc student)
15. Molecular characterization of SARS-CoV-2 infection in Kuwait.  
 Project no.: CRONAPROP141  
 Status: Ongoing  
 Principal Investigator: Dr. Nada Madi  
 Co-Investigators: Dr. Wassim Chehadeh, Prof. A.S. Mustafa, Dr. H. Safar, Dr M. Asadzadeh  
 Contributors: Dr. Mohammed Sadeq, Dr .Ebaa Alawadhi, Dr. Ali Al-Muhaini  
 Funding: KFAS
16. The influence of neutrophils on the production of cytokines associated with different Th cell subsets in chronic HCV-infected patients.  
 Project no.: MI 02/16  
 Budget : KD 28,750  
 Status: Completed (February 2018 – January 2021)  
 Principal Investigator: Dr. Sahar Essa  
 Co-investigator(s): Prof. Raj Raghupathy  
 Prof. Iqbal Siddique  
 Funding Agency: Kuwait University Research Sector
17. Early screening of cervical cancer precursor lesions by a quantitative methylation-specific PCR in women infected with high-risk HPV: a retrospective study.  
 Project no.: YN 01/21  
 Status: Ongoing  
 Principal Investigator: Dr Rana Al-Awadi  
 Co-Investigator: Dr Wassim Chehadeh  
 Co-Researcher: Moody AlRoomy  
 Funding: College of Graduate Studies  
 Research Administration
18. Improving SARS-COV-2 detection rate using stool sampling as part of multi-organs system sampling: a prospective cohort study  
 Project no.: CORONAPROP  
 Status: Completed  
 Principal Investigator: Dr Ahmed Al-Khamis  
 Co-Investigators: Dr Wassim Chehadeh, Dr. S Alsabah  
 Dr. A AlmuHaini, Dr. M Algonaim  
 Funding: KFAS

19. The influence of SARS-COV-2 on the production of cytokines by peripheral blood mononuclear cells and neutrophils in covid-19 patients.  
 Project no.: PN20-13MI-08 (Corona 43)  
 Budget: KD 17100/-  
 Status: Ongoing (January 2021-June 2021)  
 Principle Investigator: Dr. Sahar Essa  
 Co-investigator(s): Prof. Raja Raghupathy, Dr. Mohammed Shamsah
20. Cellular immune responses to major human cytomegalovirus antigens on mice model.  
 Project no.: MI01/20  
 Budget: KD 4000/-  
 Status: Ongoing (October 2020-October 2021)  
 Principle Investigator: Dr. Sahar Essa  
 Funding institution: Research Sector, Kuwait University
21. Whole genome sequencing and analysis of human respiratory syncytial viruses from Kuwait using next-generation sequencer  
 Project no.: MI 01/19  
 Status: Ongoing  
 Principle Investigator: Dr .Nada Madi  
 Co-Investigators: Dr Mohammed Sadeq, Mubarak Al-Kabeer Hospital, MOH  
 Dr. Fajer Al-Assaf, Al-Farwaniya Hospital, MOH  
 Funding: Kuwait University
22. Severe asthma Registry in Kuwait  
 Principle Investigator: Dr .Mona Al-Ahmad  
 Status: Ongoing (2020-2022)  
 Funding institution: KFAS

### Unfunded

1. ESAT6-like proteins of *Mycobacterium tuberculosis*: diagnostic and vaccine relevance  
 Status: Ongoing  
 Principal investigator: Prof. AS Mustafa
2. The potential of delayed type hypersensitivity-inducing *Mycobacterium tuberculosis*-specific antigens in the diagnosis of tuberculosis  
 Status: Ongoing  
 Principal investigator: Prof. AS Mustafa
3. Recombinant antigens and synthetic peptides to characterize *Mycobacterium tuberculosis* proteins for immunological reactivity

- Status: Completed  
Principal investigator: Prof. AS Mustafa
4. Immunological characterization of proteins expressed by genes located in *Mycobacterium tuberculosis*-specific genomic regions encoding the ESAT6-like proteins  
Status: Completed  
Principal investigator: Prof. AS Mustafa
5. BCG as a vector for novel recombinant vaccines against infectious diseases and cancers  
Status: Completed  
Principal investigator: Prof. AS Mustafa
6. COVID-19 vaccine development: what lessons can we learn from TB?  
Status: Completed  
Co- investigator: Prof. AS Mustafa
7. An overview of the development of new vaccines for tuberculosis.  
Status: Completed  
Co- investigator: Prof. AS Mustafa
8. *Mycobacterium tuberculosis*-specific antigens as subunit vaccines against tuberculosis  
Status: Completed  
Principal investigator: Prof. AS Mustafa
9. Non-typhoid *Salmonella bacteremia* in Kuwait  
Status: Ongoing  
Principal Investigator: Prof. MJ Albert  
Co-investigators: Dr. W Alfouzan, Dr. K Al Obaid
10. Evaluation of a new molecular test for the detection of resistance markers from significant bacterial isolates in a tertiary hospital in Kuwait  
Status: Ongoing  
Principal Investigator: Prof. Eiman Mokaddas  
Co-investigators: Dr. Aneesa Abdulla, Dr. Ahmed Behbehani  
Dr. Shama Shatti
11. *In vitro* and *in vivo* detection of chloroquine and mefloquine resistant *Plasmodium falciparum* infection in Kuwait  
Status: Ongoing  
Principal Investigator: Prof. J. Iqbal
12. A study of antibiotic susceptibility and serotypes of *Salmonella* species among a 14-year collection of isolates”

- Status: Ongoing  
Principal investigator: Prof. Wafaa Jamal.  
Co-investigators: Prof. MJ Albert, Prof. VO Rotimi
13. Prevalence and risk factor of food allergies in Kuwait  
Status: Ongoing  
Principal investigator: Dr. Mona S. Al Ahmad
14. Cellular immune responses to Parainfluenza virus antigens  
Status: Ongoing  
Principle Investigator: Dr. Sahar Essa  
Co-investigators: Prof. Raja Raghupathy, Prof. John Albert
15. Detection of viral nucleic acid for CMV, EBV, and HSV in PBMC and neutrophils  
Status: Ongoing  
Principle Investigator: Dr. Sahar Essa  
Co-investigators: Dr. Wassim Chehadeh, Dr. Nada Madi
16. Dynamic Profile of SARS-CoV-2 RT-PCR among Patients with COVID-19 in Kuwait  
Status: Completed  
Principal investigator: Dr. Nada Madi  
Co-Investigators: Dr Ebaa` Al-Awadhi, Sheikh Jaber Al Ahmad Al Jaber Al Sabah Hospital, MOH, Dr. Fajer Al-Assaf, Al-Farwaniya Hospital, MOH
17. Genetic characterization of spike gene of SARS-CoV-2 circulating in Kuwait  
Status: Ongoing  
Principle Investigator: Dr. Nada Madi  
Co-investigators: Dr Mohammed Sadeq, Mubarak Al-Kabeer Hospital, MOH  
Dr. Sahar Essa

## PUBLICATIONS

(Only published / accepted for publication articles are included)

1. **Mustafa AS** (2021). ESAT6-like proteins of *Mycobacterium tuberculosis*: diagnostic and vaccine relevance. Intern J Mycobacteriol, in press.
2. **Mustafa AS** (2021). The potential of delayed type hypersensitivity-inducing *Mycobacterium tuberculosis*-specific antigens in the diagnosis of tuberculosis. Mycobact Dis 11:2.
3. **Mustafa AS** (2021). Recombinant antigens and synthetic peptides to characterize *Mycobacterium tuberculosis* proteins for immunological reactivity. Mycobact Dis 11:2.

4. **Mustafa AS** (2021). Immunological characterization of proteins expressed by genes located in *Mycobacterium tuberculosis*-specific genomic regions encoding the ESAT6-like proteins. *Vaccines (Basel)* 9:27.
5. **Mustafa AS** (2020). BCG as a vector for novel recombinant vaccines against infectious diseases and cancers. *Vaccines (Basel)* 8:736.
6. Safar HA, **Mustafa AS**, McHugh TD (2020). COVID-19 vaccine development: what lessons can we learn from TB? *Ann Clin Microbiol Antimicrob.* 19:56.
7. Whitlow E, **Mustafa AS**, Hanif SNM (2020). An overview of the development of new vaccines for tuberculosis. *Vaccines (Basel)* 8:586.
8. **Mustafa AS** (2020). *Mycobacterium tuberculosis*-specific antigens as subunit vaccines against tuberculosis. *Glob J Med Med Sci* 8: 1-4.
9. Safar H, **Mustafa AS**, **Amoudy H**, El-Hashim A (2020). *Mycobacterium tuberculosis*-specific antigen Rv3619c effectively alleviates allergic asthma in mice. *Front Pharmacol* 11:532199
10. **Mustafa AS** (2020). Vaccine potential of mycobacterial antigens against asthma. *Med Princ Pract.* 29: 404-41.
11. **Mustafa AS** (2020). Microbial contaminants in drinking water collected from different regions of Kuwait. *International Journal of Biological and Ecological Engineering* 14: 135-139.
12. Safar H, **Mustafa AS**, **Amoudy H**, El-Hashim A (2020). The effect of adjuvants and delivery systems on Th1, Th2, Th17 and Treg cytokine responses in mice immunized with *Mycobacterium tuberculosis*-specific proteins. *PLOS ONE* 15:e0228381.
13. Al-Hashem G, Rotimi VO, **Albert MJ** (2021). Antimicrobial resistance of serial isolates of *Acinetobacter baumannii* colonizing the rectum of adult intensive care unit patients in a teaching hospital in Kuwait. *Microbial Drug Resistance*; 27: 64-72.
14. **Albert MJ**, Purohit P, Poirel L, Carter G, Bulach D (2021). Diarrhea in an infant due to *Shigella flexneri* 1 carrying multiple cephalosporinase-encoding genes. *Gut Pathogens*; 13: 18.
15. Plummer E, Bulach D, Carter G, **Albert MJ** (2020). Gut microbiome of native Arab Kuwaitis. *Gut Pathogens* 12: 10.
16. Al-Hashem G, Rotimi VO, **Albert MJ** (2020). Genetic relatedness of serial rectal isolates of *Acinetobacter baumannii* in an adult intensive care unit of a tertiary hospital in Kuwait. *PLOS ONE*; 15: e0230976.
17. Rajgopal S, **Raghupathy R** (2021). Using the immune system to manage immunologically-mediated pregnancy loss. *Annals of the National Academy of Medical Sciences (India).*; 57(01): 08-15.
18. Jassiem G, Azizieh F, Makhseed M, **Raghupathy R** (2020). Influence of progesterone, dydrogesterone and estrogen on cytokine production patterns of lymphocytes from women with recurrent spontaneous miscarriage. *American Journal of Reproductive Immunology.* 140:103132.
19. AbdulHussain G, Azizieh F, Makhseed M, **Raghupathy R** (2020). Effects of Progesterone, Dydrogesterone and Estrogen on the Production of Th1/Th2/Th17 Cytokines by Lymphocytes from Women with Recurrent Spontaneous Miscarriage. *J Reprod Immunol.* 140:103132.
20. Asadzadeh M, Dashti M, **Ahmad S**, **Alfouzan W**, Alameer A (2021). Whole genome and targeted-amplicon sequencing of fluconazole-susceptible and -resistant *Candida parapsilosis* isolates from Kuwait reveals a previously

- undescribed N1132D polymorphism in CDR1. *Antimicrob Agents Chemother*; 65:e01633-20.
21. Alobaid K, Asadzadeh M, Bafna R, **Ahmad S** (2021). First isolation of *Candida nivariensis*, an emerging fungal pathogen, in Kuwait. *Med Princ Pract*; 30:80-84.
  22. Al-Awadhi M, **Ahmad S**, **Iqbal J** (2021). Current status and the epidemiology of malaria in the Middle East Region and beyond. *Microorganisms* 1; 9:338.
  23. Al-Otaibi H, Asadzadeh M, **Ahmad S**, **Al-Sweih N**, Joseph L (2021). *Papiliotrema laurentii* fungemia in a premature, very low-birth-weight neonate in Kuwait successfully treated with liposomal amphotericin B. *J Mycol Med.*; 31:101123.
  24. Al-Awadhi M, **Iqbal J**, **Ahmad S** (2021). An update on the epidemiological features of imported schistosomiasis and cystic echinococcosis in Kuwait, 2010-2018. *Med Princ Pract*; 30:138-145.
  25. Al-Mutairi NM, **Ahmad S**, **Mokaddas E** (2021). Increasing prevalence of resistance to second-line drugs among multidrug-resistant *Mycobacterium tuberculosis* isolates in Kuwait. *Sci Rep*; 11:7765.
  26. **Ahmad S**, **Alfouzan W** (2021). *Candida auris*: epidemiology, diagnosis, pathogenesis, antifungal susceptibility and infection control measures to combat the spread of infections in healthcare facilities. *Microorganisms*; 9:807.
  27. **Ahmad S**, Khan Z, **Al-Sweih N**, **Alfouzan W**, Joseph L (2020). *Candida auris* in various hospitals across Kuwait and their susceptibility and molecular basis of resistance to antifungal drugs. *Mycoses*. 63: 104-112.
  28. **Ahmad S**, Khan Z (2020). Mixed infection with itraconazole-susceptible and-resistant strains of *Aspergillus fumigatus*: diagnostic and therapeutic implications. *J Infect Public Health*; 13: 664-666.
  29. Al-Baqsam ZA, **Ahmad S**, Khan Z (2020). Antifungal drug susceptibility, molecular basis of resistance to echinocandins and molecular epidemiology of fluconazole resistance among clinical *Candida glabrata* isolates in Kuwait. *Sci Rep.*; 10: 6238.
  30. Al-Mutairi NM, **Ahmad S**, **Mokaddas EM** (2020). Molecular characterization of multidrug-resistant *Mycobacterium tuberculosis* (MDR-TB) isolates identifies local transmission of infection in Kuwait, a country with a low incidence of TB and MDR-TB. *Eur J Med Res.*; 25:14.
  31. Khan Z, **Ahmad S**, **Al-Sweih N**, **Mokaddas E**, Al-Banwan K, **Alfouzan W**, Al-Obaid I, Al-Obaid K, Varghese S (2020). Increasing trends of reduced susceptibility to antifungal drugs among clinical *Candida glabrata* isolates in Kuwait. *Microb Drug Resist*; 26:982-990.
  32. **Ahmad S** (2020). Recent advances in effective management of multidrug-resistant tuberculosis (MDR-TB). *J. Bacteriol. Parasitol.*; 11: 368 (Editorial).
  33. Al-Awadhi M, **Iqbal J**, **Ahmad S** (2020). Reply to the letter "Diagnostic method to screen *Taenia solium* taeniasis carriers". *Med Princ Pract.*; 29:300.
  34. **Ahmad S**, Khan Z, **Al-Sweih N**, **Alfouzan W**, Joseph L, Asadzadeh M (2020). *Candida kefyr* in Kuwait: prevalence, antifungal drug susceptibility and genotypic heterogeneity. *PLoS One*; 15: e0240426.
  35. Asadzadeh M, **Ahmad S**, Khan Z, Varghese S, Joseph L (2020). Molecular identification, genotypic heterogeneity and comparative pathogenicity of environmental isolates of *Papiliotrema laurentii*. *J Med Microbiol*; 69: 1285-1292.

36. Al-Mutairi NM, **Ahmad S, Mokaddas E** (2021). Evaluation of Speed-oligo Mycobacteria assay for rapid differentiation and identification of *Mycobacterium tuberculosis* and nontuberculous mycobacteria in MGIT 960 system cultures from human clinical samples. *Kuw Med J*; (In Press)
37. **Mokaddas E, Ahmad S, Eldeen H** (2021). Performance comparison of GeneXpert MTB/RIF and ProbeTec ET tests for rapid molecular diagnosis of extrapulmonary tuberculosis in a low TB/MDR-TB incidence country. *Med Princ Pract*. Feb 16. doi: 10.1159/000515254. Online ahead of print.
38. Torumkuney D, **Mokaddas E, Jiman-Fatani A, et al.** (2020). Results from the Survey of Antibiotic Resistance (SOAR) 2015-17 in the Middle East (Kuwait, Lebanon and Saudi Arabia): data based on CLSI, EUCAST (dose-specific) and pharmacokinetic/pharmacodynamic (PK/PD) breakpoints. *J Antimicrob Chemother*. 75(Supplement\_1):i60-i75.
39. Abulhasan YB, Abdullah AA, Shetty SA, Ramadan MA, Yousef W, **Mokaddas EM** (2020). Health Care-Associated Infections in a Neurocritical Care Unit of a Developing Country. *Neurocrit Care*. 32:836-846.
40. Al Rushood M, Al-Eisa A, **Al-Attayah R** (2020). Serum and Urine Interleukin-6 and Interleukin-8 Levels Do Not Differentiate Acute Pyelonephritis from Lower Urinary Tract Infections in Children. *J. Inflamm. Res*. 28; 13:789-797.
41. Moghnia O., Rotimi V, **Al-Sweih N** (2021). Evaluating Food Safety Compliance and Hygiene Practices of Food Handlers Working in Community and Healthcare Settings in Kuwait. *Int J Environ Res Public Health* 18:1586.
42. Moghnia OH, Rotimi VO, **Al-Sweih NA** (2021). Monitoring antibiotic resistance profiles of fecal isolates of Enterobacteriaceae and the prevalence of carbapenem-resistant Enterobacteriaceae among food handlers in Kuwait. *J Glob Antimicrob Resist*. 2021 May 12:S2213-7165(21)00106-5.
43. Al-Awadhi M, **Iqbal J, Ahmad S** (2020). Cysticercosis/*T. solium* taeniasis, a potential public health concern in non-endemic country, Kuwait: a new diagnostic method to screen *T. solium* taeniasis carriers among the expatriate population. *Med Princ Pract*; 29: 347-353.
44. **Iqbal J, Ahmad S, Al-Awadhi M** (2020). Decreasing trend of imported malaria cases but increasing influx of mixed *P. falciparum* and *P. vivax* infections in malaria-free Kuwait. *PLOS One*; 15:e0243617.
45. **Iqbal J, Ahmad S, Al-Awadhi M, Masud A, Mohsin Z, Abdurassoul AY, Albenwan K, Alenezi N, AlFarsi F** (2021). A large case series of neurocysticercosis in Kuwait, a non-endemic Arabian Gulf country in the Middle East Region. *Microorganisms* (in Press).
46. Baaity Z, **Jamal W, Rotimi V, Burian K, Leitsch D, Somogyvari F, Nagy E, Soki J** (2021). Molecular characterization of metronidazole resistant *Bacteroides fragilis* strains from Kuwait. *Anaerobe* 69: 102357.
47. Alazemi A, **Jamal W, Al Khabbaz A, Rotimi V** (2020). Prevalence of target anaerobes associated with chronic periodontitis. *Access Microbiol*. 2:acmi000177.
48. Al Fadhli A., **Jamal W, Rotimi V** (2020). Prevalence of carbapenem resistant Enterobacteriaceae and emergence of high rectal colonization rates of *bla<sub>OXA-181</sub>*-positive isolates in patients admitted to two major hospital intensive care units in Kuwait. *PLoS One*; 15: e0241971.
49. **Jamal W, Khodakhast FB, AlAzmi A, Soki J, AlHashem G, Rotimi VO** (2020). Prevalence and antimicrobial susceptibility of enterotoxigenic extra-



- intestinal *Bacteroides fragilis* among 13-year collection of isolates in Kuwait. BMC Microbiol. 20:14.
50. Chadha A, **Jamal W**, Rotimi VO (2020). First case of bloodstream infection caused by *Clostridium saccharolyticus* in the Middle East. Kuwait Medical Journal.(In Press).
  51. Monecke S, Müller E, Braun SD, Armengol-Porta M, Bes M, Boswihi S, El-Ashker M, Engelmann I, Gawlik D, Gwida M, Hotzel H, Nassar R, Reissig A, Ruppelt-Lorz A, Senok A, Somily AM, **Udo EE**, Ehricht R (2021). Characterisation of *S. aureus*/MRSA CC1153 and review of mobile genetic elements carrying the fusidic acid resistance gene fusC. Sci Rep. 11:8128.
  52. Boswihi SS, **Udo E. E**, **AlFouzan W** (2020). Antibiotic resistance and typing of the methicillin-resistant *Staphylococcus aureus* clones in Kuwait hospitals, 2016-2017. BMC Microbiol. 20(1):314.
  53. Al-Haqan A, Boswihi SS, Pathan S, **Udo EE** (2020). Antimicrobial resistance and virulence determinants in coagulase-negative staphylococci isolated mainly from preterm neonates. PLoS One. Aug 4;15(8):e0236713.
  54. **Udo EE**, Boswihi SS, Mathew B, et al. (2020). Emergence of Methicillin-Resistant *Staphylococcus aureus* Belonging to Clonal Complex 15 CC15-MRSA) in Kuwait Hospitals. Infect Drug Resist.; 13:617-626.
  55. Boswihi SS, **Udo EE**, Mathew B, Noronha B, Verghese T, Tappa SB (2020). Livestock-Associated Methicillin-Resistant *Staphylococcus aureus* in Patients Admitted to Kuwait Hospitals in 2016-2017. Front Microbiol. 2020 10:2912.
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89. **Altawalah H**, AlHuraish F, Alkandari WA, Ezzikouri S (2020). Saliva specimens for detection of severe acute respiratory syndrome coronavirus 2 in Kuwait: A cross-sectional study. *J Clin Virol*. 132:104652.
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91. Elmessaoudi-Idrissi M, Windisch MP, Kettani A, **Altawalah H**, Pineau P, Benjelloun S, Ezzikouri S (2020). An Integrative Gene Expression Microarray Meta-analysis Identifies Host Factors and Key Signatures Involved in Hepatitis B Virus Infection. *Infect Disord Drug Targets*. 20(5):698-707.

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#### **Abstracts/Proceedings:**

1. Whitlow E, **Mustafa AS**, Hanif SNM. An Overview of the Development of New Vaccines for Tuberculosis. 1<sup>st</sup> University of Pikeville Research Symposium. Pikeville, KY, USA. 9<sup>th</sup> April, **2021**.
2. Safar HA, El-Hashim A, **Amoudy HA, Mustafa AS**. Efficacy of chemical adjuvants, mycobacteria and a DNA vaccine vector for the induction of antigen-specific antibody responses to a major Mycobacterium tuberculosis-specific Th1 cell antigen Rv3619c. Abstract no. 93 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait. *This poster won Award for Distinguished Graduate (PhD) Research*
3. **Mustafa AS**, Khan MW. Analysis of whole-genome sequence data for characterization of *Brucella melitensis* isolates. Abstract no. 89 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
4. Hanif SNM, **Mustafa AS**. RD1 and RD9 Proteins and Peptides of *Mycobacterium tuberculosis* and Antibody Reactivity. Virtual Keystone Symposia on Tuberculosis: Science Aimed at Ending the Epidemic, December 2-4, **2020**.
5. **Mustafa AS**, Nasser K, **Al-Fouzan W**. Comparison of Classical Molecular Methods and Whole Genome Sequencing for Identification and Typing of *Acinetobacter baumannii* Strains from Two Major Hospitals in Kuwait. American Society of Microbiology Annual Meeting June 18-22, **2020**, Chicago, IL, USA.
6. **Albert MJ**, Plummer E, Bulach D, Carter G. Gut microbiome of native Arab Kuwaitis. 25<sup>th</sup> Health Sciences Poster Conference, Kuwait, March 16-18, **2021**.
7. Redda MA, **Al Sweih N, Albert MJ**. Antimicrobial resistance and virulence of *Escherichia coli* cultured from sewage in Kuwait. 25<sup>th</sup> Health Sciences Poster Conference, Kuwait, March 16-18, **2021**. *This poster won Award for Distinguished Graduate (MSc) Research*
8. **Ahmad S**, Khan Z, **Al-Sweih N, Alfouzan W**, Joseph L, Asadzadeh M. Emergence of another truly multidrug-resistant yeast pathogen, *Candida kefyr*, in Kuwait. Abstract presented at 30<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), **2020**, Online Only at ESCMID. Abstract No. 4158.
9. Shetty SA, Abdullah AA, Behbehani A, **Mokaddas E**: Prevalence of carbapenemase-producing organisms at a tertiary care center in Kuwait. Abstract no. 94 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
10. Moghnai O, Rotimi VO, **Al-Sweih N**: Prevalence and molecular characterization of rectal carbapenem-resistant Enterobacteriaceae (CRE) isolates from food handlers and infected hospitalized patients in Kuwait.

- Abstract no. 84 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
11. Al-Awadhi MA, **Iqbal J**, **Ahmad S**. Epidemiology of Major Parasitic Infections in Kuwait. Abstract no. 72 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  12. Alshammari N, **Iqbal J**: Decreasing Trend in *T. gondii* Seroprevalence among Pregnant Women in Kuwait. Abstract no. 76 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  13. Al Fadhli A, **Jamal W**, Rotimi VO: Whole Genome Sequence Analysis of *Klebsiella Pneumoniae* Isolates Belonging to Sequence Type 231 Harboring Rapidly Disseminating *Bla<sub>oxa-232</sub>* Located On *Colkp3* Plasmid in Kuwait. Abstract no. 65 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  14. Al Fadhli A, **Jamal W**, Rotimi VO: Whole genome sequence analysis of non-carbapenemase-producing carbapenem-resistant *Enterobacteriaceae* isolates from intensive care unit patients in Kuwait. Abstract no. 66 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  15. Al Fadhli A, Rotimi VO, **Jamal W**: Elucidating the virulence genes harbored by carbapenemase- and non-carbapenemase-producing *Klebsiella pneumoniae* rectal isolates from patients admitted on the intensive care units using whole-genome sequencing. Abstract no. 67 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  16. Al Fadhli A, **Jamal W**, Rotimi VO: Comparative delineation of clonal relatedness and genotypic characteristics of prevalent carbapenem-resistant *K. pneumoniae* ST231 isolated from patients in high dependency units in Kuwait major hospitals with those from other GCC countries using core genome multi-locus sequence type analysis (cgMLST) . Abstract no. 68 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  17. Al Fadhli A, **Jamal W**, Rotimi VO: Surveillance and molecular characterization of rectal isolates of carbapenem-resistant *Enterobacteriaceae* (CRE) in Kuwait hospital ICU patients. Abstract no. 69 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  18. **Chehadeh W**, Albaksami O, Al-Shammari S: Increase incidence of HIV-1 subtype CRF06\_cpx in Kuwait. Abstract no. 78 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  19. Sarkhouh H A, **Chehadeh W**: Evaluation of CODEHOP-mediated PCR in HIV-1 Genotyping. Abstract no. 83 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  20. **Alfouzan W**, Dhar R, Mokaddas E, Ali Abdullah A: Whole Genome Sequencing of Clinical Isolates of Gram-negative Bacteria Showing Reduced Susceptibility to Ceftolozane/tazobactam. Abstract no. 70 in the abstract book

- of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
21. **Alfouzan W**, Dhar R, Ali Abdullah A, **Mokaddas E**: Evaluation of In Vitro Antibacterial Activity Of Ceftolozane-tazobactam And 15 Comparator Compounds Against A Collection Of Gram-negative Bacterial Isolates. Abstract no. 71 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  22. Dhar R, **Alfouzan W**, Abdo N, Al Ali W: Epidemiology and microbiological profile of common hospital-acquired infections among patients in the intensive care unit of a general hospital in Kuwait: A retrospective observational study. Abstract no. 80 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  23. Asadzadeh M, Dashti M, Alameer A, **Alfouzan W**, **Ahmad S**: Next-generation sequencing identifies a novel CDR1 mutation in fluconazole-resistant *Candida parapsilosis* in Kuwait. Abstract no. 82 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  24. Dhar R, **Alfouzan W**, Al Merdasi N, Abdullah F, Abdo N, Al Rashidi M: Effectiveness of Infection Control Measures on Environmental contamination and Colonization in Patients due to *Candida auris* in the High Dependency Unit of a Secondary Care Facility in Kuwait. Abstract no. 86 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  25. Nasser K, **Al-Fouzan W**, Dhar R, Purohit P, Al-Obaid I, **Mustafa AS**. Genomic characterization of whole genome sequences of *Acinetobacter baumannii* isolates. Abstract no. 91 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.  
*This poster won Award for Distinguished Graduate (MSc) Research*
  26. **Essa S**, Siddique I, Motaz Saad, **Raghupathy R**: Cytokine profiles of peripheral blood mononuclear cells and neutrophils isolated from chronically infected naïve HCV patients. Abstract no. 152 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  27. Ashkanany H, **Essa S**, Ali A, **Raghupathy R**: GM-CSF/Th1/Th2/Th17 cytokines secretion by neutrophils from healthy subjects. Abstract no. 77 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  28. **Madi N**, **Altawalah H**, **Alfouzan W**, Al-Nakib W, Al-Roumi E, Jeragh A: Assessment of Immune Status Against Measles, Mumps, and Rubella in Young Kuwaitis: MMR Vaccine Efficacy. Abstract no. 88 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.
  29. **Madi N**, **Al-Tawalah H**, **Alfouzan W**, **Al-Nakib W**, Al-Roumi E, Jeragh A. Assessment of immune status against measles, mumps, and rubella in young Kuwaitis: MMR vaccine efficacy  
Abstract presented at the 12<sup>th</sup> International Virology Summit, June 24-25, 2020, Rome, Italy.

30. **Madi N, Al-Nakib W, Mustafa AS, Habibi N.** Metagenomic analysis of viral diversity in respiratory samples from patients with respiratory tract infections in Kuwait.  
Abstract presented at the 19th International Congress on Infectious Diseases, Kuala Lumpur, February 20-23, 2020.
31. Nair D, Singapurwala MF, **Benwan KA:** Microbiological and clinical characteristics of sternal wound infections following cardiac surgery in a teaching hospital in Kuwait: A 5-year retrospective study. Abstract no. 90 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, **2021**, Kuwait University, Kuwait.

## 1. CONTRIBUTION

### a. Participation in Ministry/ Government activity

Clinical Services for Ministry of Health in Mubarak Hospital

Prof. Abu Salim Mustafa      Consultant and In-charge of Serology/ Molecular Microbiology Reference Lab., Legionella/ Special Bacterial Diseases

Prof. Manuel John Albert      Consultant, Enteric Microbiologist

Prof. Raj Raghupathy      Consultant Immunologist, Ministry of Public Health

Prof. Suhail Ahmad      Consultant Molecular Microbiologist

Prof. Rajaa Al-Attiah      Consultant, Clinical Immunology

Prof. Jamshaid Iqbal      Consultant Clinical Parasitologist

Prof. Wafaa Jamal      Consultant Clinical Microbiologist  
Head, Microbiology Unit, Mubarak Al Kabeer

Hospital

Dr. Edet E. Udo      Consultant, MRSA Reference Laboratory  
Consultant, Quality Control Program, Microbiology

Dr. Wassim Chehadeh      Consultant Virologist

### Consultants to Other Hospitals

Prof. Eiman Mokaddas	Consultant Clinical Microbiologist, MOH Director of Kuwait TB National Reference Laboratory Head of Microbiology Unit, Ibn Sina Hospital
Prof. Noura Al-Sweih	Consultant and Director of Laboratory Department, Maternity Hospital
Prof. Jamshaid Iqbal	Consultant, Infectious Diseases Hospital Head, National Parasitology Reference Laboratory
Dr. Edet E. Udo	Consultant - Quality Control Laboratory, MOH
Dr. Wadha Al-Fouzan	Consultant, Director of Laboratory Medicine, Farwaniya Hospital
Dr. Mona Al Ahmad	Consultant and Head, Clinical Immunologist and Allergist, Al Rashed Allergy Center Chairman, Allergy and Clinical Immunology Department, Allergy Centre
Dr. Khalifa Albenwan	Senior Specialist, Medical Microbiology and Head of Microbiology Unit, Al-Amiri Hospital
Dr. Haya Al-Tawalah	Specialist, Clinical Virology, Head of Virology Unit, Kuwait Cancer Control Center

**b. Offices held in Professional organizations**

**Prof. Abu Salim Mustafa**

Membership of the following professional organizations

- The New York Academy of Sciences
- American Society for Microbiology
- International Union of Immunological Societies
- European Immunology Society
- European Mycobacteriology Society
- Scandinavian Immunology Society
- Indian Immunology Society
- The Royal College of Pathologists
- International Society for Infectious Diseases
- American Biographical Institute
- International Biographical Centre (Advisory Council)
- Academy for Infection Management
- Society of Immunology



- Federation of American Societies for Experimental Biology
- National Medical Association, USA
- OMICS Group, USA
- Research Conference Scientific and Technical Committee

**Professor Manuel J. Albert**

- Member, American Society for Microbiology
- Fellow, American Academy of Microbiology
- Fellow, Royal College of Pathologists, United Kingdom
- Member, Australian Society for Microbiology

**Prof. Raj Raghupathy**

- Member, International Society for Immunology of Reproduction
- Member, Alps-Adriatic Society for Immunology of Reproduction
- Member, Indian Immunology Society
- Member, American Society for Reproductive Immunology

**Prof. Suhail Ahmad**

- Member, European Society of Clinical Microbiology and Infectious Diseases
- Member, American Society of Microbiology
- Member, International Union against Tuberculosis and Lung Disease
- Member, International Society for Human and Animal Mycology

**Prof. Eiman Mokaddas**

- Member, European Society of Clinical Microbiology and Infectious Diseases
- Member, American Society of Microbiology
- Member, International Union against Tuberculosis and Lung Disease

**Prof. Wafaa Jamal**

- Member, Kuwait Medical Association
- Member, American Society for Microbiology
- Fellow, Infectious Disease Society of America (FIDSA)
- Member, European Society of Clinical Microbiology and Infectious Diseases
- Member, ECCMID Study group on Anaerobic Infections
- Member, Anaerobe Society of Americas

**Dr. Wadha Al-Fouzan**

- Member, Kuwait Medical Association
- Member, General Medical Council, UK
- Member, European Society of Clinical Microbiology and Infectious Diseases

- Member, British Society of Antimicrobial Chemotherapy
- Member, The International Society for Human and Animal Mycology

**Dr. Mona Al-Ahmad**

- Member, Kuwait Medical Association
- Member, American College of Physicians & American Society of Internal Medicine
- Member, College of Physician and Surgeons of Canada
- Fellow of the American Academy of Allergy, Asthma & Clinical Immunology
- Member, American College of Allergy, Asthma & Clinical Immunology
- Member, World Allergy Organization
- Member, European Academy of Allergy and Clinical Immunology
- Member, Canadian Society of Allergy, Asthma, and Clinical Immunology
- Member, Ontario Society of Allergy, Asthma and Clinical Immunology
- Member, American Thoracic Society
- Member, American Thoracic Society
- Member, Omani Thoracic Society

**Dr. Sahar Essa**

- Member, European Society for Virology (ESV)
- Member of the European Society for Clinical Virology (ESV)
- Member of the World Society for Virology
- Member of the International Society for Infectious Diseases
- 

**Dr. Nada Madi**

- Member of European Society for Clinical Virology (ESCV)
- Member of World Society for Virology (WSV)
- Member of European Society of Virology (ESV)
- International Society for Infectious Diseases (ISID)

**Dr. Haya Al-Tawalh**

- Member of scientific committee. Saudi Society of Medical Microbiology and Infectious Disease conference (SSMIDD) 2020, February, Jeddah, KSA.

**c. Advisory editor services for Professional Journals**

**Prof. Abu Salim Mustafa**

- Editorial Board Member of the following Journal
  - Mycobacterial Diseases
  - World Journal of Diabetes
  - Recent Patents on Anti-Infective Drug Discovery
  - Vaccine: Development and Therapy
  - Mycobacterial Diseases

- ISRN Preventive Medicine  
Vaccines MDPI (Editor of a Special Issue in 2020/2021)
- Reviewer designate for the following journals:  
Translational Biomedicine Journal  
Reviews in Infection  
Science Alert  
Protein and peptide letters  
Mycobacterial Diseases
  - Adhoc Reviewer for the following journals:  
Kuwait Medical Journal  
Medical Principles and Practice  
Annals of Clinical Microbiology and Antimicrobials

**Prof. Manuel J. Albert**

- Editorial Board Member for the following journals:  
Indian Journal of Medical Research  
The Open Virology Journal  
Austin Journal of Clinical Immunology  
Gut Pathogens
- Referee for papers submitted to the following journals:  
Gut Pathogens  
Journal of Microbiological Methods  
Medical Principles and Practice  
Transactions of the Royal Society of Tropical Medicine and Hygiene

**Prof. Raj Raghupathy**

- Editor-in-Chief, Medical Principles and Practice
- Member, Editorial Board:  
American Journal of Reproductive Immunology  
Frontiers in Immunology

**Prof. Suhail Ahmad**

- Member, Editorial Board: Bacteriology and Parasitology
- Asian Pacific Journal of Tropical Biomedicine
- Reviewer designate for the following journals:  
Annals of Clinical Microbiology and Antimicrobials  
Annals of Saudi Medicine  
BMC Infectious Diseases  
Eastern Mediterranean Health Journal  
Expert Reviews in Molecular Diagnosis  
Frontiers in Microbiology  
International Journal of Tuberculosis and Lung Disease

Indian Journal of Medical Research  
International Journal of Infectious Diseases  
International Journal of Mycobacteriology  
Journal of Drug Targets  
Journal of Medical Microbiology  
Journal of Infection and Public Health  
Journal of Infection in Developing Countries  
Journal of Mycology  
Journal of Antimicrobial Chemotherapy  
Lancet Infectious Diseases  
Lung India  
Medical Mycology  
Microbial Drug Resistance  
Microbial Pathogenesis  
Mycoses  
Saudi Medical Journal

**Prof. Eiman Mokaddas**

- Member, Editorial Board:  
International Journal of Infectious Diseases
- Reviewer for the following journals:  
Kuwait Medical Journal  
Journal of Medical Microbiology  
Annals of Saudi Medicine  
International Journal of Infectious Diseases  
BMC Infectious Diseases  
Journal of Microbiology and Infectious Diseases  
Clinical Microbiology

**Prof. Jamshaid Iqbal**

- Reviewer for the following journals:  
American Journal of Tropical Medicine and Hygiene, USA  
Journal of Medical Microbiology, UK  
Kuwait Medical Journal (KMJ), Kuwait  
Eastern Mediterranean Health Journal (EMRO/WHO)  
Journal of Medical Science Monitor (MSM), USA  
Journal of Tropical Medicine and International Health, UK  
Pakistan Journal of Medical Research (PJMR)

**Prof. Wafaa Jamal**

- Associate Editor in Anaerobes

**Dr. Edet E. Udo**

- Ad Hoc Reviewer for the following Journals
  - Journal of Medical Microbiology
  - Medical Principles and Practice
  - BMJ Open
  - BMC Infectious Diseases
  - BMC Research Notes
  - BMC Microbiology
  - BMC Genomics
  - Frontiers in Public Health
  - European Journal of Clinical Microbiology and Infectious Diseases
  - Microbial Drug Resistance
  - Infection and Drug Resistance
  - Infection, Genetics and Evolution

**Dr. Wassim Chehadeh**

- Adhoc Reviewer for the following journals:
  - Archives of Virology (Springer, Austria)
  - Journal of Medical Virology (Wiley-Liss, USA)
  - BMC Pediatrics (Biomed Central, England)
  - Infection and Drug Resistance (Dove Press, New Zealand)
  - Medical Principles and Practice (Karger, Switzerland)
  - Kuwait Medical Journal (Kuwait Medical Association, Kuwait)
  - Kuwait Journal of Science (Kuwait University, Kuwait)
  - International Journal of Pediatrics & Neonatal Care (Graphy Publications, India)

**Dr. Wadha Al Fouzan**

Reviewer of the following journals:

- Critical Reviews in Microbiology (Informa Healthcare, England)
- Kuwait Medical Journal (Kuwait Medical Association, Kuwait)

**Dr. Mona Al Ahmad**

- Board Member: Communication Council of the World Allergy Organization (WAO)
- Reviewer: World Allergy Organization Journal (WAOJ)
- Board Member: World Allergy Organization Web-site Committee

**Dr. Sahar Essa**

- Member, Editorial Board:  
International Journal of Clinical & Medical Microbiology
- Reviewer for the following journals:  
Kuwait Medical Journal, KMJ-132-017  
Medical Principles and Practice  
Journal of Clinical and Medical Microbiology  
The Journal of Thoracic Disease

**Dr. Nada Madi**

Reviewer of the following journals:

- PLOSE ONE journal
- Virus Research Journal
- Infection and drug resistance
- BAOJ Pediatrics

**d. Active participation in Professional Conferences/Symposium:**

**Prof. Abu Salim Mustafa**

- 1) Health Science Centre Poster Conference, March 16-18, 2021, Kuwait University, Kuwait.  
Poster presentation, Topic: Efficacy of chemical adjuvants, mycobacteria and a DNA vaccine vector for the induction of antigen-specific antibody responses to a major *Mycobacterium tuberculosis*-specific Th1 cell antigen Rv3619c.
- 2) Health Science Centre Poster Conference, March 16-18, 2021, Kuwait University, Kuwait.  
Poster presentation, Topic: Genomic characterization of whole genome sequences of *Acinetobacter baumannii* isolates. Abstract no. 91 in the abstract book of 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, 2021, Kuwait University, Kuwait.
- 3) Health Science Centre Poster Conference, March 16-18, 2021, Kuwait University, Kuwait.  
Poster presentation, Topic: Analysis of whole-genome sequence data for characterization of *Brucella melitensis* isolates.
- 4) Virtual Keystone Symposia on Tuberculosis: Science Aimed at Ending the Epidemic, December 2-4, 2020.  
Poster presentation, Topic: RD1 and RD9 Proteins and Peptides of *Mycobacterium tuberculosis* and Antibody Reactivity.
- 5) American Society of Microbiology Annual Meeting June 18-22, 2020, Chicago, IL, USA.

Poster presentation, Topic: Comparison of Classical Molecular Methods and Whole Genome Sequencing for Identification and Typing of *Acinetobacter baumannii* Strains from Two Major Hospitals in Kuwait.

### **Prof. Raj Raghupathy**

- 1) Federation of Obstetrics and Gynecology Societies of India Virtual Seminar, August 23, 2020. Lecture on “Role of dydrogesterone in immunomodulation of pregnancy loss”.
- 2) 27<sup>th</sup> Annual Conference of the Madurai Obstetrics and Gynecology Society, December 19, 2020. (Virtual Conference) Lecture on “Immunomodulation in Pregnancy”.

### **Prof. Suhail Ahmad**

- 1) 30<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), 2020.  
Abstract Presentation: Emergence of another truly multidrug-resistant yeast pathogen, *Candida kefyr*, in Kuwait On Line Only at ESCMID.

### **Prof. Noura Al-Sweih**

- 1) Title: Prevalence and molecular characterisation of rectal carbapenem-resistant *Enterobacteriaceae* (CRE) isolates from food handlers and infected hospitalized patients in Kuwait: 25<sup>th</sup> Poster Day March 2021. Moghnai O, Rotimi V, **Al-Sweih N**
- 2) Title: Prevalence and molecular characterisation of rectal carbapenem-resistant *Enterobacteriaceae* (CRE) isolates from food handlers and infected hospitalized patients in Kuwait: 31<sup>st</sup> European Congress of Clinical Microbiology & Infectious Diseases. 9 - 12 July Vienna, Austria Moghnai O, Rotimi V, **Al-Sweih N**

### **Prof. Wafaa Jamal**

#### **Poster presentations at International Conferences**

- 1) H el ene Guet-Revillet, Yann Dumont, Ulrik Justesen, Pierre Boyer, Trefor Morris, Ari Pranada, Csilla Rompf, Denis Pierard, Ingrid Wybo, Anita Novak, Emeline Riverain Gillet, Fernando Cobo Mart inez, H el ene Jean-Pierre, Damasie Malandain, Luca Antonini, Jozsef S oki, Mario Gajdacs, Zain Baaity, **Wafaa Jamal**, Linda Veloo, Miriam Cordovana, Simone Ambretti, Marc Assous, Asimina Safarika, Efthymia Giannistisioti, Ulger Nurver, Renaud Verdon, Simon Le Hello, Jean-Jacques Parienti, Olivier Join-Lambert. **“The burden and epidemiology of anaerobic bacteremia: a retrospective multicenter multinational cross-sectional study”**. 31<sup>st</sup> European Congress of Clinical Microbiology & Infectious Diseases (31<sup>st</sup> ECCMID) on July 9-12, 2021, Vienna, Austria, online.

### **Poster presentation at local conference**

- 1) A Al Fadhli, **W Jamal**, VO Rotimi. Surveillance and molecular characterization of rectal isolates of carbapenem-resistant Enterobacteriaceae (CRE) in Kuwait hospital ICU patients. 25<sup>th</sup> Health Sciences Centre Poster Conference, Faculty of Medicine, Kuwait University, Kuwait, March 16-18, 2021 (Poster). Online
- 2) A Al Fadhli, **W Jamal**, VO Rotimi. Elucidating the virulence genes harbored by carbapenemase- and non-carbapenemase-producing *Klebsiella pneumoniae* rectal isolates from patients admitted on the intensive care units using whole-genome sequencing. 25<sup>th</sup> Health Sciences Centre Poster Conference, Faculty of Medicine, Kuwait University, Kuwait, March 16-18, 2021 (Poster). Online
- 3) A Al Fadhli, **W Jamal**, VO Rotimi. Comparative delineation of clonal relatedness and genotypic characteristics of prevalent carbapenem-resistant *K. pneumoniae* ST231 isolated from patients in high dependency units in Kuwait major hospitals with those from other GCC countries using core genome multi-locus sequence type analysis (cgMLST). 25<sup>th</sup> Health Sciences Centre Poster Conference, Faculty of Medicine, Kuwait University, Kuwait, March 16-18, 2021 (Poster). Online

### **Conferences attended:**

- 1) 31<sup>st</sup> European Congress of Clinical Microbiology and Infectious Diseases (31<sup>st</sup> ECCMID), organized by European Society of Clinical Microbiology and Infectious Diseases (ESCMID), held in Vienna, Austria, July 9 - 12, 2021. Online.
- 2) **Gulf acute care academy “management of community acquired gram-negative infections”**. organized by MSD, Kuwait, online meeting, 7<sup>th</sup> March 2021.
- 3) **National antimicrobial stewardship committee ID club organized by Al Qassimi Hospital, Ministry of Health and Prevention, United Arab Emirates, online meeting, January 27, 2021.**
- 4) **National antimicrobial stewardship committee ID club organized by Al Qassimi Hospital, Ministry of Health and Prevention, United Arab Emirates, online meeting, January 24, 2021.**
- 5) **National antimicrobial stewardship committee ID club organized by Al Qassimi Hospital, Ministry of Health and Prevention, United Arab Emirates, online meeting, January 20, 2021.**
- 6) **New approach for the management of nosocomial pneumonia patients, organized by MSD, online meeting, November 17, 2020.**
- 7) Infectious Disease Society of America ID week 2020 conference, organized by IDSA, SHEA, HIVMA and PIDS, online meeting, October 22 - 25, 2020.



- 8) Ceftaroline “Zinforo” in complicated Skin and Soft Tissues Infections. Organized by Pfizer, online meeting, held on October 17, 2020.
- 9) Novel empiric option for nosocomial pneumonia patients meeting. Organized by MSD, September 15, 2020. Online meeting.
- 10) Anaerobe 2020, The 15<sup>th</sup> Biannual Congress of Anaerobe Society of the Americas, organized by Anaerobe Society of the Americas, July 23-24, 2020 - Webinar.

#### **Dr. Wassim Chehadeh**

- 1) **Chehadeh W**, Albaksami O, Al-Shammari S. Increase incidence of HIV-1 subtype CRF06\_cpx in Kuwait. 25<sup>th</sup> Health Sciences Center Poster Conference, March 16-18, 2021, Kuwait.
- 2) Sarkhouh HA, **Chehadeh W**. Evaluation of CODEHOP-mediated PCR in HIV-1 genotyping. 25<sup>th</sup> Health Sciences Center Poster Conference, March 16-18, 2021, Kuwait.

#### **Dr. Sahar Essa**

- 1) Participated in the Global Conference on Virology and Rare Diseases” scheduled during September 14-15<sup>th</sup>, 2020 held in Las Vegas, the USA by an oral presentation entitled “The influence of neutrophils on the production of cytokines associated with different Th cell subsets in chronic HCV-infected patients with Compensated liver disease”.
- 2) The ESCV Virtual Meeting on COVID-19. 9<sup>th</sup> Sep. 2020.
- 3) Webinar on “Lessons learned from COVID-19 pandemic webinar.”, 12<sup>th</sup> Sep. 2020.
- 4) Webinar series: The impact of COVID-19 in the pediatric population. 30<sup>th</sup> Sep. 2020.
- 5) WSPID Webinar: Schools in the COVID-19 era - to be or not to be? 28<sup>th</sup> Oct. 2020.
- 6) Webinar series: Evaluate Neutralization Activities for COVID-19 Vaccine and Drug Development, 17<sup>th</sup> Nov. 2020.
- 7) Participated in the international E-Conference on “Virology, Infectious Diseases and COVID-19”, scheduled during 7-8<sup>th</sup>, Dec. 2020. WSPID Webinar: COVID-19 vaccines coming to light: current developments and near-future use and challenges, 9<sup>th</sup> Dec., 2020.
- 8) برنامج مؤتمر الأوبئة في الحضارة الإسلامية وطرق التعامل معها. 25-26<sup>th</sup>, Dec. 2020
- 9) Webinar on “COVID-19 Vaccines: Trust, Transparency and Global Access”, 2nd Feb. 2021.
- 10) Webinar on “HPV Latency is it real and does it matter?” 17<sup>th</sup> Feb. 2021.
- 11) Webinar on " Virology and Rare Diseases", 18<sup>th</sup>, Feb. 2021.
- 12) WSPID Webinar: “The changing epidemiology of respiratory viral infections in the COVID-19 pandemic”, 1st-2nd March, 2021.
- 13) Participated in the online 25th annual health sciences Poster Day, March 16-18, 2021 by presenting a posters entitled:

- a) 'GM-CSF/Th1/Th2/Th17 cytokines secretion by neutrophils from healthy subjects.' Ashkanany H, Essa S, Ali A, Al-Nakib W, Raghupathy R. Abstract No: 77.
  - b) 'Cytokine profiles of peripheral blood mononuclear cells and neutrophils isolated from chronically infected naïve HCV patients.' Essa S, Siddique I, Motaz Saad, Raghupathy R. Abstract No. 152.
- 14) Webinar: Seasonal Influenza: Global Burden, Prevention and the impact of COVID-19 on Surveillance and Transmission. 27th April 2021.
  - 15) Webinar: Occupational Safety and Health Under COVID-19 on the occasion of The World Day for Safety and Health at Work." 28th April 2021.

**Dr. Nada Madi**

- 1) 12<sup>th</sup> International Virology Summit (virtual conference), June 24-25, 2020, Rome Italy .  
Poster presentation: Assessment of immune status against measles, mumps, and rubella in young Kuwaitis: MMR vaccine efficacy.
- 2) 25<sup>th</sup> Health Science Centre Poster Conference, March 16-18, 2021, Kuwait University, Kuwait.  
Poster presentation: Assessment of immune status against measles, mumps, and rubella in young Kuwaitis: MMR vaccine efficacy. Abstract no. 88.
- 3) The ESCV Virtual Meeting on COVID-19. September 9. 2020.

**e. Service as external examiners outside Kuwait**

**f. Contribution to Committees outside the Faculty**

**Prof. Abu Salim Mustafa**

- Member of Microbiology Unit Council, Mubarak Al-Kabeer Hospital
- Member of Graduate Program Committee of the College of Graduate Studies Joint MSc Program in Molecular Biology
- Member of Promotion Review Committee for promotion of an applicant from Assistant to Associate Professor in the Faculty of Pharmacy, Kuwait University
- Member of Promotion Review Committee for promotion of an applicant from Associate to Full Professor in the Faculty of Pharmacy, Kuwait University
- Member of the Scientific Committee of the Research Core Facility, Health Sciences Centre, Kuwait University
- Adhoc Reviewer of research projects and progress reports submitted to the Research Sector, Kuwait University

**Prof. Raj Raghupathy**

- Consultant Immunologist, Ministry of Public Health
- Member, Clinical Immunology and Allergy Fellowship Program, Kuwait Institute of Medical Specialization (KIMS)

### **Prof. Suhail Ahmad**

- Member, Health Sciences Center Ethical Committee
- Member, Health Sciences Center Library Committee
- Chairman, Phase I Examination Committee

### **Prof. Eiman Mokaddas**

- Member of the National Kuwait Committee for Vaccines
- Member of Kuwait National Committee for the Control of TB
- Program Director of Kuwait Board in Clinical Microbiology, KIMS
- Chairman of Kuwait Board in Clinical Microbiology

### **Prof. Rajaa Al-Attayah**

- Offered clinical services to the Ministry of Public Health.
- Member, Committee formed by MOH to scrutinize Immunology orders (2018- ongoing)

### **Prof. Noura Al-Sweih**

- Member of the MOH Ethical and research Committee
- Member of KIMS Board of Trustees
- Member of MOH certificates equation

#### ***Committees in the Ministry of Health***

- Member of the Premarital Counseling Committee, Ministry
- Chairperson of Infection Control Committee, Maternity Hospital
- Member of Antibiotic Policy Committee, Maternity Hospital

### **Prof. Jamshaid Iqbal**

- Member, Kuwaiti Board in Clinical Microbiology, KIMS
- Member, HSC Pre-Professional Program Review Committee

#### **Technical Assistance to other Committee in Health Sciences Centre**

##### **A. Health Sciences Centre**

- Assisting in Review of Pre-Professional Program (Year 1) in the Pre-Professional Program Review Committee for the Year 2014-2015

##### **B. Faculty of Medicine**

- Technical consultation, training and workshops in the field of Nuclear Medicine and Radiation Protection – Ministry of Health.
- Assisting KIMS in improving their scoring system and item analysis.
- Assisting the Nervous System Module Review Committee in reviewing NS Module curriculum for the Year 2015-2016

- Assisting the Department of Microbiology Curriculum Committee in reviewing the Microbiology content contribution in Foundation Block II and I & I Module for the Year 2014-2016
- Assisting the Phase II OSPE Committee in review, coordination and conduction of OSPE I & OSPE Assessments for the 3<sup>rd</sup> & 4<sup>th</sup> Year Medical/Dental students for the Year 2014-2015
- Assessments for the 3<sup>rd</sup> & 4<sup>th</sup> Year Medical/Dental students for the Year 2014-2015
- Providing the Examination Committee with detailed reports on the performance of both the students and the questions in every exam paper.
- Participation in the process of establishing the new clinical training skills lab and Medical Education Centre.

### **C. Faculty of Dentistry**

- Assisting the Vice Dean Academic, Faculty of Dentistry in review of Item analysis of Oral Hygiene Module for the 4<sup>th</sup> year Dental student for the Year 2015-2016

### **Prof. Wafaa Jamal**

- Head of Microbiology Unit, Mubarak Al Kabeer Hospital, MOH
- Member in Committee for Appointments and Renewal of Contracts, Faculty of Dentistry, Kuwait University since December 28, 2020.
- Member in Committee for Promotion, Faculty of Dentistry, Kuwait University since March 2020.
- Director of Research Core Facilities, September 2020
- Member, Assistant Program Director and Site Coordinator for Mubarak Hospital for Faculty of Clinical Microbiology, KIMS since October 2010 till now.
- CEPD officer, member of Examination Committee, Scientific/Workshop Committee for KIMS Board of Faculty of Clinical Microbiology, KIMS, since November 2013.
- Active participant and member of the Environmental Sampling Committee, infection control directorate since December 2010 till now.
- Member of Laboratory Council Committee, Mubarak Hospital, Ministry of Health since 2004 till now.

### **Dr. Edet E. Udo**

- Member, Quality Control Committee, MPH
- Member, Curriculum Committee, Faculty of Allied Health, Kuwait University

### **Dr. Wassim Chehadeh**

- Member of the COVID-19 HSC Advisory Health Committee, Faculty of Medicine, Kuwait University
- Member, Postgraduate Training Committee (PGTC), Kuwaiti Board of Clinical Virology, Faculty of Clinical Virology, Kuwait Institute for Medical

- Specialization (KIMS), 2010 – present.
- Member, Examination Committee, Kuwaiti Board of Clinical Virology, Faculty of Clinical Virology, Kuwait Institute for Medical Specialization (KIMS), 2011 – present.
- Consultant Virologist in the Virology Diagnostic Service of Mubarak Al-Kabeer Hospital, Ministry of Health, Kuwait.

#### **Dr. Wadha Al-Fouzan**

- Member, Antibiotic Policy Committee, Farwaniya Hospital.
- Member, Accreditation and Quality Committee, Farwaniya Hospital

#### **Dr. Mona Al Ahmad**

- Consultant Clinical Immunologist and allergist, Ministry of Health, Al-Rashed Allergy Centre
- Head, Drug Allergy / Immunology Unit, Allergy Department in Al-Rashed Allergy Center
- Chairman, Allergy and Clinical Immunology Department, Allergy Centre
- KIMS Exam Chair, Diagnostic and Investigative Residency Program
- Member, Clinical Fellowship Of Allergy and Clinical Immunology, KIMS
- Member of Exam committee of KIMS Clinical fellowship of the allergy and clinical immunology program
- Member of central COVID-19 Team at Ministry of Health
- Chairman of Adult task force of COVID-19 management recommendation at Ministry of Health
- Member of COVID-19 Vaccine Committee at Ministry of Health
- Member of COVID-19 Vaccine adverse events at Ministry of Health
- Member of Medical Council Committee at Ministry of Health
- Coordinator of Drug Approval for Allergic asthma at Allergy Centre, MOH
- Member of Research Committee – Al Rashid Allergy Centre, MOH
- President of Kuwait Society of allergy and clinical immunology

#### **Dr. Sahar Essa**

- Contributed in the Public awareness on COVID-19 by conduction interviews on Ministry of Information Local Radio Stations
- Preliminary report on future vaccines for SARS-Cov2 virus for the Ministry of Health

#### **Dr. Khalifa Omran Albenwan**

- Head of Clinical Microbiology Unit, Amiri Hospital
- Member, Laboratory Council, Amiri Hospital
- Member, Research and Ethics Committee, Amiri Hospital
- Member of Kuwaiti Board Postgraduate Committee, Faculty of Clinical Virology, Kuwait Institute for Medical Specialization

### **Dr. Haya Al-Tawalah**

- Chairperson of Faculty of Clinical Virology, Kuwait Institute of Medical Specialization (KIMS)
- Chairperson of Faculty of Clinical Virology Exam Committee, Kuwait Institute of Medical Specialization (KIMS)

### **g. Contribution to Committees in the Faculty of Medicine**

#### **Prof. Abu Salim Mustafa**

- Chairman, Departmental Council, Department of Microbiology
- Chairman, Scholarship Committee, Department of Microbiology
- Chairman, Examination Committee, Department of Microbiology
- Chairman, Appointment, Contract Renewal and Promotion Committee, Department of Microbiology
- Chairman, Budget & Instrumentation Committee, Department of Microbiology
- Chairman, Accreditation Committee, Department of Microbiology
- Coordinator, Microbiology Department for the website of Health Science Centre
- Chairman, Faculty of Medicine Academic Accreditation Unit
- Chairman, Self-Evaluation Report Committee for the Accreditation of the Faculty of Medicine
- Coordinator, Self-Evaluation Report Committee for the Accreditation of the Faculty of Medicine
- Chairman, Sub-Committee on Standard 9 of the Self Evaluation Report for Accreditation of the Faculty of Medicine
- Liaison Officer between the Department of Microbiology and the Academic Accreditation Unit, Faculty of Medicine
- Coordinator of the Biology-1 course offered to Preprofessional students of the Health Sciences Centre
- Chief Invigilator of Biology-1 course exam of HSC
- Member, Promotion Review Committee of a candidate in the Department of Physiology from Assistant to Associate Professor
- Member, Promotion Review Committee of a candidate in the Department of Pediatrics from Associate to Full Professor
- Member, Thesis Supervisory Committee of one MSc student in Microbiology
- Convener, Thesis Examination Committee of one MSc student in Microbiology
- Convener, Dissertation Examination Committee of three PhD students in Medical Microbiology
- Member, Dissertation Examination Committee of a PhD student in Medical Microbiology
- Member, Faculty Council of the Faculty of Medicine
- Member, Scholarship committee of the Faculty of Medicine
- Member, Curriculum Assessment and Admissions Committee of the Faculty of Medicine

#### **Prof. Manuel J. Albert**

- Member, Departmental Appointment & Promotions Committee
- Director, Departmental Graduate Program Committee for MSc and PhD

- Member, Departmental Examination Committee
- Member, Faculty of Medicine Accreditation Committee
- 

**Prof. Raj Raghupathy**

- Editor-in-Chief, Medical Principles and Practice
- Member, Scientific Advisory Committee, Faculty of Medicine
- Member, Musculoskeletal Module Coordinating Committee
- Member, Department of Microbiology Space and Safety Committee

**Prof. Suhail Ahmad**

- Member, Medical Research Committee
- Member, Radiation Safety Committee
- Member, Phase I and Phase II Strategic Planning Committee
- Chairman, Departmental Recruitment Committee for Support Staff,
- Member, PhD. Graduate Program Committee, Department of Microbiology

**Prof. Eiman Mokaddas**

- Vice Dean Research and Postgraduate Studies, Faculty of Medicine
- Chairperson Graduate Program Area Committee
- Member, Departmental Examination Committee
- Member, Department Budget & Instrumentation Committee

**Prof. Noura Al-Sweih**

- Acting Dean and Vice Dean for Academic & Student Affairs, Faculty of Medicine
- Chairperson, Faculty Council, Faculty of Medicine
- Chairperson, Dean Executive Committee, Faculty of Medicine
- Chairperson, Faculty Curriculum Committee
- Chairperson, Faculty Scholarship Committee
- Member, Faculty Accreditation Committee
- Member, Faculty Graduate Committee, Faculty of Medicine
- Chairperson / Member, Recruitment Committee, Faculty of Medicine
- Chairperson, HSC student Research and Ethical Committee

**Prof. Jamshaid Iqbal**

- Director, Medical Education Unit, Faculty of Medicine
- Chairman, Phase II Examination Committee
- Coordinator, Phase II Clinical Skill
- Chairman, Clinical Skill Review Committee
- CVS Module Review Group
- Foundation Block II and I & I Module Review group
- PBL Coordination Group (ad hoc)
- Member, Parasitology Unit Safety Officer
- Member, Departmental Appointment & Promotion Committee

- Member, Departmental Accreditation Committee
- Phase II, Department Representative, Gastro Intestinal System

### **Technical Assistance to other Committee in Health Sciences Centre**

- Assisting the Department of Microbiology Curriculum Committee in reviewing the Microbiology content contribution in Foundation Block II and I & I Module for the Year 2013-2014
- Assisting in Review of Pre-Professional Program (Year 1) in the Pre-Professional Program Review Committee for the Year 2013-2014
- Providing the Examination Committee with detailed reports on the performance of both the students and the questions in every exam paper.

### **Prof. Wafaa Jamal**

- Member of Academic Portfolio Committee
- Chairman, Departmental Curriculum Committee
- Member, Departmental Safety and Space Committee
- Member of Phase II OSPE Committee (Year 3 and 4) from October 2011
- Faculty Coordinator for Infection and Immunity module since 2012
- Member in Faculty Committee for Promotion since 2020

### **Dr. Edet E. Udo**

- Member, Departmental Graduate Program Committee
- Member, Departmental Scholarship Committee
- Member Instrument Committee, Faculty of Medicine
- Member, Examination Review committee for FB I and FBII, Faculty of Medicine.

### **Dr. Wassim Chehadeh**

- Chairman, Departmental Research Review Committee
- Member, Departmental Scholarship Committee
- Member, Departmental Graduate Program Committee

### **Dr. Wadha Al Fouzan**

- Member, Departmental Research Committee
- Member, Departmental Accreditation Committee
- Chairperson, Departmental Safety and Space Committee
- Phase II, Department Representative, Cardio Vascular module

### **Dr. Mona Al Ahmad**

- Member of PBL Curriculum Review Committee
- Member of Department Research Committee
- Member of Department Graduate Committee (MSc and PhD)
- Departmental Representative for Respiratory module



- Member, Organizing Committee and Reviewer for Abstract Screening, 25<sup>th</sup> HSC Poster Conference
- Member of the Faculty Academic Accreditation Committee

**Dr. Hanady Amoudy**

- Member, Departmental Space and Safety Committee
- Member, Departmental Graduate Program Committee (MSc and PhD)
- Member, Departmental Promotion and Recruitment Committee for Technical Staff
- Member, Departmental Scholarship Committee

**Dr. Sahar Essa**

- Member of the Departmental Promotion and Recruitment Committee for Technical Support Staff” from September 29<sup>th</sup> to date.
- Member of the Departmental Scholarship Committee from March 2019 to date.
- Member of the Departmental “Budget & Instrumentation Committee” from June 2014-June 2016 & from June 2020- to date.
- Member of Phase-2 Year-2 Examination Committee for a period of two years (academic years 2020-2021 and 2021-2022).

**Dr. Nada Madi**

- Director of Centre of Research Support and Conferences
- Member, Departmental Curriculum Committee
- Member, Departmental Research Committee
- Member, Departmental Accreditation Committee
- Seminar Coordinator, Department of Microbiology

**Dr. Khalifa Omran Albenwan**

- Member, Departmental Curriculum Committee
- Member, Departmental Promotion and Recruitment Committee for Technical Support Staff
- Member, Departmental Scholarship Committee

**Dr. Haya Al-Tawalih**

- Member, Departmental Accreditation Committee,
- Member, Departmental Examination Committee
- Member, Departmental Promotion and Recruitment Committee for Technical Support Staff

**h. Contribution to Committees in the University**

**Prof. Jamshaid Iqbal**

- Kuwait University Faculty Association, Academic-subcommittee
- HSC Pre-Professional Program Review Committee

# **NUCLEAR MEDICINE**

## **INTRODUCTION**

Nuclear Medicine is continuing to progress and introduce new clinical applications of newly developed radiopharmaceuticals particularly utilizing hybrid imaging modalities: PET/CT, SPECT/CT, and PET/MRI in addition to the area of radionuclide therapy.

The Department of Nuclear Medicine, Faculty of Medicine, Kuwait University has continued to provide quality teaching both at the undergraduate and the postgraduate levels. The department has redistributed the representation of phase II undergraduate modules based on the expertise of the faculty members to provide the best possible teaching. Several elective courses in nuclear medicine for undergraduate as well as a post graduate course in scientific writing are offered by the department. The department has continued to contribute to clinical services in various hospitals of Ministry of Health. The department succeeded to get a grant for general teaching facility including an upscale animal SPECT/PET/CT spectrum imaging scanner. During the Covid19 pandemic, the department staff participated in the e-learning programs and started conducting teaching sessions, such as PBLs and lectures, using the Microsoft Teams platform according to Kuwait University policies.

### **Objectives:**

The objectives of the department in various areas are as following:

Phases II & III: involvement in the teaching, coordination and being facilitators of the various courses, modules, as well as participating in the clinical skills lab.

Teaching at other faculties like allied health and faculty of pharmacy.

Postgraduate education: Teaching of the MSc Nuclear Medicine and Postgraduate courses in Nuclear Medicine Specialty of Kuwait Institute for Medical Specializations (KIMS).

Continue efforts to recruit candidates for the PhD program.

Encourage collaborative research activities with other departments and ministry of health team.

### **Clinical service:**

The department staff has continued to provide clinical services at the various Departments of Nuclear Medicine in the Ministry of Health hospitals. It is hoped that there will be an academic Department of Nuclear Medicine in a teaching hospital of Kuwait University. Needless to say, such an academic department is necessary for the effective execution and management of both the MSc and PhD programs.

Two faculty Members are currently heads of units at MOH.

### **Outreach:**

The department continues to collaborate with local and international bodies for the exchange of ideas. The department collaborates with the several local institutions; Kuwait Institute for Medical Specializations (KIMS), Kuwait Foundation for the Advancement of Sciences (KFAS), and Kuwait Institute for Scientific Research (KISR).

The members of the department take active part in various international organizations that include: Society of Nuclear Medicine and Molecular Imaging, European Association of Nuclear Medicine, British Society of Nuclear Medicine, Egyptian Society of Nuclear Medicine, International Atomic Energy Agency, World Health Organization and UNESCO.

Overall, the department remains an integral part of the Faculty of Medicine with complete commitment to carrying out its mission for education, research and community service in the state of Kuwait and the Arabian Gulf region.

### **Obstacles:**

The recent most serious obstacle is the refusal to supply the minute amount of radiopharmaceutical for experimental research from ministry of health must be resolved. The department is in a unique position at the mercy of ministry of health which has a different philosophy.

The roadmap for near and distant future is to have an academic clinical nuclear medicine facility similar to established international institutions for proper clinical service and research development and teaching and have a well-equipped laboratory to enable active research in basic sciences.

Radiochemistry laboratory facilities are not available.

The difficulties of the department continue to be inadequate academic staff, particularly a senior medical physicist.

## **MANPOWER**

### **Faculty Members**

Prof. Abdelhamid H Elgazzar MD, FCAP, ABP (Clinical & Anatomic), ABNM  
Professor, Nuclear Medicine Physician

Dr. Gaber AM Ziada BSc, MSc, PhD  
Associate Professor, Nuclear Medicine Physicist

Dr. Issa Loutfi MD, MSc, PhD, ABNM, Nuclear Medicine Specialist (UK)  
Associate Professor Nuclear Medicine Physician

Dr. Ismet Sarikaya, MD  
Associate Professor, Nuclear Medicine

Dr. Shorouk F Dannoos, BSc, PhD  
Associate Professor, Radiopharmaceutical Chemist

Dr. Fatma JFM Al-Saeedi, BSc, MSc, PhD  
Assistant Professor, Nuclear Medicine Scientist

Dr. Saud Alenezi, MBBCh, FRCPC, ABNM  
Assistant Professor, Nuclear Medicine Physician

Dr. Mohammad Ghanem, MD, FRCPC,  
Assistant Professor, Nuclear Medicine Physician

Dr. Maryam Yousef Alqabandi, BSc, MSc, PhD  
Assistant professor, Biophysics

Dr. Naheel Alnafisi, MBBCh, FRCPC, ABNM  
Assistant Professor, Nuclear Medicine Physician

### **Teaching Assistants**

Mrs. Jehan M Al-Shammeri BSc, MSc, Radiobiology  
Mr. Ahmad Mahmoud, BSc, MSc

### **Lab Physicians**

None

### **Clinical Tutors**

Dr. Sameerah Fadhel Altailji, Consultant and Head of Unit, Organ Transplanting Center.  
Dr. Meshari Alneaimi, Senior Specialist and Head of Unit, Kuwait Cancer Control Center.  
Dr. Abdelmonem Omar, Consultant, Mubarak Al-Kabeer Hospital.  
Dr. Nafeesa Kazem, Consultant, Mubarak Al-Kabeer Hospital.

### **Visiting Professors and External Examiners**

None

### **External Examiners**

None

### **M.Sc. Students**

Dr Rema Abu Shawareeb  
Dr. Mona Alfarhan  
Dr. Ali Baqer

### **Ph.D. Students**

None

### **SUPPORT STAFF**

#### **Research Assistant and Scientific Assistants**

Mrs. Heba Essam Eldeen, BSc, Scientific Assistant, Nuclear Medicine.

## **Technologists**

- Dr. Mohammad Sakr, BSc, Diploma (Radiation Physics), MSc, PhD, Chief Technologist and Radiation Safety Officer, Radiation Physics
- Ms. Aseel Al Kandari BSc, Technologist, Nuclear Medicine
- Mrs. Esraa Ezat Elkasby, BSc, Technologist, Veterinarian
- Mrs Fatama Alrwaih, BSc, Technologist

## **Biological Researcher**

- Mrs. Samar Almutairi, BSc, Biological Researcher, Zoology

## **Secretaries**

- Mrs. Jehan Essam, BSc Senior Executive Secretary
- Ms. Shikhah Alsafran, BSc Executive Secretary

## **STAFFING CHANGES**

### **Appointed**

Ms. Shikhah Alsafran, Secretary

### **Promotions**

**Dr. Shorouk Dannoon, Associate Professor**

### **Staff who left the departments**

Mrs Fatama Alrwaih, BSc, Technologist

## **TEACHING IN THE DEPARTMENT PROGRAM**

### **I. Faculty of Medicine**

#### **a) Undergraduate teaching**

<b>Lectures</b>	<b>:</b>	<b>26</b>
<b>Tutorials/Seminars/PBL</b>	<b>:</b>	<b>219</b>
<b>Practical /CSL</b>	<b>:</b>	<b>46</b>
		<b>-----</b>
<b>Total teaching hours given to Students per year</b>	<b>:</b>	<b>291</b>

## II. OTHER FACULTIES

### a) Undergraduate teaching in Faculty of Allied Health Sciences

Lectures : 27 Tutorials :

Practicals :

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Post graduate teaching (KIMS/MSc): 253

Clinical teaching: 1114

## RESEARCH AND PUBLICATIONS

### Research:

### \*Funded:

1. GM01/18 Preclinical Nuclear Medicine and Molecular Imaging Laboratory.  
Amount: 491,000 KD

P.I. Prof Eiman Mokaddas  
Co Investigators:  
Prof Abdelhamid Elgazzar  
Prof Mehraj Sheikh  
Prof Mabayoje Oriowo  
Prof Mojiminiyi

2. MN01/18 Preclinical Evaluation of Various Radiopharmaceuticals for Diagnosis Purposes of Heterotopic Bone Formation.  
Amount: 3750 KD

P.I. Dr Shorouk Dannon  
Co Investigators:  
Dr Saud Alenezi  
Prof Abdelhamid Elgazzar

**\*\*Unfunded:**

Title: Timing and quantitation of liver visualization on <sup>99m</sup>Tc Nanocolloid lymphoscintigraphy.

Funding: Funding application in progress

Status: Ongoing

Principal Investigator: Dr Issa Loutfi

Title: Myocardial perfusion imaging in patients with coronary artery stents

Funding: Funding application in progress

Status: Ongoing

Principal Investigator: Dr Issa Loutfi

Title: Optimization of the thyroid/parathyroid imaging protocol.

Funding: Funding application in progress

Status: Ongoing

Principal Investigator: Dr Issa Loutfi

Title: Enhanced display of the pyramidal lobe by Tc-99m pertechnetate thyroid scan as corroborating evidence of thyrotoxic Grave's disease

Funding: Funding application in progress

Status: Ongoing

Principal Investigator: Dr Issa Loutfi

Title: Structural/functional imaging of the fatty liver using Tc-99m colloid liver SPECT/CT

Funding: Funding application in progress

Status: Ongoing

Principal Investigator: Dr Issa Loutfi



Title: Studying Ga-68 PSMA ligand, a new potential radiotracer for renal cortical imaging, in patients with pyelonephritis

Funding: unfunded

Status: Ongoing

Principal Investigator: Dr. Ismet Sarikaya

Title : Is there any role of SPECT/CT in clinical axillary nodal staging (cTNM) of early breast cancer during SLNB? SLN imaging beyond localization

Funding: Unfunded

Status : submitted

Name of principal investigator: Dr Mohammad Ghanem

Title : Value of HbA1C in predicting the image quality in diabetic patients performing FDG PET-CT in an ontological setting

Funding: Unfunded

Status : on going

Name of principal investigator: Dr Mohammad Ghanem

Title : Impact of Obesity on Musculoskeletal Imaging

Funding: Unfunded

Status : Submitted for publication

Name of principal investigator: Saud Alenezi

Name(s) of co-investigators: Shorouk Dannoon, Naheel Al-Nafisi, Abdelhamid Elgazzar

Title : Investigation of a simple protocol to reduce radiation exposure from PET patients

Funding: Unfunded

Status : Submitted for publication

Name of principal investigator: Shorouk F. Dannoon

Name(s) of co-investigators: Saud Alenezi, Naheel Al-Nafisi, Abdelhamid Elgazzar, Samar Almutairi

Title: Hyperostosis Frontalis Interna on Bone Scintigraphy among Obese Patients

Funding: Unfunded

Status : On going

Name of principal investigator: Saud Alenezi

Name(s) of co-investigators: Shorouk Dannoos, Khalid Khalaf, Naheel Alnafisi, Abdelhamid Elgazzar

Title: A retrospective study on the incidence and nature of non-functional nodules documented on thyroid in Graves' disease on thyroid scintigraphy

Funding: Unfunded

Status : On going

Name of principal investigator: Saud Alenezi

Name(s) of co-investigators: Qaisar Siraj, Khalid Khalaf, Naser Al-Awadhi, Abdelhamid Elgazzar

Title: 99m Tc- Pyrophosphate (PYP) imaging for Transthyretin Cardiac Amyloidosis; Kuwait experience

Funding: Unfunded

Status : On going

Name of principal investigator: Saud Alenezi

Name(s) of co-investigators: Qaisar Siraj, Khalid Khalaf

Title: A retrospective study on the impact of obesity on musculoskeletal and non-musculoskeletal systems seen in FI8 NaF study

Funding: Unfunded

Status : On going

Name of principal investigator: Saud Alenezi

Name(s) of co-investigators: Qaisar Siraj, Khalid Khalaf, Sherif Abdulaziz, Abdelhamid Elgazzar

Title: Scitigraphic and histopathological correlation of 99m Tc-setamibi uptake and the cellular characteristics of hyperparathyroid lesions post - surgery

Funding: Unfunded

Status : On going

Name of principal investigator: Qaisar Siraj

Name(s) of co-investigators: Saud Alenezi, Khalid Khalaf

Title : “Preclinical Evaluation of Various Radiopharmaceuticals for Diagnosis Purposes of Heterotopic Bone Formation”

Funding: KU

Status : Ongoing

Name of principal investigator: Dr. Shorouk Dannoon

Name(s) of co-investigators: Dr. Saud Alenezi, Prof. Abdelhamid Elgazzar.

Title: Evaluation of pathophysiological changes in diabetes: role of functional imaging in experimental investigation of diabetes and its complications.

Funding: Unfunded.

Status: On going.

Principal Investigator: Dr. Fatma Al-Saeedi.

Title:  $^{99m}\text{Tc}$ -HMPAO brain test for monitoring pathophysiological changes of early diabetes using a rat animal model.

Funding: Unfunded.

Status: On going.

Principal Investigator: Dr. Fatma Al-Saeedi.

Title: Detection of early change in renal glomerular filtration in experimental diabetes mellitus using radiolabeled  $^{99m}\text{Tc}$ -DTPA and nuclear medicine imaging.

Funding: Unfunded.

Status: On going.

Principal Investigator: Dr. Fatma Al-Saeedi.

Title:  $^{99m}\text{Tc}$  Sulfur colloid and  $^{99m}\text{Tc}$  mebrofenin hepatobiliary functional liver imaging in normal and diabetic rats: Biochemical blood sampling.

Funding: Unfunded.

Status: On going.

Principal Investigator: Dr. Fatma Al-Saeedi.

Title:  $^{99m}\text{Tc}$  Sulfur colloid functional liver imaging in normal and diabetic treated with insulin rats: A histological changes view.

Funding: Unfunded.

Status: On going.

Principal Investigator: Dr. Fatma Al-Saeedi.

Title: Testing and studying the effect of plant extracts for anticancer properties: mangiferin (as an example) on oxidative stress and its mechanism of actions using different tumor cell lines: A tissue culture and experimental tests using tumor detecting radiopharmaceuticals.

Funding: Unfunded.

Status: On going.

Principal Investigator: Dr. Fatma Al-Saeedi.

### **Publications:**

### **Original Articles:**

1. **Sarikaya I**, Baqer A, Sarikaya I. Anemia and PET Imaging. Clin Trans Imaging. Accepted. 2021.
2. **Sarikaya I**, et al. Liver, Glucose Metabolism,  $^{18}\text{F}$ -fluorodeoxyglucose PET and Liver Lesions. Accepted. AJNMMI. 2021.
3. **Sarikaya I**, Alqallaf A, et al. Renal Cortical Scarring:  $^{68}\text{Ga}$ -PSMA-11 PET versus  $^{99m}\text{Tc}$ -DMSA Scan in a Case with Pyelonephritis. Accepted for publication, JNMT 2021.
4. Schierz JH, **Sarikaya I**, et al. Immune checkpoint inhibitor related adverse effects and FDG PET/CT findings. Accepted for publication, JNMT 2021.

5. **Sarikaya I**, Albatineh A, et al. Assessing the correlation between FDG PET findings of IDC breast carcinoma and histopathology of coexisting DCIS. Nucl Med Rev Cent East Eur. Accepted. 2021.
6. **Sarikaya I**. Breast Cancer and PET Imaging. Nucl Med Rev Cent East Eur. 2021;24:16-26.
7. **Sarikaya I**, Alqallaf A, Sarikaya A. Renal Cortical 68Ga-PSMA PET and 99mTc-DMSA Images. JNMT, 2021;49:30-33.
8. Alenezi S, **Dannoon S**, Alnafisi N, Asa'ad S, Osman M, Elgazzar A. Effect of Brown Adipose Tissue Activation on Myocardial [<sup>18</sup>F]FDG Uptake. World Journal of Nuclear Medicine **2020**; *19*: 41-46.
9. Ghanem M, **Dannoon S**, Elgazzar A. The added value of SPECT-CT in the detection of heterotopic ossification on bone scintigraphy. *Skeletal Radiology*. **2020**; 49(2):291-298.
10. **Al-Saeedi FJ**, Al-Waheeb SK, Rajendran P, Khan KM, Sadan M. Early initiation of insulin attenuates histological and functional changes in the liver of streptozotocin-induced diabetic rats using 99mTc-sulfur colloid functional imaging. J Recept Signal Transduct Res 2021;15:1-7. doi: 10.1080/10799893. 2021.1912097.
11. Rajendran P, **Al-Saeedi FJ**, Ben Ammar R, Elsayed M, Islam M, Al-Ramadan S, ElNaggar M, Bekhet G. Kaempferol inhibits zearalenone-induced oxidative stress and apoptosis via the PI3/AKT-mediated Nrf2 Signaling pathway: in vitro and in vivo studies. Int J Mol Sci. 2020;22(1):E217. doi: 10.3390/ijms22010217.
12. Rajendran P, Ben Ammar R, **Al-Saeedi FJ**, Elsayed Mohamed M, Islam M, Al-Ramadan SY. Thidiazuron decreases epithelial-mesenchymal transition activity through the NF-kB and PI3K/AKT signalling pathways in breast cancer. J Cell Mol Med. 2020. doi: 10.1111/jcmm.16079.
13. **Al-Saeedi FJ**. Mangiferin protect oxidative stress against deoxynivalenol induced damages through Nrf2 signalling pathways in endothelial cells. Clin Exp Pharmacol Physiol. 2020. doi: 10.1111/1440-1681.13432.
14. **Maryam Alqabandi\***, Nicola de Franceschi, Sourav Maity , Nolwenn Miguët , Marta Bally, Wouter H. Roos , Winfried Weissenhorn, Patricia Bassereau and Stéphanie Mangenot. BMC Biology (2021) 19:66 <https://doi.org/10.1186/s12915-021-00983-9>  
Human ESCRT-III polymers assemble on positively curved membranes and induce helical membrane tube formation.
15. Aurélie Bertin\*, Nicola de Franceschi\*, Eugenio de la Mora, Sourav Maity, **Maryam Alqabandi**, Nolwenn Miguët, Aurélie di Cicco, Wouter H. Roos, Stéphanie Mangenot\*, Winfried Weissenhorn\* & Patricia Bassereau\* Nature Communications volume 11, Article number: 2663 (2020)

### **Abstracts:**

1. **Sarikaya I**, et al. Assessing regional FDG uptake in the brain in normal, low, and high blood glucose levels. EANM Annual Meeting, October 2019, Barcelona, Spain.
2. **Sarikaya I**, et al. DMSA scan versus MR imaging in pyelonephritis: A Meta-analysis. EANM Annual Meeting, October 2019, Barcelona, Spain.
3. **Sarikaya I**, et al. FDG PET findings in invasive ductal carcinoma of the breast with and without coexisting DCIS. EANM Annual Meeting, October 2019, Barcelona, Spain.
4. **Loutfi I**, et al. Quantitative Analysis of F-18 Fluorodeoxyglucose (FDG) PET/CT Uptake in the Orbit & Ocular Muscles. Society of Nuclear Medicine and Molecular Imaging MidWinter Meeting, Tampa, Florida, USA, 2020.
5. **Alenezi S**, et al. Effect of Brown Adipose Tissue Activation on Myocardial [18F] FDG Uptake. 6th International Conference on Radiation Medicine (ICRM2020) hosted by King Faisal Specialist Hospital and Research Centre (KFSH&RC), in collaboration with the International Atomic Energy Agency (IAEA) and Alfaisal university (AFU), along with other national and international institutions and professional societies, in Riyadh, Kingdom of Saudi Arabia, from 09 to 13 February 2020.

### **Books:**

1. Elgazzar AH, Alenezi S: Concise guide to Nuclear Medicine, second edition, Springer, Berlin New York.
2. Elgazzar AH. Infection and inflammation. Kuwait university, 2021

### **Book Chapter:**

1. "**Benzo(a)pyrine induced ROS- mediated lung cancer**" In Section 3: Oxidative Stress in Diseases, Section: Oxidative Stress in Carcinogenesis, Handbook of Oxidative Stress and Cancer. **Authors: Al Saeedi FJ, Radsajensdran P, et al. March 31, 2020. Springer Nature; In Press.**

### **Awards:**

- **Third place winner of the [Scientific Poster Day Event-in March](#)- Kuwait university-research sector- for the academic year 2020-2021.**

### **CONTRIBUTIONS**

- a) **Participation in Ministry/Government activities**

#### **Prof. Abdelhamid H. Elgazzar**

1. Seconded as Senior Consultant at the Department of Nuclear Medicine, Mubarak Al-Kabeer Hospital.

2. Member, national radiation safety committee, MOH.
3. Clinical tutor, Postgraduate Training Program in Nuclear Medicine, Kuwait institute for medical specialization (KIMS).

**Dr. Gaber Ziada**

1. Tutor, postgraduate training program in Nuclear medicine, Kuwait institute for medical specialization (KIMS)

**Dr. Issa Loutfi**

1. Seconded as Senior Consultant of Nuclear Medicine, Department of Nuclear Medicine, Mubarak Al-Kabeer Hospital
2. Research coordinator, Department of Nuclear Medicine, Mubarak Al-Kabeer Hospital
3. Member of the staff Orientation Committee, Mubarak Al-Kabeer Hospital
4. Member of the KIMS Nuclear medicine program examination committee

**Dr. Ismet Sarikaya**

Seconded as a senior consultant to Mubarak Al-Kabeer Hospital, MOH  
Teaching at Nuclear Medicine Residency program, KIMS, MOH

**Dr. Shorouk Dannoan**

1. Seconded to Mubarak Al-Kabeer Hospital, Ministry of Health, Department of Nuclear Medicine until March 2021 and transferred to Farwaneya Hospital April,2021.
2. Radiopharmacy tutor, postgraduate training program in Nuclear medicine, Kuwait institute for medical specialization (KIMS)

**Dr. Saud Alenezi**

1. Clinical Seconded to Farwaneya Hospital
2. Clinical tutor in KBNM-KIMS
3. Head of National Amyloidosis team, MOH
4. Member of Nuclear Medicine equipment and consumables committee, MOH

**Dr. Fatma Al-Saeedi**

1. Hospital service (Radiopharmacy laboratory). Ministry of Health-Mubarak Al-Kabeer Hospital-Nuclear Medicine Dept. September.

**Dr. Mohammad Ghanem**

1. Head of Nuclear Medicine Unit, Medical Imaging Department, Jaber AlAhmad Hospital.
2. Program Director, Kuwait board Post-graduate Training Program, Kuwait Institute of Medical Specialization

**Dr. Maryam Alqabandi**

1. Seconded to Mubarak Al-Kabeer Hospital, Ministry of Health, Department of Nuclear Medicine

**Dr. Naheel Alnafisi**

1. Seconded as a consultant and head of nuclear medicine unit, Mubarak al Kabeer hospital. MOH until December 2020.

**b) Offices (e.g. president) held in professional organizations.**

**- Prof. Abdelhamid H. Elgazzar**

1. Chief Advisor, International Committee for Development of Cancer Centers.
2. Member, Committee for Synchrotron-light for Experimental Science and Applications in the Middle East (SESAME), UNISCO.
3. Advisor, Arab Society of Nuclear Medicine

**- Dr. Gaber Ziada**

1. Member, European Society of Nuclear Medicine (ESNM)
2. Member, American Society of Nuclear Medicine (SNMMI)
3. Member, society of Nuclear Cardiology (ASNC)
4. Member, Egyptian society of Nuclear medicine specialist (ESNMS)

**- Dr. Issa Loutfi**

1. Member Society of Nuclear Medicine and Molecular Imaging
2. Member Kuwait Society of Nuclear Medicine and Molecular Imaging
3. Fellow Royal Statistical Society

**- Dr. Ismet Sarikaya**

1. Department representative, Respiratory module
2. Society of Nuclear Medicine (USA)
3. Turkish Society of Nuclear Medicine

**- Dr. Fatma Al-Saeedi**

1. Member, Society of radiopharmaceutical sciences, SRS, 2020-2021.
2. Member, Swiss Society of Radiopharmacy / Radiopharmaceutical Chemistry, SGRRC, 2020-2022.

**- Dr. Saud Alenezi**

1. Member, European Society of Nuclear Medicine (ESNM)
2. Member, American Society of Nuclear Medicine (SNMMI)
3. Member, Canadian Society of Nuclear Medicine (CSNM)



- **Dr. Mohammad Ghanem**
  1. Society of Nuclear Medicine and Molecular Imaging
  2. British Institute of Radiology
  3. Kuwait Society of Nuclear Medicine and Molecular Imaging
  
- **Dr. Naheel Alnafisi**
  1. Member, Canadian Society of Nuclear Medicine (CSNM)
  2. Member, European Society of Nuclear Medicine (ESNM)
  3. Member, American Society of Nuclear Medicine (SNMMI)
  4. Member, society of Nuclear Cardiology (ASNC)
  
- c) **Advisory editor services for professional journals.**
  
- **Prof. Abdelhamid H. Elgazzar**
  1. Member, Editorial Board, International Journal of Orthopedics.
  2. Member, Editorial Board of World Journal of Nuclear Medicine.
  3. Member, Editorial Board, Asia Oceania Journal of Nuclear Medicine & Biology.
  4. Member, Editorial board, Egyptian Journal of Nuclear Medicine.
  5. Member, Editorial board of Pakistan Journal of Nuclear Medicine.
  6. Reviewer Journal of Nuclear Medicine and Molecular Biology.
  7. Member, Editorial board journal of case reports of medicine.
  8. Member, editorial board, clinics in oncology
  9. Regional editor, Gulf Journal of Oncology
  
- **Dr. Gaber Ziada**
  1. Advisory Editor, Egyptian J Nuclear Medicine
- **Dr. Issa Loutfi**
  1. Reviewer, Medical Principles and Practice
  2. Reviewer, Kuwait Medical Journal
  3. Reviewer, Journal of Nuclear Medicine Technology
  4. Member of the editorial board: International Journal of Radiology & Medical Imaging
  5. Medical Imaging

Weekly contributor to Afaq (Kuwait University Newspaper)
  
- **Dr. Ismet Sarikaya**
  1. Reviewer, World Journal of Nuclear Medicine

- **Dr. Shorouk Dannoon:**

1. An active reviewer in the Journal of Radiochimica Acta since November 2014.
2. An active reviewer in the World Journal of Nuclear Medicine since January 2019

- **Dr. Saud Alenezi**

1. Reviewer, Journal of Nuclear Medicine Communications
2. Reviewer, World Journal of Nuclear Medicine

- **Dr. Fatma Al-Saeedi**

1. Reviewer, Bentham Journals.
2. Reviewer, Life Sciences.

d) **Active participation in professional conferences.**

Conference attendance by staff shall be listed only in cases of active participation in the conference. Please give staff member name, date and place of conference, title of paper/abstract/poster or nature of activity (guest speaker/chaired session etc.)

- **Prof. Abdelhamid H. Elgazzar**

1. Keynote speaker, Pakistan society of Nuclear Medicine, April 2021

- **Dr. Gaber Ziada**

1. Egyptian Nuclear Medicine Congress, Program Coordinator, Chairperson, Egypt 2020.

- **Dr. Issa Loutfi**

1. Online attendance to the British Society of Nuclear Medicine Spring Meeting 18-19 May 2021
2. Attendance of e-learning presentations/courses, Faculty of Medicine and Kuwait University covering MS Teams, Blackboard and related subjects 2020-2021

**Dr. Ismet Sarikaya**

1. Sarikaya I, et al. Is there a correlation between PET and histopathology findings of the invasive ductal carcinoma of breast with the histopathological features of coexisting DCIS? EANM Annual Meeting, October 2020, Vienna, Austria.
2. Sarikaya I, et al. Gender related difference in PET SUV in overweight and obese people. EANM Annual Meeting, October 2020, Vienna, Austria.

**-Dr. Fatma Al-Saeedi**

1. Online Kuwait university Moodle LMS-Proctorio -Respondus Monitor - Lockdown Browser, Al-Khwarizmi Information Technology Training Center, Kuwait university, Al-Kahldiah, Kuwait. March, 2021.
2. Online OneNote. December 2020, Kuwait University, Kuwait.

e) **Service as external examiners outside Kuwait.**

None

f) **Contribution to committees in the Faculty of Medicine.**

**Prof. Abdelhamid H. Elgazzar**

1. Member Accreditation steering committee, Faculty of Medicine
2. Chairman, human resources accreditation subcommittee
3. Member, Ethics committee
4. Member, faculty promotion committee
5. Member, radiation safety committee
6. Coordinator, clinical nuclear medicine course, MSc Program
7. Coordinator, Scientific writing and communication course, graduate program

**Dr. Gaber Ziada**

1. Member, Judges committee; health Science Center Poster conference 2021
2. Director of MS and PhD programs in Nuclear Medicine.
3. Member, Departmental Appointment & Contract Renewal Committee.
4. Member, Departmental Scholarships Committee.
5. Member, Initiation of PhD Program Committee.
6. Member, Committee to initiate MSc in Medical Physics Program.

**Dr. Issa Loutfi**

1. Member of the Organizing Committee 25<sup>th</sup> Health Sciences Center Poster Conference 2020-21
2. Member departmental Appointment & Contract Renewal Committee
3. Member departmental Scholarships Committee
4. Member Departmental Graduate Program (PhD & MSc) Committee
5. Departmental representative Phase II curriculum review committee for the Endocrine System
6. Departmental representative Phase II curriculum review committee for the Renal System
7. Departmental representative Phase II curriculum review committee for the Reproductive System & Breast

**Dr. Ismet Sarikaya**

1. Coordinator / Research Committee, Department of Nuclear Medicine
2. Department representative, Respiratory module

**Dr. Saud Alenezi**

1. Member of Examination Committee, Phase I.
2. Member of Examination Committee, Phase III.
3. PBL coordination group
4. CVS module committee
5. Nuclear Medicine Master Program
6. Departmental recruitment/appointment committee

**Dr. Mohammad Ghanem**

1. Member of phase II examination committee at Faculty of Medicine
2. Member of the Health and Safety committee at Faculty of Medicine.
3. Member of the departmental Appointment and Contract Renewal Committee
4. Member of Departmental Graduate Program (MSc) Committee

**Dr. Shorouk Dannoon:**

1. Member of the Departmental Scholarship Committee
2. Member of the department appointment and contract renewal committee
3. Member of the Accreditation Human Resources Sub-Committee
4. Student Advisor
5. Member of the Second Phase examination Committee.

**Dr. Maryam Al-Qabandi**

1. Staff – Student Consultative Committee

**g) Contribution to committees outside the Faculty**

**Prof. Abdelhamid H. Elgazzar**

1. Member, scientific journal accreditation committee, Kuwait University
2. Member, national radiation protection committee
3. Member, social security fund for university employees, Kuwait University
4. Chairman, promotion review committee, faculty of dentistry

## **CONCLUSION**

The Department of Nuclear Medicine has continued to strive in the provision of excellence in teaching, research, clinical services, and community contributions. The department remains dedicated to the establishment of a well-equipped research facility that will include radiochemistry and computer laboratories, and the Micro SPECT/PET/CT in which a general faculty grant was approved. The department has produced 16 original articles, 1 book and 1 book chapter.

The major obstacle however is the lack of proper clinical site with an academic philosophy and atmosphere to facilitate further development in teaching, service and research activities. The supply of radiopharmaceuticals has stopped from ministry of health. University administration must resolve once for all the many obstacles caused by the ministry of health which have and still cause significant deterioration of our position as a teaching and research department locally and internationally. The department is in need for senior staff in clinical and medical physics since the department is hoping to activate the PhD program.

# **OBSTETRICS AND GYNAECOLOGY**

## 1.0 INTRODUCTION

Obstetrics and Gynaecology is a rapidly evolving and a wide-ranging specialty with an extensive training programme that opens up lots of career paths such as opportunities for personal career development, standing astride both internal medicine and surgery. It is an exhilarating and fulfilling career. The Obstetrician is at the centre of this important event of childbirth by the woman. It is a life course experience which focuses on improving women's health at all stages of their lives. It is a most demanding in developing and maintaining standards of clinical skills and team work and spirit and on many occasions stressful. The life course epidemiology, encompasses the contribution of biological and social factors acting independently, interactively, and cumulatively during gestation, childhood, adolescence, and adult life on health outcomes in later life. a discussion of challenges and opportunities in the study of women's health in its mixture mode of Medicine and Surgery. It is therefore a common link in women health before, during and after the reproductive years, and the women's partners and children. Since the early 20th century there has been collaboration with other healthcare providers such as midwives, laboratory technologists, paediatrician, surgeons, physicians, radiologists and radiographers, and physiotherapists. This collective effort and team spirit has resulted in rapid progress in maternal and child care. Women and their husband now demand high standard of care. Some of the key areas of advancement of O & G include Pregnancy and birth care with attention to pre-pregnancylike viral (Rubella) screening and immunization (Vaccination), folic acid prophylaxis to prevent neural tube defect (NTD).

Pre-pregnancy counseling of women with chronic medical disorders like diabetes mellitus, hypertension, renal disorders and haemoglobinopathies. Prenatal diagnosis techniques, routine antenatal care and fetal monitoring in labour evolved during the 20th century with enormous improvement in paediatric and neonatal care. This has resulted in definite reduction in perinatal and maternal mortality globally.

Through a unique tripod combination of innovative didactic reflections, clinical and practitioner interactions, the undergraduate programme of Department of Obstetrics and Gynaecology, Faculty of Medicine, Kuwait University, Kuwait, continues to deliver the hands on clinical experience and skills necessary for well grounded medical practitioners and suitable candidates for postgraduate specialisation in Obstetrics and Gynaecology and related subspecialties of Reproductive medicine, fetal-maternal medicine, gynae oncology and urogynaecology. Although the Covid-19 pandemic has negatively impacted the enviable medical training set since the beginning of March 2020, there has a strong imperative to innovate and tackle the associated challenges. The administration of Kuwait University has continued to nurture a sustainable platform of learning and acquisition of clinical skill through e-learning and online teaching with Microsoft-Team. In an altruistic manner, the medical students, academic and support staff were deliberately placed in the front queue for vaccine jabs. This has made gradual return to face to face interactions between staff and students and patients much safer and the students delved into the digital and the new information dissemination system for lectures, problem-based learning (PBL) and students led seminars (SLS),

## **2.0 Our Mission, Vision and Profile**

### **2.1 Our Mission**

With the global and drasticallt negative impact of the pandemic on medical education, to train and produce medical doctors that are well grounded in the science and practice of Obstetrics and Gynaecology and the digital system. This will obviously be able to contribute towards enhancement of Women’s healthcare in Kuwait. In addition, the doctors would have a solid foundation for postgraduate training and specialisation in Obstetrics and Gynaecology and subspecialisation in Reproductive Medicine and Assisted Reproductive Technology (ART), Maternal and Fetal Medicine, Gynae Oncology and Uro-Gynaecology.

### **2.2 Our Vision**

The vision of the future will embrace a robust staff development program through the Faculty of Medicine Scholarship Program and Staff recruitment. The department is in the forefront in contributing to the erecting of a solid structure of sustainable women healthcare, with operational excellence with dedication, honesty and integrity.

The department will set the standards in community relations and service and actively promote the sustainable development of maternal healthcare in Kuwait. The department will provide for its staff an exciting and fulfilling place to work and the opportunity to develop their potential with an international outlook and mindset.

### **2.3 Profile of the department**

The department has continued to be blessed with a conundrum of intellectuals of enviable background of academic specialisation, namely, Reproductive Medicine and Assisted reproductive Technology (ART), Fetal and Maternal Medicine, Gynaecological oncology and Urogynaecology. Expertise in Reproductive endocrinology, Reproductive Immunology and reproductive Physiology abound. With the unpredictable pandemic, there has apparent underperformance in the students involvement in labour ward activities. This is an area of the curriculum that needs urgent reshaping as the Covid-19 begins to take a bow. Similarly, research philosophy will need revalidation in keeping with the vision of the future. The academic staff members of the department have continued their involvement in community services as specialty and sub-specialty experts, by offering quality clinical services at the Maternity and Adan Hospitals. They have used their expertise in giving hope to many in areas of Reproductive Medicine (infertility), Maternal fetal Medicine, Gynae Oncology and Urogynaecology.

## **2.4 MANPOWER**

### **1. ACADEMIC STAFF**

#### **1. Faculty Members**

Dr. Alexander E.Omu FRCOG  
Professor & Chairman,  
Since March 4, 2014  
Joined 1992



Dr. Eyad Al-Saleh, FRCS(C)  
Professor  
Joined 2000

Dr. Majedah K. Al-Azemi, FRCOG  
Professor  
Joined 2000

Dr. Majed Al-Shammari, FRCS (C)  
Associate Professor,  
Joined 2000

Dr. Rachana Chibber, FRCOG  
Associate Professor  
Joined December 2008

Dr. Jehad Al-Harmi, FRCS(C)  
Assistant Professor  
Joined January 2006

Dr. Waleed Al-Jassar, FRCS(C)  
Assistant Professor  
Joined July 2009

Dr. Baydaa Al-Sannan, FRCS(C)  
Assistant Professor  
Joined Dec. 2013

Dr. AbdulRahman Al-Serri, FRCS(C)  
Assistant Professor  
Joined August 2015

**2. Teaching Assistants- Nil**

**3. Lab Physicians- Nil**

**2. Clinical Tutors**

1. Dr. Khalid Al-Najjar, Senior Specialist, Kuwaiti Board, Maternity Hospital.  
(Chairman of Obstetrics & Gynaecology Dept., Maternity Hospital)
2. Dr. Abeer Al-Zaydai, Senior Specialist, MRCOG, Adan Hospital.  
(Chairperson of Obstetrics & Gynaecology Dept., Adan Hospital)
3. Dr. Mohammed Foda, Consultant, FRCOG, Adan Hospital.
4. Dr. Khaled Al-Akkad, Consultant, MD, Adan Hospital..

5. Dr. Mona Taleb Al-Qanae, Consultant, Arab Board, Maternity Hospital.
6. Dr. Iman Shamali, Consultant, FRCOG, Maternity Hospital..
7. Dr. Warqa Al-Shayji, Consultant, FRCS(C), Maternity Hospital.
8. Dr. Ashraf S.M El-Badry, Consultant, Arab Board, Adan Hospital.
9. Dr. Maysoun A. Hasan, Consultant, Kuwaiti Board, Maternity Hosp.
10. Dr. Mohammed Farghali, Senior Specialist, MD, Maternity Hospital.
11. Dr. Huda Abdul Hameed, Senior Specialist, MRCOG II, Maternity Hospital.
12. Dr.Fatima Hadoud, Senior Specialist, Kuwait Board, Maternity Hospital.
13. Dr. Amal A. Abdulla, Specialist, Kuwaiti Board, Maternity Hospital.
14. Dr. Fatima Al-Dehrab, Specialist, MBCHB (Aberdeen) , Maternity Hospital.
15. Dr. Hanan Al-Khatlan, Specialist, Kuwait Board, Maternity Hospital.
16. Dr. Alia Al-Tuhoo, Specialist, Kuwait Board, Maternity Hospital.
17. Dr. Fatima Al-Ameeri, Specialist, MRCOG 1, Kuwaiti Board,  
Maternity Hospital
18. Dr. Hadeel Al-Hamadi, Specialist, Maternity Hospital.
19. Dr. Mustafa Mohd. Nawar Ali, Senior Registrar, Maternity Hospital.
20. Dr. Shaikha S. Al-Salem, Senior Registrar, Kuwait Board,  
Maternity Hospital.

**New Clinical tutors**

21. Dr. Bashayer Awad Saeed, Speicalist, Maternity Hospital.
22. Dr. Eman Abdalnasser Alsayegh, Specialist, Maternity Hospital.
23. Dr. Ala'a Adel Behbehani, Senior Registrar, Maternity Hospital.

**3. Visiting Professors and External Examiners**

**None - because of the Covid pandemic**

**4. Scholarship Students – Nil**

**5. SUPPORT STAFF**

**a) Scientific Assistants**

1. Susan George, BSc., MSc. Joined 2001

**b) Technicians**

1. Asiya Tasneem Ibrahim B.Sc, B.Ed., Chief Technician, Joined 1984
2. Wisam Muawad, BSc. Joined May 2009
3. Smitha Pariyani, MSc., Joined, November, 2012
4. Anju Raveendran Nair, BVSc & AH., Joined April, 2013
5. Chetana Madala, BTech Biotechnology, Joined December, 2017

**c) Secretaries**

1. Alexander Joseph, B.Sc. Joined December, 2009.
2. Mrs. Noor H. R. Tatari, BSc., Computer Science, Joined December, 2019.

**6. STAFFING CHANGES**

1. **Promotions:** - Nil
2. **Academic staff on Sabbatical leave:** - Prof Majedah Kumeik Al-Azemi will be on sabbatical leave from September 2021( postponed from 2019-2020 academic year)

**3.0 Operative objectives of the Department: Broad Objectives.**

The department continues with its overall broad objectives which include:

1. Equipping the student with the basic cognitive knowledge as well as psychomotor and affective skills related to the practice of obstetrics and gynaecology.
2. Sharpening the communication skills of the students to be able to confidently evaluate the obstetrical and gynaecological problems of the patients concerned under the supervision of senior or junior colleagues.
3. Supporting and encouraging excellence in professional competence of academic

staff through an effective continuing education programme, biomedical and clinical research and active participation at International Conferences.

- 4 Involving academic staff members in community service, in quality patient care, in health policy evolution and community education and leadership.
- 5 Creating enabling environment for acquisition of digital knowledge in response to pandemic induced new information technology

### **3.1 Undergraduate Programme**

Our undergraduate teaching programme has continued to offer the students high level of clinical knowledge, acumen and expertise. The making of a young medical doctor needs experienced and dedicated personnel. The Department has continued to play this role with a high degree of professionalism. The emphasis on communication in Obstetrics and Gynaecology and increased and improved patient contact in the undergraduate programme has begun to yield dividends in the student-patient relationship. This has improved the gathering of data to understand the problems of patients and develop better rapport with the patients and their relations. The sixth year (2nd Clinical Year), Phase III students, rotated through Obstetrics and Gynaecology under Course Nos. 0590604 & 0590605 respectively, in three batches designated E, D and F Groups. Each group of students is taught in block system over approximately 12 weeks; some of the rotations were shortened because of dedicated holidays. The department is working hard to fulfill the tenets of the new curriculum [Phase III], with absolute confidence in facing the inherent challenges posed in its implementation. It seems the e-learning necessitated by the devastating impact of Covid-19 pandemic on education globally, especially on medical education.

### **3.2 Specific Learning Objectives:**

At the end of the posting in Obstetrics and Gynaecology the students would demonstrate:

1. Requisite skills in obtaining a pertinent history and performing physical examination, with special regard to female pelvic organs in health and disease;
2. Ability to recognize the normal, detect the abnormal, and plan an approach to diagnosis and management of common diseases in the practice of obstetrics and gynaecology;
3. Competence to carry out the conduct of normal delivery and recognize abnormal and high risk labour;
4. Skills for fetal and newborn evaluation;
5. Ability to communicate with patients and to gain their confidence and attention, while discussing specific health problems with them;
6. Comprehensive knowledge of diseases and conditions affecting human fertility and their evaluation and the understanding of methods of fertility regulation;
7. Ability to interpret data of haematological, biochemical, histopathological and imaging investigations commonly employed in the practice of obstetrics and gynaecology;
8. Comprehensive knowledge of the use, possible abuse and adverse effects of drugs in pregnancy, as well as in pre-and post-menopausal periods;
9. Comprehension of the role and functions of Health Care Team;
10. Ability to appreciate the continuity of primary, secondary and tertiary health care, from peripheral clinic to hospital, hospital outpatients to ward, effectively combining inter-professional consultation and other services, and the follow-up;
11. Adequate knowledge about epidemiological and preventive aspects of gynaecology and obstetrics pertaining to the sociocultural background of the patients;
12. Awareness of, and sensitivity to, the religious belief and social customs in reproductive health;

13. Adequate knowledge of the need and rationale of vital statistics as an instrument of medical auditing, and for the ascertainment of disease burden in the community;
14. Knowledge of basic surgical practice in Obstetrics and Gynaecology;

#### **4.0 Curriculum development and reforms**

With the dynamic curriculum of the department that is built on transformational innovative spirit, emphasis is placed on use of emergent technology. Inevitably this will continue to enhance standards, quality and learning expectations, thus creating enabling and conducive learning environment for both students and teachers

#### **4.1 Undergraduate Teaching**

##### **Student-Centered Technique (PBL and Quizzes) and Mini-CEX**

The department has continued to work hard towards the successful implementation of the Phase III curriculum in Obstetrics and Gynaecology. This student-centered learning process has gained the full attention of all the academic staff, the clinical tutors and the students.

The interest, the team-spirit, joy and enthusiasm with which the students prepare for their seminars is not only a testimony to the necessary role of the student seminars, but also a stoical reflection of the absolute acceptance of this self-learning technique. Similarly the multi-disciplinary seminars have put the stamp of an all-embracing legitimacy and credibility in our vertical and horizontal integration with other departments of the Faculty of Medicine.

In addition to didactic lectures, and PBL sessions, tremendous emphasis has been placed on daily clinical activities which was from 7.00a.m to 4.00p.m before the covid pandemic. The expectation is that the restructure consequent on Covid pandemic, will be reversed, when the infection takes its bow. The students have continued to work hard in the preparation and submission of their clinical notes during each rotation and some of the clinical notes submitted were of outstanding quality. The students also took call-duty in their respective clinical units and they participated in the supervision of mothers in labour and they conducted

some deliveries under supervision. The overall basic aim has been the training of a doctor who is knowledgeable about the health problems of the community, and has the expertise and effective skills of communicating his concerns and interventional strategies to the citizenry. The students have adapted fully to the new innovative curriculum, especially the student led seminars (SLS) in groups of 4-6 students and have continued to emphasize research, team work and presentation in front of their peers.

### **Mini-CEX**

This is a formative assessment of core clinical skills in a One-On-One encounter between a student and a clinical staff, in which the student takes a focused history for about 5 minutes and examines the patient. The Clinical staff then reviews the performance of the students for 10 minutes. Two Mini-CEX sessions are carried out 3<sup>rd</sup> week of the clinical posting and the week before the end of the posting In-course assessment. It highly evaluated by the students and staff.

And passing out from the curriculum the the young medical doctors will be better equipped to face the challenging demands of an ever changing and advancing field of clinical care and research. The academic members of staff were also actively involved in the comprehensive training of residents of Kuwait Board of Obstetrics and Gynaecology (KIMS).

**4.2** Clinical thinking through clinico-pathological correlation. Clinical reasoning, also known as clinical judgment, is the process by which clinicians collect signs, process information, understand the patient's medical situation or problem, plan and implement appropriate medical interventions, evaluate outcomes, and learn from this entire process. In a nutshell, medical professionals use clinical reasoning to consider the various aspects of patient care and make a relevant and appropriate decision aimed at prevention, diagnosis, and treatment of a patient's problem: a critical aspect of strong clinical skills and quality care. This

important aspect of teaching is gradually gaining momentum through sessions on clinic-pathological correlation with use of surgical pathological specimens and instruments.

**4.3** The use of a BluePrint at the beginning of the academic year- to guide academic staff to showcase the scope of their lectures and clinical interactions with the medical students and what to involve in the Incourse and end of year final assessment.

#### **4.4 End of Posting and end of year assessment**

Computerised Eloops in MCQ format- Although this has a clinical hue, it is structured in the format of multiple choice questions (MCQ). It is a fair plain level playing field of assessment. We have used it in the three rotational incourse and final assessment in the current academic year. A computerised MCQ assessment has gained reliability and success. In addition to saving of stationery, it has resulted in ease of computation of results. Both students and staff have highly evaluated the outcome of these two important reforms.

#### **5.0 Staff Development and Activities:**

The department plans to have a focus and greater emphasis in the sub-specialty interests in reproductive medicine, maternal-fetal medicine, gynaecological oncology and urogynaecology with some of our academic staff already in most of these areas of specialisation. In spite of the heavy clinical and teaching load of the academic members of staff, the department has not relented in its research efforts. The Department has continued to be involved through its members, in community service, with membership of many committees in the Faculty of Medicine and Kuwait University, and the Ministry of Health and Kuwait Institute for Medical Specialisation (KIMS).

### **6.0 TEACHING IN THE DEPARTMENT PROGRAM**

#### **6.1. Faculty of Medicine**

##### **a) Undergraduate teaching**

Alexander E. Omu



## 1.0 Introduction

I became a faculty member of Department of Obstetrics and Gynaecology in September 1992 as an Associate Professor and promoted to the rank of a full Professor in 1998. It gives me tremendous feeling of appropriate contribution, when I am greeted by former students who are now Faculty or consultants in different hospitals in Kuwait. I have been fully involved in curriculum development in the Department of Obstetrics and Gynaecology, Faculty of Medicine, Kuwait University, Kuwait. In addition to ageing, which is a natural biological process, I have gained tremendous academic, clinical and research experiences. But above all, I am wiser in human resources management. Yet there have been many and intricate challenges, which undoubtedly enriched my wisdom and experience luggage. Any beginning must have an end. I have acquired the ripe age for retirement according to law.

## 2.0 Undergraduate Programme:

Medical students contact encompasses lectures, clinics, ward rounds (bedside care), labour wards, theatre sessions and seminars. The clinico-pathological correlation has become a teaching tool during theatre sessions.

- (a) Students-contact hours in lectures /seminars / clinical activities
1. Introduction to the posting in Obstetrics and Gynaecology 2 hours per annum
  2. Reproductive anatomy and physiology 6 hours per annum
  3. Primary and secondary sex differentiation and Endocrinology of puberty. 6 hours per annum
  4. Communication in O & G, ethics of practice, domestic violence/sexual abuse 6 hours per annum
  5. Benign and Malignant Ovarian tumors 6 hours per annum
  6. Recent advances in O & G / Vital statistics 6 hours per annum
  7. Surgical/Pathological specimens for the weekly session of Clinico-pathological Correlation 24 hours per annum
  8. Supervision of students seminars 16 hours per annum
- (i) Pre-operative, intra-operative and post-operative care

of the gynaecological and obstetrical patients.

(ii) Maternal mortality

(iii) Infections in Pregnancy

9.	Revision	
	i. Multiple Choice Question mock exam and review	6 hours per annum
	ii. Objective Structured Clinical Examination (OSCE)	6 hours per annum
	iii. Museum Specimens	6 hours per annum
10.	Multidisciplinary seminar on "Imaging in Obstetrics and Gynaecology" with Department of Radiology of Faculty of Medicine, Kuwait University and Ultrasonography Unit.	3 hours per annum
11.	Multidisciplinary Seminar with Pathology and Microbiology 'Pelvic inflammatory disease'	6 hours per annum
12.	Mini-Cex – 2 per rotation	3 hours per annum
	Subtotal	102 hours per annum

## 2.2 Maternity Hospital

13.	Early morning ward round four times a week	60 hours per annum
14.	Teaching in the two outpatient clinics per week and Theatre Sessions once a week and 1 on 4 on-call duty	72 hours per annum
15.	Grandround / labour ward / on-call ward round	72 hours per annum
16.	Student tutorials-clinical thinking and reasoning	60 hours per annum

**Total Contact Hours** **366 hours per annum**

## Eyad Al-Saleh

### Undergraduate Teaching:

#### Students-Led Seminar

1.	Surgical Instruments in Obs and Gynae	6 hours per annum
2.	Obstetrics and Gynae Emergencies	6 hours per annum

#### Medical School Day

3.	Surgical Instruments in Obs and Gynae	6 hours per annum
4.	Participated and supervised all in-course examinations and final examination.	
5.	Interactive teaching	<b>82 hours per annum</b>

**Total contact hours :** **100 hours per annum**

**Majedah K. Al-Azemi**  
**Undergraduate Teaching**

Lectures:

1.	Obstetrics Haemorrhage -late pregnancy bleeding . Postpartum Haemorrhage	6 hours per annum
2.	Management of Infertility	6 hours per annum
3.	Examination and discussion	18 hours per annum
<b>Total</b>		<b>30 hours per annum</b>

**Practical and Clinical Teaching:**

1.	Bedside teaching: case presentation and management discussion and grand ward rounds.	72 hours per annum
2.	Involvement of students in labour ward activities, Outpatient clinic and operating theatre.	72 hours per annum
<b>Total</b>		<b>174 hours per annum</b>

PBLs (Problem Based Learning) 30 hours per group x 3 groups **90 hours per annum**

I have participated in all in course and final examinations conducted for our students

**Total contact hours** **300 hours per annum**

**Majed Al-Shammari**

**Lectures:**

i. The following topics were presented as part of the Obstetrics and Gynecology sixth year teaching program, and repeated over the year for three groups.

1.	Antepartum and Intrapartum Fetal monitoring	6 hours per annum
2.	Low birth weight: Preterm and Intrauterine growth restriction	6 hours per annum
3.	Case presentation: selective cases given including pyelonephritis in pregnancy and postoperative complications.	6 hours per annum

Medical School Day (MSD)

Rhesus iso-immunisation. Hydrops fetalis. Prevention &

Management. 4 hours per annum

**Total** **22 hours**

- ii. Clinical Teaching: Direct and daily supervision of students rotating in Unit II in Maternity Hospital including outpatient 10hours/week and inpatient care, emergency room, labour wards, operating theatre(average 5 hours/week). Students were encouraged to participate under supervision with clinical duties. Regular tutorials and case presentations are conducted.

**Total:** **144 hours per annum.**

Exam preparations

Preparation for exams 30 hours per annum

Correction of Incourse exam

1. OSCE/E-Loops ( 3 hours per rotation) 9 hours per annum

2. Essays and short notes (4hours per rotation) 12 hour per annum

**Total** **217 hours per annum**

### **Rachana Chibber**

#### **Lectures / Multidisciplinary / Students Seminars:**

- |     |  |   |         |           |
|-----|--|---|---------|-----------|
| 1.  | Principle of Preconception counselling, antenatal, intrapartum and postnatal care  | : | 6 hours | Per annum |
| 2.  | Multiple Pregnancy   | : | 6 hours | Per annum |
| 3.  | Drugs in Obstetrics and Gynaecology  | : | 6 hours | Per annum |
| 4.  | Premature Rupture of Membranes and Preterm deliveries . This was a Multidisciplinary Seminar with the department of Pediatrics | : | 6 hours | Per annum |
| 5.  | Surgical Instruments in Obstetrics & Gynaecology   | : | 6 hours | Per annum |
| 6.  | Gynae-endoscopy  | : | 6 hours | per annum |
| 7.  | Obst. & Gyne Emergencies   | : | 6 hours | per annum |
| 8.  | Family planning  | : | 6 hours | per annum |
| 9.  | Contraception and Counselling  | : | 6 hours | per annum |
| 10. | Medical School Day   |   |         |           |
|     | 1) Contraception and Counselling   | : | 1 hour  | per annum |
|     | 2) Premature Rupture of Membrane (PROM) and Preterm Deliveries   | : | 1 hour  | per annum |

- |                               |   |                  |
|-------------------------------|---|------------------|
| 3) Gynae Endoscopy            | : | 1 hour per annum |
| 4) Surgical Instruments       | : | 1 hour per annum |
| 5) Obst. & Gynae. Emergencies | : | 1 hour per annum |

### **Clinical**

Clinical teaching / Demonstration in Clinics : 6 hours each week

Bed side Teaching / Demonstration Stations /

Tutorials in the Ward during Grand Rounds : 90 hours per annum

Demonstrations / Teaching / Tutorials in the Operating

Theatres' adjoining room and during the on call /

Emergency duties of the students

I have participated in all in course and Final examinations of Phase III and Final

Examinations

of Phase II for our students.

### **Phase II Renal Reproductive and Breast Module – Lecture**

Normal Menstrual Bleeding and Menstruation Disorders : 2 hours

### **Problem based Learning**

- |   |   |     |       |
|---|---|-----|-------|
| 1. Obstetrics and Gynaecology per annum | : | 160 | hours |
|---|---|-----|-------|

Conducting of Incourse Exams

- |                          |   |                    |
|--------------------------|---|--------------------|
| 1. OSCE/E-Loops          |   |                    |
| 2. Essay and Short notes | : | 80 hours per annum |
| 3. Clinical              |   |                    |

### **Co-ordinator**

- Phase III co-ordinator Ob/Gyn since the start in **2010 till 2014**

**Total Teaching hours : 397 hours per annum**

**Student Evaluation: Consistently Excellent**

### **Jehad Al-Harmi**

#### **Undergraduate teaching**

- Teaching Activities for Sixth year medical students: 21 hours**

**Lectures:**

1. Management of normal and abnormal labor
2. Hypertensive disorders of pregnancy
3. Diabetes and pregnancy
4. Physiology of pregnancy

**Student-led Seminars:**

1. Normal and abnormal puerperium
2. Menopause and postmenopausal disorders

**Medical School Day Presentations:**

1. Infections of the lower genital tract
2. Sexually transmitted diseases

**Bedside teaching in Maternity Hospital: 128 hours**

Average of four sessions per week

**Other activities: 146 hours**

1. Preparation for exams and lectures
2. End of rotation evaluation and review
3. PBL sessions for one rotation
4. Medical School Day
5. Marking exams
6. Review sessions

**2. Teaching Activities For Phase II Students: 75 hours**

1. Preparation of 3 learning topics for Reproductive/Breast module
  - i. Labor initiation
  - ii. Teratogens
  - iii. Sexual response cycle
2. Lectures for 4th year medical students in Reproductive/Breast module:
  - i. Lactation
  - ii. Menopause
  - iii. Introduction to clinical Obstetrics and Gynaecology

**Grand Total 370 hours**

**Dr. Waleed Al-Jassar**

**Lectures:**

1. Benign and malignant conditions of the ovary 3 hours per annum

2.	Trophoblastic disease	3 hours per annum
3.	Seminars (MDS):	
1.	Screening for cervical cancer	1 hour per annum
2.	Uterine malignancies	3 hours per annum
3.	Pelvic inflammatory disease (PID)	3 hours per annum
4.	Carcinoma of Cervix	2 hours per annum
4.	Lower abdominal mass (SLS)	2 hours 15 Minutes per annum
5.	HPV & gynecological disorders (SLS)	1 hour per annum
6.	Examination and discussion	18 hours per annum
<b>Total Lecture hours</b>		<b>36 hours per annum</b>

**Practical and Clinical Teaching:**

1.	Bedside teaching: case presentation and management discussion and grand ward rounds.	72 hours per annum
2.	Involvement of students in labour ward activities, Outpatient clinic and operating theatre.	72 hours per annum
		<b>192 hours per annum</b>

PBLs (Problem Based Learning) 30 hours per group x3groups **90 hours per annum**

I have participated in all in course examinations conducted for our students

**Total teaching hours 282 hours per annum**

**Other years (Phase 2 programme)**

1. Actively involved in Year 3 & 4 Phase 2- OSCE/OSPE (since 2012 till date) teaching programme.
2. As Examiner in Phase 2 Examinations since 2012 till date.
3. Actively involved in Year 3 & 4 Phase 2 examinations as invigilator and marker since 2012 till date.
4. Phase II Lecture, Reproductive Breast Module. Name of Lecture: Benign and malignant ovarian conditons. Course ID. 0580403.

**Baydaa Al-Sannan**

**Teaching Activities**

## **Lectures**

1. Teaching Phase III clinical Rotation,  
Topic “Genital Prolapse and urinary incontinence
2. Teaching Phase III clinical Rotation,  
Topic “Abnormal Uterine bleeding”
3. Student led seminar teaching lectures, Phase III clinical rotation  
Topic “Maternal Mortality-the way forward”
4. Student led seminar teaching lectures, Phase III clinical rotation  
Topic “Infections in pregnancy ”
5. Participation as PBL Facilitator in phase III 6<sup>th</sup> year students Rotation, 4 hours per week. Total of 8-9 PBLs in each group

**108 hours**

## **Clinical Teaching**

- Clinical teaching at the hospital about 7 hours/week (morning and on call teaching).
- Bedside teaching, clinic, Labor room and OR for phase III groups/ OBGYN clinical rotation.

**- 154 hours**

## **Examination:**

I have participated in all in course and final examinations conducted for our students

## **Phase II**

1. Teaching Phase II preclinical Renal, reproductive and breast system module
  - a. Early fetal development
  - b. Fertilization and implantation
2. Participation as PBL Facilitator in phase II of RRB system module
3. Participation as PBL Facilitator in phase II of blood system module
4. Participation as PBL Facilitator in phase II of Digestive system module

## **Examination:**

I have participated in Markers for OSCE examinations Phase-II

**Total Contact Hours**

**- 268 hours**



## **AbdulRahman Al-Serri**

Actively involved in teaching (undergraduate/postgraduate) setting exams, examination of undergraduates, committees' member, and research.

### **Undergraduate programme**

Lectures:

Title of Course: Phase III - Obstetrics and Gynaecology , 059604 & 059605

#### **Core lecture:**

- |                           |                   |
|---------------------------|-------------------|
| 1. 1st trimester bleeding | 3 hours per annum |
|---------------------------|-------------------|

#### **Medical school day:**

- |  |                  |
|--|------------------|
| 1. Assisted reproductive technology (ART) in Kuwait. | 1 hour per annum |
| 2. Hyperandrogenism.                                 | 1 hour per annum |

#### **Clinical:**

- |   |                    |
|---|--------------------|
| 1. Mini-CEX teaching (3 hours per rotation x 3 rotations)     | 9 hours per annum  |
| 2. Small group teaching (10 hours per rotation x 3 rotations) | 30 hours per annum |
| 3. PBL Facilitator (4 hours per week x 9 weeks)               | 36 hours per annum |

#### **Exam facilitator/examiner:**

- |   |                    |
|---|--------------------|
| All In-course exams (MCQ/eLoops) (4 hours each x 3 rotations) | 12 hours per annum |
| Final exam (MCQ/eLoops/ OSCE)                                 | 14 hours per annum |
| Correction of repeat exams                                    | 2 hours            |

#### **Phase II:**

- |  |        |
|--|--------|
| Lecture-1: Fertilization and Implantation. | 1 hour |
|--|--------|

#### **Total contact hours**

**109 hours per annum**

## **6.2 Postgraduate teaching**

### **Alexander E. Omu**

- |  |                    |
|--|--------------------|
| 1. Supervision of candidates from Kuwait, preparing for the MRCOG and Kuwait Board of Obstetrics and Gynaecology.  | 30 hours per annum |
| 2. Daily supervision of the medical/resident doctors, grand round teaching, one theatre session per week and management of a busy labour unit with about 40 deliveries/day, once a week and in a 1 in 5 call duty system, including weekends and national Public Holidays. | 72 hours per annum |

3. Morning hand-over meetings 30 hours per annum  
**Total contact hours 132 hours per annum**

**Eyad Al-Saleh**

**Lectures:**

1. Contribution to Residency programme in Kuwait Board of Obstetrics and Gynaecology.

**Majedah K. Al-Azemi**

**Lectures/Seminars/Clinics/Beside Teaching/Grand Rounds:**

1. Director, Kuwait Board of Obstetrics and Gynaecology Programme
2. Involvement of teaching of Kuwait Board candidates

**Examination:**

- Actively involved in the programme
- Supervision of postgraduate trainees
- Practical preparation of residents for clinical examination and final examination
- Preparing question papers
- Conducting examinations

**Rachana Chibber**

1. Conducting and active participation in sessions for Residents preparing for post graduate examinations in various countries.
2. Imparting bedside clinical training in the residents and preparing them for their Examination.

Total lectures/ Training/ Contact hours (Seminars) : 80 hours per annum

**Total Teaching hours 80 hours per annum**

**Dr. Jehad Al-Harmi**

**Postgraduate teaching for Kuwait Board Residents in KIMS 50 hours**

Once weekly sessions

**Activities of Exam Committee 50 hours**

**Dr. Waleed Al-Jassar**

**Chairman, Faculty of Obstetrics and Gynaecology , KIMS, Kuwait.**

1. Contribution to Residency programme in Kuwait Board of Obstetrics and Gynaecology as a direct teaching in hospital and seminars.

**Examination:**

- Supervision of postgraduate trainees in operation theatres
- Practical preparation of residents for clinical examinations and final examinations
- Preparation, invigilation & correction of examinations

**Baydaa Al-Sannan**

**Lectures/Seminars/Clinics/Beside/Teaching/Grand Rounds:**

Contribution in clinical teaching for the Kuwaiti Board resident of Obstetrics & Gynecology at the clinic's, OR's and grand rounds.

**AbdulRahman Al-Serri**

Post graduate teaching (Kuwaiti board of ObGyn residency program)

1. Hyperandrogenism and PCOS	1 hour
2. Amenorrhea and Premature ovarian failure	2 hours
3. OSCE training/Small group teaching	24 hours
4. Clinical/surgical teaching (3 hours per week x 44 weeks)	132 hours
<b>Total contact hours per annum:</b>	<b>159 hours</b>

1. OTHER FACULTIES - Nil
2. STUDENT ADVISORS – Advisor for CV preparation./on student staff committee

**7.0 RESEARCH AND PUBLICATIONS**

**7.1 Research:**

**Alexander E. Omu**

**Proposal for funding**

1. The role of Kisspeplin on pregnancy outcome.

**Projects as Principal investigator – unfunded research**

1. Anti-Mullerian Hormone: A biomarker of male sex development and Ovarian reserve
2. Implications of Altered Cytokine Network on Seminal plasma.
3. Changing Trend on conservative surgical management of ovarian torsion

4. The Role of Oxidative Stress and butyrylcholinesterase on the pathogenesis of Gestational Diabetes Mellitus (GDM) and seminal parameters
- 5 Significance of Oxytocin receptors in Pregnancy

**Projects as Co-investigator and Manuscripts under preparation**

- 1 Waleed Al-Jassar, Alexander Omu and Others. The Burden and Characteristics of gynaecological cancer in Kuwait
- 2 Waleed Al-Jassar, Alexander Omu and Others. Diagnosis and cultural impact of Disorders of sex development
- 3 Waleed Al-Jassar, Zainab Bello, Khalid Al-Najjar, Alexander Omu. Trend in ectopic pregnancy at the Maternity Hospital, Kuwait.
- 4 Jehad Al-Harmi, Ala'a Behbehani, Alexander Omu and others Mini Cex for the clinical evaluation of 6th year medical students in posting
- 5 Jehad Al-Harmi, Ala'a Behbehani, Alexander Omu and others Management of preterm labour with Atosiban
- 6 Jehad Al-Harmi, Florence Omu, Waleed Al-Jassar and Alexander Omu. The effect of Gestational Diabetes Mellitus on Cytokine Network

**Eyad Al-Saleh**

1. Nandakumaran M, Al-Sannan B, Chibber R, Al-Dossary M, Alshammari M, **Al-Saleh E.** Transport of some essential trace elements across the human placenta in diabetic pregnancies in late gestation. Project Duration: 36 Months. Start of Project: 1st October 2011. Funds Approved: 78050 K.D. (SEVENTY-EIGHT THOUSAND AND FIFTY KUWAITI DINARS) **End of Project : 30 November, 2016.**  
**Evaluation Report : EXCELLENT**

**Majedah K. Al-Azemi**

**Ongoing Project No. MO 01/16**

1. Follicular fluid concentration of vascular endothelial growth factor, Inhibin A and Inhibin B in IVF cycles: Are they markers for Ovarian response and pregnancy outcome?  
Principal Investigator: Prof. Majedah K. Al-Azemi  
Contributor 1: Doctor Mohammed Hatem Al-Husseiny  
Contributor 2: Susan George

Total Budget of Project: KD 4000/-

Project starting date: March 24, 2017

Project ending date: March 24, 2018

Project Research Productivity:

Conference paper submitted and accepted for oral presentation for the 24<sup>th</sup> Annual International Conference on New Trends and Developments in Women's Reproductive Health conducted by the Egyptian Fertility and Sterility Society on 29-30 November, 2018.

### **Majed Al-Shammari**

#### **Research projects:**

1. Nandakumaran M, Al-Sannan B, Chibber R, Al-Dossary M, **Alshammari M**, Al-Saleh E. Transport of some essential trace elements across the human placenta in diabetic pregnancies in late gestation. Project Duration: 36 Months. Start of Project: 1st October 2011. Funds Approved: 78050 K.D. (SEVENTY-EIGHT THOUSAND AND FIFTY KUWAITI DINARS) **End of Project : 30 November, 2016.**

**Evaluation Report : EXCELLENT**

### **Rachana Chibber**

#### **Contribution to Research**

##### **1. Ongoing Project/Projects under preparation**

- i. Confidential enquiries into Maternal Deaths in Kuwait: Going beyond figures.
- ii. Vaginal birth after cesarean section in the grand multipara with a previous lower segment scar.
- iii. Induction of labor in grand multiparous women and previous cesarean section: Is it safe?
- iv. High order gestation: Triplet and beyond: A growing concern

## **Jehad Al-Harmi**

### **On-going projects:**

1. Maternal and fetal/neonatal outcomes in pregnancy complicated by diabetes
2. Use of oral hypoglycemic agents in pregnant patients with type II diabetes
3. The impact of obesity on pregnancy outcome
4. Vitamin D deficiency in pregnant women
5. Patient profile in patients with secondary postpartum hemorrhage
6. Patient profile in VBAC in Adan Hospital
7. The effect of Miswak on human endometrium
8. Prevalance of GDM in Kuwait (Dasman Diabetes Institution)
9. Impact of COVID-19 pandemic on pregnancy outcomes during lockdown
10. Pregnancy outcome with COVID-19 infection

## **Waleed Al-Jassar**

### **Projects as principal investigator and Manuscripts under preparation**

- 1 **Waleed Al-Jassar**, Alexander Omu and Others. The Burden and Characteristics of gynaecological cancer in Kuwait
- 2 **Waleed Al-Jassar**, Alexander Omu and Others. Diagnosis and cultural impact of Disorders of sex development
- 3 **Waleed Al-Jassar**, Zainab Bello, Khalid Al-Najjar, Alexander Omu. Trend in ectopic pregnancy at the Maternity Hospital, Kuwait.

## **Baydaa Al-Sannan**

### **1. Research in preparation (Ongoing project)**

**Title:** Effects of Intraperitoneal administration of pentosan polysulphate on hematalogic, metabolic parameters and antioxidant enzyme status in normal, pregnant and experimentally- induced diabetic rats.

**Investigators:** **Baydaa Al-Sannan**, Moorkath Nandakumaran, Jehad Al-Harmi, Alexander Omu.

Project Duration 2-3 years; Grant Amount to be requested: 42000 KD. Proposed starting Date 1<sup>st</sup> January or 1<sup>st</sup> April, 2019 (Subject to approval and funding).

### **2. Research in preparation (Ongoing Project)**

**Title:** Pilot study on the prevalence of Toxoplasma gondii in some aborted women and household cats.

**Investigators:** Adawia Henedi, Baydaa Alsannan, Fawzi Able, Ghadeer Akbar, Osama Alazazy, Attia Sami, Khoshy Varghese

Project Duration 1 year, source of Fund: Public authority of agriculture affairs and fish Resources, Ethical approval from MOH. Started March 2018

### **3. Completed Project**

#### **(KFAS) Research Project # 2010-1302-03**

Nandakumaran M, **Al-Sannan B**, Chibber R, Al-Dossery M, , Al-Shammary M, and Al-Saleh E.

Duration of Project: 36 months. Budget Requested: 78050 KD.

Start Date: 1 Oct., 2011; End of Project: 30 November, 2015. Project Successfully Completed

**Title:** Transport of some essential trace elements across the human placenta in diabetic pregnancies in late gestation.

### **AbdulRahman Al-Serri**

#### **1. Ongoing research projects:**

In affiliation with McGill University:

1. Timing of embryo transfer in natural-cycle frozen-thawed embryo transfer.
2. RCT: IUI catheter prewash.
3. Progesterone start in frozen-thawed embryo transfer cycles.

In affiliation with Ministry of Health (MOH) and Kuwait University

1. **Seven** projects with Ethical approval.

### **7.2 Publications:**

#### **Alexander E. Omu**

1. **Omu AE, Omu FE.** Effect of smoking on Cytokine Network. Published in proceedings of 72nd Tobacco Science Conference

#### **Papers under preparation**

As above

### **Eyad Al-Saleh**

1. Nandakumaran M., Foda M, **Al-Saleh E.** Maternal-Fetal Transport Kinetics of outcome of methyl Glucose in Diabetic Model Perfused Human Placenta: In Vitro Study. Journal of Diabetes Research & Therapy 2019 ( In Press)
2. Nandakumaran M., Foda M, Al-Shammari M, **Al-Saleh E.** Maternal-Fetal Transport Kinetics of Arachidonic Acid in Insulin-Dependent Diabetic Pregnancies in Vitro Journal of Global Diabetes & Clinical Metabolism, 2019 (In Press)
3. Al-Sannan B, Al-Harmi J. Nandakumaran M. Foda M, **Al-Saleh E.** Assessment of Pregnancy Outcome in Diabetic Obstetric Population in Kuwait Tertiary Hospital. Int J. Scient. Res 8, 322-325, 2019

### **Majedah K. Al-Azemi**

1. Omu AE, **Al-Azemi MK**, Omu FE, Al-Harmi J, Diejomaoh FME. Attitudes of academic staff and students towards the objective structured clinical examination (OSCE) in Obstetrics and Gynaecology Creative Education 2016.
2. Omu A E, **Al-Azemi M K**, Omu F E, Mohammed AT, George S. Genital Operations and Male Infertility: Is Inguinal hernia a component of Testicular Dysgenesis Syndrome? Journal of Genital System & Disorders. 2016  
Papers under preparation
3. Omu AE, **Al-Azemi MK**, Al-Jassar WF, Omu FE, George S, Mohammed TS  
The implications of altered cytokine network in seminal plasma.
4. Proinflammatory and anti-inflammatory cytokines in fetal growth retardation. Clin and Exp Obstetrics & Gynaecology 2016; 48:98-103.

### **Papers under preparation**

1. Omu AE, **Al-Azemi MK**, Al-Jassar WF, Omu FE, George S, Mohammed TS  
The implications of altered cytokine network in seminal plasma.
2. Omu AE , **Al-Azemi MK**, Omu FE, George S , Pariyani S , Nair A, Muawad W  
Association between Oxidative Stress and Butyrylcholinesterase Activity in Human semen
3. Omu AE , **Al-Azemi MK**, Omu FE, George S , Pariyani S , Nair A, Muawad W  
Association between Oxidative Stress and Butyrylcholinesterase Activity in Human semen



### **Majed Al-Shammari:**

- 1) Nandakumaran M., Foda M, **Al-Shammari M**, Al-Saleh E. Maternal-Fetal Transport Kinetics of Arachidonic Acid in Insulin-Dependent Diabetic Pregnancies in Vitro Journal of Global Diabetes & Clinical Metabolism, 2019 (In Press)
- 2) Al-Sannan B, Nandakumaran M., Al-Harmi J, **Al-Shammari M**, Foda M. Transport Kinetics of Chromium in Perfused Human Placental Lobule in Late Gestation: In Vitro study J. Mat-Fet Neonat Med. Doi: 10. 1080/14767058.2018.1454425, 2018

### **Rachana Chibber:**

1. Chhabra N, Gupta A, **Chibber R**, Minhaj M, Hofer J, Mueller A, Tung A, O'Connor M, Scavone B, Rana S, Shahul S. Pregnancy Hypertens, 2017 Oct;10: 143-148  
Outcomes and mortality and parturient and non-parturient patients with peripartum cardiomyopathy: A national readmission database study.
2. Heba Naseem 1, John Dreixler 1, Ariel Mueller 1 2, Avery Tung 1, Rohin Dhir 1, **Rachana Chibber** 3 (2020 Jun 4). Antepartum Aspirin Administration Reduces Activin A and Cardiac Global Longitudinal Strain in Preeclamptic Women. Journal of American Heart association :10.1161/JAHA.119.015997. Epub 2020 Jun 4.  
,AbidFazal 1, Joey P Granger 4, Bhavisha A Bakrania 4, Victoria deMartelly 5, Sarosh Rana 8, SajidShahul 1

### **Dr. Waleed Al-Jassar**

1. Diejomaoh MF, Bello Z, **Al-Jassar W**, Jirous J, Karunakaran K, Mohammed AT. Consecutive successful pregnancies subsequent to intravenous immunoglobulin therapy in a woman with recurrent spontaneous miscarriage. Int. Med Case Rep J. 2015; 8: 337-44.
2. Diejomaoh MFE, **Al-Jassar W**, Bello Z, Karunakaran K, Mohammed AT. The significance of the second cesarean section in the reduction of institutional cesarean section delivery rates. Obstet Gynecol 2015; 125: 15S

## **Baydaa Al-Sannan**

1. Adawia Abdul-ruhman Henedi, Sulaiman Salisu, Abdullah Asem, **Baydaa Alsannan:** Factors Associated with the Prevalence of head lice among children in kindergarten and primary Schools in Kuwait, International Journal of Applied and Natural Sciences(IJANS), April 2019.
2. **Baydaa F Alsannan**, Ghadeer S Akbar, Anthony P Cheung, Comparison of hysterosalpingography and hysteroscopy in evaluating the uterine cavity in infertile women, MOJ Women's Health, Volume 8(I)., Pages 46-49, January-2019.
3. **Baydaa AlSannan**, Jehad Al-Harmi, Moorkath Nandakumaran, Mohammed Foda, Eyad Al-Saleh, Assessment of pregnancy outcome in diabetic obstetric population in Kuwait tertiary hospital, International Journal of Scientific Research, Volume-8, issue-1, ISSN No 2277-8179, Pages 322-325, January-2019.
4. **B. Al-Sannan**, M. Nandakumaran, J. Al-Harmi, M. Al-Shammari, M. Foda, Transport kinetics of chromium in perfused human placental lobule in late gestation: in vitro study, The Journal of Maternal-Fetal & Neonatal Medicine, Published online 5 April 2018, :1-7. doi: 10.1080/14767058.2018.1454425.

## **Abdulrahman Al-Serri**

- Co-author Poster conference 2019. "Accuracy and appropriateness of social media content in five medical specialties.

## **8.0 CONTRIBUTIONS TO COMMUNITY SERVICE**

### **Alexander E. Omu**

#### **8.1 Participation in Ministry/government activities**

- Member
- i) Departmental Council
  - ii) Committee of Heads of Units
  - iii) Adhoc Investigative Panels

#### **8.2 Membership of Committees in Faculty of Medicine**

1. Member, Faculty Council

2. Member, several Adhoc Promotion Review Committees, Faculty of Medicine.
3. Member, Curriculum Assessments and Admission Committee
4. Member, Promotion Committee, Faculty of Allied Health, Health Sciences Center

### **8.3 Departmental**

1. Chairman, Dept. Of Obstetrics and Gynaecology (March 4, 2014 till Date)
2. Phase 3 curriculum Committee
3. Undergraduate Examination Committee
4. Phase 2 curriculum Committee
5. Chairman, Scholarship Committee
6. Chairman, Promotion and appointment committee
7. Member Postgraduate Committee
8. Chairman Student Grievances Committee

### **8.4 Clinical Services for Ministry of Public Health, Kuwait**

1. Head of Unit III Maternity Hospital, Kuwait
2. Two clinics per week at Maternity Hospital
  - i. Outpatient clinic in Obstetrics and Gynaecology
  - ii Combined-Infertility Clinic (Andrology Consultation)

### **9. Reviewer to International Journals**

1. Kuwait Medical Journal (KMJ)
2. Medical Principles and Practice (MPP)
3. Archives Gynec and Obstet
4. Eur J Obs Gynec and RB
5. Saudi J of Medical Sciences
6. J. Obstetrics and Gynaecology
7. Journal of Nutrition and Metabolism

### **10. Scientific Conferences Attended (Impact of Covid-19 Pandemic)**

- 1 High risk Pregnancy RCOG-MENA region Webinar July 21, 2020
- 2 RCOG-MENA Region Webinar September 18,2020
- 3 ERC-RCOG International Representative Committee in collaboration Middle East Fertility Society ,, Update on INfertility and Assisted Reproductive Technology

November 22, 2020.

4. Jordan Society of Obstetrics and Gynaecology and RCOG on Gynae Oncology  
21/5/21  
All were virtual meetings online

### **Eyad Al-Saleh**

#### **Participation in Ministry/government activities**

1. President, Kuwait Society of Obstetrics and Gynaecology from 1999 till date.
2. Consultant, Obstetrics and Gynaecology Department, Adan Hospital, Ministry of Health, Kuwait till 2019.
3. Consultant, Gynaecological Oncologist, Kuwait Cancer Center, 1999 till date.
4. Professor, Obstetrics and Gynaecology Department, Faculty of Medicine, from 2009.
5. Vice-Dean for Research, Faculty of Medicine from Feb. 2003 - August 2007.
6. Chairman, Dept. of Obstetrics and Gynaecology from Jan. 2006 for two years.
7. Member- Gynaecology and Obstetric Council, Ministry of Public Health, 2006.

#### **Chairmanship/Membership in Faculty/Univ. Committees**

1. Examination Committee member
2. Phase III Curriculum Committee member
3. Departmental Appointment and Promotion Committee member
4. Departmental Scholarship Committee – Member
5. Post Graduate Committee – Member
6. Department Safety Committee – Member
7. Department Space Committee – Member
8. Department Student Grievances Committee

#### **Membership in Scientific Societies**

1. Society of Obstetricians and Gynaecologists of Canada
2. American College of Obstetricians and Gynaecologists
3. Society of Canadian Colposcopists
4. Society of Advanced Endoscopic Surgery – France
5. DA Boyes Society of Gynaecological Oncology of British Columbia – Canada
6. Society of Gynaecological Oncologist of Canada- first member from the Arabian Gulf and the Middle East to join this society.

7. Kuwait Medical Association.

### **Conferences Attended**

ECCMID Conference – Copenhagen April 25-28, 2015

### **Health Sciences Centre Poster Conference**

1. Nandakumaran M, Foda M, George S, Nair AR, **Al-Saleh E**, Al-Shammari M Effect of hyperglycemia on maternal-fetal transport of arachidonic acid in ‘Diabetic Model’ placental lobule. Health Sciences Centre Poster Conference, 2-4 May 2016, Kuwait. .
2. Nandakumaran M, Al-Shammari M, George S, Nair AR, **Saleh E**. Maternal-Fetal Transport of Arachidonic Acid in Pre-eclampsia Blood Flow ModEL Placental Lobule: In Vitro Study . Health Sciences Centre Poster Conference, 10-12 March, 2019, Kuwait.

### **Majedah K. Al-Azemi**

#### **a. Membership of the following committees:**

#### **Faculty of Medicine**

1. Member MRC Committee, Faculty of Medicine
2. Phase II Coordinator for Renal Reproductive module 2009 till date
3. Member, Department’s Promotion and Appointment committee
4. Member, Departmental Examination Committee
5. Member, Departmental Scholarship Committee
6. Chairperson, Department Postgraduate Committee

#### **Ministry**

1. Member Kuwait Institute of Medical Specialisation (KIMS)
2. Director, Kuwait Board of Obstetrics and Gynaecology
3. Maternity Hospital
  - a. Antenatal Clinic, Recurrent abortion clinic, and infertility clinic
  - b. Member of the following committees at Maternity Hospital
    1. Scientific Committee
    2. Drugs and instruments committee
    3. Emergency committee

#### **International**

1. Member of Royal College of Obstetricians and Gynaecologists (RCOG)

### **International Conference attended**

1. Gynaecological Surgery Course – Practical Laparoscopic Anatomy for Advanced Gynaecological Techniques. Strasbourg, France. 16-18 April 2018.
2. Benign Abdominal Surgery Hands on Practical Course on Laparoscopic Psychrometer Skills and Energy Modalities Joint RCOG/BSGE Meeting. London, UK. 17-19 September, 2018.

### **Health Sciences Poster Conference**

1. Saeed BA, Behbehani A, Abduellahi M, **Al-Azemi M**, Omu A E. Mayer-Rokitansky-Kuster-Hauser ( MRKH) Syndrome
2. Omu AE, **Al-Azemi MK**, Al-Jassar WF, Mohammed TA, George S and Monem R. Antimullerian Hormone is a marker of Spermatogenesis but not Sperm quality

### **Reviewer to Journals**

1. Lancet
2. Fertility & Sterility
3. Expert review of Obstetrics & Gynecology
4. Biochemistry, Molecular Biology and Biophysics
5. Kuwait Medical Journal

### **Majed Al-Shammari**

#### **a. Participation in Ministry/Government activities**

#### **Faculty of Medicine**

1. Member of the Department of Obstetrics and Gynaecology Research Committee
2. Member of the Department of Obstetrics and Gynaecology Phase III Curriculum Committee
3. Member of the Department Safety Committee
4. Member of the Department Examination Committee
5. Member of the Department Promotion and Appointment Committee.
6. Member of the Department Scholarship Committee
7. Member of the Department Space Committee
8. Member of the Department Postgraduate Committee

## **Ministry**

1. Consultant, Maternity Hospital, Kuwait, Unit 1/III.
2. Special Maternal-Fetal Medicine Clinics, Maternity Hospital, Twice weekly.

## **Membership of committees outside Faculty**

1. Faculty of Obstetrics and Gynaecology, KIMS.
2. Member of the Scientific Committee, Maternity Hospital.
3. Maternity Hospital (clinical duties).
  - i. Consultant, Obstetrics and Gynaecology Unit III/V
  - ii. Maternal and Fetal Medicine subspecialty clinic on Sundays and Mondays, receive referrals of complicated pregnancies from all over Kuwait.

## **Rachana Chibber**

### **Participation in Ministry / Activities:**

1. Senior Consultant, Obstetrics and Gynaecology Department, Adan Hospital, Ministry of Kuwait till date.
2. Associate professor, Obstetrics and Gynaecology department, Faculty of Medicine continued from December 2008 till date.
3. Obstetrics and Gynaecology clinics etc. at Adan Tertiary Hospital

## **Faculty of Medicine**

1. Medical Student Advisor- O& G
2. Member, 19<sup>th</sup> Health Science Centre Poster conference May 2014 Kuwait

## **Departmental Committees**

1. Departmental Safety Committee
2. Departmental Space Committee
3. Department Research Committee
4. Phase III Curriculum Committee - Chairperson
5. Postgraduate Committee
6. Secretary, Department Council Meetings
7. Departmental Examination Committee
8. Departmental Scholarship Committee
9. Departmental Promotion Committee/Renewal of Contract
10. Students and Hospital Affairs Co-ordinator at Adan Hospital

### **Membership in Scientific Societies**

1. Royal college of Obstetricians and Gynaecologists (UK)
2. Indian College of Obstetricians and Gynaecologists

### **Scientific Conferences attended:**

1. 24th Annual Conference on Challenges in Gynecology, New York, USA. December 14-15, 2018
2. Symposia Medicus Conference on Emergency Medicine January 29 – February 1, 2020 OAHU, HAWAII USA

### **Jehad Al-Harmi**

On-call duties and coverage of Unit V activities	10 weeks
Weekly participation in theatre activities and out-patient clinics	40 weeks

### **Participation in Ministry/government activities**

#### **a. Faculty of Medicine**

1. Assistant Professor, Dept. of Obstetrics and Gynecology at the Faculty of Medicine, Kuwait University.
2. Consultant in Unit V, Maternity Hospital
3. Membership & participation in:
  - Departmental Council
  - Examination Committee
  - Phase III curriculum committee
  - Phase II curriculum committee
  - Phase III examination committee
  - Departmental Scholarship Committee
  - Departmental Research Committee
  - Faculty Library Committee
  - PBL facilitators' team
  - Member in academic accreditation steering committee
  - Head of task team on standard one in academic accreditation
  - Department representative in distance-learning committee
  - Department representative in health and safety committee
4. Expert witness in 4 court cases
5. Referee for Principles and Practice of Medicine Journal



6. Participation in seminars, workshops, and conferences

### **Participation In Ministry Of Health Activities:**

#### **a. Ministry of Health**

1. Member of the Committee for Revision of National Accreditation Standards
2. Member of the national committee for the protection of children's rights
3. Surveyor for the Ministry of Health

#### **b. Membership in Scientific Societies**

1. Member of the Kuwait Medical Association since 1988
2. Fellow of the Society of Obstetricians and Gynecologists of Canada since 1993
3. Fellow of the Royal College of Physicians and Surgeons in Canada since 1997
4. Fellow of the American College of Obstetricians and Gynecologists of America since 2005

#### **Community Services**

1. Survey for New Mowasat Hospital with Accreditation Canada International (November 2020)
2. Survey for Wara Hospital with Accreditation Canada International (December 2020)

#### **Scientific Activities**

1. Abbott webinr: Motherhood challenges (September 2020)
2. Pregnancy after bariatric surgery webinar (November 2020)
3. Presented SURGQ8 webinar: Trauma in pregnancy and perimortem CS (February 2021)
4. Presented Soroptimist workshop for survivors of domestic violence: Medical and health empowerment (March 2021, Kuwait)

### **Dr. Waleed Al-Jassar**

#### **1. Ministry/Government activities**

##### Membership Ministry

1. Chairman, Faculty of Obstetrics and Gynaecology, Kuwait Institute of Medical Specialization (KIMS)
2. Member, Kuwait Medical Association (KMA)
3. Member, Kuwait Institute of Medical Specialization (KIMS)
4. Chairman, Obstetrics Council, Kuwait
5. Interrogations Committee, MOH

### **Membership Faculty of Medicine**

1. Member, Instrument Committee, Faculty of Medicine
2. Member, Scholarship Committee, Faculty of Medicine
3. Member, Ethical Committee, Faculty of Medicine

### **Membership in Departmental Committees**

1. Member Examination Committee
2. Member Phase III Curriculum Committee
3. Member Phase II Curriculum Committee
4. Member Safety Committee
5. Member Space Committee
6. Member Post Graduate Committee
7. Member Student Grievances Committee

### **Membership in International Organizations**

1. Member, Society of Gynecologic Oncology (SGO).
2. Executive Board Member of Middle East Society for Gynecological Endoscopy (MESGE).
3. Fellow of the Society of Obstetricians & Gynecologists of Canada (SOGC)
4. Fellow of the Royal College of Surgeons of Canada (FRCSC)
5. Fellowship in Gynaecologic Oncology
6. Member, American College of Obstetricians and Gynaecologists
7. Membership in various International Organisations

### **Scientific Conferences attended**

1. Society of Gynecologic Oncology Annual Meeting on Women's Cancer, National Harbor, Mary Land, USA, 12-15, March, 2017.
2. ACOG annual meeting, San Diego, California, USA, 06-09 May, 2017.
3. Medical Conference, Switzerland, 02-05, July 2017.
4. World Congress of the International Society of Vulvovaginal Disease, Italy. 18-20, Sept., 2019.

### **22nd Health Sciences Poster Conference, March 7-9, 2017, Kuwait.**

1. Introduction of Mini-Cex and Evaluation of Medical Students in Obstetrics and Gynaecology Posting. Omu AE, Al-Harmi J, Al-Serri A, **Al-Jassar W**, Al-Azemi MK, Chibber R, George S, Diejomaoh FME.
2. Omu A E, **Al-Jassar WF**, Al-Harmi J, Al-Serri A, Al-Azemi MK, George S  
Effect of Gestational Diabetes Mellitus on Cytokine Network

## **Baydaa Al-Sannan**

### **Participation in Ministry/government activities**

#### **a. Faculty of Medicine**

1. Assistant Professor, Dept. of Obstetrics and Gynaecology at the Faculty of Medicine, Kuwait University **since Dec. 2013.**

#### **b. Membership in Departmental Committees**

1. Member Examination Committee
2. Member Phase 3 Curriculum Committee
3. Member Phase 2 Curriculum Committee
4. Member Research Committee
5. Member Safety Committee
6. Member Post Graduate Committee
7. Liaison officer for Academic Accreditation Unit.

### **Ministry**

1. Specialist in ObGyn, Urogynecology and pelvic reconstructive surgeon, Minimally invasive and Robotic surgery, SNM implant. At Sabah Al-Ahmad urology center - since Feb. 2014.
2. Co-author in Guidelines for Diagnostic Imaging of Non-Obstetric Emergencies in Pregnancy, 1<sup>st</sup> edition printed in 2016, second edition printed in 2017.
3. Patient pamphlet preparation for patient with interstitial cystitis, intermittent cauterizations, UDS, OAB and SUI.
4. School Presentation and community education in regard to Female urology conditions.

### **Private Sector**

1. Specialist in ObGyn, Urogynecology and pelvic reconstructive surgeon, Minimally invasive and Robotic surgery, SNM implant. At Sabah Al-Ahmad urology center - since 2016.

### **Al-Ahmadi Hospital (KOC)**

1. Specialist in Urogynecology and pelvic reconstructive surgeon, Minimally invasive and Robotic surgery, SNM implant. At Sabah Al-Ahmad urology center - since Oct 2018.

### **Membership in Professional Scientific Societies**

1. AUGS: American urogynecologic Society
2. ACOG: American college of obstetrician and gynecologist

3. SOGC: Society of obstetrician and gynecologist of Canada
4. AAGL: Advancing Minimally Invasive gynecology worldwide
5. AOGQ: The Association of Obstetricians and Gynaecologists of Quebec
6. SAGES/ FLS: Society American gastrointestinal Endoscopic surgeons, fundamentals of laparoscopic surgery.
7. SUG: Member of Saudi Urogynecology Group, Group representative at Gulf region.
8. IUGA: International urogynecology Association
9. KSOG: Member of Kuwait Society of Obstetricians and Gynecologists
10. Member of Perineum and Vulva Care Experts society in Gulf region

### **Scientific Conferences attended**

1. Attended as Speaker, 23<sup>rd</sup> Kuwait annual Obstetrics and gynecology, scientific meeting, 3, 4, 5 & 6 Feb 2019
2. Urology club monthly meeting, sept, 2018, Sabah Al-Ahmad urology center
3. Urology club monthly meeting, Nov, 2018, Sabah Al-Ahmad urology center
4. National Prostate Cancer Awareness Campaign Nov 2019, Sabah Al-Ahmad urology center
5. Urology Club monthly meeting, Jan 2019. Marina Hotel

### **AbdulRahman Al-Serri**

#### **Ministry of health:**

1. Specialist in the IVF unit – Maternity Hospital.
2. Policy and guideline writing committee.
3. Department policy writing.

#### **Faculty committees:**

1. Member of pregnant woman and newborn baby screening committee.
2. Member, Department phase III examination committee
3. Member, Department research committee
4. Member, Department postgraduate committee
5. Member, PBL phase II committee
6. Member, of the student staff consultative committee.
7. Member, Phase III Curriculum Committee
8. Member, Phase II Curriculum Committee

9. Member, Safety Committee
10. Member, Faculty Scientific Affairs Advisory Committee.

**Scientific conferences attended / invited:**

1. Guest speaker 23rd Kuwait annual obstetrics and gynecology conference
2. Guest speaker 7th Kuwait international genetic conference

**Memberships:**

1. Fellow in the royal college of surgeons of Canada (FRCSC).
2. Member in the American Society for Reproductive Medicine (ASRM).
3. Member of the Middle East Fertility Society (MEFS).

## **9.0 Concluding Remarks**

Life course approach to women healthcare is a reality that cannot be ignored or swept under the carpet. Women have predictable long term reproductive health needs and therefore more frequent interaction with health services than men. Biological exposure during gestation, childhood, adolescence and young adulthood has effect on health and non-communicable chronic diseases in later life and inter-generational. A life course strategy and potential for implementation for early intervention to reduce disease risk and severity-consequences of intrauterine trauma. This new reality needs a team and transformational innovative spirit of a family unit and team togetherness which has prevailed in the department. While the state of the undergraduate program has continued to wax much stronger than ever, the collective participation of academic staff members and the clinical tutors in bedside teaching, problem based learning (PBL) and the three rotational in-course and final examinations must respond to the future challenges facing the Department. The Mini-Cex has achieved a high level of popularity. Development into four active clinical and research units namely, Reproductive Medicine, Maternal Fetal Medicine, Gynae-Oncology and Urogynaecology has had some knock-out effect. The department should continue to strive to create a conducive learning environment with encouragement at the undergraduate and postgraduate levels. The curriculum will be continually sculpted to make it to be relevant to the ever changing attitude in medical education, with an in-built dynamism and vibrancy. There have been challenges, which are inevitable in the existence of humanity. However instead of causing a drawback, they have been catalyst for upward ascendant trajectory. The pandemic is also an opportunity to remind ourselves of the skills students need in this unpredictable world with stress of future uncertainty, such as informed decision making, creative problem solving, and perhaps above all, adaptability. To ensure those skills remain a priority for all students, resilience must be built into our educational systems as well.

### **Challenges**

1. Difficulty in recruiting academic staff to the Department. For the past four years, no candidate has responded to the scholarship advertisement of the Department.
2. After 29 years of a fruitful and enjoyable service to the Department and Faculty of Medicine, the Chairman is bowing out at the end of the current academic.
3. Three academic staff will not be involved in bedside during the 2021-2022 academic year
4. The Covid-19 pandemic has greatly impacted research productivity to a state of Underperformance.

## **Acknowledgement**

The department is exceedingly appreciative of the contribution of the academic, technical and secretarial staff for their individual and collective contributions for the smooth functioning of the department. With the evolving e-learning and online teaching, the support staff have continued to shoulder the responsibility of setting up academic activities and liaising between the academic staff and students. Coupled with their demonstrations of goodwill, this has made the department an enviable and inclusive family. Many of the clinical tutors have continued to make tremendous contribution to the undergraduate programme. Special acknowledgement of the foresight of Kuwait University for early and quick response to the pandemic to mitigate the consequential scourge. The assistance and advice of the Dean and Vice -Deans of Faculty of Medicine is hereby acknowledged. They made our transformational innovation happen successfully. The Department of Obstetrics and Gynaecology is sincerely appreciative of all the support.

## **ORGAN TRANSPLANT**

## **INTRODUCTION**

The Academic Department of Organ transplant is a new department that was established in the academic year 2019-2020 and it will be playing a pivotal role in coordinating the undergraduate for the medical students in Kuwait university. The Department is still under the process of recruiting professional academic staff, supporting academic staff, technicians, and secretaries. We already had published Recruitment and scholarship Advertisements in Kuwait University website and scientific magazines.

Apart from Organ transplant in general, the Department of Organ Transplant will be having the following sub-specialties: Kidney Transplantation, Pancreas Transplantation, Liver Transplantation and Anesthesia in transplantation will be with clinical exposure of the students.

### **Postgraduate programs and teaching**

NA

### **Aims & Objectives of the Department**

To provide:

- An undergraduate curriculum that contains basic skills with cognitive knowledge considered essential for the understanding of the following skills:
  - a- Evaluating donor suitability.
  - b- Retrieve abdominal organs for transplantation.
  - c- Assess the patients and manage their care and the emergency treatment for the transplant patient.
  - d- Provide knowledge and training of the surgical procedure.
  - e- To understand the principles of clinical immunosuppression and become familiar with the use of immunosuppressive drugs.

## **MANPOWER**

### **ACADEMIC STAFF**

#### **Faculty Members**

Dr. Mohammed Jamal, MBChB (HONS) MEd ABS FRCSC FACS FASMBS.  
Associate Professor and chairman.  
Hepatopancreatic biliary and transplant surgery.

#### **Teaching Assistant**

NA

#### **Lab Physicians / Lab Engineers**

NA



**Clinical Tutors**

NA

**Visiting Professors**

NA

**SUPPORT STAFF**

**Research Assistant and Scientific Assistants**

NA

**Technicians/ Lab Analyst**

Mrs. Sara Al-Hassani, B.Sc., MSc, Lab analyst.

**Secretaries**

NA

**Administrator**

NA

**Student help**

NA

**STAFFING CHANGES**

NA

**TEACHING IN THE DEPARTMENT PROGRAM**

**I. FACULTY OF MEDICINE**

**a. Undergraduate teaching**

Lectures	:	
Tutorials & Seminars	:	NA
Practicals / Clinical	:	

Total teaching hours given to students per year

**Graduate teaching (M.Sc / Ph.D)**

NA

**Course coordinators:**

NA

**c. Postgraduate teaching (KIMS)**

Lectures	:	80	
Tutorials & Seminars	:	0	
Practicals (clinical bedside)	:	0	
			-----
Total teaching hours	:	80	
			-----

**Program Director of Surgical Foundation Program (KIMS):**

Dr. Mohammad Jamal

**II. OTHER FACULTIES**

**a. Undergraduate teaching in Faculty of Pharmacy**

Lectures	:		
Tutorials & Seminars	:		
Practicals / Clinical	:		
			-----
Total teaching hours given to students per year			NA
			-----

**Course coordinators:**

NA

**Name of course**

NA

**Undergraduate teaching in Faculty of Dentistry**

Lectures	:		
Tutorials & Seminars	:		
Practicals / Clinical	:		
			-----
Total teaching hours given to students per year			NA
			-----

**Course coordinators:**

NA

**Name of course**

NA

**Undergraduate teaching in Faculty of Allied Health**

Lectures	:	
Tutorials & Seminars	:	

Practicals / Clinical :

Total teaching hours given to students per year

-----  
NA  
-----

**Course coordinators:**

NA

**Name of course**

NA

### **III. STUDENT ADVISORS**

NA

## **RESEARCH AND PUBLICATIONS**

### **RESEARCH**

#### **Funded**

- 1) Title: The effect of metabolic surgery on uncoupling proteins.  
Funding: KFAS  
Status: Ongoing  
Value: K.D 100,000/-  
Principal Investigator: Dr. Mohammed Jamal,  
Co-investigator(s): Prof. Fahd Al Mulla, Dr. Ghanim Al Khaledi, Dr. Suleiman Al Sabah, Dr. Hamad Ali Yaseen, Mr. Waleed Al Ali

#### **Unfunded Research Activities**

- 1) **Research on Covid-19**
- 2) **Research on Metabolic Surgeries**
- 3) **Research on non-surgical weight loss procedures**

### **PUBLICATIONS**

#### **Papers:**

1. **Mohammad H Jamal**, Rawan Elabd, Rawan AlMutairi, Aqeel Albraheem, Ahmad Alhaj, Haytham Alkhayat, Obaid AlHarbi, Husain Almahmeed. The Safety and Efficacy of One Anastomosis Gastric Bypass as a Revision for Sleeve Gastrectomy. Obesity Surgery. 2020, 30(6):2280-2284

**Impact factor: 3.305**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

2. Sulaiman Almazeedi, Sarah Al Youha, **Mohammad H Jamal**, Mohannad Al-Haddad, Ali Al-Muhaini, Fahad Al-Ghimlas, Salman Al-Sabah. Clinical Characteristics, Risk Factors and Outcomes Among the First Consecutive 1,096

Patients Diagnosed with COVID-19: The Kuwait Experience. EclinicalMedicine.2020; Vol (24),100448, July 01,2020

**Impact factor: 3.586**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

3. Khawla Ali, Simon Whitebridge, **Mohammad H Jamal**, Mohammad Al-Safy and Stephen L. Atkin. Assessment of Public's Perceptions and Knowledge Towards the 2019 Novel Coronavirus (COVID-19): A Social Media Cross-Sectional Study. Journal of Medical Internet Research.2020; [10.2196/19913](#)

**Impact factor: 3.806**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

4. **Mohammad H Jamal**, Mohamed Abu-Farha; Ghanim Al-Khaledi; Suleiman Al-Sabah; Hamad Ali; Preethi Cherian; Irina Al-Khairi; Fatemah AlOtaibi; Waleed Al-Ali; Mira Bosso; Carol Dsouza; Jehad Abubaker; Fahd Al-Mulla. Effect of Sleeve gastrectomy on The Expression of Meteorin-Like (METRNL) and Irisin (FNDC5) in Muscle and Brown Adipose Tissue and its Impact on Uncoupling Proteins (UCPs) in Diet Induced Obesity Rats. Surgery for Obesity and Related Diseases.2020;16:1910-1918.

**Impact factor: 3.513**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

5. Jasmine Eliwa, Monira Alkandari, Abdulmajeed Albeloushi, Abdelrahman Alashqar, Amr Osman, Farah Albader, Ahmed Alhashemi and **Mohammad H Jamal**. Professionalism Narrative of Kuwait's Future Physicians: Impact of the Hidden Curriculum. Teaching and learning in Medicine.2020; Under review for publication.

**Impact factor: 1.978**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

6. Abdullah A Al-Shammari, Hamad Ali, Barrak Al-Ahmad, Faisal H Al-Refaei, Salman Al-Sabah, **Mohammad H Jamal**, Abdullah Alshukry, Qais Al-Duwairi, Fahd Al-Mulla. [Real-time tracking and forecasting of the COVID-19 outbreak in](#)

[Kuwait: a mathematical modeling study](#). Lancet Global Health.2020; under review for publication.

**Impact factor: 22.072**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

7. **Mohammad H Jamal**, Suhail Doi, Sarah Al Youha, Sulaiman AlMazeedi, Muhannad AlHaddad, Ali AlMuhaini, Fahad AlGhimlas, Muhammad Chowdhury, Salman K AlSabah. A Biomarker based Severity Progression Indicator for Covid-19: The Kuwait Prognosis Indicator Score. Biomarkers.2020; 25(8), 641–648, DOI: [10.1080/1354750X.2020.1841296](https://doi.org/10.1080/1354750X.2020.1841296)

**Impact factor: 1.955**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

8. Sarah Al Youha, Suhail A Doi, **Mohammad H Jamal**, Sulaiman Almazeedi, Mohannad Al Haddad, Mohammad AlSeaidan, Ali Y Al-Muhaini, Fahad Al-Ghimlas, Salman K Al-Sabah. Validation of the Kuwait Progression Indicator Score for predicting progression of severity in COVID19. Europe PMC.2020

**Impact factor: NA**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

9. Salman K Al-Sabah, Mohannad Al-Haddad, Sarah Al Youha, **Mohammad H Jamal**, Sulaiman AlMazeedi. COVID-19: Impact of Obesity and Diabetes in Disease Severity. Clinical Obesity. 2020; [doi.org/10.1111/cob.12414](https://doi.org/10.1111/cob.12414)

**Impact factor: 2.055**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

10. Hala Hamadah, Mohammad Behbehani, Sarah Al-Youha, Sulaiman Almazeedi, Mohannad Al-Haddad, **Mohammad H. Jamal**, Salman Al-Sabah. COVID-19 Clinical Outcomes and Nationality: Results from a Nationwide Registry in Kuwait. BMC Public Health. 2020; 1384 (2020). <https://doi.org/10.1186/s12889-020-09490-y>

**Impact factor: 2.837**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

11. Abdullah A Al-Shammari, Hamad Ali, Barrak Al-Ahmad, Faisal H Al-Refaei, Salman Al-Sabah, **Mohammad H Jamal**, Abdullah Alshukry, Qais Al-Duwairi, Fahd Al-Mulla. The impact of strict public health measures on COVID-19 transmission in developing countries: The case of Kuwait. *BMJ open*.2020; under review for publication.

**Impact factor: 2.712**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

12. Dana AlTarrah, Omar Alqabandi, Yousef Almutawa, Mufarrej Alhajeri, **Mohammad H. Jamal**, Sulaiman Almazeedi. Intra-gastric Balloon Insertion and Pancreatitis: Case Series. *International Journal of surgery case Reports*. 2020; 74, 263-267

**Impact factor: 0.570**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

13. **Mohammad Jamal**, Sarah Ali, Ahmed Alsaber, ahmad Alhashemi, Salman AlSabah. Incidence of GERD and Dumping Post Sleeve gastrectomy. *Bariatric Surgical Practice and Patient Care*. 2020, under review for publication.

**Impact factor: 1.368**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

14. Rawan Elabd, Rawan AlMutaira, Ahmad Alhaj, Haytham alKhayat, **Mohammad Jamal**. One Anastomosis Gastric Bypass as a Primary Bariatric Surgery: A Retrospective Before and After Study of Medium Term Follow-up. *Bariatric Surgical Practice and Patient Care*.2020, In Press

**Impact factor: 0.357**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

15. Sarah Al Youha, Mohammad AlKhamis, Sulaiman Almazeedi, Mohannad Al-Haddad, **Mohammad H. Jamal**, Salman K. Al-Sabah. Using Machine Learning to Unveil Demographic and Clinical Features of COVID-19 Symptomatic and Asymptomatic Patients. *BMC Infectious Diseases*.2020; doi.org/10.21203/rs.3.rs-52330/v1

**Impact factor: 2.864**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

- 16. Mohammad Jamal,** Husain AlMahmeed, Mansour AlGhanem, Maen AlMatoq, Adnan Sadek, Mustafa AlMousawi, Salman Al-Sabah, Hector Vilca Melendez, Nigel Heaton, Wayel Jassem. Organ transplantation in Kuwait and the recent initiation of a liver program. *Transplantation*.2020; In press

**Impact factor: 3.919**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

- 17. Mohammad H. Jamal,** Ahmad AlHashemi, Nour Al-Kanawati, Mohammed Al-Haddad, Fatema Hamshari, Shehab Akrouf. A Study examining the Orbera365 intragastric balloon safety and short-term effects on weight loss. *Clinical Obesity*.2020; Under review for publication

**Impact factor: 2.125**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

- 18. Mohamed Al-Sayegh,** Hamad Ali, **Mohammad H Jamal,** Mei ElGindi, Tina Chanyong, Khulood Al-Awadi, and Mohamed Abu-Farha. Mouse embryonic fibroblast adipogenic potential: a comprehensive transcriptome analysis. *ADIPOCYTE*. 2020, VOL. 10, NO. 1, 1–20

**Impact factor: 3.533**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

- 19. Dimitra-Kleio Kiporou,** Clemence Leyrat, Nourah Alsheridah, Sulaiman Almazeedi, Sarah Al-Youha, **Mohammad H. Jamal,** mohannad Al-Haddad, Salman Al-Sabah, Bernard rachel, Aurelien Belot. Probabilities of ICU admission and hospital discharge according to patient characteristics in the designated COVID-19 hospital of Kuwait. *BMC Public Health*, 799 (2021). <https://doi.org/10.1186/s12889-021-10759-z>

**Impact factor: 3.533**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

- 20. Hussein Elsaaran,** Shamlan AlQinai, Dana AlTarrah, Mahdi Abdulrasoul, Sarah Al-Youha, Sulaiman Almazeedi, Mohannad Al-Haddad, **Mohammad H. Jamal,**

Salman Al-Sabah. Prevalence and risk factors of barotrauma in Covid-19 patients admitted to an intensive care unit in Kuwait; a retrospective cohort study. *Annals of Medicine and Surgery*,2021(63) 102141

**Impact factor: 1.5**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

21. Rawan ElAbd, Dana AlTarrah, Sarah AlYouha, Hamad Bastaki, Sulaiman Almazeedi, Mohannad Al-Haddad, **Mohammad Jamal** and Salman AlSabah. Angiotensin-Converting Enzyme (ACE) Inhibitors and Angiotensin Receptor Blockers (ARB) Are Protective Against ICU Admission and Mortality for Patients With COVID-19 Disease. *Frontiers in Medicine*, 2021,8:600385. doi: 10.3389/fmed.2021.6003858

**Impact factor: 3.297**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

22. Waleed Alduaij, Sarah Al-Youha, Ahmad Al-Serri, Sulaiman Almazeedi, Mohannad Al-Haddad, **Mohammad H Jamal** and Salman Al-Sabah. The Impact of ABO Blood Group on Clinical Outcomes and Susceptibility to COVID-19: A Retrospective Study in an Unselected Population. *Transfusion*,2021; doi.org/10.1111/trf.16365

**Impact factor: 2.8**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

23. Preethi Cherian<sup>1</sup>, Irina Al-Khairi<sup>1</sup>, **Mohammad Jamal**, Suleiman Al-Sabah, Hamad Ali, Carol Dsouza, Eman Al Shawaf, Waleed Al-Ali, Ghanim Al-khaledi, Fahd Al-Mulla, Mohamed Abu-Farha<sup>1</sup>, Jihad Abubaker. Association between Bone Biomarkers Osteoactivin and OPG with Plasma Levels of Irisin and Meteorin-like Protein in People with T2D and Obesity. *Bones*, 2021, Under review for publication

**Impact factor: 4.829**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

24. Salman K Al-Sabah, Noor Al Busaidi, Dalal Al Romaihi, **Mohammad H Jamal**,



Saud Al Sifri and Emad R Issak, Physicians and Patients' Awareness About the Risks, Impacts, and Management of Obesity in the Gulf Region; A cross-sectional study. Acta Scientific Medical Sciences,2021. 5(4),4-13

**Impact factor: 0.851**

**Indexed in: Index Medicus, Science Citation Index, Scopus**

25. Ahmed Alkhamis, Yousef Alshamali, Khaled Alyaqout, Eisa Lari, Moh A. Alkhamis, Saad Althuwaini, Ali Lari, Maryam Alfili, Ali Alkhayat, Mohammad H Jamal, Salman Alsabab, Prevalence, Predictors and Outcomes of Surgical and Gastrointestinal Bleeding Events in Patients with COVID-19 Infection on Anticoagulation, BMC Infectious Diseases,2021. Under review for publication

#### **Chapter in Book**

- **MH. Jamal**, R AlAbd. Sleeve Gastrectomy in Nash and Liver Cirrhosis. The Complete Book of Laparoscopic Sleeve Gastrectomy. First Edition. Springer. 2021 USA

#### **CONTRIBUTIONS**

##### **a. Participation in Ministry / Government Activities**

###### **Dr. Mohammed Jamal**

- 1- Consultant Surgeon, Department of Surgery, Jaber Al-Ahmad Hospital, Ministry of Health.
- 2- Member of Council of the Organ Transplant Society.
- 3- Founding member of Kuwait Surgical Society.
- 4- COVID-19 Research Group, Jaber Al-Ahmad Al-Sabah Hospital, Ministry of Health of Kuwait

##### **b. Offices held in professional organizations**

1. Associate professor at Kuwait University from February 2018 to till date.
2. Assistant professor at Kuwait University from June 2012 to February 2018.

##### **c. Advisory editor services for professional journals**

NA

**d. Active participation in professional conferences and workshops**

**Dr. Mohammed Jamal**

1. The Impact of ABO Blood Group on Clinical Outcomes and Susceptibility in COVID-19: A Retrospective Population Study of 3305 Patients.  
Waleed Alduaij, **Mohammad Jamal**. American Society of Hematology conference (2020).
2. Expert panel from Middle-East in the workshop entitled “NAFLD: Sounding the alarm on a global public health challenge” by The Economist Intelligence Unit, 2021 supported by EASL (International Liver Foundation)

**e. Service as external examiners outside Kuwait**

NA

**f. Contribution to committees in the Faculty of Medicine**

**Dr. Mohammed Jamal**

- 1) Departmental Scientific Affairs Advisory Committee Representative.
- 2) Member, Departmental Scholarship Committee.

**g. Contribution to committees outside the Faculty**

**Dr. Mohammed Jamal**

- a. member of Council of the Organ Transplant Society, Kuwait
- b. Founding member of Kuwait Surgical Society
- c. member of Kuwait Literacy Society
- d. Author of two books in Arabic Literature
- e. Participated in several medical interviews on TV

**h. Professional Development Attendance/Participation in Educational Courses**

NA

**CONCLUSION**

In conclusion, the department of organ transplant is still in the growing process, soon we will be recruiting new staff (academic and administrative), preparing the curriculum, and preparing the department location, laboratories, research laboratories and equipments.

## **PEDIATRICS**

## **INTRODUCTION:**

During the academic year 2020-2021, the Department of Pediatrics continued to work hard to achieve its missions which are:

- A. To improve the lives of children by providing the highest quality of medical care in the diagnosis, treatment and prevention of childhood disease.
- B. To provide excellence in teaching and training of Undergraduate and Postgraduate medical students by adopting updated and innovative medical educational methods.
- C. To advance knowledge by conducting and encouraging clinical as well as basic science research programs in a wide range of childhood diseases aiming at a better understanding of pediatric illnesses and achieving better outcomes in Kuwaiti children.

In order to achieve our missions, all members of the Department of Pediatrics were committed to the core value of modeling professionalism by dealing with each other with respect, integrity and collegiality and subsequently projecting this attitude on our Undergraduate students during their rotation in Pediatrics.

## **Covid-19 Pandemic:**

All Academic activities were suspended from March 2020 until August 2020 because of Covid-19 Pandemic in all Faculties of Kuwait University including Faculty of Medicine. It was decided by Kuwait University Rector that the teaching process could be resumed in August 2020 but should be conducted virtually. Microsoft Teams was the chosen platform by Kuwait University to conduct the teaching. Therefore, a committee was formed by the Dean to train Academic staff and Supporting Staff on using the platform. Two supporting Academic Staff from Department of Pediatrics participated as members in that committee when they were properly taught how to use Microsoft Teams platform and subsequently trained the Academic Staff within the department. Also, there were several virtual teaching sessions held by Kuwait University as well as Faculty of Medicine in which the Staff were oriented about Microsoft Teams.

## **Teaching:**

- Members of the teaching committee within our department worked hard on modifying the teaching process to accommodate the unprecedented situation created by the Pandemic.
- Clinical teaching is mandatory for students rotating in pediatrics, however, it was difficult to follow the same teaching program we had before the pandemic in which students used to spend a longer time in hospitals. Therefore, the teaching program was modified by dividing it into partly Clinical and partly Virtual using Microsoft Teams as adopted by Kuwait University.
- The rotation was shortened to 7 instead of 11 weeks in the third block of 2019-2020 (6 weeks in general hospitals and 1 week in neonatology). Also, students were divided into 4 groups within each teaching hospital, 2 groups attended at 8-10.30 am and 2 groups at 10.30 am-1 pm. Each clinical staff or tutor would teach 2-3 students only within the clinical session in the hospital. This method was adopted to ensure social distancing between students and tutors and avoid students' gathering within the

hospitals. Also, it would enforce a focused teaching to compensate for the shorter rotation period in this block.

### **PBL:**

We had 6 PBLs during the 7-week rotation. The PBL sessions were run on line via Microsoft Teams from 3-5 pm. The material of the 3 remaining PBLs we taught in the previous blocks were posted on the Student's Moodle.

### **E-Tutorials:**

To compensate for the short rotation period plus the limited time spent in clinical teaching, several virtual tutorials were conducted via Microsoft Teams from 3-5 pm. The tutorials were conducted almost twice a week (Mondays and Wednesdays) and included smaller groups of students to allow interactive sessions.

### **MSD:**

We conducted one Pediatric MSD only, Pediatric Emergency, in the third block of the Academic year 2019-2020. It was also conducted virtually via Microsoft Teams at 1-3 pm. The other 2 planned MSDs of 2019-2020 were cancelled and some of its material was posted on the Student's Moodle within HSC Web page.

### **Tutors:**

Due to the new modifications of the teaching process, we recruited 7 new clinical tutors in several hospitals (Farwania: 3; Adan: 2; Amiri: 1; Maternity: 1). The new tutor in Maternity actually is a staff in Farwania but was recruited to teach neonatology in the Maternity Hospital.

### **Exams:**

- The students' final grade is a composite of End-Block/Course assessment and the final examination scores (MCQs, EMQs, OSCE).
- The End-Block (3<sup>rd</sup> block of 2019-2020) was held in FOM. We used 3 MDL labs for the exam ensuring social distancing between students (2 meters between each 2 students). The exam was an electronic form of exam but with paper answers sheets as usual.
- The Final written exam was held in FOM on October 8<sup>th</sup>, 2020 using 2 venues allowing adequate social distancing between students. The written exam consisted of 2 papers, MCQ and EMQ, both were Paper Form Exams.
- **Final OSCE:**
  - It was conducted in the Skills Lab, FOM in October 19<sup>th</sup> and 20<sup>th</sup> 2020.
  - The OSCE was held under strict safety guidelines with all students using masks, face shields or googles. Sanitizers were available outside and inside the stations.
  - This was the first Pediatric OSCE to be held within FOM since previous exams used to be held within the teaching hospitals. The decision to perform the OSCE within FOM was to maintain the safety of both students and Staff during the Pandemic.
  - All OSCE examiners were local consisting of both Academic Staff and Clinical Tutors. No external examiners could be invited during the Final OSCE because of the strict travel precautions induced by Covid-19 Pandemic.

- The exam Cycle consisted of 7 stations. No real patients were used but we brought simulated patients (SPs) for History and Communication stations. The other stations were based on card, imaging and video cases.
- At the same Cycle, 4 groups of students were examined (28 students) in different locations of the Skills Lab. Then this was repeated in the second Cycle.
- We had a total of 99 students who performed well in the Final Exam with 11 distinctions (11 As) and 22 received a score of A-. All students passed the rotation with no failures, therefore no resit exam was required.

### **The new Academic year, 2020-2021:**

- Started on November 8<sup>th</sup>, 2020.
- The year was divided into 3 blocks, each block is 9 weeks duration. Each students rotated into 2 different general hospitals for 4 weeks plus 1 week of neonatology in the Maternity Hospital.
- The same model of teaching adapted during Covid-19 Pandemic was continued through the year, basically small groups of students in the hospitals allowing for 2-3 students per tutor per session.
- Teaching was conducted partly in the hospitals and partly virtually via Microsoft Teams.
- No physical classes given in the FOM.
- **PBL:** 8 PBLs per block which were conducted virtually via Microsoft Teams at 2.30-4.30 pm.
- **E-Tutorials:** Each group of students had one E-Tutorial per week at 2.30-4.30 pm.
- **MSD:** We conducted 6 MSDs during the Academic year 2020-2021 via Microsoft Teams at 1-3 pm.

### **Research:**

- The department remains quite active in research with impressive collaborations within and outside the department. The focus remains on the subspecialties represented among our faculty including nephrology, rheumatology, hematology, gastroenterology/hepatology, pulmonology, cardiology, endocrinology & diabetology, immunology, allergy, infectious diseases and neonatology.
- We were usually well represented in the Annual Health Sciences Center Poster Day Conference. There were 7 poster presentations by members of our department in the 25<sup>th</sup> HSC Poster Conference held on 16-18<sup>th</sup> March 2021.
- Some of our staff were invited as guest speakers at different international conferences, workshops, symposiums, courses etc during the year. However, those activities were held virtually because of Covid-19 Pandemic.
- Currently there are 11 ongoing funded research grants (from Kuwait University, KFAS and Dasman Center) on which members of the department are principal or co-investigators. In addition, all academic staff are involved in several unfunded research projects.

### **Promotions:**

- During this academic year, We had one application for promotion to the rank of an Associate Professor which is currently under review.

### **New Staff:**

- One scholar, Dr. Hind Al Sharhan, has joined the department after completing her scholarship in August 2020.
- One Arabic-speaking secretary, Mr. Nader Abdulaziz was transferred to our department from the Dean's Office in December 2020

### **COMMITTEES:**

The following committees were responsible for the various departmental activities during the year and reported back to the Chairman. Each committee was Chaired by the first staff listed.

- a. **Teaching and Curriculum Committee: Dr. Majeda Hammoud (Head), Dr. Entesar Husain (Coordinator), Dr. Mazen Al-Essa, Dr. Mayra Alsaeid, Dr. Maysoun Al Rushood, Dr. Mohammed Ebrahim, Dr. Dana Marafie and Dr. Hind Al-Sharhan**
- b. **Examination Committee: Dr. Dalia Al-Abdulrazzaq (Head), Dr. Maysoun Al Rushood (Coordinator), Dr. Lulu Abushaban, Dr. Entesar Husain, Dr. Waleed Al-Herz, Dr. Mohammed Ebrahim, Dr. Dana Marafie and Dr. Hind Al-Sharhan**
- c. **Appointment and Contract Renewal Committee: Dr. Wafa'a Al-Qabandi (Head), Prof. Adekunle D Adekile, Prof. Mohammad Haider, Prof. Amal Al-Eisa, Dr. Mazen Al-Essa and Dr. Waleed Al-Herz**
- d. **Scholarship Committee: Dr. Wafa'a Al-Qabandi (Head), Prof. Adekunle D Adekile, Prof. Khaled Alsaeid, Dr. Mazen Al-Essa and Dr. Majeda Hammoud**
- e. **Accreditation Committee: Dr. Mayra Alsaeid (Head), Dr. Abdullah Owayed, Dr. Waleed Al-Herz, Dr. Dalia Al-Abdulrazzaq, Dr. Maysoun Al Rushood**
- f. **Research Committee: Prof. Gursev Dhaunsi (Head), Prof. Adekune D Adekile, Prof. Mohammad Haider, Prof. Khaled Alsaeid and Dr. Waleed Al-Herz**
- g. **Budget and Finance Committee: Dr. Wafa'a Al-Qabandi (Head), Prof. Mohammad Haider (Coordinator), Prof. Gursev Dhaunsi, Dr. Abdullah Owayed and Mr. Marcus Thomas D'Souza**
- h. **Distinguished Teaching Award: Dr. Wafa'a Al-Qabandi (Head), Prof. Amal Al-Eisa, Dr. Majeda Hammoud and Dr. Lulu Abushaban**
- i. **Health and Safety Issues Committee: Prof. Gursev Dhaunsi (Head), Mr. Marcus Thomas D'Souza and Ms. Athary A.S. Sulaiman**
- j. **Space and Allocation Committee: Prof. Amal Al-Eisa (Head), Prof. Gursev Dhaunsi, Dr. Abdullah Owayed and Mr. Marcus Thomas D'Souza**
- k. **Library Affairs: Dr. Maysoun Al-Rushood and Dr. Dana Marafie**
- l. **Social Committee: Dr. Hind Al-Sharhan, Dr. Amina Al-Awadi and Mrs. Amani Al-Fadli**

- m. **Faculty Scientific Affairs Committee Representative: Prof. Gursev Dhaunsi**
- n. **Department Research Seminar's Coordinator: Dr. Waleed Al-Herz**

## **ACADEMIC STAFF**

### **a) Faculty Members**

**Dr. Wafa'a Al-Qabandi**, B.M.B.Ch, DCH, FRCPCH  
Chairperson & Associate Professor (Gastroenterology/Hepatology)

**Prof. Adekunle D. Adekile** MBBS, Ph.D, FMC (Paed), FWACP, FRCPCH, FRCP  
(Eding)  
Professor (Pediatric Haematology)

**Prof. Khaled M. S. Alsaeid**, B.M.B.Ch, FAAP  
Professor (Infectious Diseases & Rheumatology)

**Prof. Mohammad Haider**, B.Sc, M.Sc., M. Phil, Ph.D.  
Professor (Molecular Biology)

**Prof. Amal Al-Eisa**, B.M.B.Ch., MRCP, MRCPCH, FRCP(UK), FRCPCH  
Professor (Pediatric Nephrology)

**Prof. Gursev Dhaunsi**, B.Sc., M.Sc., Ph.D.  
Professor (Biochemistry)

**Dr. Mazen Al-Essa**, B.M.B.Ch, FRCP(Glasgow), MRCPCH, DCH  
Associate Professor (Neonatology)

**Dr. Lulu Abushaban**, MBBCh.B, FRCP (UK), FRCP (Ire), MRCPCH (London),  
DCH, FAAC, FSCAI, MACC  
Associate Professor (Pediatric Cardiology)

**Dr. Majeda S. Hammoud**, MBBS, DCH, MRCPCH, FRCP (UK)  
Associate Professor (Neonatology)

**Dr. Mayra Alsaeid**, MD, FAAP  
Associate Professor (Lipid Metabolism & General Pediatrics)

**Dr. Abdulla Farhan Owayed**, B.M.B.Ch, B.A.O, DCH, FRCP(C), FAAP  
Associate Professor (Pulmonology)

**Dr. Entesar Husain**, B.M.B.Ch, FRCP (C), FAAP  
Associate Professor (Pediatric Infectious Diseases)

**Dr. Waleed Al-Herz**, MD, DABP, DABAI  
Associate Professor (Allergy & Clinical Immunology)



**Dr. Dalia Al-Abdulrazzaq**, B.M.B.Ch, FAAP, FRCPC  
Associate Professor (Endocrinology & Metabolism)

**Dr. Maysoun Al-Rushood**, BMBCh, FAAP, FRCPC  
Assistant Professor (Allergy & Clinical Immunology)

**Dr. Mohammed Ebrahim**, B.M.B.Ch., Am.B. Paed, Am.B. Paed Card, Pediatric  
Electrophysiology  
Assistant Professor (Cardiology)

**Dr. Dana Marafie**, B.M.B.Ch., ABP  
Assistant Professor (Child Neurology)

**Dr. Hind Al-Sharhan**, M.B.B.Ch., FAAP, FACMG  
Assistant Professor (Clinical and Biochemical Genetics)

**b) Teaching Assistant**

1. Dr. Amina Al-Awadi
2. Dr. Amani Al-Fadli

**c) Lab physicians-** None

**d) Clinical Tutors**

**Mubarak Hospital**

Dr. Noufoud Fadel Al-Shemmeri (MBBCh, MRCPCH, FRCPC)  
Consultant & Chairperson - Dept. of Pediatrics

Dr. Najwa Akar (M.B.B.Ch, MRCPCH, D.C.H.)  
Consultant - Dept of Pediatrics

Dr. Fahad Al-Mukhaizeem (MBBCh, FRCP, FAAP, PEM)  
Consultant – Dept. of Pediatrics

Dr. Husam Abdulatif Ali Al-Habashi (MRCPCH)  
Consultant - Dept of Pediatrics

Dr. Maysoon Jasem Al-Musallam (MBBS) American Board of Pediatrics  
Consultant – Dept. of Pediatrics

Dr. Khalda A. Rashed (MBBCh, MRCPCH)  
Consultant - Dept of Pediatrics

Dr. Maha Al-Jalahmah (MBBCh, MRCPCH)  
Consultant - Dept of Pediatrics

### **Amiri Hospital**

Dr. Naser Bader Mansour Al-Khulaifi (M.B.B.Ch, MRCPCH)  
Chairman & Consultant – Dept. of Pediatrics

Dr. Suad Al-Osaimi (M.B.B.Ch, MRCPCH)  
Consultant– Dept. of Pediatrics

Dr. Mona Abdalla Taha Al-Khawari (MBBCh, MRCPCH, DCH)  
Consultant -Dept. of Pediatrics

Dr. Aida Abdul Malik (M.B.B.Ch, MRCPCH)  
Consultant - Dept of Pediatrics

Dr. Wafaa Al-Ateeqi (M.B.B.Ch, D.C.H., MRCPCH )  
Consultant - Dept of Pediatrics

Dr. Hala Mazyd Al-Sanae (MBBCh, DCH, MRCP(UK))  
Consultant – Dept. of Pediatrics

Dr. Hassan El-Sori (M.B.B.Ch, D.C.H, MRCPCH, FRCP)  
Consultant- Dept of Pediatrics

Dr. Hammad Abdel A. Ebrahim Hammad (M.B.B.Ch, M.S.C., M.D., MRCPCH)  
Consultant – Dept. of Pediatrics

Dr. Zaid Al-Harbash (BM. Bch., FRCPC)  
Consultant – Dept. of Pediatrics

Dr. Abrar Abdulaziz Alabdulghafour(M.B.B.Ch)  
Specialist– Dept. of Pediatrics

### **Adan Hospital**

Dr. Salman N. Mohammed Al-Shammari, (BMSC, MBBS)  
Chairman & Sr. Specialist – Dept. of Pediatrics

Dr. Niran Ahmed Al-Naqeeb (M.B.B.Ch, MRCPCH , D.C.H.)  
Consultant & Chairperson - Dep of Neonatology

Dr. Sameera Sadeq (M.B.B.Ch, D.C.H, MRCP)  
Consultant - Dept. of Pediatrics

Dr. Enamul Hoque (MRCPCH , D.C.H.)  
Consultant - Dept of Pediatrics

Dr. Hanan Ali Hassan Bin Nakhi (M.B.B.Ch, MRCPCH , D.C.H.)  
Consultant- Dept of Pediatrics

Dr. Maria Al-Mahdi (MBBch, MRCPCH)

Consultant – Dept. of Pediatrics

Dr. Marzouk Awwad S. Al-Azemi (M.B.B.Ch)

Consultant – Dept. of Pediatrics

Dr. Mohamed Zakkiriah Chinnathambi (M.B.B.S, MD, MRCPCH)

Consultant – Dept. of Pediatrics

Dr. Muna A.B. Al-Mutairi (B.M.B.Ch)

Consultant – Dept. of Pediatrics

Dr. Ameerah Ahmad Abdullah (MBBch, MRCPCH)

Specialist – Dept. of Pediatrics

Dr. Hessah A M S Alsunaien (B.M.B.Ch., MRCPCH)

Senior Specialist – Dept. of Pediatrics

### **Farwaniya Hospital**

Dr. Hessa M. Al-Kanderi (MBBsc, MRCPCH, SSC)

Consultant & Chairperson - Dept of Pediatrics

Dr. Saad Alotaibi (FAAP, FRCPC)

Consultant - Dept. of Pediatrics

Dr. Hussein Al-Anzi (M.B.B.Ch, MRCPCH , D.C.H.)

Consultant - Dept of Pediatrics

Dr. Hanan Al-Qattan (MBBS)

Consultant - Dept of Pediatrics

Dr. Meshal Al-Kandari (MBBS)

Consultant - Dept of Pediatrics

Dr. Ala'a Ali Al-Qattan (Pediatric Kuwaiti Board, M.D, Kuwait University)

Senior Specialist - Dept of Pediatrics

Dr. Saadoun Ali Bin Hasan (M.B.B.Ch, FRCPC)

Senior Specialist - Dept of Pediatrics

Dr. Abdullah khalifa Mohd Al-Furajj (B.M.B.Ch, Kuwaiti Board of Pediatric)

Specialist - Dept of Pediatrics

Dr. Faisal Mohd yousef Alshallal (M.B.B.Ch)

Senior Specialist - Dept of Pediatrics

Dr. Hani Qasem Al-Saleh (B.M.B.Ch, MScCH, FRCP)

Senior Specialist - Dept of Pediatrics

Dr. Reema Al-Sawan (M.B.B.Ch, MRCPCH)

Consultant - Chairperson - Dept of Neonatology

Dr. Mariam Ayed (MD, FAAP, FRCPC)

Senior Specialist - Dept of Neonatology

### **Maternity Hospital**

Dr. Mohammed Al-Harbi

Consultant & Chairperson - Dept of Neonatology

Dr. Nawal Abdu-Razzaq Al-Kazemi (M.B.B.Ch, MRCPCH , D.C.H.)

Consultant - Dept of Neonatology

Dr. Muneef Mahrouf Al-Fahad Al-Hathal (M.B.B.Ch (Swedish Board of Pediatrics)

Consultant-Dept of Neonatology

Dr. Nahla Barakat (MBBCh, MSc, MD)

Consultant – Dept of Neonatology

Dr. Mervat F.Mohamed Khalil (MBBCh, MSc, MRCPCH)

Consultant – Dept of Neonatology

Dr. Khaled Al-Manna'ei- (BSc, MD, MRCPCH)

Consultant – Dept of Neonatology

### **Chest Hospital**

Dr. Adnan A.H.M. Alhadlaq (BMBCh, FRCPC)

Specialist & Chairman - Dept of Pediatrics

Dr. Ebenezer John Puttoor Selvan (MRCPCH, MD, DCH, M.B.,B.S.)

Consultant - Dept. of Pediatrics

### **e) Visiting Professors and External Examiners:**

Non this year because of Covid-19 Pandemic

### **SUPPORT STAFF**

#### **Acting Chief Technician:**

Mr. Marcus Thomas D'Souza (B.Sc, M.Sc)

Scientific Assistant-Organic Chemistry

#### **Research Assistant**

None

#### **Research Technician**

None

**Technicians:**

1. Ms. Athary A.S. Al-Sulaiman (B.Sc)  
Lab Technologist
2. Ms. Anita Kumari Kalarikkal (B.Sc, M.Sc)  
Chemistry Specialist

**Secretaries:**

1. Mrs. Bena Andria Rosy Pereira
2. Mr. Nader Abdulaziz (from the Faculty Administration Office)

**Others**

None

**Student help**

None

**STAFFING CHANGES**

1. **New Academic Staff appointed:-** None
2. **Promotions:**
  - a. 4 applications submitted on the last academic year, all to the rank of Full Professor. All waiting for the Promotion Committee decision.
  - b. 1 application for the rank of Associate Professor and waiting for the Promotion Committee decision.
3. **Staff who left the department:**
  - a. Dr. Majeda Abduroul (Assistant Professor) retired in November 2020.
  - b. Mrs. Vazhappilly Jalaja Sukumaran (Scientific Assistant) resigned in November
  - c. 2020.
  - d. Mr. Brahm Swaroop Srivastava (Chief Technician) resigned in June 2020.
  - e. Mrs. Martha Bella Noronha (Senior Secretary) resigned in July 2020.
4. **Staff on Sabbatical Leave:** None
5. **Staff on Study leave:** None

**TEACHING PROGRAM IN THE DEPARTMENT:****I. Faculty of Medicine****a. Undergraduate teaching:**

Due to Covid-19 Pandemic, several modifications were made in the teaching schedule which are described earlier in this Annual Report. Those changes have been well-received by the students, Academic Staff and clinical tutors. The feedback of the students and clinical tutors was positive.

## Tutorials, Practicals & Total teaching hours given to students per year:

Undergraduate Teaching: Number of students 99 (2019-2020)

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6 <sup>th</sup> year	Total (hours)
- PBL Sessions	= 4 hours/per week for 4 groups over 9 weeks repeated 3 times per year = $4 \times 4 \times 9 \times 3 = 432$ hours /yr
- MSD	7 / year (7 x 6 hours) = 42 hours
- Clinical bed-side hospital teaching is conducted simultaneously at 4 general hospitals and the neonatal department for 4 hours daily, i.e. 16 hours per week per hospital; 64 hours per 4 hospitals. Each hospital has 9-10 students divided into 2 groups (64 x 2 = 128 hours). The Block rotation is 11 weeks (128 x 11 = 1408 hours per block). We have 3 blocks per year, 1408 x 3 = 4224 hours per year.	
- Tutorials: 1 hour/day, 4 days per week = 4 hours/week. The block rotation is 10 weeks = 4 x 10 = 40 hours per hospital. We have teaching in 4 hospitals = 40 x 4 = 160 hours per block. Within each academic year we have 3 blocks = 160 x 3 = 480 hours per year	
- E-Tutorials: 2 tutorials per week 2 hours per session for 7 weeks (Third Block 2019-2020). Then 1 tutorial per week for 9 weeks in each block in 2020-2021.	

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**Total hours of teaching per year more than 5178 hours (not calculating the E tutorials).**

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- b. Phase II teaching:** All our academic staff are involved in Phase II PBL teaching, But due to Covid-19 Pandemic, our Staff did not participate in clinical skills lab teaching, OSCE Exams and exams corrections of Phase II.
- c. Graduate teaching (M.Sc./Ph.D ):** Listed under Professors Haider and Dhaunsi separately.
- d. Postgraduate Teaching**  
Academic Staff Members have been actively involved in postgraduate training through KIMS programmes in Pediatrics. They are also involved in the OSCE exam of KIMS as well as exams of the Royal College of Pediatrics and Child Health (MRCPCH-UK).

**II. OTHER FACULTIES:** Listed under Professors Haider and Dhaunsi separately.

### **III . STUDENT ADVISORS**

All the academic staff in the department are mentors to 2-3 students per block with a total of 8-9 students per academic year. Mentors are giving performance feedback and advice to their students. They also review and correct the students' portfolios submitted through their rotation in Pediatrics.

### **RESEARCH AND PUBLICATIONS**

#### **Monthly Departmental Research Meetings:**

The seminar series were well organized and attended during the year as shown below:

#### **Date**

#### **Presenter**

1/12/2020	Prof. Khaled Alsaeid "An overview of COVID-19 Vaccines"
11/1/2021	Dr. Entesar Husain & Dr. Amina Al-Awadi "Teaching Pediatrics during COVID-19 Pandemic: Student's Satisfaction & Results"
16/2/2021	Dr. Majeda Hammoud "Maternal and Neonatal Characteristics and outcomes of Pregnancies complicated with COVID-19 in Kuwait"
30/3/2021	Dr. Dana Marafi "Facilitating gene discovery in epileptic encephalopathy"

### **Research Grants and other Research Projects:**

#### **Dr. Wafa'a Al-Qabandi:**

#### **Funded Research:**

- Effect of glutamine on growth factor activity in bile acid-induced toxicity in hepatocyte cultures.

Principal investigator: Wafa'a Al-Qabandi

Co-investigator: Gursev Dhaunsi

Grant no.: MK01/18

### **Unfunded Research:**

- Liver transplantation for metabolic liver disease in Kuwait.  
**Al-Qabandi W**, Thomas E, Buhamrah E
- Husain EH, **Al-Qabandi W**: Teaching Pediatrics During Covid-19 Pandemic: Students' satisfactory survey.
- Husain EH, Al-Awadi A, **Al-Qabandi W**: Pediatrics for Medical Students: Comparing Results of Traditional vs. Covid-19 Pandemic Teaching.

### **Prof. A. D. Adekile**

#### **Funded Research:**

- **Adekile AD**, Marouf R, **Haider M**, Raghupathy R, Wali Y, AlKindi S, Sharma PN (Co-Investigator): Comparative study of sickle cell disease phenotypes in Kuwait and Oman: cytokine and bone morphogenic gene polymorphisms associated with osteonecrosis (2019-2022); Funded by Kuwait Foundation for the Advancement of Science (KFAS).

#### **Unfunded Research:**

- **Adekile AD**, **Haider MZ**: "Identification of mutations in alpha- and beta-globin genes and their association with clinical phenotype in Kuwaiti children with hemoglobinopathies" (ongoing).
- **Adekile AD** and Asbeutah A: "Transcranial Doppler in Kuwaiti Sickle Cell Disease Patients" (Ongoing)

### **Prof. Mohammed Z. Haider** :

#### **Funded Research:**

##### **Principal Investigator:**

- **Haider MZ**, Rasoul MA, Al-Rushood M, Al-Madhi M, Al-Kandari H. Role of interleukin (IL-4 and IL-13) gene polymorphisms in genetic susceptibility of type-1 diabetes mellitus in Kuwaiti children. Submitted to Research Sector for funding (Project No. MK02/20; budget = KD 4000/-(2021-2022).

##### **Co-Investigator:**

- **Adekile AD**, Marouf R, **Haider M**, Raghupathy R, Wali Y, AlKindi S, Sharma PN. Comparative study of sickle cell disease phenotypes in Kuwait and Oman: cytokine and bone morphogenic gene polymorphisms associated with osteonecrosis (2019-2022). Funded by Kuwait Foundation for the Advancement of Science (KFAS) – ongoing (Budget = KD 91,000/-).

#### **Unfunded Research:**

##### **Principal Investigator:**

- **Haider MZ**, Al-Awadhi AM. "Investigation of the association of cytokine gene polymorphisms with autoimmune diseases in Kuwaiti Arabs (ongoing).

##### **Co-Investigator:**

- **Al-Eisa A**, **Haider MZ**, **Al-Rushood M**. "Evaluation of cytokine gene polymorphisms as predictors for response to steroid therapy in Kuwaiti children with idiopathic nephrotic syndrome" (ongoing).



- **Adekile AD, Haider MZ.** “Identification of mutations in alpha- and beta-globin genes and their association with clinical phenotype in Kuwaiti children with hemoglobinopathies” (ongoing).

**Prof. Gursev Dhaunsi:**

**Funded Research:**

- As Co-Investigator: Effect of Glutamine on Growth Factor activity in the Bile Acid-induced toxicity in hepatocyte cultures. Funded by Research Sector, Kuwait University (Mk 01/18, PI: Dr. Wafa’a Al-Qabandi, Total Budget KD 4000).

**Dr. Mazen Al-Essa:**

**Funded**

**Research:**

- Applied for funded research grant entitled: Visual outcomes after anti-vascular endothelial growth factor (anti-VEGF) vs. Laser for treatment of retinopathy of prematurity (ROP). Project ID 2290. 2021.

**Dr. Majeda S. Hammoud:**

**Funded Research:**

- Maternal vitamin D level in relation to neonatal infections and child health outcomes.  
Role of Dr. Hammoud: Co-Investigator  
Funding institution: Kuwait University, Project # MC01/15
- Role of Carnitine and Amino-Acids in the Etiopathogenesis of Type I Diabetes in the Experimental NOD Mouse Model  
Research Priority Project  
Role of Dr. Hammoud: Co-Investigator  
Funding institution: Kuwait University, Project # RM02/15

**Dr. Mayra Alsaeid:**

**Funded Research:**

- Insulin-like Growth Factor-1 (IGF-1) activities in Omega -3 -fatty acids-/ Palmitate- and High Glucose treated primary cultures of human coronary arteries smooth muscle cells: Implications for Obesity and Diabetes -MK 01/20.

**Dr. Waleed Al-Herz:**

**Funded Research:**

**Co-Investigator:**

- Reprogramming fibroblasts to pluripotency: modeling primary immunodeficiencies with induced pluripotent stem cells. PI: Prof. Luigi Notarangelo (Children’s Hospital Boston/Harvard University). Funding agency: National Institute of Allergy and Infectious Diseases, NIH
- Immune repertoire and function in typical and atypical SCID. PI: Prof. Luigi Notarangelo (Children’s Hospital Boston/Harvard University). Funding agency: National Institute of Allergy and Infectious Diseases, NIH

**Un-funded Research:**

**Principle investigator:**

- Molecular Studies of Primary Immunodeficiency Syndrome, (Collaborative research with Professor Luigi Notarangelo from The National Institute of Health – USA)
- Consanguineous Marriages in the Kuwaiti Society

**Co-Investigator:**

- Genetic Characterisation of Congenital Bone Marrow Failure and Immunodeficiency Syndromes. PI: Prof. Dr. med. Christoph Klein (Ludwig-Maximilians-University Munich)
- A prospective outcome study on patients with profound combined immunodeficiency (P-CID), 2012 (Co-Investigator). PI: Prof. Dr. med. Stephan Ehl (Centre of Chronic Immunodeficiency CCI, Freiburg, Germany)

**Dr Dalia Al-Abdulrazzaq**

**Funded Research:**

- Thyroid and Celiac autoimmunity in children with Type 1 diabetes – Through Dasman diabetes Institute.

**Unfunded Research:**

- Growth hormone use in Kuwait: Multicenter experience

**Dr. Maysoun Al-Rushood:**

**Funded Research:**

- Haider MZ, Rasoul MA, **Al-Rushood**. Role of Interleukin-4 and Interleukin - 13 Gene Polymorphisms in Genetic Susceptibility of Type-1 Diabetes Mellitus in Kuwaiti children (MK02/20)

**Unfunded Research:**

- **Maysoun Al Rushood**, W. Al-Qabandi, A. Al Fadhli, S. Atyani, A. Hussain, A. Al Abdulgafoor. Children with delayed-type Cow's Milk Protein Allergy reactions may be at significant risk of developing severe immediate reactions upon reintroduction.

**Dr. Mohammad Ebrahim:**

**Funded Research:**

- Research Initiation Grant (RIG) – AED (Automated External Defibrillator) use among patients with inherited arrhythmia

**Dr. Hind Al-Sharhan**

**Unfunded Research:**

- Newborn Screening Experience for Classic Homocystinuria in Kuwait
- Role of interleukin (IL-4 and IL-13) gene polymorphisms in genetic susceptibility of type-1 diabetes mellitus in Kuwaiti children.
- Identification of Human Genetic Factors in Multisystem Inflammatory Syndrome in Children (MIS-C) with COVID-19 in Kuwait.
- Alkaptonuria and NTBC Efficacy in case series.

## **PUBLICATIONS:**

### **Papers published:**

1. **Adekunle Adekile**, Jalaja Sukumaran, Diana Thomas, Thomas D'Souza and **Mohammad Haider**. Alpha Thalassemia Genotypes in Kuwait. BMC Medical Genetics. 2020 21:170 <https://doi.org/10.1186/s12881-020-01105-y>.
2. Nnebe-Agumadu U, Adogah AI, Nnodu O, **Adekile A**: Accidental hydroxyurea over-dosage in a child with sickle cell anemia: an African experience. Ped Blood Cancer. 2020 [doi.org/10.1002/pbc.28632](https://doi.org/10.1002/pbc.28632).
3. **Adekile AD**. Genetic and Clinical Significance of HbF Expression in Sickle Cell Disease. Med Princ Pract. 2020. DOI: 10.1159/000511342.
4. Anwar Al-Awadhi, **Adekunle Adekile**, Rajaa Marouf. The relationship of thrombospondin-1 to von Willebrand Factor and ADAMTS-13 in sickle cell disease patients of Arab ethnicity. Acta Haematol. 2020 Sep 28; 1-8, doi: 10.1159/000508521.
5. Adama I Ladu, Abiola O Ayenigba, **Adekunle D Adekile** and Imelda Bates: The spectrum of splenic complications in sickle cell disease patients in Africa: A Systematic review. Br J Haematol. 2020 [doi.org/10.1111/bjh.17179](https://doi.org/10.1111/bjh.17179).
6. Uche Nnebe-Agumadu, Adebayo Innocent Adogah, Erigbuem Ifeanyi, James Esther, Kumode Evelyn, Nnodu Obiageli, **Adekunle Adekile**. Hydroxyurea in children with sickle cell disease in a resource-poor setting: monitoring and effects of therapy. A practical perspective. Ped Blood Cancer. 2020 DOI: 10.22541/au.159136812.21214148.
7. Adegoke SA, Ologun BG, Oladimeji OI, **Adekile AD**: Haemoglobin SO-Arab in a child from Southwestern Nigeria: Case report and review of the literature. Nig. J Haemat| 2021 Vol. 3 No. 1
8. Oladele Simeon Olatunya, Adefunke Olarinre Babatola, Adewuyi Temidayo Adeniyi, Olubunmi Adeola Lawal, Alaba Olanrewaju Daramola, Tosin Anthony Agbesanwa, Temitope Olumuyiwa Ojo, Paul Oladapo Ajayi, Adeleke Ajayi Ibijola, Akinwumi Kolawole Komolafe, **Adekunle Adekile**. Determinants of Care-Seeking Practices for Children with Sickle Cell Disease in Ekiti, Southwest Nigeria. Journal of Blood Medicine. 2021 12:123–132.
9. **Adekile, A.**; Akbulut-Jeradi, N.; Al Khaldi, R.; Fernandez, M.J.; Sukumaran, J. Diagnosis of Sickle Cell Disease and HBB Haplotyping in the Era of Personalized Medicine: Role of Next Generation Sequencing. J. Pers. Med. 2021,11,454. <https://doi.org/10.3390/jpm11060454>
10. Al-Awadhi AM, **Haider MZ**, Sukumaran J, Mohammed AT, Hasan EAH, Bartella YA. (2020) Role of protein tyrosine phosphatase (PTPN22) gene [C1858T] functional variant in genetic susceptibility of psoriatic arthritis in Kuwaiti Arabs. The Open Rheumatology Journal 14:15-21. DOI: 10.2174/1874312902014010015, 2020,14,15-21.

11. **Mazen Al-Essa** and **Gursev Dhaunsi**: Receptor-mediated Attenuation of Insulin-like Growth Factor-1 Activity by Galactose-1-phosphate in Neonate Skin Fibroblast Cultures: Galactosemia Pathogenesis. *Advances in Clinical and Experimental Medicine*. 2020; 29(4): 499-504.
12. An Asian multicenter retrospective study on persistent pulmonary hypertension of the newborn: incidence, etiology, diagnosis, treatment and outcome. Nakwan N, Jain S, Kumar K, Hosono S, **Hammoud M**, Elsayed YY, Ariff S, Hasan B, Khowaja W, Poon WB. *J Matern Fetal Neonatal Med*. 2020 Jun; 33(12):2032-2037. doi: 10.1080/14767058.2018.1536740.
13. WHO infant and young child feeding indicators in relation to anthropometric measurements. Al-Taiar A, Alqaoud N, **Hammoud MS**, Alanezi F, Aldalmani N, Subhakaran M. *Public Health Nutr*. 2020 Jul;23(10):1665-1676. doi: 10.1017/S1368980019004634.
14. Maternal and perinatal characteristics and outcomes of pregnancies complicated with COVID-19 in Kuwait. Ayed A, Embaireeg A, Benawadh A, Al-Fouzan W, **Hammoud M**, Al-Hathal M, Alzaydai A, Ahmad A, Ayed M. *BMC Pregnancy Childbirth*. 2020 Dec 2;20(1):754. doi: 10.1186/s12884-020-03461-2.
15. Hydroxychloroquine, a successful treatment for lung disease in ABCA3 deficiency gene mutation: a case report. Shaaban W, **Hammoud M**, Abdullaheem A, Elsayed YY, Alkazemi N. *J Med Case Rep*. 2021 Feb 2;15(1):54. doi: 10.1186/s13256-020-02604-5.
16. Influence of COVID-19 on lifestyle behaviors in the Middle East and North Africa Region: a survey of 5896 individuals. Abouzid M, El-Sherif DM, Eltewacy NK, Dahman NBH, Okasha SA, Ghozy S, Islam SMS; **Hammoud M**, EARG Collaborators. *J Transl Med*. 2021 Mar 30;19(1):129. doi: 10.1186/s12967-021-02767-9.
17. Rigoni R, Fontana E, Dobbs K, Marrella V, Taverniti V, Maina V, Facoetti A, D'Amico G, **Al-Herz W**, Cruz-Munoz ME, Schuetz C, Gennery AR, Garabedian EK, Giliani S, Draper D, Dbaibo G, Geha RS, Meyts I, Tousseyn T, Neven B, Moshous D, Fischer A, Schulz A, Finocchi A, Kuhns DB, Fink DL, Lionakis MS, Swamydas M, Guglielmetti S, Alejo J, Myles IA, Pittaluga S, Notarangelo LD, Villa A, Cassani B. Cutaneous barrier leakage and gut inflammation drive skin disease in Omenn syndrome. *J Allergy Clin Immunol*. 18:S0091-6749(20)30492-9, 2020.
18. Massaad MJ, Zainal M, **Al-Herz W**. Frequency and Manifestations of Autoimmunity Among Children Registered in the Kuwait National Primary Immunodeficiency Registry. *Front Immunol*. 2;11:1119, 2020.
19. Whangbo JS, Chou J, Al-Dhekri H, Harris M, Geha RS, Pai SY, **Al-Herz W**. Hematopoietic Stem Cell Transplantation Is a Curative Therapy for Transferrin Receptor 1 (TFRC) Deficiency. *J Allergy Clin Immunol Pract*. 9(2):753-759.e2, 2021.

20. Al-Mayouf SM, Alreefi HA, Alsinan TA, AlSalmi G, AlRowais A, **Al-Herz W**, Alazami AM, Alsonbul A, Al-Mousa H. Lupus manifestations in children with primary immunodeficiency diseases: Comprehensive phenotypic and genetic features and outcome. *Mod Rheumatol.* 22:1-16, 2021.
21. Harrison SC, Tsilifis C, Slatter MA, Nademi Z, Worth A, Veys P, Ponsford MJ, Jolles S, **Al-Herz W**, Flood T, Cant AJ, Doffinger R, Barcenas-Morales G, Carpenter B, Hough R, Haraldsson Á, Heimall J, Grimbacher B, Abinun M, Gennery AR. Hematopoietic Stem Cell Transplantation Resolves the Immune Deficit Associated with STAT3-Dominant-Negative Hyper-IgE Syndrome. *J Clin Immunol.* 2021.
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25. **Maysoun Al Rushood, Amal AL-Eisa.** Factors Predicting Students' Performance in the Final Pediatrics OSCE. *PLoS ONE* 15(9):1-9, 2020. doi:v10.3171/journal.pone.0236484.
26. **Maysoun Al Rushood, Amal AL-Eisa,** Rajaa AL-Attayah. Serum and Urine Interleukin-6 and Interleukin-8 Levels Do not Differentiate Acute Pyelonephritis from Lower Urinary Tract Infections in Children. *Journal of Inflammation Research* 13:789-797, 2020. [Http://dx.doi.org/10.2147/JIR.S275570](http://dx.doi.org/10.2147/JIR.S275570).
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Immunodeficiency: A Case Report. American Journal of Case Reports 2021; 22: 1-7 e930966 DOI: 10.12659/AJCR.930966.

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30. **Mohammad A. Ebrahim**, Ameerah K. Alsaqobi, Aishah A. Alhajeri, Mariam Al-Bahrani, Moustafa A. Elsayed, Faisal M. Al-Saiedi, Vadim G. Lyubomudrov. Outcomes of total anomalous pulmonary venous drainage and predictors of mortality—Tertiary center experience. "Progress in Pediatric Cardiology" in April 2021.
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34. Dworschak, G. C., J. Punetha, J. C. Kalanithy, E. Mingardo, H. B. Erdem, Z. C. Akdemir, E. Karaca, T. Mitani, **D. Marafi**, J. M. Fatih, S. N. Jhangiani, J. V. Hunter, T. C. Dakal, B. Dhabhai, O. Dabbagh, H. S. Alsaif, F. S. Alkuraya, R. Maroofian, H. Houlden, S. Efthymiou, N. Dominik, V. Salpietro, T. Sultan, S. Haider, F. Bibi, H. Thiele, J. Hoefele, K. M. Riedhammer, M. Wagner, I. Guella, M. Demos, B. Keren, J. Buratti, P. Charles, C. Nava, D. Héron, S. Heide, E. Valkanas, L. B. Waddell, K. J. Jones, E. C. Oates, S. T. Cooper, D. MacArthur, S. Syrbe, A. Ziegler, K. Platzer, V. Okur, W. K. Chung, S. A. O'Shea, R. Alcalay, S. Fahn, P. R. Mark, R. Guerrini, A. Vetro, B. Hudson, R. E. Schnur, G. E. Hoganson, J. E. Burton, M. McEntagart, T. Lindenberg, Ö. Yilmaz, B. Odermatt, D. Pehlivan, J. E. Posey, J. R. Lupski and H. Reutter (2021). "Biallelic and monoallelic variants in PLXNA1 are implicated in a novel neurodevelopmental disorder with variable cerebral and eye anomalies." *Genet Med*.
35. Efthymiou, S., I. Herman, F. Rahman, N. Anwar, R. Maroofian, J. Yip, T. Mitani, D. G. Calame, J. V. Hunter, V. R. Sutton, E. Yilmaz Gulec, R. Duan, J. M. Fatih, **D. Marafi**, D. Pehlivan, S. N. Jhangiani, R. A. Gibbs, J. E. Posey, S. Maqbool, J. R. Lupski and H. Houlden (2021). "Two novel bi-allelic

- KDELR2 missense variants cause osteogenesis imperfecta with neurodevelopmental features." *Am J Med Genet A*.
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  38. Saad, A. K., **D. Marafi**, T. Mitani, H. Du, K. Rafat, J. M. Fatih, S. N. Jhangiani, Z. Coban-Akdemir, R. A. Gibbs, D. Pehlivan, J. V. Hunter, J. E. Posey, M. S. Zaki and J. R. Lupski (2021). "Neurodevelopmental disorder in an Egyptian family with a biallelic ALKBH8 variant." *Am J Med Genet A* 185(4): 1288-1293.
  39. **Marafi, D.**, T. Mitani, S. Isikay, J. Hertecant, M. Almannai, K. Manickam, R. Abou Jamra, A. W. El-Hattab, J. Rajah, J. M. Fatih, H. Du, E. Karaca, Y. Bayram, J. Punetha, J. A. Rosenfeld, S. N. Jhangiani, E. Boerwinkle, Z. C. Akdemir, S. Erdin, J. V. Hunter, R. A. Gibbs, D. Pehlivan, J. E. Posey and J. R. Lupski (2020). "Biallelic GRM7 variants cause epilepsy, microcephaly, and cerebral atrophy." *Ann Clin Transl Neurol* 7(5): 610-627.
  40. Saad, A. K., **D. Marafi**, T. Mitani, A. Jolly, H. Du, H. M. Elbendary, S. N. Jhangiani, Z. C. Akdemir, R. A. Gibbs, J. V. Hunter, C. Carvalho, D. Pehlivan, J. E. Posey, M. S. Zaki and J. R. Lupski (2020). "Biallelic in-frame deletion in TRAPPC4 in a family with developmental delay and cerebellar atrophy." *Brain* 143(10): e83.
  41. Scala, M., M. Mojarrad, S. Riazuddin, K. W. Brigatti, Z. Ammous, J. S. Cohen, H. Hosny, M. A. Usmani, M. Shahzad, S. Riazuddin, V. Stanley, A. Eslahi, R. E. Person, H. M. Elbendary, A. M. Comi, L. Poskitt, V. Salpietro, Q. S. Genomics, J. A. Rosenfeld, K. B. Williams, **D. Marafi**, F. Xia, M. Biderman Waberski, M. S. Zaki, J. Gleeson, E. Puffenberger, H. Houlden and R. Maroofian (2020). "RSRC1 loss-of-function variants cause mild to moderate autosomal recessive intellectual disability." *Brain* 143(4): e31.
  42. **Hind Alsharhan**, Hana Alharbi, Jessica Priestley, Rebecca Ganetzky and Miao He. Urinary Uracil: A Useful Marker for Ornithine Transcarbamylase (OTC) Deficiency in Affected Males. *Clinical Chemistry*, July 2020. 1;66(7):988-989. DOI: 10.1093/clinchem/hvaa101. PMID: 32628763.

43. **Hind Alsharhan** and Can Ficicioglu. Disorders of Phenylalanine and Tyrosine Metabolism. *Translational Science of Rare Diseases*, vol 5, no. 1-2, pp.3–58, 2020. DOI: 10.3233/TRD-200049.
44. David A Dymant, Anne H O'Donnell-Luria, Pankaj B Agrawal, Kyriekos A. Aleck, **Hind Alsharhan**, et al. Alternative Genomic Diagnoses for Individuals with a Clinical Diagnosis of Dubowitz Syndrome. *Am J Med Genet A*. 2021 Jan;185(1):119-133. DOI: 10.1002/ajmg.a.61926. PMID: 33098347.
45. **Hind Alsharhan**, Bobby G Ng, et al. Expanding the Phenotype, Genotype and Biochemical Knowledge of ALG3-CDG. 2021 DOI: 10.1002/jimd.12367. PMID: 33583022.
46. **Hind Alsharhan**, Miao He, Andrew C. Edmondson, et al. ALG13 X-Linked Intellectual Disability: New Variants, Glycosylation Status and Expanded Phenotypes. 2021 DOI: 10.1002/jimd.12378. PMID: 33734437.
47. **Hind Alsharhan**, Colleen Muraresku and Rebecca Ganetzky. COXPD9 in an Individual from Puerto Rico and Literature Review. 2021 DOI: 10.1002/ajmg.a.62344. PMID: 34008913.

#### **Papers in Press:**

1. Akbulut-Jeradi N, Fernandez MJ, Al Khaldi R, Sukumaran, J and **Adekile A**: Unique Polymorphisms at BCL11A, HBS1L-MYB and HBB Loci Associated with HbF in Kuwaiti patients with Sick Cell Disease. *J. Pers. Med.* 2021. In Press.
2. Marouf R, Mojiminiyi O, **Adekile AD**. Neutrophil gelatinase-associated lipocalin as a biomarker of nephropathy in sickle cell disease. *Annals of Hematology* 2021 In Press.
3. Al-Awadhi AM, **Haider MZ**, Sukumaran J, Hasan EAH, Bartella YA. (2021) The protein tyrosine phosphatase non-receptor type N22 (PTPN22) gene functional polymorphism (C1858T) is not associated with rheumatoid arthritis in Kuwaiti patients. *The Open Rheumatology Journal* (accepted).

#### **CONTRIBUTIONS:**

##### **Dr. Wafa'a Al Qabandi:**

##### **Academic Teaching:**

- Teaching 6<sup>th</sup> year Medical students during their Pediatric clinical rotation in Al Amiri Hospital.
- Phase III PBL: 6<sup>th</sup> year Medical students (Block 3: 1 PBL; Block 1: 2; Block 2: 1).
- MSD:
  - A coordinator of one Pediatric Medical school day (MSD) for 6<sup>th</sup> year Medical students in January 12<sup>th</sup> 2021 (Gastrointestinal problems in children).
  - Participated in the Communication MSD with other colleagues on January 26<sup>th</sup>, 2021.



- Phase II PBL: 4<sup>th</sup> year Medical students (Digestive Module) on January 26<sup>th</sup>-March 19<sup>th</sup> 2021.

### **Exams:**

#### **Students' exams:**

- Participated in the final OSCE exam of Phase 111 (6<sup>th</sup> year) medical students in October 19-20<sup>th</sup>, 2020.

#### **Post graduate exams:**

- Participated as an examiner for KIMS Pediatric Final Exam on February 10<sup>th</sup>, 2021.

#### **Advisory Editor Services for Professional Journals:**

- Reviewer for The Saudi Journal of Gastroenterology.
- Reviewer for Pediatric Transplantation.
- Reviewer for Kuwait Medical Journal.
- Reviewer for International Scholarly Research Notices.
- Reviewer for BMC Pediatrics

#### **Presentations:**

- "Pediatric gastroenterology review questions and images", presented on line in the Review Course of Saudi Association of Pediatric Gastroenterology, Hepatology and Nutrition (SASPGHAN) for Fellows held on June 11-13<sup>th</sup>, 2020.
- "Neonatal Cholestasis", presented on line for pediatric residents of Kuwait Institute of Medical Specialization (KIMS) on July 07<sup>th</sup>, 2020.
- "Telehealth Development in Kuwait". A virtual presentation representing Telehealth development in Kuwait during Covid-19 Pandemic presented online during the "MENA Telehealth Conference: Establish Strategy and Partnerships" in February 2<sup>nd</sup>, 2021, Dubai, UAE.

#### **Courses/Symposiums/Workshops attended:**

- Moderator of a session in "Celiac Disease Symposium" (Online Webinar) held in December 19-20<sup>th</sup>, 2020 in King Fahad Medical City, Riyadh, Saudi Arabia.
- North American Society of Pediatric Gastroenterology Hepatology and Nutrition Annual Post Graduate Course held online on November 7<sup>th</sup>, 2020.

#### **Missions & Conferences:**

- The Digital International Liver Congress held virtually on August 27-29<sup>th</sup>, 2020, London, UK.
- The American Association of the Study of Liver Disease (AASLD) virtual conference held on November 13-17<sup>th</sup>, 2020, Boston, USA.
- "MENA Telehealth Conference: Establish Strategy and Partnerships", a virtual conference held in February 2-3<sup>rd</sup>, 2021, Dubai, UAE.

#### **Contribution to Committees/Posts in the Faculty of Medicine:**

- Chairperson-Department of Pediatrics: starting June 27<sup>th</sup>, 2019.
- Member of the Committee of Strategic Teaching Planning during Covid-19 Pandemic, June-July 2020.
- Member of the Faculty Consultative Committee of FOM Staff Secondments to Ministry of Health, October 2020.

- Member of Department of Psychiatry Interview Committee of Scholars, January 2021.

**Participation in the Ministry of Health/Government activities:**

**Teaching:**

- Postgraduate (Pediatric KIMS candidates)
- General Pediatricians in Al Amiri Hospital

**Service Diagnostic:**

- A Consultant in the Pediatric Gastroenterology Unit in Al Amiri Hospital, performing all kinds of diagnostic and therapeutic gastrointestinal procedures for children.

**Clinical:**

- Hospital services including ward rounds, out-patient clinics and emergency calls covering Pediatric gastroenterology problems from all over Kuwait.
- Follow up of Pediatric liver and intestinal transplant recipients in a special Pediatric liver transplant clinic in Al Amiri Hospital.

**Memberships and committees:**

- Member, the Pediatric Gastroenterology Unit in Al Amiri Hospital.
- Member, Department of Pediatric Council in Al Amiri Hospital.

**Membership in Professional Societies:**

- A member of the Royal College of Pediatrics and Child Health (UK) from 2004.
- A member of the Saudi Association of the Study of Pediatric Gastroenterology, Hepatology and Nutrition (SASPGHAN) from 2011.
- A member of the European Association for the Study of the Liver (EASL) from 2012.
- A member of the European Society of Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN) from 2013.
- A member of the American Association for the Study of Liver Diseases (AASLD) from 2013.

**Prof. Adekunle D. Adekile**

**Participation in Ministry of Health activities**

Seconded to Department of Pediatrics, Mubarak Al-Kabeer Hospital. The following services are provided:

- Consultant and Head of the Pediatric Hematology Unit.
- See in- and out-patients and receives consultations on patients with different hematological problems.
- Receives samples from different hospitals in Kuwait for Detection of -3.7kb deletion in alpha- thalassemia patients and families.
- Detection of common sickle cell haplotypes (ARAB, BENIN, BANTU/CAR) in patients and families.
- Detection of common mutations in beta-globin gene in Beta-Thal patients.

**Teaching**

**Undergraduate**

- Phase-III: PBL-Facilitator in “Pediatrics” (6<sup>th</sup> Year MD students).

### **Postgraduate**

- Teaching Pediatric resident doctors in the wards and clinics
- Mentoring junior research fellows in different universities in Nigeria

### **Membership of Journal Editorial Boards**

- Hemoglobin
- The Scientific World Journal (Hematology)
- Datasets in Medicine (Hematology), Open Access; New York, NY
- Journal of Applied Hematology
- Nigerian Journal of Haematology
- Journal of Hematology: Annals of Medical Case Reports

### **Service as Referee/Reviewer for Journals/Funding bodies**

#### **Served as Reviewer for:**

- Medical Principles and Practice
- Iraqi Journal of Hematology
- Saudi Journal of Hematology
- Blood Reviews
- Hemoglobin
- Expert Review in Hematology
- BMC Pediatrics

### **Prof. Khaled Alsaeid:**

#### **Ministry of Health activities:**

- Head of Pediatric Rheumatology, Ministry of Health
- Member, National Immunization Committee.

#### **International level:**

- Multiple international presentations and lectures in the field of Pediatric Rheumatology.

### **Prof. Mohammad Z. Haider:**

#### **Participation in Ministry of Health activities:**

Not applicable

#### **Teaching**

##### **Undergraduate**

- Phase-II: (3<sup>rd</sup> year MD students, Blood Module) PBL-Facilitator.
- Phase-II: (4<sup>th</sup> year MD students, Digestive Module) PBL-Facilitator.
- Phase-II: (4<sup>th</sup> year MD students, Reproductive and Breast Module) PBL-Facilitator.
- Phase-III: PBL-Facilitator in “Pediatrics” (6<sup>th</sup> Year MD students).

##### **Postgraduate**

- a. Course No. 540-562 “Molecular Biology and Biotechnology”: (MSc. Medical Biochemistry program), Faculty of Medicine. The topics taught were:

- a. Types and mechanism of DNA recombination and its
- b. Significance in Human diseases and gene therapy.

#### **Other Teaching-related activities**

- b. Member, Examinations Committee: For Course No. 540-562 “Molecular Biology & Biotechnology” (MSc, Medical Biochemistry Program, Faculty of Medicine).

#### **Membership of Journal Editorial Boards**

- Member Editorial Board and Handling Editor (Genetics), BMC Pediatrics.
- Member, Editorial Board, American Journal of Pediatrics.
- Member, Editorial Board: Medical Principles and Practice.
- Section Editor (Genetics): Annals of Clinical and Experimental Immunology.
- Member, Editorial Board: Journal of Diabetes Care and Endocrinology.
- Section Editor (Genetics): Journal of Pediatrics and Pediatric Medicine.
- Member, Editorial Board: SM Pediatrics and Neonatal Biology.

#### **Service as Referee/Reviewer for Journals/Funding bodies**

- Served as Reviewer for Research Sector, Kuwait University (on several occasions).
- Served as Reviewer: for research project submitted to Ministry of Health, Kuwait for funding by Kuwait Medical Genetics Center.
- Served as Reviewer: for the journal Medical Principles and Practice.
- Served as Reviewer: for the journal Endocrine connections.
- Served as Reviewer: for the journal Molecular Biology Reports.

#### **Participation in conferences**

- Attended the 25<sup>th</sup> HSC Poster Conference (online), 16-18 March 2021.

#### **Abstracts/ Conference papers**

- Al-Awadhi AM, **Haider MZ**, Sukumaran J, Hasan EAH, Bartella YA. (2021) Lack of association between protein tyrosine phosphatase non-receptor type N22 gene functional variant R620W and rheumatoid arthritis in Kuwaiti Arabs. Presented at 25<sup>th</sup> HSC Poster Conference, 16-18 March 2021, Kuwait.

#### **Services as External Examiner:**

- Convener: Thesis Examination Committees, for MSc. (Molecular Biology), College of Graduate Studies, Kuwait University.
- Member: Thesis Examination Committee, M.Sc. (Molecular Biology), College of Graduate Studies, Kuwait University.

#### **Contribution to Committees:**

##### **For outside Institutions:**

- Member: Panel of Reviewers for evaluation of Research: Ministry of Health, Kuwait (July 2014-present).

##### **For Kuwait University:**

- Director: MSc. (Molecular Biology) Joint Degree Program of the College of Graduate Studies (July 2017 – present).

- Member: Area Committee for Joint Degree Programs, College of Graduate Studies, Kuwait University (2017- present).
- Member: Promotion Review Committee, Faculty of Allied Health Sciences, 2019-2021.
- Member: Faculty Promotions Committee, Faculty of Dentistry, 2020-2021.

**For Faculty of Medicine:**

- Member: Medical Research Committee, (MRC).
- Chairman: Promotion Review Committee (PRC), Department of Biochemistry (2020-2021).
- Chairman: Promotion Review committee (PRC), Department of Pediatrics (2021-2022).
- Member: Promotion Review committee (PRC's) of the following Departments:
  - Department of Medicine (2020-2021; For two candidates).
  - Member: Promotion review committee (PRC), Department of Pathology (2021-2022).
  - Member: Promotion review committee (PRC), Department of Surgery (2021-2022; for two candidates).
- Member: A Committee setup by the Dean, FOM, to evaluate the sabbatical leave application from the Department of Surgery.

**Membership of Professional Societies:**

- Member, American Society of Human Genetics
- Member, Kuwait University Faculty Association.
- Member, Cambridge University Alumni Network

**Prof. Amal Al-Eisa:**

**Teaching activities:**

**Undergraduate:**

- Phase-III: PBL-Facilitator in "Pediatrics" (Three groups of 6<sup>th</sup> Year Medical students).
- Medical School Day-Child Psychology, April 2021.
- Phase-II: PBL-Facilitator of renal module - 4<sup>th</sup> year students November-December 2020
- Examiner for Undergraduate in Pediatrics

**Postgraduate:**

- Examiner-Membership of the Royal College of Child Health and Pediatrics MRCPCH-UK
- Examiner of KIMS Board Exams.

**Advisory review services for professional journals:**

- Reviewer for Kuwait Medical Journal
- Reviewer for Pediatric Nephrology Journal.
- Reviewer for Frontiers in Physiology Journal
- Reviewer for Research Committee-Ministry of Health.
- Editorial board member of International Journal of Pediatrics and Neonatal care.
- Editorial board member of Archives of Renal Diseases and Management.

- Editorial board member of Pediatric Surgery: Clinics in Surgery

### **Contribution to Committees:**

#### **For Faculty of Medicine, Kuwait University:**

- Head of Faculty of Medicine Advisory Committee on Promotion, 2020 till current date.
- Head of Faculty of Medicine Examination Committee 2019 till current date.
- Member of Distinguished Teaching Award committee, Kuwait University for years 2019- 2020 & 2020-2021.
- Chairperson of Distinguished Researcher and Young Researcher Award Committee at Kuwait University 2019 - 2020.
- Member of Curriculum Committee- Faculty of Allied Health since 2019 till current date.

### **Membership of Professional Societies**

- Member, American Society of Nephrology
- Member of International Pediatric Nephrology Association
- Member, Asian Pediatric Nephrology Society
- Member, Kuwait University Faculty Association

### **Presentations & Publications:**

- Maysoun Al-Rushood, **Amal Al-Eisa** & MZ Haider: IL-4 & IL-13 gene polymorphism in Children with Idiopathic Nephrotic Syndrome in Kuwait presented virtually at EAACI Digital Congress 2020-London, 6-8 June, 2020.
- Maysoun Al-Rushood & **Amal Al-Eisa**: Factors predicting Students' performance in final Pediatrics OSCE. PLOS One, June 2020.
- Maysoun Al-Rushood, **Amal Al-Eisa** & MZ Haider: IL-4 & IL-13 gene polymorphism in Children with Idiopathic Nephrotic Syndrome in Kuwait. Journal of Inflammation Research, 2020
- M Al Rushood, **A Al-Eisa**, R Al-Attayah: Serum and Urine Interleukin-6 and Interleukin-8 Levels Do Not Differentiate Acute Pyelonephritis from Lower Urinary Tract Infections in Children. Frontiers in Pediatrics, November 2020

## **Prof. Gursev Dhaunsi:**

### **Contributions:**

#### **Undergraduate teaching:**

- Teaching Medical students during all phases of the new curriculum
- Phase I: Pre-professional year  
Teaching Chemistry for Health Sciences Course and facilitator for Problem Based Learning (PBL) sessions in Infection and Immunity module.
- Phase II: Facilitator for Problem-based Learning sessions in Respiratory module and Nervous System module.
- Phase III: Facilitator for PBL sessions in Pediatrics.

#### **Postgraduate teaching:**

- Teaching M.Sc. students in Molecular Biology and Biochemistry Graduate programs of Health Sciences Center, Kuwait University.

### **University and Community activities:**

- Chairman, Health Science Center (HSC) Committee for the Protection of Human Subjects in Research.

### **Dr. Mazen Al-Essa:**

#### **Teaching:**

- Teaching Service: teaching 6<sup>th</sup> year (phase III) and 4<sup>th</sup> year (phase II) Bed side, PBL sessions and tutorials.
- Exam preparation for 6<sup>th</sup> year Pediatrics.

#### **Services:**

Attending clinical service as consultant in the neonatal unit at Maternity Hospital and outpatient clinic in Amiri Hospital.

### **Dr. Majeda Hammoud:**

#### **Teaching:**

- Having a full teaching load (clinical, bedside teaching and E lectures together with the PBL sessions (online) and the MSD (online)

### **University and Community activities:**

- Member of the Secondments committee at the Faculty of Medicine.
- Member of the Central Committee for the 25<sup>th</sup> Health Sciences Centre Poster Conference.
- Member of the Infection control committee at Al- Sabah Maternity Hospital.
- Member of the Antibiotic Policy committee at Al- Sabah Maternity Hospital
- Head of the Ethical committee in Al- Sabah Maternity Hospital.

### **Conferences Attended:**

- FOM Training Sessions on MS Teams for Faculty Members, 14<sup>th</sup>, 15<sup>th</sup>, 17<sup>th</sup> June 2020.
- Basics of MS Teams for faculty members, E-Learning Center, Kuwait.
- 4<sup>th</sup> live webinar of VIPES (Virtual Pediatric Essentials), 16<sup>th</sup> June 2020, UAE.
- Webinar: How to Improve Your Literature Searching With PICO, 24<sup>th</sup> June 2020
- International Webinar on Diabetes and Health Care” 19<sup>th</sup> -20<sup>th</sup> August 2020 organized by conference mind.
- Live Webcast, RSV Disease Burden & Consequences. 2<sup>nd</sup> September 2020, President of the Spanish National Society of Neonatology, AbbVie.
- Virtual Workshop on Using Assessments in Blackboard (courses and Mastering the Grade center), 16 September 2020, Kuwait University E-Learning Center.
- Live Stream, On line lectures: 5th State-of-the-Art Reviews in Neonatal-Perinatal Medicine, Dates: 24<sup>th</sup> September, 1<sup>st</sup> - 8<sup>th</sup> October 2020, Cleveland clinic, Ohio, USA
- 10<sup>th</sup> International Neonatal conference ( virtual ) 15<sup>th</sup> -17<sup>th</sup> October 2020, Abu Dhabi.
- Virtual lecture series on Neonatal Brain Club (Sedation, Analgesia, and the Newborn Brain), St. Louis Children’s Hospital Washington University, 16<sup>th</sup> October 2020

- The 8<sup>th</sup> Congress of EAPS (European Academy of Pediatrics Societies) “Virtual”, 18<sup>th</sup> -19<sup>th</sup> October 2020, A joint scientific and educational event of EAP, ESPNIC and ESPR societies.
- Virtual International Conference on Microbiology & Infectious Diseases on 19<sup>th</sup> October 2020 Rome, Italy
- 38TH Annual Meeting OF THE European Society for Pediatric Infectious Diseases , Virtual Meeting 26<sup>th</sup> -29<sup>th</sup> October 2020
- International Pediatric Congress Virtual Series II, 29-30/ Oct /2020 (UAE)
- The 2<sup>nd</sup> Annual Oman International Pediatric Congress (Virtual congress) 5<sup>th</sup> - 7<sup>th</sup> November 2020
- Learnings from the Preterm Epo Neuroprotection Trial, Joint virtual meeting between Seattle Children’s Hospital and the University of Washington, 20<sup>th</sup> November, 2020
- Embase training Webinar for HSC members, 2<sup>nd</sup> December 2020
- 3rd Joint ICHCA - IPHA webinar: Blood pressure measurement in neonates: when and how? 3<sup>rd</sup> December 2020
- 2<sup>nd</sup> Middle East Specialized Nutrition Virtual Conference – 4<sup>th</sup> - 5<sup>th</sup> December 2020, Dubai
- International online conference on (Future of Telehealth), 13<sup>th</sup> December 2020, UAE.
- Webinar Series renal nutrition, Kings College Hospital, London, December 6<sup>th</sup>, December 20<sup>th</sup> 2020, 10<sup>th</sup> January 2021.
- Live Webinar on “Best Practices for Manuscript Writing and Getting your Paper Published” – 20<sup>th</sup> December 2020 by Turacoz Healthcare, Singapore.
- Neonatal Brain Club Online Lecture Series, Supporting HIE Families in the NICU and Beyond, 15<sup>th</sup> January 2021, Cleveland Clinic hio, USA.
- Webinar on Covid-19 Update from Singapore, held by the National University of Singapore 26<sup>th</sup> January 2021
- 411<sup>th</sup> live webinar of VIPES ( Virtual Pediatric Essentials ) Webinar, 31<sup>st</sup> January 2021, UAE.
- “An update on COVID-19 Vaccines” on line seminar (MS Teams), 10<sup>th</sup> February 2021, Department of Microbiology, Faculty of Medicine, Kuwait.
- Webinar on Parenting Challenge in Covid Time, 17<sup>th</sup> February 2021, UAE.
- 25<sup>th</sup> Health Sciences Centre Poster Virtual Conference; 16-18<sup>th</sup> March 2021.
- 8th Annual Arab International Paediatric & Neonatal Virtual Medical Congress, 18 - 20 March 2021.

### **Participation in conferences**

- Attended the 25<sup>th</sup> HSC Poster Conference (online), 16-18 March 2021.

### **Peer review services:**

- BMC Pediatrics
- Medical Principles and Practice (MPP)
- Kuwait Medical Journal (KMJ)
- Journal of Clinical Epidemiology
- Dove Medical Press (Journal of Infection and Drug Resistance)
- Dove Medical Press (journal of Risk Management and Healthcare Policy)
- BMJ Nutrition, Prevention & Health
- Journal of Neonatal Studies
- Research and Reports in Neonatology



**Dr. Lulu Abushaban:**

- Associate Professor – Department of Pediatrics
- Examiner for The Royal College of Physicians in Pediatrics (UK)
- Exam Chairman for KIMS Pediatric Cardiology Fellowship Program.

**Dr. Mayra Al Saeid:**

**Clinical Service : Pediatrics Outpatient Clinic:**

- Consultation service in Al-Amiri Teaching Hospital
- Weekly new referrals from the polyclinic as well as inpatients patients with different General Pediatrics disorders that require a follow up.
- Overweight and Obesity Diagnostic Clinic
- Patients are continuously supervised with interactive educational sessions and investigations are done as needed.
- Nutritional Sessions arranged with dietician for Multidisciplinary Care Team.

**Teaching Responsibilities and contributions:**

**Undergraduate:**

- Phase III bedside clinical teaching
- Supervisor of Problem Base Cases in Phase III
- Coordinator of MSD Communication Skills Phase III Medical students
- Evaluation of Clinical Cases prepared by the students during the Pediatric rotation in the Hospitals.
- Student advisor Phase III Medical students during their hospital rotation.
- Mini-CEX: Phase III Medical students
- Medical Skills Labs Phase II
- Problem-Based Learning (PBL) Pediatric teaching to 6<sup>th</sup> Year Pediatrics students of M.B.B.Ch. program. Faculty of Medicine , Kuwait University
- MSD - Faculty of Medicine , Kuwait University. Coordinator of Psychology and Development Phase III Medical students
- Coordinator of the Clinical Tutors in Al Amiri Teaching Hospital, Year 6 Phase III Medical Students.
- Student Advisor for Phase I

**Postgraduate:**

- Postgraduate teaching during Unit A teaching rounds:
- Consists of bedside teaching of trainees, registrars and senior registrar during the clinical ward round with emphasis of the development of the six levels of critical thinking and communication skills.
- Supervision and clinical bed-side Teaching Round of Phase III medical students during Unit A rounds.
- Supervisor of the Departmental Pediatric Unit A Clinical Case presentation and other educational activities.
- “Unexplained fever in young children”. Ambulatory Care Course-Al-Amiri Hospital. Ministry of Health.

**Ministry of Health Activities:**

- Consultant in Pediatrics Unit A, at Al Amiri Hospital since 1992.
- Consultant in Pediatrics at Al Amiri Hospital Outpatient Clinic.
- Involved in supervising and following the Pediatrics patients in the outpatient clinic.

- Special Consultation and follow up to patients with Lipids Metabolic Abnormalities and Children with obesity and Special Needs.
- Consultation and follow up in the outpatient clinic to pediatric patients with parental history of Premature Cardiovascular Diseases in the Chest Hospital.
- Co-ordinator for Ambulatory Pediatric Care.
- Co-ordinator of the presentations of the Unit A Pediatrics Grand Rounds held at Al-Amiri Hospital.

### **Committee Membership:**

#### **Community Level:**

- Kuwait Medical Association
- Member of the Departmental Council – Department of Pediatrics –Al Amiri Hospital.
- Member of the Research Committee in Al Amiri Hospital.
- Member of the Clinical Guidelines Committee of the Pediatric Dept. and the Casualty in Al Amiri Hospital.

#### **For Faculty of Medicine, Kuwait University:**

- Judging Committee, the 25<sup>th</sup> HSC Poster Conference, Chairperson of the Clinical Science Judging Subcommittee, March 16-18, 2021.
- Member of the Staff Developmental Program Committee, Faculty of Medicine.
- Examination Invigilator Final Pediatrics Examinations of Phase III medical students.
- Examination Invigilator Final Pediatrics Examinations of Phase II Medical students.
- Member of the Accreditation Committee August 2017

#### **Missions:**

- Overcoming Online Assessment Challenges during COVID- 19 Pandemic: Arabian Gulf Experience, Webinar, June 29, 2020.
- Diabetes Management update on Guidelines with Focus on SGLT2-1, 1 Credit 1, Webinar, July 2<sup>nd</sup>, 2020.
- COVID-19 Updates and Lessons Learned, 2 CME, CPD, Online- July 15, 2020.
- International Paediatric Congress Virtual Series, 10 CPD, August 13-15, 2020.
- 3<sup>rd</sup> Annual Middle East Paediatric Medical Conference. Virtual Conference ,10 CPD,24-26 September 2020.
- Factor 6: Guidance through IPF Patients Journey- Virtual Summit, Kuwait Thoracic Society; Credit 1.3, November 28, 2020.
- 3<sup>rd</sup> Annual International Pediatric Forum Virtual Congress, 12 CPD, March 11-13, 2021.

### **Dr. Abdullah Farhan:**

#### **Teaching:**

Teaching Postgraduate Pediatric Pulmonology Residents and KIMS residents in ward rounds, outpatient clinics and pediatric pulmonology grand rounds various aspects of pediatrics pulmonology diseases.

Teaching 6<sup>th</sup> year Medical students didactic and bed side teaching.

**Examination:**

- Medical students (Phase 2 and 3)
- Examiner for KIMS Pediatrics Board Examination

**Services and diagnostics:**

- Consultant Pediatric Pulmonologist, Mubarak Al-Kabeer Hospital. Involved in inpatient and outpatient care.
- Head, Pulmonology Unit, Mubarak Al-Kabeer Hospital.
- Running Pulmonary Function Test Lab (PFT), Mubarak Al-Kabeer Hospital
- Member, Pediatric Department Council, Mubarak Al-Kabeer Hospital
- Pediatric pulmonology consults and medical boards in Adan & Amiri Hospitals.
- Pediatric pulmonology outpatient clinic in Ahmadi Hospital.
- Public school visits and education

**Advisory editor for professional journals:**

- Kuwait Medical Journal

**Dr. Entesar Husain:**

**Teaching**

**Undergraduate**

Teaching 6<sup>th</sup> year Medical students

**Abstracts/ Conference papers**

- Pediatrics for Medical Students: Comparing Results of Traditional Vs. COVID-19 Pandemic Teaching: **Husain EH**, Al-Awadi A., Al-Qabandi W. Presented at 25<sup>th</sup> HSC Poster Conference, 16-18 March 2021, Kuwait.
- Teaching Pediatrics During COVID-19 Pandemic: Student's Satisfaction Survey **Husain EH** & Al-Qabandi W. Presented at 25<sup>th</sup> HSC Poster Conference, 16-18 March 2021, Kuwait.

**Faculty Committees:**

- Coordinator of the Teaching Committee at the Department of Pediatrics
- Coordinator of the Examination Committee in the Department of Pediatrics
- Chairperson of Staff-Students Consultative Committee

**Dr. Waleed Al-Herz**

**Participation in Ministry/Government activities:**

**Teaching:**

- Chairman, Faculty of Clinical Immunology and Allergy  
Kuwait Institute for Medical specialization (KIMS)  
March 2011 – Present.
- Program Director, Clinical Immunology & Allergy Fellowship program  
Faculty of Clinical Immunology and Allergy

Kuwait Institute for Medical specialization (KIMS)  
March 2011 – Present

**Clinical Service:**

- Head, Allergy & Clinical Immunology Unit - Dept of Pediatric, Al-Sabah Hospital

**Advisory Editor Services for Professional Journals:**

- Associate Editor  
Frontiers in Immunology
- Editorial Board  
Journal of Clinical Immunology  
Immunology and Genetics Journal
- Reviewer  
Annals of Allergy Asthma and Clinical Immunology  
Clinical Immunology  
Journal of Clinical Immunology  
BMC Research Notes  
Iranian Journal of Pediatrics  
Journal of Allergy and Clinical Immunology  
Pediatrics  
Pediatrics Pulmonary  
Pediatrics Allergy and Immunology  
Medical Principle and Practice

**Contribution to committees in the FOM**

- Accreditation Committee
- Design team for the Faculty of Medicine, Sabah Al-Salem University City, Kuwait University Construction Program September 2018 – Present
- Secondment Committee for Faculty of Medicine

**Contribution to committees outside FOM**

- National Vaccination Committee, Ministry of Health, Kuwait
- International Union of Immunological Societies, Primary Immunodeficiency Diseases Committee
- Vice President, Kuwait Society of Allergy and Clinical Immunology
- Member, World Allergy Organization Primary Immunodeficiency Committee

**Dr. Dalia Al-Abdulrazzaq**

**Participation in Ministry/Government activities**

- Teaching
- KIMS Pediatrics Board Academic half day lecture on growth
- Service Diagnostic

**Advisory editor services for professional journals**

- Pediatric Diabetes Journal
- BMJ Open Diabetes Research and Care

### **Contribution to committees in the Faculty of Medicine**

- Office of Student Guidance and Counseling – Director
- Chairperson – Examination Committee – Department of Pediatrics

### **Contribution to committees outside the Faculty:**

- MOH committee on Adolescent care

## **Dr. Maysoun Al-Rushood:**

### **Participation in Ministry of Health services:**

#### **Teaching:**

Kuwait Board of Pediatrics (KIMS): clinical tutor/invited examiner  
Presented lectures to the pediatric department at the hospital 1-2/year:  
(Myths and Facts in Allergy and Immunology (2020))

### **Service Diagnostic/clinical:**

- Pediatric Allergist and Clinical Immunologist in Mubarak AL Kabir Hospital
- Inpatient consultations (Wards and PICU).
- Pediatric Allergy and clinical immunology outpatient clinic service (outpatient consultation services).
- Diagnosis and Management of various immunodeficiency disorders and allergic diseases.
- Involved in the Medical Boards

### **Undergraduate Medical students Teaching:**

#### **Phase III (6<sup>th</sup> year)**

- Bedside Teaching
- PBL facilitator
- MSD co-organizer (GI MSD)
- E-tutorials
- Co-ordinator of pediatric orientation day: History taking for clinicians.
- Exam questions preparation and invigilation

#### **Phase II:**

- Infection and Immunity module PBL facilitator

### **Postgraduate Teaching:**

- Kuwait Pediatric Board (KIMS): Clinical tutor and invited examiner

### **Membership of Professional Societies:**

- Kuwait Medical Association: member
- The Kuwait University Faculty Association (KUFA)
- American Academy of Pediatrics: Fellow
- American Academy of Allergy, Asthma and Immunology (AAAAI): member
- European Academy of Allergy and Clinical Immunology (EAACI): member

### **Service as a Reviewer:**

Invited Reviewer to the following Journals:

- Cytokine
- Annals of Allergy, Asthma & Immunology

- BMC Pediatrics
- BMC Medical Education
- Teaching and Learning in Medicine
- Dubai Medical Journal

### **Participation in conferences and posters:**

#### **Presentations:**

- **Maysoun Al Rushood**, W. Al-Qabandi, A. Al Fadhli, S. Atyani, A. Hussain, A. Al Abdulgafoor. Children with delayed-type Cow's Milk Protein Allergy reactions may be at significant risk of developing severe immediate reactions upon reintroduction. European Academy of Allergy and Clinical Immunology Food Allergy and Anaphylaxis meeting (FAAM-EUROBAT), Oct 16-17, 2020. Athens, Greece. (digital due to COVID-19 pandemic)
- **Maysoun Al Rushood**, Amal AL-Eisa, MZ Haider. Interleukin-4 and Interleukin-13 Gene Polymorphisms in Children with Idiopathic Nephrotic Syndrome. European Academy of Allergy and Clinical Immunology (EAACI) Annual Meeting: EAACI Congress, 6<sup>th</sup> -8<sup>th</sup> June 2020, London, UK. (went digital due to COVID-19 pandemic)
- Pediatric Academic Societies Meeting (PAS 2020) 19<sup>th</sup> April-6<sup>th</sup> May, Philadelphia, USA, Abstract reviewer (**reviewed a total of 35 abstracts**).

#### **Conference Scientific Committee member:**

- **Growth and Wellness in Pediatrics April 2020** (Cancelled due to COVID-19 Pandemic)

#### **Attendance (virtual due to Covid-19 pandemic):**

- Updates in asthma, KSACI Nov/2020, Kuwait
- Updates in skin allergy and biologics, KSACI Feb/2021, Kuwait
- Updates in respiratory allergies, KSACI Apr/2021, Kuwait
- International Severe Asthma Forum, EAACI April/2021

#### **Contribution to Committees in The Faculty of Medicine:**

The following committees in the department of Pediatrics:

- Staff-Student Co-ordination Faculty Committee: member (2019-2020)

#### **Contribution to Committees outside the Faculty of Medicine:**

Member of the following committees in Mubarak Al-Kabir Hospital

- Antibiotic Policy Review Committee

### **Dr. Mohammad Ebrahim:**

#### **Participation in Ministry of Health activities**

Seconded to Department of Pediatrics, Chest Disease Hospital. The following services are provided:

- Consultant and Head of the Pediatric Electrophysiology Unit.
- Evaluate admitted patients and patients in outpatient clinics, and receives consultations on patients with various arrhythmias including adults with congenital heart disease and pacemakers
- Accepts Consultations throughout Kuwait

- Electrophysiology Lab - Pacemaker and ICD implantations, and arrhythmias ablations (including adult congenital patients).
- Head of Pediatric Stress Lab

**Teaching:**

**Undergraduate:**

- Phase-III: PBL-Facilitator in “Pediatrics” (6<sup>th</sup> Year Medical students).
- Phase II: PBL-Facilitator in “CVS” module (3<sup>rd</sup> Year Medical students)
- In hospital teaching for 6<sup>th</sup> year Medical students.

**Postgraduate:**

- Teaching ECG sessions for KIMS Pediatric residents.
- Teaching pediatric cardiology physicians at Chest Disease Hospital including online sessions and conferences. Content often recorded and posted in our YouTubechannel.

**Participation in conferences (Online):**

- Biosense Webster Educational Courses
- Medtronic Educational Courses
- Asia Pacific HRS
- Latin America HRS
- Virtual VT
- Johnson & Johnson institute – Mastery of complex Arrhythmias: Workshop for Electrophysiologist
- Virtual Electrophysiology Fellows Summit

**Contribution to committees outside the Faculty:**

- Chest Disease Hospital Safety and Risk Management Committee.

**Dr. Dana Marafi:**

**Teaching:**

**Undergraduate:**

- Graduate: Teaching General Pediatrics to Kuwait University 6th year Medical student at Adan Hospital (January 2021-June 2021)

**Postgraduate:**

- Postgraduate: Examiner at MOCK OSCE examination for KIMS Pediatric Residency Program (2021)

**Participation in conferences (Online):**

- American Society of Human Genetics(ASHG) annual conference (October 2020):  
Attendees and an invited moderator for a session on October 30th, 2020 titled “Matchmaking and Mechanisms in Mendelian Disorders”

**Invited international talks:**

- January 17th, 2021, Turkey (Yozgat Bozok University Medical Faculty)

Using large scale family-based genomic analysis for gene discovery in developmental and epileptic encephalopathy

**Dr. Hind Al-Sharhan**

**Participation in Ministry of Health activities**

- Specialist of Genetics and Metabolism, Farwaniya Hospital, Ministry of Health, Kuwait.
- Weekly clinic, every Thursday
- Twice weekly in-service consults
- Twice weekly student teaching at Farwaniya hospital
- Specialist of Genetics and Metabolism, Kuwait Medical Genetics Center, Ministry of Health, Kuwait.
- Weekly clinic, every Sunday

**Advisory Editor Services for Professional Journals:**

**Editorial Positions:**

- 2020- present: Reviewer: International Journal of Newborn Screening, MDPI.
- 2020- present: Reviewer: Children, MDPI
- 2020- present: Reviewer: Journal of Personalized Medicine, MDPI.
- 2020- present: Reviewer: European Journal of Medical Genetics
- 2020- present: Reviewer: Frontiers Journal
- 2020- present: Reviewer: Clinical Chemistry Journal
- 2020- present: Reviewer: American Journal Medical Genetics – Part A
- 2020- present: Reviewer: SN Comprehensive Clinical Medicine Journal

**Active participation in conferences and posters**

**Conferences:**

- Feb. 2021: 17th Annual WORLD Symposium 2021 Virtual.
- Feb. 2021: Diagnostics and Treatment Landscape of Alpha-Mannosidosis in the Region Expert Meeting – Virtual.
- Dec. 2020: SSIEM Virtual Symposium Day
- Dec. 2020: Newborn Screening Virtual Summit 2020

**Posters:**

- 03/2021: Rare Disease Day at NIH 2021 Meeting “Expanding the Phenotype, Genotype and Biochemical Knowledge of ALG3-CDG”.

**CONCLUSIONS :**

The Department of Pediatrics continues to work hard towards achieving its objectives, especially of comprehensive innovations in medical education and assessment. Research output continues to be flourishing and innovative. The department’s involvement in providing excellent services to the community remains outstanding. We continue to have faith that our department should grow as a leading Pediatric department in the region.



## **PATHOLOGY**

## INTRODUCTION

The department of Pathology provides the bridge between basic medical science and the clinical sciences. As the custodian of the scientific basis of modern medicine the department guides students of medicine, dentistry, pharmacy and allied health professions to an understanding of the scientific basis of health and disease. The department strives to stimulate students' curiosity and imagination, and challenges them to contribute to the advancement of knowledge in clinical, translational and basic scientific research relevant to medicine.

The staff of the department comprise highly qualified, very experienced staff who are dedicated to the advancement of teaching, clinical practice and research that should enhance the practice of medicine in Kuwait.

### a) **Objectives of the department program**

Mission:

1. To lay a strong scientific and translational foundation on which sound clinical judgment and management can be built.
2. To lead education and clinical services through innovation and scientific discovery.
3. To stimulate our students to undertake research and be life-long learners.

The broad objectives of the department are to:

- Support and lead scientific research at Faculty of Medicine through provision of scientific expertise and clinical laboratory support to the scientific efforts at the Faculty of Medicine.
- Provide the highest quality education, training and research experience for medical students, graduate students, and resident doctors..
- Develop and support modern educational programmes for medical students, graduate students, and resident doctors laboratory physicians and clinicians
- Attain National, Regional and International recognition by providing full and comprehensive range of educational, clinical and laboratory services.

### b) **Obstacles to meeting these objectives**

1. Staff shortage: The clinical Biochemistry Unit currently has only one academic staff member resulting in strain on delivery of educational and clinical services.
2. Insufficient technical staff: There are currently only five technical staff serving 6 units within the department.
3. Poor salary for technical staff: This is probably related to (2) above as it is difficult to attract qualified personnel with the current levels of remuneration for technical staff.
4. Insufficient laboratory space: This is hampering delivery of high quality of research and laboratory services.

### c) **Current developments**

The department is tackling some of the issues that are problematic with achieving the goals of the department. One of these issues is Laboratory space. As the department does not have enough laboratories, it is important that the laboratories function as one research/teaching unit and conversion of the laboratories into shared facilities is the way to resolve the problem. The department's laboratories now operate as one unit of shared facilities with a laboratory director who is currently Professor Olusegun Mojiminiyi. The shared laboratories director is responsible for making sure that all specialist laboratories in the department run according to the standards of Good Laboratory Practice (GLP). Available methods and expertise are the responsibilities of the academic staff and heads of specialty units.

The laboratories are organized into specialties as follows:

- 1) Clinical Biochemistry Shared Facilities Laboratories
- 2) Cytopathology Shared Facilities Laboratories
- 3) Haematology Shared Facilities Laboratories
- 4) Human Genetics Shared Facilities Laboratories
- 5) Histopathology Shared Facilities Laboratories
- 6) Molecular Medicine Shared Facilities Laboratories

Laboratory equipment are now (re)located into the appropriate specialty shared facilities laboratories for easy access to all academic staff and graduate students. The Laboratories are being prepared for national and International accreditation. Easily accessible Standard Operating Procedures (SOPs) have been/are being written and graduate students and/or technicians who use the equipment are being trained. All technicians are being trained to use each of the equipment available in the department regardless of the area of main expertise. Arrangements have also been completed for technicians to be trained in various techniques available in the Research Core Facility (RCF).

The department is planning to expand its research base through the recruitment of suitably qualified post-doctoral fellows as well as graduate students.

## **MANPOWER**

### **Faculty Members**

#### **Acting Chairman [March 2020 - ]**

Dr. Issam M. Francis, BMBCh, M.I.A.C., F.R.C.Path.  
[Histopathology] – **Associate Professor**

#### **Professors**

Dr. Abdullatif A. Al-Bader B.Sc., M.Sc., Ph.D  
[Cellular Pathology]

Dr. Fahd R. Al-Mulla, B.Sc., BMBCh., Ph.D.,FRCP(Edin)  
[Non-Clinical, Molecular/Histopathology] [Leave of Absence]

Dr. Kusum Kapila, MBBS, MD, FIAC, FRCPPath, FAMS, FICPath  
[Cytopathology]

### **Associate Professors**

Dr. Mohamed A. Elfawal, MBBCh, MSc, PhD

[Forensic Pathology]

Dr. Rajaa A.R. Marouf, BMBCh, D.C.P., FRCPath

[Haematology]

Dr. Rola Ali, MD, FRCPC

[Histopathology]

Dr. Salah A.Y. Al-Humood, BMBCh, FRCP(C)

[Haematology] [Sabbatical Leave]

Dr. Suad M. Abdeen, BMBCh, D.C.P., M.Sc., D.I.C., FRCPath.

[Histopathology]

### **Assistant Professors**

Dr. Abeer Al-Abdallah BSc, MSc, PhD

[Histopathology] [Sabbatical Leave]

Dr. Ahmad Al-Serri, B.Sc, M.Res., PhD

[Molecular Pathology]

Dr. Bushra Y.A.H. Al-Ayadhy, BMBCh, D.C.P., PhD

[Non-Clinical, Molecular Pathology]

Dr. Dalal Abdullah Al-Mutairi B.Sc, M.Sc., PhD

[Molecular Pathology]

Dr. Dalal Mulla Ali, MB BCh, BAO, LRCPSI, FRCPC

[Haematology]

Dr. Lama A.M.I. Al-Faris, MBChB, FRCPath.

[Haematology]

Dr. Maamoun Al-Aynati, BMBCh, FRCP(C), FCAP

[Histopathology]

Dr. Rabeah Al-Temaimi, B.Sc, M.Sc., PhD

[Molecular Pathology]

Dr. Salah K. Al-Waheeb, BMBCh, FRCP(C), DABPath, FRCPath, EBPath

[Histopathology]

### **Teaching Assistants:**

Ms. Altaf A.Y. Hasan, B.Sc, M.Sc.

Ms. Fatemah Al-Husaini B.Sc., M.Sc

### **Lab Physician:**

Nil

### **Clinical tutors (Seconded from Ministry of Health/Interior)**

Dr. Amal Sulieman Khamis, B.M.B.Ch., FRCPath

[Haematology]

Dr. Hanan Al-Awadhy, BM BCh, FRCP(C)

[Haematology]

Dr. Hanan Al-Wazzan, MBChB, FRCPath

[Haematology]

Dr. Najat Rouh Aldeen

[Haematology]

Dr. Ramesh Pandita, MBBS, MD

[Haematology]

Dr. Reem Fouad Al Salem  
[Haematology]  
Dr. Samia Abdel Salam  
[Haematology]  
Dr. Anwar Al-Anjery MBBCH  
[Clinical Biochemistry]  
Dr. Fatma Safar  
[Clinical Biochemistry]  
Dr. Girish Kumar Yadav, MBBS, FRCPath.  
[Clinical Biochemistry]  
Dr. Aysha Al-Jassar, M.B.Ch.B, D.A.B.Path  
[Histopathology]  
Dr. Bahiya Ibrahim Haji, MBBCh, MSc.  
[Cytopathology]  
Dr. Nabeel Al-Brahim, BM BCh, FRCP(C), FCAP  
[Histopathology]  
Dr. Rana Abdulghani  
[Histopathology]  
Dr. Sundus Hussein  
[Histopathology]  
Dr. Ahmad Al\_Taleb  
[Histopathology]  
Dr. Smiley George  
[Histopathology]

**Visiting Professors and external examiners:**

Nil

**M.Sc students:**

1. Beshayer Al-Shammari
2. Hussah Al-Janahi
3. Nada Al-Moualem

**Ph.D Student:**

1. Hana Drobiova

**SUPPORT STAFF**

**Scientific/Research Assistants:**

Scientific Assitants:

Mr. Waleed K. Al-Ali, B.Sc (MLS)

[Molecular Pathology]

Ms. Hadeel Mohamed Fawaz Elmuzaini, B.Sc., M.Sc

[Haematology]

Ms. Sara Shirly George, B.Sc., M.Sc., Ph.D

[Cytopathology]

Ms. Sunila George, B.Sc., M.Sc.,PhD

[Clinical Chemistry]

### **Technicians**

Ms. Rasha Abdullah Najem Abdullah, B.Sc. (MLS)  
[Chief Technician]

Ms. Sicy Esow, B.Sc.,MLT  
[Haematology]

Ms. Bency John, B.Sc.,M.Sc.  
[Histopathology]

Ms. Jeena Prasanth, B.Sc, M.Sc  
[Histopathology]

Ms. Hawraa Adel Mohammad B.Sc  
[Clinical Chemistry] [Resigned]

Ms. Sheela Harish Chandran , B.Sc. [Resigned]

Ms. Rani Devasia Puthucherry, B.Sc, MCA.

### **Others:**

Nil

### **Student help:**

Nil

### **STAFFING CHANGES:**

#### Appointment :

1. New staff appointed

Nil

#### Non- Acadmic

Nil

2. Promotion:

Nil

3. Resignation:

#### Academic

Nil

#### Non-Academic

1. Ms. Hawraa Adel Mohammad B.Sc  
[Laboratory Technician - Clinical Chemistry Unit]

2. Ms. Sheela Harish Chandran , B.Sc  
[Secretary]

4. Sabbatical

Prof. Fahd Al-Mulla [ Scientific academic leave]

### **TEACHING IN THE DEPARTMENT PROGRAM**

Faculty of Medicine

a. **Phase II (2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup>) teaching:**

Lectures : 112  
Tutorial : 20  
Practical : 80

Total hours given to  
Students per year : 209

No. of Students : 149- 2<sup>nd</sup>: 142- 3<sup>rd</sup>: 141- 4<sup>th</sup>:

Overall Coordinator : Dr. Rola Ali

b. **Phase III (5<sup>th</sup>, 6<sup>th</sup> & 7<sup>th</sup>):**

Total hours given to  
Students per year : 58

Course Coordinator : Dr. Issam Francis

c. **Graduate Teaching (M.Sc)**

Lectures : 30 hours  
Practicals : 30 hours

Total teaching hours per year: 60 hours

Program Director : Dr. Salah Al-Humood

Course Coordinators:

Recent Advances in Related

Research Topics 516 : Thesis Supervisor

Thesis Supervision : Dr. Abeer El Abdallah  
Dr. Rabeah Al-Temaimi  
Dr. Ahmad Al-Serri

Co-Supervisor : Prof. Kusum Kapila

d. **Postgraduate teaching (PhD):**

Program Director	:	Dr. Salah Al-Humood
Thesis Supervision	:	Prof. Fahad Al-Mulla
Co-Supervisor	:	Dr. Rabeah Al-Temaimi

e. **Postgraduate teaching (FRCPath)**

<b>Training Units</b>	<b>Seminars/tutorials</b>	<b>Practicals/bedside teaching</b>
Histopathology	200 hrs/year	800 hrs/year
Clinical Chemistry	200 „	800 „
Haematology	200 „	800 „

H

heads of Training Unit:

Dr. Rajaa Marouf : Haematology

II. Other Faculties

**Faculty of Pharmacy:**

Lectures : 17 hours

Tutorials : 0

Practicals : 0 hours

Total teaching hours per year : 17 hours

No. of students : 55

Course :

1. Pathophysiology 331 : 8 Dr. Abeer Abdullah

2. Pathophysiology 332 : 9 Dr. Abeer Abdullah

II. Student Advisors

<b>Student Advisors</b>	<b>No. of Students</b>
Dr. K. Kapila	5
Dr. Issam Francis	5
Dr. Bushra Al-Ayadhy	5
Dr. Rajaa Marouf	5



Dr. Salah Al-Humood	5
Dr. Suad Abdeen	5

## RESEARCH AND PUBLICATIONS

### 1. Research

#### Funded

#### Dr. Abdullatif A. Al-Bader

Title : Role of Carnitine and Amino-Acids in the Etiopathogenesis of Type I Diabetes in the experimental NOD Mouse Model  
 Funding : Kuwait University Research - RM02/15  
 Status : On-going  
 P.I : Dr. Abdullatif A. Al-Bader  
 CoI : Dr. Chacko Mathew, Dr. Majda Sabri Hammoud, Dr. Kamal Mohammed Al-Taiar  
 Contributors: Dr. Gianfranco Bottazzo, Dr. Suad Abdeen, Mr. Sunny Ojoko, Mr. Hossein Arefanian

#### Dr. Kusum Kapila

Title : Micro-RNA-146b-5p modulation of the cellular stress response in papillary thyroid cancer.  
 Funding : YM 03/18  
 Status : Completed  
 P.I : Dr. Abeer Al-Abdullah  
 CoI : Dr. Kusum Kapila

#### Dr. Rajaa Marouf

Title : Biomarkers of Sickle Cell Nephropathy in Kuwait  
 Funding: Funded (MG 01/16)  
 Status : Completed  
 P.I : Dr. Rajaa Marouf  
 Co-I : Prof. O.A. Mojiminiyi, Prof. Adekunle D. Adekile, Hadeel El-Muzaini, Rasha Abdullah

Title : Determination of vWF and ADAMTS-13 antigen and activity levels in patients with venous thromboembolism, and relating that to the presence of factor V Leiden mutation.  
 Funding: Submitted for funding (NM02/16)  
 Status : Completed  
 P.I : Dr. Anwar Al Awadhi  
 Co-I : Dr. Rajaa Marouf, Mehrez Jadaon, Dr. Mohammad Al-Awadhi

#### Dr. Salah Al-Waheeb

Title : Patterns of Unnatural deaths in Kuwait

Funding: Funded research, grant no MG01/17  
Status : Completed  
P.I : Salah Al-Waheeb  
Co-I : Dr. Nadia Al-Kanderi, Dr Noura Al-Omair, Dr Assad Mahdi

### **Dr. Rabeah Al-Temaimi**

**Title** : Identification and characterization of rkip network in breast cancer metastasis: a focus on metalloproteinases

Funding: Kuwait Foundation for the Advancement of Sciences

Status : On hold

P.I : Fahd Al-Mulla

Co-I : Rabeah Al-Temaimi, Kim Yeung

Duration: 2018-2021

**Title** : MicroRNA biomarker investigation in multiple sclerosis patients from Kuwait

Funding: Kuwait University

Status : Ongoing

P.I : Rabeah Al-Temaimi

Co-I : Raed Alroughani

Duration: 2020 - 2022

**Title** : Assessment of fitness indicators in the elderly Kuwaiti population

Funding: Kuwait Foundation for the Advancement of Sciences

P.I : Rabeah Al-Temaimi

Co-I : Younis Salmean, Fawaz AlMansour

Duration: 2021 – 2023

**Title** : Analysis of Multiple Sclerosis microRNA biomarkers in a Kuwaiti cohort

Funding: College of Graduate Studies

Supervisor: Rabeah Al-Temaimi

MSc student: Nashmeiah Al-Shammeri

Duration: 2021 - 2022

### **Dr. Ahmad Al-Serri**

**Title** : Establishing and assessing a genetic risk score for obesity in the Kuwaiti population

Funding: College of Graduate Studies

Status : Ongoing

Supervisor: Ahmad Al-Serri

MSc student: Hessah Al-Janahi

**Title** : Assessing obesity related genetic variants previously discovered from genome-wide association studies on the Kuwaiti population.

Funding: College of Graduate Studies

Status : Ongoing

Supervisor: Ahmad Al-Serri

MSc student: Elaf Al-Tuwaitan

### **Dr Abeer Al-Abdallah**

Title : Function of miR-7-5p and miR-146b-5p in thyroid carcinogenesis.

Funded : Kuwait university, research sector, grant # MG04/19.

Status : Ongoing, started April 2021.

P.I : Dr Abeer Al-Abdallah.

Co-I : Dr Issam Francis

Title : Immune modulation by miR-146b-5p in papillary thyroid cancer.

Funded: Kuwait Foundation for Advancement of Sciences, grant # PN2013MI02.

Status: Approved, Starting date June 2021.

P.I : Dr Abeer Al-Abdallah.

Co-I : Prof. Maie Al-Bader

### **Graduate studies Research project (MSc):**

Title : Placental growth factor expression and role in papillary thyroid cancer.

Status : Approved and funded by college of graduate studies.

Supervisor: Dr Abeer Al-Abdallah

Co-Supervisor: Prof. Maie Al-Bader

MSc Student: Nada Al-Mouallem

Title : Micro-RNA-146b-5p modulation of the cellular stress response in papillary thyroid cancer.

Funded: College of Graduate Studies and Kuwait university research sector, grant # YM 03/18.

Status : Thesis completed and submitted to the college of graduate studies for review and graduation.

Supervisor: Dr Abeer Al-Abdallah

Co-supervisor: Prof Kusum Kapila

MSc Student : Beshayer Al-Shammari

### **Dr. Dalal Al-Mutairi**

Title : Studying the genetics of congenital thoracic anomalies in consanguineous Kuwaiti families caused by cilia dysfunction

Funding: Funded

Status : Completed

P.I : Dr. Dalal Al-Mutairi

Co-I : Dr. Basel Al-Sabah, Dr. Bushar Al-Khaldi

### **Un-Funded**

#### **Dr. Kusum Kapila**

Title : Endoscopic ultrasound guided fine needle aspiration cytology of Pancreatic Adenocarcinoma

Funding : Unfunded

Status : Completed

Principal Investigator

Title : The applicability of Papanicolaou Society of Cytopathology system on reporting endoscopic ultrasound-guided fine needle aspiration cytology specimens of pancreatic lesions in situations with limited availability of ancillary tests. Experience at a single laboratory.

Funding : Unfunded

Status : Completed

Principal Investigator

Title : Cytohistological correlation of thyroid aspirates with a morphological diagnosis of Follicular Lesion of Undertermined Significance and Suspicious for follicular neoplasm or papillary carcinoma.

Funding : Unfunded

Status : Ongoing

Principal Investigator

Title : Pericardial fluid cytology: Diagnostic problems

Funding : Unfunded

Status : Ongoing

Principal Investigator

Title : Metastatic carcinomas to thyroid- A ten years review at Kuwait Cancer Center.

Funding : Unfunded

Status : Ongoing

Principal Investigator

Title : The significance of CK-19 staining in lymphocytic thyroiditis

Funding : Unfunded

Status : Ongoing

Principal Investigator

Title : Correlation of Bethesda System Categories of fine needle aspiration cytology with nodule location: Kuwait Cancer Centre Experience.

Funding : Unfunded

Status : Ongoing

Principal Investigator

Title : Morphological patterns seen in Gastrointestinal stromal tumors – Mubarak Al-Kabeer experience..

Funding : Unfunded

Status : Ongoing

Principal Investigator

### **Dr. Rajaa Marouf**

Title : Association of Factor V Leiden and Prothrombin Mutation with VTE in Kuwait.

Funding: Unfunded

Status : Ongoing

Start date: 2021

P.I : Dr. Rajaa Marouf

### **Dr. Mohammad Elfawal**

Title: Systemic Review and Meta-Analysis of Hyoid Bone Fracture Among Manual Strangulation and Hanging Fatalities.

Funding: Unfunded

Status: Ongoing

P.I: M A Elfawal

Co-I: Amirah Al Azmy

Title: Significance of the Victim/assailant Relationship in Sexual Assault Examination.

Funding: Unfunded

Status: Ongoing

P.I: M A Elfawal

Co-I: Dina Badran

Title: Pattern of Firearm fatalities in Kuwait

Funding: Unfunded

Status: Completed

P.I: M A Elfawal

Co-I: Noura Al Omair

## **2. Publications**

### **Dr. Kusum Kapila**

1. Sharfudeen S, Amir T, Eskaf W, Ghanem ME, Al Jassar A, **Kapila K**. Hurthle cell adenoma with micro-papillary carcinoma and parathyroid adenoma in a transplant recipient with graft failure: a case report. *GJO* 2020; 32:66-70.
2. **Kapila K**, Balakrishnan M, Ali RH, Al-Juwaiser A, George SS, Mallik MK. Atypical squamous cells of undermined significance (ASC-US): A diagnosis misinterpreted in cervical cytology and its association with human papilloma virus – one year experience in Kuwait. *Sultan Qaboos Univ Med J*. 2020; 20(4):e318-323.
3. Mallik MK, **Kapila K**, Mohanty A, Inamdar SA, Al Ali A, Al-Nasser A. Endoscopic ultrasound guided fine needle aspiration cytology of pancreatic adenocarcinoma revisited. A detailed cytological analysis. *J Cytol*. 2021; 38:31-37.

### **Dr. Issam Francis**

- S. George, I. Francis. PYOGENIC GRANULOMA- LIKE KAPOSII SARCOMA: A DIAGNOSIS EASILY MISSED. Accepted in *Annals of Pathology And Laboratory Medicine (APALM)*, 2021.

### **Dr. Rajaa Marouf**

1. Marouf R, Adekile AD, El-Muzaini H, Abdulla R, Mojiminiyi OA. Neutrophil gelatinase-associated lipocalin as a biomarker of nephropathy in sickle cell disease. *Ann Hematol* 2021;100:1401–1409. <https://doi.org/10.1007/s00277-021-04500-4>.
2. Al-Awadhi A, Adekile A, **Marouf R**: Relationship of Thrombospondin 1 to von Willebrand Factor and ADAMTS-13 in Sickle Cell Disease Patients of Arab Ethnicity. *ActaHaematol* 2021;144:182–189. <https://doi.org/10.1159/000508521>.

- Adekile AD, Al-Sherida S, Marouf R, Mustafa N, Thomas D. The Sub-Phenotypes of Sickle Cell Disease in Kuwait. *Hemoglobin* 2019;43(2):83-87.

#### **Dr. Rola Ali**

- Kapila K, Balakrishnan M, **Ali RH**, Al-Juwaiser A, George SS, Mallik MK. Interpreting a Diagnosis of Atypical Squamous Cells of Undetermined Significance in Cervical Cytology and its Association with Human Papillomavirus: A retrospective analysis of 180 cases in Kuwait. *Sultan Qaboos Univ Med J*. 2020 Nov;20(4):e318-e323. doi: 10.18295/squmj.2020.20.04.007.
- Schaumberg AJ, Juarez-Nicanor WC, Choudhury SJ, Pastroián LG, Pritt BS, Prieto Pozuelo M, Sotillo Sánchez R, Ho K, Zahra N, Sener BD, Yip S, Xu B, Annavarapu SR, Morini A, Jones KA, Rosado-Orozco K, Mukhopadhyay S, Miguel C, Yang H, Rosen Y, **Ali RH**, et al. Interpretable multimodal deep learning for real-time pan-tissue pan-disease pathology search on social media. *Mod Pathol*. 2020 May 28. doi: 10.1038/s41379-020-0540-1.

#### **Dr. Rabeah Al-Temaimi**

- Albatineh AN, Alroughani R, **Al-Temaimi R**. Predictors of multiple sclerosis severity score among multiple sclerosis patients. *International Journal of MS Care*. 2020. Doi: 10.7224/1537-2073.2019-054
- Dashti M, Ateyah K, Alroughani R, **Al-Temaimi R**. Replication analysis of variants associated with Multiple Sclerosis risk. *Scientific Reports*. 2020 Apr 30;10(1):7327. PMID: 32355262

#### **Dr. Ahmad Al-Serri**

- Al-Youha, S. A., Alduaij, W., **Al-Serri, A.**, Almazeedi, S. M., Al-Haddad, M., Jamal, M. H., Shih, A. W., & Al-Sabah, S. K. (2021). The impact of ABO blood groups on clinical outcomes and susceptibility to COVID-19: A retrospective study in an unselected population. *Transfusion*, 61(5), 1631–1641. <https://doi.org/10.1111/trf.16365>
- Ahmad Al-Serri**, Suzanne A. Al-Bustan, Salman K. Al-Sabah, Babitha G. Annice, Majed A. Alnaqeeb, Olusegun A. Mojiminiyi. (2021). Association between the lipoprotein lipase rs1534649 gene polymorphism in intron one with Body Mass Index and High Density Lipoprotein-Cholesterol. *Saudi Journal of Biological Sciences*.

### **3. Contributions:**

#### **a. Participation in Ministry/Government activities**

#### **Dr. Abdullatif Al-Bader**

- Founder member, Bayt Abdullah Children's Hospice
- Executive Committee member, Kuwait Heart Foundation

### **Dr. Kusum Kapila**

- Consultant Cytopathologist, Mubarak Al-Kabeer Hospital
- Head of Cytopathology Laboratory, Mubarak Al-Kabeer Hospital.
- Consultant Cytopathologist, Hussain Makki Al-Juma Center for Specialized Surgery (HMJCSS)
- Member, Laboratory Council, Mubarak Al-Kabeer Hospital.
- Member of the Postgraduate Education Committee of the Faculty of Anatomic Pathology and Cytopathology, KIMS.
- Site Coordinator for Cytology, KIMS Program, Faculty of Anatomic Pathology and Cytopathology, KIMS
- Member, Group of Pathologists, Kuwait

### **Dr. Issam Francis**

- Head of Histopathology Unit, Mubarak Al Kabeer Hospital.
- Consultant Histopathology.
- Kuwait Institute for Medical Specialization (KIMS)
- Tutor, Pathology Residency Program
- **CME Activity:**
- KIMS, CEPD: Read and Test Online Quiz Program 2020
- KIMS, CEPD: Read and Test Online Quiz Program 2021

### **Dr. Rajaa Marouf**

- Head of Hematology Unit, Mubarak Al Kabeer Hospital
- Member of Laboratory Council Committee, Medical Laboratories, Mubarak Al Kabeer Hospital (2006-Date).
- Board member of Kuwait Hematology Board and Promotion Committee.
- Participant in the training program that is run by the ministry for technical staff.

### **Dr. Mohammad ElFawal**

- Providing continuous medico-legal consultations at the Department of Forensic Medicine, General Department of Criminal Investigations, Ministry of Interior, Farwaniya, including the routine autopsy of sudden and violent deaths, clinical forensic cases, and reviewing of medico-legal reports.

### **Dr. Rola Ali**

- Secondment to the Pathology Laboratory at Mubarak Al-Kabeer Hospital
- Providing official consultations to any hospital requiring a second opinion in the field of sarcoma diagnosis
- Faculty of Postgraduate Residency Program for Anatomic Pathology, Kuwait Institute for Medical Specialization (KIMS)

### **Dr. Rabeah Al-Temaimi**

- Mubarak Hospital histopathology laboratory molecular pathology service

### **Dr. Dalal Al-Mutairi**

- Seconded at Zain Hospital

## **b. Offices held in Professional Organizations**

### **Dr. Kusum Kapila**

- Member of Executive Council, International Academy of Cytologists 2010-2016 and 2016 – 2019.
- Member, Committee of Continuing Education and Quality Assurance of the International Academy of Cytology
- Editor, Newsletter, International Academy of Cytology
- Member of the International Academy of Cytology Membership Committee 2016-2019.
- Fellow, Royal College of Pathologists (UK)
- Fellow, International Academy of Cytologists
- Fellow, National Academy of Medical Sciences
- Member, American Society of Cytopathology
- Member, British Society for Clinical Cytology
- Member, Kuwait Medical Association
- Life Member, Indian Academy of Cytologists
- Life Member, Indian Society of Oncology
- Life Member, Indian Association of Pathologists and Microbiologists.
- Permanent member of National Advisory Council of the National Health and Family Welfare Foundation.

### **Dr. Issam Francis**

#### **Arab Board of Medical Specialization:**

- Chairman, Examination Committee, Arab Board of Pathology
- Member, Evaluation and Standardization Committee
- Co-ordinator of RitePath Examination board
- Co-ordinator of the Online Interactive Pathology Quiz Program

### **Dr. Mohammad ElFawal**

- Founder and Executive Member of the Directory Board of the Middle East and North Africa Forensic Network, Kuwait, March 2018.
- Member of the Scientific Committee, International Academy of Legal Medicine.
- Fellow of Faculty of Forensic and Legal Medicine, Royal Society of Medicine, London, UK.
- Member of the International Association of Coroners and Medical Examiners, U.S.A.

### **Dr. Rabeah Al-Temaimi**

- The American Society of Human Genetics (ASHG) - Member
- European Society of Human Genetics (ESHG) - Member
- American College of Medical Genetics and Genomics - Affiliated Scientist Member

#### **c. Advisory editor services for Professional journals**



### **Dr. Kusum Kapila**

- Associate Editor of Acta Cytologica
- Member, Editorial Advisory Board of Cytopathology (Official Journal of British Society for Clinical Cytology)
- Editorial Review Board, Cancer Cytopathology
- Editorial Board of Cytojournal
- Editorial Board of Journal of Cytology
- Editorial Board of Diagnostic Cytopathology
- Member, International Advisory Board of Sultan Qaboos University Medical Journal, Oman
- Advisory Board of Pancea, Journal of Medical Sciences, NKPSIMS
- Referee/reviewer –
  - Journal of Clinical Pathology
  - The National Medical Journal of India
  - Medical Science Monitor
  - European Journal of Surgical Oncology
  - Kuwait Medical Journal
  - Medical Principles and Practice
  - Annals of Saudi Medicine

### **Dr. Mohammad ElFawal**

- Member of the editorial board of the Journal of Legal Medicine and Forensic Sciences.
- Reviewer for Journal of Legal and Forensic Medicine.
- Reviewer for Australian Journal of Forensic Sciences.

### **Dr. Rola Ali**

- Peer review for Medical Principles and Practice journal and other journals.

### **Dr. Rabeah Al-Temaimi**

Registered Reviewer for the following journals

- Journal of Neuroinflammation
- NeuroMolecular Medicine
- BMC Neurology (BioMed Central)
- Clinica Chimica Acta (Elsevier)
- PLOS One
- Journal of Clinical Pathology (JCP)

### **Dr. Abeer Al-Abdallah**

Reviewing manuscripts for the following journals:

- BMC Cancer/ Springer Nature- 6 completed assignments
- Molecular Cancer/ Springer Nature- 2 completed assignments
- Technology in Cancer Research and Treatment/ SAGE- 2 completed assignments
- Cancer Management and Research/ Dovepress- 2 completed assignment
- Oncotarget and Therapy/ Dovepress- 2 completed assignments

#### **d. Participation in Professional Conferences**

##### **Dr. Kusum Kapila**

- 25<sup>th</sup> Health Science Poster Conference, March 16 -18, 2021.

##### **Dr. Rajaa Marouf**

- Hemophilia conference, Kuwait, Jan 2020. Chaired a session.

##### **Dr. Mohammad ElFawal**

- Member of the Reviewing Committee, 25<sup>th</sup> Congress, Internal Academy of Legal Medicine, 1-4 June, 2021, Geneva, Switzerland.

##### **Dr. Salah Al-Waheeb**

- Participated in KCCC-Cleveland Clinic pathology conference January 2020 as session chair.

##### **Dr. Rabeah Al-Temaimi**

- Three poster presentations in the virtual 25<sup>th</sup> Health Sciences Center Poster day, March 16 – 18, 2021.
- One poster presentation in the virtual Kuwait University research sector Annual Scientific Poster day, March 21, 2021.

#### **e. Services as external examiners outside Kuwait**

Nil

#### **f. Contribution to committees in the Faculty of Medicine**

##### **Dr. Abdullatif Al-Bader**

- Chief Mentor – Mentoring and new staff orientation committee, Department of Pathology

##### **Dr. Kusum Kapila**

- Member, Committee of 25<sup>th</sup> HSC Poster Conference, March 16 -18, 2020-2021.
- Member, Faculty of Medicine Committee on Promotions, for the academic year 2019-2020.
- Program Director for the MSc and PhD programmes in the Department of Pathology; 2019-2020.
- Chairperson, Review Committee, Department of Pathology.
- Member, Review Committee, Department of Medicine.
- Coordinator, Pathology, Reproductive and Breast system module, 2020-2021.
- Member, Departmental Appointment and Contract Renewal Committee
- Member, Departmental Scholarship Committee

### **Dr. Issam Francis**

- Member, Examination committee, Phase III Teaching Program
- Head of the Electron Microscopy Unit
- Member, PBL Coordination Group
- Acting Chairman, Department of Pathology
- Head of Histopathology Unit
- Convener, Appointment and Promotion Committee and Scholarship Committee
- Overall coordinator, Phase III Teaching Program
- Coordinator, Postgraduate Course: Experimental Pathology 0570-604
- Coordinator, Postgraduate Course: Electron Microscopy, 0570-601
- Coordinator, Postgraduate Course: Advanced Lab. Medicine I, 0570-503
- Coordinator, Postgraduate Teaching: General Pathology: (Cytopathology, Histopathology, Molecular Pathology, Human Genetics)

### **Dr. Rajaa Marouf**

- Head of Hematology Unit.
- MSc Hematology course coordinator
- Member - Appointments, Promotions and Contract Renewal (Academic & Non-Academic Staff) and Scholarship committee.
- Member, Mentoring and New Staff Orientation Committee
- Convener, Tenders and Equipment Maintenance committee.

### **Dr. Mohammad ElFawal**

- Head of Forensic Medicine Unit.
- Coordinator, Phase II Cardiovascular System.

### **Dr. Suad Abdeen**

- Member of Scientific Advisory Committee
- Member of departmental Academic Affairs Committee
- Member of departmental Mentoring and New Staff Orientation Committee
- Contributions to Teaching: Involved in PBLs: Endocrine module and GIT module.
- Teaching Year 2, Year 3, Year 4 lectures, practical and seminars.
- Coordinator of 3<sup>rd</sup> year OSPE 1 & 2.

### **Dr. Salah Al-Humood**

- Director, Graduate Program Committee.

### **Dr. Rola Ali**

- Chairperson, eLearning Committee, starting 2019-2020 academic year (issued 1.6.2020 by Dean's Executive Committee)
- Coordinator, Renal Module for Phase II, Sep 2017 to present (appointed 12.6.2017 by Vice Dean Academic)

- Member, Examination Committee for Phase II, Sep 2016 to present (issued by Dean's Executive Committee)
- Academic Accreditation Liaison Officer, starting 2019-2020 (issued by Dean's Executive Committee)
- PBL Facilitator, Nervous Module (2020-2021)
- PBL Facilitator, Renal Module (2020-2021)
- Convenor, Pathology Department Accreditation Committee
- Convenor, Pathology Department Library and Museum Committee
- Coordinator, OSPE Phase II for Year 3
- Member, Departmental Scholarship Committee (starting 16.9.2020)
- Member, Academic Affairs Committee
- Coordinator, PhD Course: Diagnostic Cancer Research (0570-507)
- Department representative/coordinator for Nervous system module, Phase II
- Department representative/coordinator for Renal module, Phase II

#### **Dr. Bushra Al-Ayadhy**

- Head of Molecular Pathology Unit
- Coordinator, Foundation Block
- Member of departmental Academic Affairs Committee
- Member - Appointments, Promotions and Contract Renewal (Academic & Non-Academic Staff) and Scholarship committee.
- Convener of departmental Cultural Affairs and Office Space Allocation Committee.

#### **Dr. Maamoun Al-Aynati**

- Member of departmental Academic Affairs Committee
- Member of departmental Scientific Affairs and Research Projects Review Committee
- Coordinator OSPE 4<sup>th</sup> year.
- Member – Appointment, Promotions and Contract Renewal Committee (Non-Academic).

#### **Dr. Rabeah Al-Temaimi**

- Convener - Appointments, promotions, and contract renewal of non-academic staff members committee, Department of Pathology.
- Member, Graduate Program Committee.
- Member, Cultural affairs and office space allocation committee in the Department of Pathology.
- Convener - Scientific affairs and research projects review committee, Department of Pathology.
- Member - Tenders and equipment maintenance committee, Department of Pathology.
- Director/Convener- Shared Facilities Laboratories Management Committee, Department of Pathology.
- Head of Human Genetics Unit.

**Dr. Ahmad Al-Serri**

- Coordinator of Reproductive and Breast PBL – Faculty of Medicine - 2020-2021
- Member, departmental Accreditation committee.
- Member, Departmental Library committee.

**Dr. Salah Al-Waheeb**

- Chairperson, Faculty of Medicine Instrument Committee.
- Member, Academic Affairs Committee.
- Convener- Library and Museum Committee, Department of Pathology
- Member of Tenders and Equipment Maintenance Committee

**Dr. Lama Al-Faris**

- Member, Academic Affairs Committee
- Assistant OSPE Co-ordinator
- Member, Scientific Affairs and Research Projects Review Committee

**Dr. Dalal Mulla Ali**

- Health and Safety Committee, health and safety officer
- Academic affairs committee, assistant foundation course coordinator
- Accreditation Committee, member
- Library and museum committee, member
- Blood module coordinator

**Dr. Abeer Al-Abdallah**

- Member, Faculty Pass-2 Year-2 examination committee.
- Academic secretary, Pathology department
- Member, Pathology Department Research Committee.

**g. Contributions to committees outside the Faculty**

**Dr. Kusum Kapila**

- Member of Faculty of Allied Health Committee on Promotion for 2019-2020, 2020-2021.
- Member, Postgraduate Education Committee, KIMS-Residency Training Programme in Anatomic Pathology and Cytopathology, Kuwait.

**Dr. Issam Francis**

- Academic teacher, College of Graduate Studies

**Dr. Rajaa Marouf**

- Member, Kuwait Hematology Board, Kuwait Institute for Medical Specialization (KIMS), MOH, Kuwait.

**Dr. Mohammad ElFawal**

- Member of the Appeal and Grievance Committee for the Higher Authority of Disability, Ministry of Social Affairs, Kuwait since 2011.
- Member of several “Ad Hoc Committees” formed for examining medico-legal and malpractice court cases in Kuwait.

**Dr. Salah Al-Waheeb**

- Cross appointed to MOH, Maternity Hospital , Cytology lab.

**Dr. Abeer Al-Abdallah**

Teaching in Faculty of Pharmacy:

- Pathophysiology course # 331 (8 lectures).
- Pathophysiology course # 332 (9 lectures).

**Dr. Ahmad Al-Serri**

- Program Committee member for MSc in Biomedical Sciences -- Kuwait University - 2020-2021

**CONCLUSION**

The slow but steady progress the department was making has stalled. The PBL based curriculum requires more staff yet the member of academic staff has dwindled. The University needs to realise that whereas its faculties may be equal than are at the same time different. The same yardstick of staff requirement cannot be used for liberal arts, social sciences, engineering and medicine. Requests for staff are based, in part, on the “Teaching load” which is a concept at odds within the new curriculum that is based on fewer lectures and didactic teaching. It is knowing a lot in a restricted field not little bits of every field that leads to true excellence in teaching, research and clinical services the stated desire of Kuwait University. The department continues to make excellent contributions to the mission and vision of the Faculty of Medicine and Kuwait University despite its limitations.

# **PHARMACOLOGY & TOXICOLOGY**

## INTRODUCTION

### a) Objectives of the Department Programs

The objectives of the Departmental programs are as follows:

1. To equip our medical and dental students with a comprehensive, up-to-date and evidence-based knowledge of Pharmacology which will prepare them to become competent and knowledgeable future doctors. This involves teaching the subjects in a manner that emphasizes both strong basic science and clinical relevance in a problem-solving approach.
2. To train graduate students to acquire advanced theoretical and practical skills in the science of pharmacology in order to prepare them as future scientists who are able to conduct independent pharmacological research and to occupy positions in pharmaceutical industry, research institutions or academia.
3. To serve society by providing high-quality Therapeutic Drug Monitoring/Clinical Toxicology Service to all hospital in Kuwait, through our Toxicology Unit.

### b) Obstacles to Meeting Objectives

1. **Poor Funding:**  
Inadequate funding was a major obstacle that militated against the achievement of set objectives. This problem which has become more acute in the last 4 years has severely affected our ability to acquire new scientific equipment, consumables and chemicals needed for student training and research. Departmental budgets are hardly implemented year after year.
2. **Staff Recruitment:**  
We have also had problems recruiting new academic and technical staff to replace those who resigned. This is because the University has severely reduced new appointments. The situation has had a limiting effect on the Department's ability to support and expand its graduate programs.
3. **Staff Morale:**  
Lack of promotion and low salaries for technical and secretarial staff contributes to low morale which negatively impacts productivity.

### c) Current Developments

1. **Staff**  
Prof. Habib Abul has returned after his secondment to the Council of Foreign Universities, Ministry of Higher Education and has rejoined the department in April 2021.
2. **Ph.D. Curriculum**



We revised our Ph.D. Curriculum to solve some problems faced by students in the selection of core courses and electives. Pending approval from the College of Graduate Studies.

d) Program achievements

**Student engagement and success**

*Curriculum enhancement and development*

The activities of the Department during this academic year went on smoothly in spite of the prevailing challenges. We have been able to fulfil our teaching commitments in line with our stated objectives of providing quality education to medical, dental and Allied Health Science students of the Health Sciences Center. The Department's PhD program has continued to make good progress, with three students currently enrolled – two in the fourth year and one in the third year. No new students were admitted for the next academic year. In the M.Sc. program, no candidates are enrolled this academic year. Three students have been recommended for admission for the next academic year. The Department also undertook the teaching of the M.Sc. Molecular Pharmacology and Advanced Topics in Pharmacology I Courses to the Biomedical Sciences Students of the Faculty of Medicine. There were no students enrolled for this course this academic year from the Faculty of Pharmacy.

Analysis of the performance of medical & dental students in Pharmacology questions in both the end-of-module and final exams show that performance has continued to be very good.

Elective Courses for the Phase II-year 4 students had 4 topics this year. This resulted in 12 students registering for the Pharmacology Electives this academic year.

**MANPOWER**

Faculty Members

Dr. C.I. Ezeamuzie	-	B.Sc., Ph.D., Professor Immunopharmacology
Dr. M.A. Oriowo	-	B.Sc., Ph.D., Professor Cardiovascular Pharmacology
Dr. H.T. Abul	-	B. Pharm., Ph.D., Professor, Immunopharmacology.
Dr. M.S. Bitar	-	M.Sc., Ph.D., F.A.C.C.P., Professor, Neuroendocrine Pharmacology.
Dr. M. Yousif	-	B.Sc., M.Sc., Ph.D., Professor, Cardiovascular Pharmacology
Dr. Mahmoud M. El-Mas	-	B Pharm, M.Sc., PhD., Professor Cardiovascular Pharmacology

- Dr. S. Al-Sabah - B.Sc., Ph.D., Associate Professor & Acting Chairman  
Receptor Pharmacology
- Dr. A. Shihab-Eldeen - B.Sc., M.Sc., Ph.D., Assistant Professor,  
Applied Pharmacology/Toxicology
- Dr. S. M. Karam - B.Sc., M.Sc., Ph.D., Assistant Professor,  
Neuropharmacology
- Dr. M. Al-Fulaij - B.Sc., Ph.D., Assistant Professor,  
Molecular Pharmacology/ Pharmacogenetics
- Dr. J. Al-Jaber - B.Sc. Pharmacy., M.Sc., Ph.D., Assistant Professor  
Clinical Toxicology
- Dr. M. A. Ansari - B.Sc., M.Sc., Ph.D., Assistant Professor  
Neuropharmacology

Teaching Assistant

Ms. Batoul M. Makki, B.Sc., M.Sc., Pharmacology

Dr. Rashed Al-Hammad, M.Sc., Ph.D. (*New appointment*)

Lab Physicians

Dr. Ghanim Al-Khaledi, M.D.

Clinical Tutors

Nil

External Examiner

Nil

Visiting Professor

Nil

M.Sc. Students

Nil

Ph.D. Students

- Ms. Bashaier Al-Zaid

- Ms. Dina M. Jragh

- Ms. Neha Munawar

**SUPPORT STAFF**

Scientific Assistants and Research Assistants

Ms. Bindu Chandrashekar, M.Sc., Scientific Assistant

Ms. Elizabeth Philip, M.Sc., Scientific Assistant

#### Technicians

Dr. Saju Abraham, M.Sc., Ph.D., Chief Technician  
Mr. A. Cherian, B.Sc., Senior Technician (*Resignation effective January 3<sup>rd</sup> 2021*)  
Dr. Alia Anwar, M.B.B.S., Senior Technician  
Ms. Siby Anne Thomas, M. Pharm, Senior Technician  
Mr. Sibi Chacko, B.Sc., MBA, Senior Technician  
Ms. Elsie Oommen, M. Pharm, Technician  
Ms. Linu A. Varghese, M. Pharm, Technician  
Ms. Afnan Ali, BSc., Biological Researcher  
Ms. Alia Ezzo, Ph.D., Senior Lab Analyst  
Ms. Esra Atef F. Ramadan, B.Sc., Senior Biological Researcher  
Mr. Samsudin Mahaboob Ali, Lab Attendant

#### Administrative Coordinator

Ms. Hessa N. H. Alanbie

#### Secretaries

Ms. Bincy A. John (*Contract ended December 31<sup>st</sup>, 2020*)  
Ms. Elizabeth Joseph

Technicians Seconded to the Department (TDM/ Toxicology Laboratory) from the Ministry of Health (Mubarak Al-Kabeer Hospital)

Mr. Zainulabdeen Reda Mohammad Hassan  
Mr. Igube Julius Korie  
Ms. Maryam Ahmed Ali Al Asousi

### **STAFFING CHANGES**

#### **Sabbatical Leave**

Nil

#### **New Staff appointed**

##### Academic Staff

Prof. Habib Abul has returned from his secondment to the Council of Foreign Universities, Ministry of Higher Education and has rejoined the department on April 11, 2021.

##### Support Staff

Dr. Rashed Al-Hammad joined as a Teaching Assistant on 8<sup>th</sup> November, 2020.

#### **Staff who resigned/left the Department**

- Mr. A. Cherian, Senior Technician resigned from his position effective January 3<sup>rd</sup> 2021.
- Ms. Bincy A. John, Executive Secretary's contract ended on 31<sup>st</sup> December, 2020.

#### **On-going Staff Recruitment Exercise**

##### Academic Support Staff

1. Teaching Assistant (appointed)
2. Clinical Instructor (waiting to advertise)

## TEACHING IN THE DEPARTMENT PROGRAM

### 1. FACULTY OF MEDICINE

#### a) Undergraduate Teaching

The bulk of the teaching activities of the Department are in the Phase II program. Teaching activities in the current academic year progressed smoothly despite the Covid 19 pandemic. Hence this academic year also lectures & PBLs were delivered both physically and online using the MS Teams platform. Academic staff actively participated in the PBL sessions. As part of our contribution to teaching in the phase III program, we continued to take part in the Medical School Day (MSD) activities that were scheduled.

The Department was also involved in teaching Pharmacology to students of the Faculty of Allied Health Sciences on MS Teams this academic year.

The details of staff participation and teaching hours are as follows:

#### Phase II Program (Second, Third & Fourth Year Medical Students)

##### 1. Musculoskeletal System Module

Lectures	:	2 hrs
Learning Topic	:	1 hr
PB L sessions	:	0 hrs
Total teaching hours given		-----
to students per year	:	3 hours

- Lectures and Learning Topics given by Dr. S. Al-Sabah and Dr. S. M. Karam
- Departmental Module Coordinator: Dr. S. Al-Sabah

##### 2. Infection and Immunology System Module

Lectures	:	2 hrs
PBL Sessions	:	0 hrs
Total teaching hours given		-----
to students per year	:	2 hours

- Lectures given by Dr. S. M. Karam and Dr. M. Ansari
- Departmental Module Coordinator: Dr. S. M. Karam

##### 3. Endocrine Module

Lectures	:	7 hrs
PBL Sessions	:	20 hrs (4 hrs per week for 5 weeks)
Total teaching hours given		-----
to students per year	:	27 hours

- Lectures and Learning Topics given by Prof. M.S. Bitar, and Dr. M. Al-Fulaij
- Departmental Module Coordinator: Prof. M.S. Bitar
- PBL sessions facilitated by Prof. M.S. Bitar

**4. Digestive System Module**

Lectures	:	3 hrs
Learning Topic	:	1 hr
PBL sessions	:	0 hrs
		-----

Total teaching hours given  
to students per year : 4 hours

- Lectures and Learning Topics given by Drs. M. Al-Fulaij, J. Al-Jaber and Prof. M. El-Mas
- Departmental Coordinator: Dr. J. Al-Jaber

**5. Foundation Block 2**

Lectures	:	21 hrs
		-----

Total teaching hours given  
to students per year : 21 hours

- Lectures given by, Prof. M. Yousif, Prof. M.S. Bitar, Prof. M. El-Mas, Dr., S. M. Karam, Dr. S. Al-Sabah, Dr. M. Al-Fulaij, Dr. J. Al-Jaber and Dr. M. Ansari
- Departmental Module Coordinator: Dr. M. Ansari

**6. Respiratory System Module**

Lectures	:	3 hrs
Learning Topics	:	2 hrs
		-----

Total teaching hours given  
to students per year : 5 hours

- Lectures and Learning Topics given by Prof. C.I. Ezeamuzie, Drs. M. Al-Fulaij and M. Ansari
- Departmental Module Coordinator: Dr. M. Al-Fulaij

**7. Renal System Module (RRB)**

Lectures	:	1 hr
Learning Topic	:	1hr
PBL Sessions	:	40 hrs (4 hrs per week for 5 weeks) * 2
		-----

Total teaching hours given  
to students per year : 42 hours

- Lectures and Learning Topics given by Prof. M.Yousif and Prof. M. El-Mas
- Departmental Module Coordinator: Dr. M. Ansari
- PBL sessions facilitated by Prof. M. Yousif and Dr. M. Ansari

### 8. **Reproductive System Module (RRB)**

Lectures	:	2 hrs
Learning Topic	:	1 hr
PBL Sessions	:	18 hrs (4 hrs per week for 5 weeks) ( <i>last session not attended</i> )

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 Total teaching hours given  
 to students per year : 21 hours

- Lectures and Learning Topics given Prof. M.A. Oriowo, Prof. M.S. Bitar and Prof. M. El-Mas
- PBL sessions facilitated by Dr. J. Al-Jaber
- Departmental Module Coordinator: Prof. M.S. Bitar

### 9. **Cardiovascular System Module**

Lectures	:	6 hrs
PBL Sessions	:	28 hrs (4 hrs per week for 7 weeks)

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 Total teaching hours' given  
 to students per year : 34 hours

- Lectures given by Prof. M. A. Oriowo, Prof. M. Yousif and Prof. M. El-Mas
- PBL sessions facilitated by Dr. M. Ansari
- Departmental Module Coordinator: Prof. M. Yousif

### 10. **Nervous System Module**

Lectures	:	9 hrs
Learning Topic	:	1 hr

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 Total teaching hours given  
 to students per year : 10 hours

- Lectures and Learning Topics given by Dr. S. M. Karam, Dr. M. Al-Fulaij and Dr. M. Ansari
- Departmental Module Coordinator: Dr. S. M. Karam

### 11. **Blood System Module**

Lectures	:	2 hrs
PBL Sessions	:	32 hrs (4 hrs per week for 4 weeks) * 2

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 Total teaching hours given  
 to students per year : 34 hours

- Lectures given by Prof. M.A. Oriowo and Dr. J. Al-Jaber
- PBL Session facilitated by Dr. S. M. Karam and Dr. M. Al-Fulaij
- Departmental Module Coordinator: Dr. J. Al-Jaber

## 12. Phase II Elective Courses for the current academic year

1. Defining Drug Efficacy.
2. Drug Repositioning / Drug Repurposing
3. Angiotensin Peptides and Nitric Oxide in Cardiovascular Disease
4. Latest Advances in the Prevention & Treatment of Alzheimer's disease

Through the use of interactive learning sessions and self-directed learning, these courses aim to provide detailed knowledge of a key student-selected advanced topic in pharmacology and toxicology. This is to be achieved through a mini-written project as well as a formal oral presentation in a topic of interest. The student chooses both the topic and the academic staff advisor.

12 students registered for 4 courses this academic year (2 weeks' duration) and all the students have passed the Elective Courses.

Total teaching hours for 2 weeks this academic year for 2 hrs each twice a week

Prof. M. Yousif	:	2 * 4 hrs = 8 hrs	(5 students)
Dr. S. Al-Sabah	:	2 * 4 hrs = 8 hrs	(3 students)
Dr. M. Al-Fulaij	:	2 * 4 hrs = 8 hrs	(1 student)
Dr. M. Ansari	:	2 * 4 hrs = 8 hrs	(3 students)

Total contact hours = 32 hours

Course Coordinators: Prof. Mariam Yousif, Dr. Suleiman Al-Sabah, Dr. Munya Al-Fulaij and Dr. Mubeen Ansari

## Phase III Medical School Day (MSD)

Dr. Mubeen Ansari participated in the MSD activities of the Department of Medicine in the 5<sup>th</sup> year MSD Respiratory.

Prof. Charles I. Ezeamuzie participated in the MSD activities of the Department of Medicine in the 6<sup>th</sup> year MSD Rheumatology.

## b) Graduate Teaching (M.Sc. & Ph.D.)

We currently have 3 PhD students enrolled in our Graduate Program. There are no new PhD students because the program is still suspended. We did not have any new entries into our MSc program during this academic year 2020/2021.

The Department contributed in teaching Biomedical Sciences MSc program. Two courses were taught this academic year (Molecular Pharmacology & Advanced

Topics in Pharmacology 1) to the graduate students in the Biomedical Sciences MSc Program.

#### New admissions into MSc Program

This year, we followed the same procedure for admission as last academic year. The admission procedure included a written test as advised by the CGS and was implemented last academic year as well. We continued with the pass mark for the written admission test that was set last year at 80%. Four applications were received for admission in 2020/2021 academic year. Three of the candidates were recommended to join our MSc program for next academic year 2021/2022. They fulfilled all the requirements and their overall score was in accordance with CGS bylaws. They all scored above 80% in the overall score as well as in the written admission test. The fourth applicant was not recommended because her GPA and overall score were below the required % according to CGS bylaws.

#### Graduate Students' progress report

All PhD students are making satisfactory progress in their bench work. However, animal supply has been and is still a problem. The three PhD students have successfully presented seminars to the Department about their projects. Prof. Mariam Yousif was appointed as the Graduate Program Director (for both M.Sc. & Ph.D. Programs) for the 2020/2021 academic year.

#### Teaching Hours (M.Sc.)

Lectures + Practical	:	81 hours	
Thesis Supervision	:	180 hours	(60 * 3)

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Total teaching hours given to : 261 hours  
students per year (M.Sc.)

#### M.Sc. Program Course Coordinators

<u>Co-ordinator</u>	<u>Course No.</u>	<u>Course Title</u>
Prof. M.S. Bitar Pharmacology I	PHTX 519	Advanced Topics in
Dr. M. Al-Fulaij	PHTX 505	Molecular Pharmacology

#### Thesis supervision

Ms. Sara Salem	M.Sc. (Anatomy)	Prof. M. Yousif (Co-Supervisor)
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b) Undergraduate Teaching in the Faculty of Science

Dr. Jaber Al-Jaber is seconded for teaching and coordinating the Forensic Toxicology (0496-402) course at Faculty of Science (Forensics Sciences undergraduate program).

## RESEARCH AND PUBLICATIONS

### Introduction

Research activities in the Department have continued to be strong during the academic year 2020/2021. Staff members were involved in 11 funded research grants either as PI or Co-I.

### Research Funding

1. Investigating the impact of Homo-and Hetero-dimerization on signalling through the incretin receptors.  
Funding : Kuwait University Research Administration - Graduate Research Project No. YM 02/19  
Status : on-going  
Principle investigator : **Dr. S. Al-Sabah**  
Co-Investigator : **Prof. C. I. Ezeamuzie**  
Graduate student : Ms. Bashaier Al-Zaid (Ph.D. Pharmacology)
2. Molecular Determinants of Differential Signalling by the Human Incretin Receptors.  
Funding : Kuwait University Research Administration Project No. RM01/15  
Status : On-going  
Principal Investigator: **Dr. Suleiman Al-Sabah**
3. The effect of metabolic surgery on the uncoupling proteins.  
Funding : External Institutions Project No. P11613MM06  
Status : On-going  
Co-investigator: **Dr. Suleiman Al-Sabah**
4. The effect of consumption of parboiled rice on blood glucose level, insulin, glucose-dependent insulintropic polypeptide and glucagon-like peptide-1 responses in healthy and people with type 2 diabetes.  
Funding : Kuwait University Graduate Research Project No. YF 03/18  
Status : On-hold  
Principal Investigator : Dr. Tasleem Zafar (Faculty of Life Sciences, Food Science & Nutrition)  
Co-Investigator : **Dr. Suleiman Al-Sabah**  
Graduate student : Ms. Sara Al-Kanderi (M.Sc. Nutrition)

5. Investigating the role of dual GLP-1/GIP receptor agonist in the protection of the heart against ischemia/reperfusion injury
 

Funding : Kuwait University Graduate Research Project No. YM 01/20

Status : Ongoing

Principal Investigator : Dr. Fawzi Babiker (Dept. of Physiology)

Co-Investigator : **Dr. Suleiman Al-Sabah**

Graduate student : Mr. Ali Ismael (M.Sc. Biomedical Sciences)
  
6. Role of trace amine-associated receptors in the dual response of the perfused rat kidney to tryptamine, a trace amine ligand: signaling pathways and the effect of hypertension.
 

Funding : Kuwait University Research administration. Graduate studies project. Project number: YM02/21

Status : Submitted - January 2021

Principal investigator : **Prof. Mariam Yousif**

Co- investigator : **Prof. M.A. Oriowo**

Graduate student : Ms. Dina M. Jragh (Ph.D. Pharmacology)
  
7. Characterization of the interplay between high density lipoprotein and renin angiotensin system in hypertension associated vascular remodeling.
 

Funding : Kuwait University Research administration  
Project number: MB 02/16

Status : Ongoing

Principle Investigator : Dr. Aishah Al-JarAllah (Dept. of Biochemistry)

Co-investigator : **Prof. Mariam Yousif**
  
8. Effect of Ginkgo biloba extract on Neuropathic Pain in Streptozotocin induced diabetic rats: Involvement of Microglia activation
 

Funding : Kuwait University Research administration  
Graduate studies project.  
Project number: YM02/20

Status : Ongoing

Principle Investigator : Dr. Alyaa Mousa (Dept. of Anatomy)

Co-investigator : **Prof. Mariam Yousif**

Graduate student : Ms. Sara Salem (MSc. Anatomy)
  
9. The Role of the Central Noradrenergic and Serotonergic Systems in Diabetic Neuropathic pain.
 

Funding : Kuwait University Research Administration  
Ph.D. student project No. YM05/19

Status : On-going

Principle Investigator : **Prof. Milad S. Bitar**

Co- investigator : Dr. Willias Masocha (Faculty of Pharmacy)

Graduate student : Ms. Neha Munawar (Ph.D. Pharmacology)
  
10. IRAP: a novel direct circulating biomarker assay for the screening and diagnosis of prediabetes, gestational and type 2 diabetes.
 

Funding : Dasman Dabetes Research center

Status : Approved for funding- 2021- 2024  
Principle Investigator : **Prof. Milad S. Bitar**  
Co- investigators : Serge P. Botari and Prof. Fahd-Al-Mulla.

11. Role of central monoaminergic system in diabetic neuropathic pain.  
Funding : Kuwait University  
Status : Approved for funding- 2021- 2024  
Principle Investigator : **Prof. Milad S. Bitar**

### **Publications**

1. Candice C, Lambert-Porcheron, S Gaddhab, G, Samouda, H, Bohn,T, Laville, M, Poitou, T, Clément K, Al-Mulla, F, **Bitar\***, **MS**, Bottari\*,S P. Serum IRAP, a Novel Direct Biomarker of Prediabetes and Type 2 Diabetes *Frontiers in Molecular Biosciences* (\*Co-senior authors, In Press).
2. Abdel-Halim SM, Al Madhoun A, Nizam R, Melhem M, Cherian P, Al-Khairi I, Haddad D, Abu-Farha M, Abubaker J, **Bitar MS\***, Al-Mulla F\*. Increased Plasma Levels of Adenylate Cyclase 8 and cAMP Are Associated with Obesity and Type 2 Diabetes: Results from a Cross-Sectional Study. *Biology (Basel)*. 9: E244, 2020 (\*Co-senior authors).
3. Elzokm SS, Fouda MA, Abdel Moneim RA, **El-Mas MM**. Distinct effects of calcineurin dependent and independent immunosuppressants on endotoxemia-induced nephrotoxicity in rats: role of androgens. *Clin Exp Pharmacol Physiol*. 2021 May 27. doi: 10.1111/1440-1681.13526. Online ahead of print. PMID: 34042216.
4. Nasser SA, Afify EA, Kobeissy F, Hamam B, Eid AH, **El-Mas MM**. Inflammatory basis of atherosclerosis: modulation by sex hormones. *Curr Pharm Des* 2021. Jan 22. doi: 10.2174/1381612827666210122142811. Online ahead of print. PMID: 33480335.
5. Sallam MY, El-Gowilly SM, **El-Mas MM**. Cardiac and brainstem neuroinflammatory pathways account for androgenic incitement of cardiovascular and autonomic manifestations in endotoxic male rats. *J Cardiovasc Pharmacol* 2021 May 1;77(5):632-641.
6. Youssef ME, **El-Mas MM**, Abdelrazek HM, El-Azab MF.  $\alpha 7$ -nAChRs-mediated therapeutic angiogenesis accounts for the advantageous effect of low nicotine doses against myocardial infarction in rats. *Eur J Pharmacol*, 2021 Mar 5, 898, 173996.
7. Sallam MY, El-Gowilly SM, **El-Mas MM**. Androgenic modulation of arterial baroreceptor dysfunction and neuroinflammation in endotoxic male rats. *Brain Res*. 2021 Apr 1, 1756, 147330.
8. El-Lakany MA, El-Gowelli HM, Fouda MA, Sallam MY, **El-Mas MM**. Nicotine uncovers endotoxic-like cardiovascular manifestations in female rats: estrogen and nitric oxide dependency. *Tox Lett* 2020 Dec 15;335:28-36.

9. Abuiessa SA, Wedn AM, El-Gowilly SM, Helmy MM, **El-Mas MM**. Preeclamptic fetal programming alters neuroinflammatory and cardiovascular consequences of endotoxemia in sex specific manners. *J Pharmacol Exp Ther* 2020 May;373(2):325-336.
  10. El-Lakany MA, Fouda MA, El-Gowelli HM, **El-Mas MM**. Ovariectomy provokes inflammatory and cardiovascular effects of endotoxemia in rats: Dissimilar benefits of hormonal supplements. *Toxicol Appl Pharmacol* 2020 Apr 15;393:114928.
  11. Wedn AM, El-Gowilly SM, **El-Mas MM**. Nicotine improves survivability, hypotension, and impaired adenosinergic renal vasodilations in endotoxic rats: Role of  $\alpha 7$ -nAChRs/HO-1 pathway. *Shock* 2020 Apr;53(4):503-513.
  12. Shayea AMF, Mousa AMA, Renno WM, Nadar MS, Qabazard B, **Yousif MHM**. Chronic Treatment with Hydrogen Sulfide Donor GYY4137 Mitigates Microglial and Astrocyte Activation in the Spinal Cord of Streptozotocin-Induced Diabetic Rats. *J Neuropathol Exp Neurol.* 2020 ;79(12):1320-1343.
  13. Qabazard B, **Yousif M**, Mousa A, Phillips OA. GYY4137 attenuates functional impairment of corpus cavernosum and reduces fibrosis in rats with STZ-induced diabetes by inhibiting the TGF- $\beta$ 1/Smad/CTGF pathway. *Biomedicine & Pharmacotherapy.* 2021; 138: 111486
- Al-Sabah, S.;** Adi, L.; Bünemann, M.; Krasel, C. The Effect of Cell Surface Expression and Linker Sequence on the Recruitment of Arrestin to the GIP Receptor. *Front. Pharmacol.* 2020, 11, 1271. <https://doi.org/10.3389/fphar.2020.01271>.
14. Jamal, M. H.; Abu-Farha, M.; Al-Khaledi, G.; **Al-Sabah, S.;** Ali, H.; Cherian, P.; Al-Khairi, I.; AlOtaibi, F.; Al-Ali, W.; Bosso, M.; Dsouza, C.; Abubaker, J.; Al-Mulla, F. Effect of Sleeve Gastrectomy on the Expression of Meteorin-like (METRNL) and Irisin (FNDC5) in Muscle and Brown Adipose Tissue and Its Impact on Uncoupling Proteins in Diet-Induced Obesity Rats. *Surgery for Obesity and Related Diseases* 2020, 16 (12), 1910–1918. <https://doi.org/10.1016/j.soard.2020.07.022>.

### **Published Abstracts**

1. B Al-Zaid, S Al-Sabah, C Ezeamuzie Disruption of GLP-1 Receptor Homodimerization Potentially Impairs Various Signalling Pathways *British Journal of Pharmacology*, 2021
2. Morgaan HA, El-Gowilly SM, **El-Mas MM**. Preeclamptic programming unevenly modifies hemodynamic and renovascular outcomes of endotoxemia in rat offspring: modulation by sex and antenatal therapies. *FASEB J* 2021, 35, Issue S1. *Experimental Biology*, 2021
3. Wedn AM, Abuiessa SA, Helmy MM, El-Gowilly SM, **El-Mas MM**. Maternal and fetal defects of gestational angiotensin 1-7 receptor antagonism: a possible preclinical model of preeclampsia. *FASEB J* 2021, 35, Issue S1. *Experimental Biology*, 2021

4. Abuiessa SA, Helmy MM, El-Gowilly SM, **El-Mas MM**. Dysregulated ACE/Ang II And ACE2/Ang 1-7 signalling provokes cardiovascular and neuroinflammatory outcomes of endotoxemia in weaning preeclamptic rats. FASEB J 2021, 35, Issue S1. Experimental Biology, 2021
5. Abuiessa SA, Helmy MM, El-Gowilly SM, **El-Mas MM**. Gestationally administered RAS modulators reprogram endotoxic cardiovascular and inflammatory profiles in adult offspring of preeclamptic rats. FASEB J 2021, 35, Issue S1. Experimental Biology, 2021
6. Habib YH, Abdelhady SA, Gowayed MA, El-Deeb NM, Darwish IE, **El-Mas MM**. Prenatal endothelin or thromboxane receptor antagonism surpasses sympathoinhibition in managing cardiovascular and renal malfunctions in preeclamptic rats. FASEB J 2021, 35, Issue S1. Experimental Biology, 2021
7. Habib YH, Gowayed MA, Abdelhady SA, El-Deeb NM, Darwish IE, **El-Mas MM**. Modulation by antenatal therapies of cardiovascular and renal programming in male and female offspring of preeclamptic rats. FASEB J 2021, 35, Issue S1. Experimental Biology, 2021
8. Abdelhady SA, Ali MA, Yacout DM, Kandil LS, Elblehi SS, **El-Mas MM**. Antenatally administered NSAIDs improve renal cyclooxygenase and antiangiogenic profiles in rats with preeclampsia. FASEB J 2021, 35, Issue S1. Experimental Biology, 2021
9. Abdelhady SA, Ali MA, Yacout DM, Kandil LS, Elblehi SS, **El-Mas MM**. Reprogramming by gestational NSAIDs of cardiovascular defects in preeclamptic rats: roles of cyclooxygenase and antiangiogenic trails. FASEB J 2021, 35, Issue S1. Experimental Biology, 2021
10. Jragh D., **Yousif M., Oriowo MA.**, Chandrasekhar. Signaling Mechanisms Mediating Tryptamine- and Beta-Phenylethylamine -Induced Increase in Perfusion Pressure of the Perfused Rat Kidney. 25<sup>th</sup> Health Sciences Centre Poster Conference, 16-18<sup>th</sup> march 2021.
11. AlShahwan H, Chandrasekhar B, Anjilivilayil C., Qabazard B, **Yousif MH**. The Effect of the Hydrogen Sulfide Donor GYY4137 in Diabetes-Induced vascular dysfunction in Mesenteric Bed of STZ Diabetic Rats. 25<sup>th</sup> Health Sciences Centre Poster Conference, 16-18<sup>th</sup> March 2021.

#### Departmental Virtual Seminar Series

The following seminars were held virtually on Microsoft Teams during this academic year, coordinated by Prof. Mahmoud M. El-Mas.

1. Prof. Mahmoud M. Elmas (Professor)  
Title: “Central cholinergic modulation of neuroinflammatory and cardiac autonomic neuropathic effects of endotoxemia”

2. Dr. Suleiman Al-Sabah (Associate Professor & Acting Chairman)  
Title: "The continuing tail of two receptors"
3. Dr. Rashed Al-Hammad (Teaching Assistant)  
Title: "The role of protein disulfide isomerase A1 in breast cancer diagnosis and treatment"
4. Dr. Mubeen Ansari (Assistant Professor)  
Title: "Compromised cellular plasticity is a leading factor in the progression of Alzheimer's disease"
5. Dr. Ghanim M.G. Al-Khaledi (Lab Physician)  
Title: "Hormonal profile following Sleeve Gastrectomy (SG) in diet induced obesity rat model"
6. Ms. Bashaier J. Al-Zaid (Ph.D. Pharmacology Student)  
Title: "Exploring the Untapped Potentials of G Protein-Coupled Receptors"
7. Ms. Dina M. Jragh (Ph.D. Pharmacology Student)  
Title: "Tryptamine-induced increase in perfusion pressure of the perfused kidney: role of TAAR1 and signaling mechanism"
8. Ms. Neha Munawar (Ph.D. Pharmacology Student)  
Title: "The role of the central monoaminergic system in diabetic neuropathic pain"

## **CLINICAL SERVICES**

### **A. Therapeutic Drug Monitoring (TDM) and Toxicology Services**

Our TDM laboratory has continued to provide high quality Therapeutic Drug Monitoring Services to all the hospitals in Kuwait. As in the previous year, the unit focused on anticancer, antiepileptic and immunosuppressive drugs. We are currently preparing to start the Clinical Toxicology service that will focus on detection of drugs of abuse or poisoning in general.

The total number of tests performed for the different hospitals during November 2020 to May, 2021 was 1200. The detailed report has been submitted to the Ministry of Health. Quality assurance tests, assessed by external quality assurance (EAQ) schemes of LGC standard proficiency testing, UK, continued on a monthly basis and the results are very satisfactory.

## **HEALTH AND SAFETY ISSUES**

With regard to health and safety situation the following are the main updates:

The 7 Fume hoods in our Department are still under maintenance contract and are working properly.

Due to the Covid -19 situation, the work in the Department is continuing with 60 % staff as per University regulations. All the Departmental staff are adhering to the University

regulations by wearing masks, social distancing, avoiding gatherings etc. The Majority of Staff have been vaccinated too.

## **CONTRIBUTIONS TO COMMUNITY SERVICE**

### a) Participation in Ministry/Government Activities

1. Toxicology Service Committee Members:  
Dr. S. Al-Sabah (Co-ordinator) (since 8<sup>th</sup> December, 2019, Acting Chairman)  
Dr. Kamal Matar Obeid (Faculty of Pharmacy)  
Dr. Jaber Al-Jaber  
Drug Monitoring & Toxicology Service  
Ministry of Health Hospitals.
2. Dr. Jaber Al-Jaber  
Seconded to Ministry of Interior, General Department of Criminal Evidences Identification. (1 day per week).
3. Prof. M.S. Bitar  
Seconded to Dasman Diabetes Institute Kuwait, one day per week.

### b) Offices held in professional organizations

Prof. Mahmoud M. El-Mas

**2010** - American Heart Association (AHA, membership No. 171315005).

**2007** - American Society for Pharmacology and Experimental Therapeutics (ASPET, membership No. 10604).

**1985** - Egyptian Society for Pharmacology and Experimental Therapeutics (ESPET).

**1987** - Egyptian Society for Toxicology.

**1982** - Egyptian Syndicate of Pharmacists

### c) Advisory editor services for professional journals

1. Prof. Charles I. Ezeamuzie  
Member, Editorial Board, West African Journal for Pharmacology and Drug Research
2. Dr. Suleiman Al-Sabah  
- Member of the Editorial Board, Medical Principles and Practice  
- Reviewer for:  
Frontiers in Pharmacology,  
Life Sciences  
ACS Pharmacology & Translational Science  
Scientific Reports
3. Prof. Mahmoud M. El-Mas  
- Associate Editor, Frontiers in Pharmacology (section: Cardiovascular and Smooth Muscle)



- Reviewing 18 papers for reputable International Journals

d) Active participation in professional conferences

Dr. Suleiman Al-Sabah

- Pharmacology 2020 Meeting

Dr. Munya Al-Fulaij

- Attended British Pharmacological Society Annual Pharmacology Meeting (December 2020)

Prof. Mariam Yousif

- 25th Health Sciences Centre Poster Conference, 16-18th March 2021. (Two posters for M.Sc. and Ph.D. Students)

e) Service as external examiners outside Kuwait

Dr. Suleiman Al-Sabah

- MSc. College of Science, United Arab Emirates University, UAE
- PhD. Department of Biomedical Sciences, University of Copenhagen, Denmark

f) Contribution to Committees in the Faculty of Medicine

1. Dr. S. Al-Sabah (Acting Chairman of Dept. since Dec. 8<sup>th</sup>, 2019)

- Chairman, Departmental Promotion, Appointment and Contract Renewal Committee
- Chairman, Medical Pharmacology Exam Committee
- Chairman, Department Scholarship Committee
- Coordinator, Toxicology Service Committee
- Graduate Program Committee Member M.Sc. in Biomedical Sciences
- Overall Coordinator for the Phase II Digestive Module

2. Prof. C. I. Ezeamuzie

- Member, Department of Pharmacology & Toxicology Scholarship Committee
- Coordinator, Department of Pharmacology & Toxicology Research Committee
- Member, Department of Pathology Promotion Committee
- Member, Department of Microbiology PhD Exam Committee

3. Prof. M.A. Oriowo

- Member, Departmental Graduate Program Committee (M.Sc. & Ph.D.)
- Member, Medical Pharmacology Exam Committee
- Member, Departmental Promotion, Appointment and Contract Renewal Committee
- Member, Faculty Promotions Committee

4. Prof. M.S. Bitar

- Member, Medical Pharmacology Exam Committee
- Dept. Representative to Faculty Scientific Affairs Advisory Committee

- Coordinator, Dept. Budget Committee
5. Prof. M. El-Mas
    - Member, Medical Pharmacology Exam Committee
    - Member, Departmental Graduate Program Committee (M.Sc. & Ph.D.)
    - Member, Department Research Committee
    - Coordinator of Dept. Seminars and Journal Club
  6. Prof. M. Yousif
    - Dept. Graduate Program Director (M.Sc. & Ph.D.)
    - Member, Department Scholarship Committee
    - Member, Departmental Promotion, Appointment and Contract Renewal Committee
    - Member of seven and Chairperson of one Faculty Promotion Review Committees
    - Chairperson of Committee for Best Teacher Award at Faculty of Medicine (2020/2021)
  7. Dr. A. Shihab-Eldeen
    - Member, Department Budget Committee
  8. Dr. S. M. Karam
    - Medical Pharmacology Chief Invigilator
    - Member, Department Budget Committee
    - Member, Department Scholarship Committee
    - Member, Departmental Promotion, Appointment and Contract Renewal Committee
  9. Dr. M. Al-Fulaij
    - Member, Departmental Graduate Program Committee (M.Sc. & Ph.D.)
    - Member, Department Research Committee
    - Member, Departmental Promotion, Appointment and Contract Renewal Committee
    - Member, Department Scholarship Committee
    - Departmental Council Secretary
    - Member of the Faculty Instrument Committee
    - Kuwait University Faculty of Medicine Accreditation Liaison Officer
  10. Dr. J. Al-Jaber
    - Member, Toxicology Service Committee
    - Coordinator of Medical Pharmacology Course/Exams
    - Member, Department Budget Committee
    - Department Safety Officer
  11. Dr. M. Ansari
    - Member, Department Research Committee
    - Member, Medical Pharmacology Exam Committee
    - Department Library Representative
    - Member & Secretary, Phase II Year 2, Exam Committee

g) Contribution to Committees outside the Faculty

Prof. C.I. Ezeamuzie

- Member of the Departmental Promotion Committee, Dept. of Pharmacology and Therapeutics, Faculty of Pharmacy.
- Member, Faculty of Dentistry Promotion Committee

Prof. M. M. El-Mas

- Member of the Departmental Promotion Committee, Dept. of Pharmacology and Therapeutics, Faculty of Pharmacy
- Member of Phase II Examination Committee, Faculty of Medicine, Kuwait University.

h) Patents

Prof. Mahmoud M. El-Mas

United States Patent

Issued by: United States Patent and Trademark Office

Patent No: US 10,653,666 B1

Application No: 16/41,826

Date of Patent: May 19, 2020

Title: Cardioprotective nano-pharmaceutical formulation

Inventors: Usama A. Fahmy, Noura A. Hassan, Ahmad S. Azhar, Mahmoud M. El-Mas, Hany El-Bassossy.

## CONCLUSION

Overall, during the academic year 2020-2021, the Department of Pharmacology and Toxicology continued to fulfil its objectives in teaching, research and community service. The highest quality of education in pharmacology and toxicology, appropriate for students at undergraduate, graduate, and postgraduate levels has been provided. The department continued its commitments to provide high quality service to the community through the TDM/Clinical Toxicology service. The Department has used the available resources most efficiently.

Our future plans include:

- To continue to support the administration in order to implement the vision of the Faculty of Medicine.
- To hire more qualified young Kuwaiti staff members and provide them with appropriate training so that they can successfully continue the mission of the Department.
- Encourage staff to increase funded research projects and international collaborations.
- To improve our TDM/Clinical Toxicology service by developing new and unique clinical assays.
- To start providing toxicological screening service.
- To establish a poison centre in Kuwait University.

# **PHYSIOLOGY**

## **Introduction.**

Department of Physiology has two objectives, which are:

- a. Education and training of undergraduate and postgraduate students;
- b. Scientific research that is aimed to explore pathophysiological mechanisms involved in pathogenesis of diseases that represent a challenge to modern society.

The department teaches students of four faculties that belong to Health Science Centre (HSC): Medicine, Dentistry, Pharmacy and Allied Health Sciences. This includes:

1. Biology for health sciences, a course for 1<sup>st</sup> year HSC students;
2. Biophysics course to 1<sup>st</sup> year HSC students;
3. Foundation block, which is offered to 2<sup>nd</sup> year medical and dental students;
4. Eight Phase II System Modules (for the 3<sup>rd</sup> and 4<sup>th</sup> year students of medicine and dentistry).
5. Four elective courses for the fourth-year medical students;
6. Human Physiology course for the Faculty of Allied Health students;
7. Neuroscience course for the Faculty of Allied Health Physical Therapy students;
8. Exercise Physiology for the Faculty of Allied health students;
9. Contributes to cardiopulmonary rehabilitation course for the Faculty of Allied health students.
10. Systems Physiology course for the 2<sup>nd</sup> year Pharmacy students.

Details of these courses could be found below.

The department also runs 2 full-time graduate programs: M. Sc. and Ph.D. in physiology and contribute to 2 inter-departmental graduate programs: M.Sc. in Biomedical Sciences and M.Sc. in Molecular Biology. Currently we have 5 students enrolled in the M.Sc. program in Physiology and 4 in the Ph.D. program in Physiology. Also, five students that are enrolled in MSc Program in Biomedical Sciences are doing their research theses in the Department. We offer more than 10 graduate courses to graduate students.

Scientific research in the department has produced results that were published in reputed international journals. The staff members run many funded and unfunded research projects and all specialized research laboratories are actively engaged in research in addition to training graduate students.

In addition to academic staff members, six teaching assistant and two scientific assistants are employed in the department of Physiology; they are involved in various aspects of teaching including practicals, tutorials and remedial sessions.

### **Teaching Programs.**

#### **A. Undergraduate Physiology.**

##### **1. Biology Course for Pre-Professional Program.**

Our department participated for few hours of teaching “Biology for Health Sciences” course, which is a part of the pre-professional program. This course is conducted in collaboration with staff from the departments of Microbiology and Biochemistry. A total of 186 students took this course in the current academic year.

##### **2. Biophysics Course (No. 1400141) for Pre-Professional Program.**

Three academic staff members from the Department (Biomedical Engineering Unit) participated in the teaching of Biophysics 3 credit hours course, which is a part of the pre-professional program for a total of 186 students in the current academic year.

##### **3. Foundation block – Cellular and general physiology**

This is a Faculty of Medicine based block for Phase II students (second year) that is delivered by basic sciences departments. Department of Physiology delivers lectures and tutorials on general and cellular physiology. These topics are important as a basic knowledge in order to follow physiology of the body systems, which is mainly taught in the modules during the 3<sup>rd</sup> and 4<sup>th</sup> year. There were 156 students taking this course during the current academic year.

#### **4. System Modules.**

The highest teaching load for the department is in delivering lectures, tutorials, PBL session and practical for the system modules in the phase 2 (3<sup>rd</sup> and 4<sup>th</sup> year) for Medical and Dental students. The following system modules were taught:

- Blood & lymph,
- Cardiovascular system,
- Respiratory system,
- Endocrine system,
- Musculoskeletal system,
- Nervous system
- Renal system
- Reproduction & Breast
- Digestive System.

#### **5. Elective courses for Phase II.**

The department offered four elective courses this academic year:

- Neurocardiology and Cardiovascular Regulation
- Introduction to Scientific Research in Physiology
- Assessment of the Respiratory System Functions
- Hormones and Behavior

#### **6. Systems Physiology Course for Pharmacy students.**

A total of 66 students from Faculty of Pharmacy took the Systems Physiology Course. This course provides them with basic knowledge on how body systems work.

#### **7. Physiology courses for students from Faculty for Allied Health Sciences.**

The department offered three courses and participates in one course to students in the Faculty of Allied Health. These include: Physiology (course# 0530- 152), Exercise Physiology (course# 0530- 362), Neuroscience (course# 0530-310) and Cardiopulmonary rehabilitation (Course# 0530-312).

**B. Graduate programs.**

**(i) M. Sc. Program.**

Currently there are 4 students in this program. Three students were recommended for admission for the next academic year. In addition, a student that is enrolled in M.Sc. program in Biomedical Sciences is completing MSc thesis in the department at present.

**(ii) Ph.D. Program**

Department of Physiology delivers the oldest Ph.D. program in FOM and KU. We have 4 students in this program at present. This academic year two student was enrolled in addition to three senior students.

**C. Research.**

At present, there are 27 funded ongoing research projects in the department. In addition to that there are 5 unfunded research projects, which are mainly pilot studies. Results obtained from ongoing or completed research grants have been published in peer reviewed publications in international scientific journals.

**D. Conclusion.**

This academic year was successful for the department, though very challenging because of the Covid pandemic and online teaching. The Department still faces problems due to a rigid and bureaucratic regulations in Kuwait University in regard to equipment purchase, research grants implementations and graduate students' admissions. Yet, the department achieved steady progress in its academic pursuit during the current academic year. So, stated missions and broad objectives of the department were completed successfully.



## ACADEMIC STAFF

### 1. Full time Faculty Members:

Dr. Zoran B. Redzic, MD, M.Sc., Ph.D.

Professor, General Physiology and Neurophysiology

Chairman of the Department

Dr. Naji.S. Al-Zaid, B.Sc., Ph.D.

Professor, Connective Tissue and Cell Biology

Dr. Waleed B. Shuaib, B.S., M.S., M.S., Ph.D.

Professor, Neurophysiology,

Director, OMICS-RU RCF, Health Sciences Center.

Dr. Maie D. Al-Bader, B.Sc., M.Sc., Ph.D.

Professor, Endocrine and Reproductive Physiology

Vice Dean Administration & Finance, Faculty of Medicine.

Dr. Jasem Ramadan Al-Kandari, B.Sc., M.Sc., Ph.D.

Associate Professor, Exercise Physiology

(passed away on 26<sup>th</sup> March 2021)

Dr. Marian Turcani, M.D., Ph.D.

Associate Professor, Cardiovascular Physiology

Dr. Hameed Al-Sarraf, B.Sc., Ph.D.

Associate Professor, Blood-brain barrier and exercise physiology

Dr. Abdeslam Mouihate, B.Sc., M.Sc., Ph.D.

Associate Professor, Neuroimmunology

Dr. Fawzi Babiker, B.Sc., M.Sc., Ph.D.

Associate Professor, Cardiovascular Physiology

Dr. Slava A. Malatiali, M.Sc., Ph.D.

Assistant Professor, Renal Physiology

Dr. Ali K. Bourisly, B.S.,M.Sc., Ph.D.

Assistant Professor, Biomedical Engineering, Bio-imaging

Dr. Ali S. Shuaib, B.S., M.S., Ph.D.

Assistant Professor, Biomedical Engineering, Bio-imaging

Director [Biomedical Engineering Unit]

Dr. Laila K. Habib, B.S., M.S., Ph.D.

Assistant Professor, Biomedical Engineering, Bio-imaging

Dr. Raed O.M. Al-Hawaj, Ph.D.

Assistant Professor, Cardiovascular Physiology

Dr. Salwa A.A. Abdullah, Ph.D.

Assistant Professor, Cardiovascular Physiology

Dr. Sonia M. Hashimi, Ph.D.

Assistant Professor, Neurophysiology

Dr. Noor Al-Sabeeh, Ph.D.

Assistant Professor, Gastrointestinal Physiology

Dr. Fatemah S. Safar, Ph.D.

Assistant Professor, General Physiology

**Ph.D. Scholarship students:**

Nil

2. **Teaching Assistants.**

Dr. Elham A.R. Ghadhanfar, M. Sc., Ph.D.

Dr. Maryam Mohammed A. Al-Awadi, Ph.D.

Ms. Shirin S. Mohammadi, M.Sc.

Ms. Aseel A. El-Farra, M.Sc.

Ms. Maryam Al-Qaryyan, B.Sc., M.Sc.

Ms. Mai Abul, B.Sc., M.Sc.

3. **Lab. Physicians**

Nil

4. **Clinical Tutors.**

Nil

5. **Visiting Professors and External Examiners.**

Nil

**SUPPORT STAFF**

1. **Research and Scientific Assistants.**

Ms. Mini M. Varkey, B.Sc., M.Sc.

Scientific Assistant.

Ms. Ruqayyah Al-Hashem, B.E.

Biomedical Engineer

2. **Technicians.**

Mr. Shaji Joseph, B.Sc., M.Sc.

Chief Technician

Ms. Glory J. Alexander, B. Sc., B.Ed.

Senior Technician.

Ms. Nasreen S.A. M. Maleekah, B. Vet. Sc.

Technician.

Ms. Beena Joseph Sebastian, B.Sc.

Technician.

Ms. Bini Sreenesh, M.Sc.

Technician, Biological Researcher.

Ms. Sajida Tappa, B.Sc.

Technician, Biological Researcher

3. **Secretaries.**

Mr. Mohannad Abdullah Al-Ruwaili

**APPOINTMENTS / RECRUITMENTS / PROMOTIONS / RETIREMENTS.**

1. **New Academic Staff / offered appointment**  
Nil.
2. **New Teaching Assistant/Laboratory/Research/Office staff appointed.**  
Nil.
3. **Promotions.**  
Nil.
4. **Staff Leaving the Department.**  
Dr. Jasem Ramadan, Associate Professor (Passed Away).  
Ms. Deepa Varghese, Technician (Resigned).  
Ms. Anju Devassy, Engineer (Resigned).  
Ms. Susan Cherian, Senior Technician (Resigned).  
Ms. Cijy Thomas, Junior Laboratory Analyst (Contract Terminated).  
Ms. Amal Thomas, Technician, Biological Researcher (Contract Terminated).  
Ms. Grace Gejo, Engineer, (Contract Terminated).  
Ms. Farah M. Nejad, Scientific Assistant (Contract Terminated).

**GRADUATE STUDENTS:**

**M. Sc. Students:**

**Thesis supervision**

1) Mr. Hamed Hatem Al-Sadoun:

**Dr. Hameed A. AlSarraaf, Supervisor**

**Prof. Maie Al-Bader, Co-Supervisor**

**Research Thesis Title:** “Effect of Resistance Exercise on Local Sex Steroidogenesis in rat Skeletal Muscle”.

**Funding:**

Kuwait University

**Status:**

Ongoing

2) Ms. Sara Khamisi: **Dr. Slava Malatiali, Supervisor**

**Research Thesis Title:** “Effects of angiotensin (1-7) on podocytes of obese type 2 diabetic mice: Do miRNAs have a modulatory role?”

**Funding:** Kuwait University

**Status:** On going

3) Mr. Ali Fouad **Dr. Fawzi Babiker, Supervisor**

**Research Thesis Title:** “Involvement of apocynin, an NADPH oxidase inhibitor, in the protection of the heart against ischemia reperfusion injury”

**Funding:** Kuwait University

**Status:** Ongoing

4) Ms. Fatema Al-Shammari **Dr. Hameed Al-Sarraf, Supervisor**

**Research Thesis Title:** “Investigating the Effect of Resistance Exercise on the Recovery from Brain Injury”

**Funding:** Kuwait University

**Status:** Ongoing

5) Retaj Al-Harbi **Research Title and Supervisor: To Be Decided**

6) Ghada Al-Adawi **Research Title and Supervisor: To Be Decided**

## 7. **Ph. D. Students.**

1) Ms. Mai Abul **Supervisor: Dr. Abdeslam Mouihate**

**Co-supervisor: Prof. Maie Al-Bader**

**Research Title:** The Impact of prenatal exposure to synthetic glucocorticoid on rat brain’s cognitive function and plasticity during adulthood.

**Funding:** College of Graduate studies & Research  
Sector

**Status:** Ongoing.

**Project No.:** YM11/17

2) Ms. Aisha Al Kouh **Supervisor, Dr. Fawzi Babiker**

**Co-supervisor: Prof. Maie Al-Bader**

**Research Title:** The protection of the Diabetic heart against Ischemia-Reperfusion Injury: Potential Protection by some drugs.

**Funding:** College of Graduate studies

**Status:** ongoing.

3) Mr. Hamad Al-Rajhi

**Supervisor, Dr. Jasem Ramadan**

**Research Title:** Investigating the effect of resistance Exercise on Inflammation and Trauma Recovery.

**Funding:** College of Graduate studies

**Status:** Ongoing.

4) Ms. Rawan Muneer I.M. Barakat

**Supervisor, Prof. Zoran Redzic**

**Co-supervisor: Prof. Maie Al-Bader**

**Research Title:** Autocrine and paracrine signaling pathways that enable survival of neural cells in hypoxic rat brain.

**Funding:** College of Graduate studies

Research Sector (YM 05/18)

**Status:** Ongoing.

5) Ms. Zeinab Samy

**Supervisor, Prof. Zoran Redzic**

**Co-Supervisor: Prof. Maie Al-Bader**

**Research Title:** Effect of estradiol signaling on secretion of cytokines and growth factors and cell death in the rat brain during middle cerebral artery occlusion.

**Funding:** To be announced

**Status:** Course work ongoing.

## TEACHING

### I. Undergraduate teaching

#### 1. Faculty of Medicine

##### i) System modules

(a) Lectures : 118 hours

(b) Problem Based Learning (PBL) : 241.5 hours

- (c) Tutorials : 50 hours
- (d) Practicals : 20 hours
- (e) Elective course (Hormones and Behavior) : 18 hours

**ii) Biophysics Course for Phase I - Course No. 1400141**

- Total teaching hours - 76 hours
- Coordinator: - Dr. Ali K. Bourisly

**Total undergraduate teaching hours to Faculty of Medicine students: 523.5 hours**

**2. Other faculties of the Health Sciences Centre**

**i) Physiology for Faculty of Pharmacy students course no 530- 152**

- Lectures - 40 Hours
- Tutorials - Nil
- Practicals - Nil
- Course Coordinator - Dr. Sonia Al-Hashemi

**ii) Physiology for Allied Health Sciences Students Course no 530- 152**

- Lectures - 47 Hours
- Practicals - 8 Hours
- Course Coordinator - Dr. Hameed A. Al-Sarraf

**c. Neurosciences for Allied Health Students Course no 530- 310**

- Lectures - 13 Hours
- Practicals - Nil
- Course Co-ordinator - Dr. Hameed Al-Sarraf

**E. Faculty of Dentistry.**

- Lectures : 20hours
- Tutorials : Nil
- Practicals : 0 hours
- PBLs : 0 hours

**Total teaching hours to other faculties this year: 128 hours.**

## II. Graduate teaching (M.Sc./Ph.D.)

Program Director: Dr. Marian Turcani  
Program Committee: Prof. Maie Al-Bader  
Dr. Hameed A. Al-Sarraf  
Dr. Fawzi Babiker  
Dr. Abdeslam Mouihate

Lectures	:243
Tutorials/Seminars	:28
Practicals	: 15
Thesis Supervision	:570

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**Total Teaching Hours in Graduate Programs: 286 Hours.**

**Total Thesis Supervision Hours in Graduate Programs: 570 Hours.**

## RESEARCH AND PUBLICATIONS.

### (4) Research Grants/Projects

#### (a) Funded.

1. Title: The impact of prenatal exposure to synthetic glucocorticoids on rat brain's cognitive functions and plasticity during adulthood. Research Project No.YM11/17

Funding: Research Sector, Kuwait University

Status : Ongoing

Principal Investigator: Dr. Abdeslam Mouihate

Co-Investigator: Prof. Maie Al-Bader
2. Title: The role of sodium transporters in dexamethasone-induced programmed hypertension and the effect of melatonin.

Funding: Research Administration Kuwait University

Grant Number: YM 01/17

Principal Investigator: Prof. Maie Al-Bader, Dept. of Physiology

Co-investigators: Dr. Slava Malatiali - Dept. of Physiology,



3. Title: Development of Artificial Intelligence (AI) – based Preliminary Screening Tool for Detecting Novel Corona Viruse Disease (Covid-19) from Computed Tomography (CT) Scan Images: An Investigative Study  
 Funding: KFAS  
 Grant Number:  
 Co-investigators: Dr. Ali Bourisly
4. Title: The Effect of Progesterone Administration on the Expression of Metastasis Tumor Antigens (MTA1 and MTA3) in Placentas of Normal and Dexamethasone-Treated Rats  
 Funding: Research Administration Kuwait University  
 Grant Number: MY 01/17  
 Principal Investigator: Prof. Maie Al-Bader, Dept. of Physiology  
 Co-investigators: Dr. Mariam Al-Awadi - Dept. of Physiology
5. Title: The effect of prenatal exposure to dexamethasone on renal expression of glucose transporters in the rat fetus and off spring  
 Funding: Research Administration Kuwait University  
 Grant Number: MY02/16  
 Status: On going  
 Principal Investigator: Dr. Slava Malatiali - Dept. of Physiology,  
 Co-investigators: Prof. Maie Al-Bader, Dept. of Physiology  
 Dr. Mariam Al-Awadhi – Dept. of Physiology
6. Title: The Protection of the Diabetic Heart against Ischemia-Reperfusion Injury: Potential Protective Pharmacological Strategies.  
 Funding: RS Kuwait University  
 Grant Number: YM 01/18  
 Status : Ongoing  
 Principal investigator: Dr. Fawzi Babiker  
 Co-Investigator: Prof. Maie Al-Bader.
7. Title: Role of the Angiotensin II/ Angiotensin 1-7 Axis in Hyperthyroidism-induced Renal Hypertrophy

- Funding: Funded  
 Status: Ongoing  
 Principal Investigator: Slava Malatiali
8. Title: Expression of Metastasis Tumor Antigen 2 in Dexamethasone-Induced Intrauterine Growth Restriction and the Possible Role of Melatonin  
 Funding: Research Administration Kuwait University  
 Grant Number: MY01/20  
 Principal Investigator: Prof. Maie Al-Bader
9. Title: Does Melatonin Modulate the Effect of Dexamethasone on the p53 Signaling Pathway in Rat Placentas?  
 Funding: Research Administration, Kuwait University (with referee)  
 Grant Number: YM03/20  
 Principal Investigator: Prof. Maie Al-Bader
10. Title: Involvement of apocynin, an NADPH oxidase inhibitor, in the protection of the heart against ischemia reperfusion injury  
 Funding: Research Administration, Kuwait University  
 Grant Number: YM05/20  
 Principal Investigator: Dr. Fawzi Babiker  
 Co-Investigator: Mr. Ali Mohammad – M.Sc. Student - Dept. of Physiology, FOM, Kuwait University; Prof. Maie Al-Bader - Dept. of Physiology, FOM, Kuwait University
11. Title: Autocrine and paracrine signaling pathways that enable survival of neural cells in hypoxic rat brain  
 Funding: funded  
 Status : on going  
 Principal investigator: Prof. Zoran Redzic  
 Co-investigators: Dr. Kamal Matar, Ms. Rawan Barakat
12. Title: Cytokines and chemokines in the cerebrospinal fluid – their role in the signaling processes during hypoxia in the rat.  
 Funding: funded  
 Status : on going  
 Principal investigator: Prof. Zoran Redzic  
 Co-investigators: Dr. Hameed Al-Sarraf, Ms. Rawan Barakat

13. Title: Effects of estradiol signaling on secretion of cytokines and growth fact and cell death in the rat brain during middle cerebral artery occlusion.
- Funding: Submitted to RS for Funding
- Status : on going
- Principal investigator: Prof. Zoran Redzic
- Co-investigators: Prof. Maie Al-Bader, Ms. Zeinab Sayed
14. Title: The Effects of Aerobic and Resistance Exercise compared to Sedentary lifestyle on Rat Colon Genetic Expression
- Funding: Research Administration Kuwait University
- Grant Number: YM04/20
- Principal Investigator: Prof. Maie Al-Bader - Dept. of Physiology, FOM, Kuwait University.
- Co-investigators: Ms. Rawan El Abd – Undergraduate Medical Student – M.Sc. Biomedical Sciences Program, Faculty of Medicine.
15. Title: A new model for resistance exercise in rats: measuring physiological parameters in sedentary and exercised rats.
- Status: Final Report Submitted
- Funding: Research Sector, Kuwait University
- Grant Number: MY02/17
- Co-Investigator: Dr. Abdeslam Mouihate
16. Title: Investigating the effect of resistance exercise on recovery from brain injury.
- Status: Ongoing
- Funding: Research Sector, Kuwait University
- Grant Number: YM09/20
- Co-Investigator: Dr. Abdeslam Mouihate
17. Title: The contribution of interleukin-6 to prenatal immune-induced alteration in GABAergic neurons in the prefrontal cortex.
- Status: Submitted to RS
- Funding: Research Sector, Kuwait University
- Grant Number: YM04/21
- Principal Investigator: Dr. Abdeslam Mouihate
18. Title: Cytokines and chemokines in the choroid plexuses during hypoxia – the role in the signaling processes.

Funding: submitted to RS for funding  
Status : on going  
Principal investigator: Prof. Zoran Redzic  
Co-investigators: Mr. Abbas Akbar (M.Sc. Biomedical Student).

## **b. Projects - Unfunded**

1.Title: Stroke volume estimation from telemetrically recorded arterial  
Pressure wave

Funding: unfunded  
Status : on going  
Principal investigator: Dr. Marian Turcani  
Co-investigators: Dr. Elham Ghadhanfar.

2.Title: Are Bax and JNKs involved in inhibition of placental  
growth in Dexamethasone- induced intrauterine growth  
restriction in rats?

Principal Investigator: Prof. Maie Al-Bader  
Funding: Unfunded  
Status: Ongoing

3.Title: Long-lasting impact of maternal IL-6 on offspring's brain  
plasticity

Principal Investigator: Dr. Abdeslam Mouihate  
Funding: Unfunded  
Status: Ongoing

## **B. PUBLICATIONS.**

### **a. Research papers: Full paper Publications:**

Mouihate A. and Kalakh S. (2021). Maternal interleukin-6 hampers hippocampal neurogenesis in adult rat offspring in a sex dependent manner. *Developmental Neuroscience (accepted for publication)*.

Mouihate A. and Kalakh S. (2020). Ganaxolone enhances microglial clearance activity and promotes remyelination in focal demyelination in the corpus callosum of ovariectomized rats. *CNS Neuroscience and Therapeutics* 26(2):240-250. (doi: 10.1111/cns.13195.) (Project No. YM 02/16).

Salah, L., Etherington M. K., Shuaib, A., Danos, A., Nazeer, A. A., Ghazal, B., Prlj, A., Turley, A. T., Mallick, A., McGonigal, P. R., Curchod, B. F. E., Monkman, A. P., Makhseed S. (2020) Suppressing Dimer Formation by Increasing Conformational Freedom in Multi-

Carbazole Thermally Activated Delayed Fluorescence Emitters. *Journal of Materials Chemistry C*, 9, 189-198

Shuaib. A., Bourisly A. K., Alazmi, E. (2020) Fluence as a function of weight: A Photobiomodulation Therapy (PBMT) Spinal cord injury (SCI) Rat Model – A Computational Study. *IEEE Photonics*, 12:6, 3700808

Shuaib, A., Arian, H., Shuaib, A., (2020) The Increasing Role of Artificial Intelligence in Health Care: Will Robots Replace Doctors in the Future?. *International Journal of General Medicine*, 13:891-896

M. Murugappan, Waleed Alshuaib, Ali K. Bourisly, Smith K. Khare, Sai Sruthi, Varun Bajaj; Tunable Q Wavelet Transform based Emotion Classification in Parkinson's Disease using Electroencephalography; *PLOS ONE*

Babiker F, Al-Jarallah A and Devassy A. Discrepancy of Tumor Necrosis Factor- $\alpha$  Monoclonal Antibodies and Receptor Antagonist, Etanercept in the Protection of the Heart against Ischemia/Reperfusion Injury. *Journal of Basic Medical Sciences*. A draft accepted for publication 2021.

Gouda E. And Babiker F. Micronized flavonoid fraction Daflon 500 protects heart against ischemia–reperfusion injury: an old medicine for a new target. *Frontiers in life Science* 2020 Oct :13(1): 556–568.

Babiker F, Saghir Akhtar and Ibrahim Benter. Nanotoxicology of Dendrimers in the Mammalian Heart: ex vivo and in vivo Administration of G6 PAMAM Nanoparticles Impairs Recovery of Cardiac Function Following Ischemia-Reperfusion Injury. *International Journal of Nanomedicine* 2020:15 4393–4405.

Amr Osman, Majeda Al-Zuabi, Nada Ayed, Modhi Khaled, Shaikhah Al-Houli<sup>1</sup>, Mariam Alqaryyan, Narayana Kilarakaje, and Maie D. Al-Bader, Are BAX and JNK involved in inhibition of placental growth in dexamethasone-induced intrauterine growth restriction in rats? *International Journal of Molecular Biology: Open Access* 2020.

Narayana Kilarakaje, Mariam Al-Qaryyan, Maie D. Al-Bader, Trans-resveratrol imparts disparate effects on transcription of DNA damage sensing/repair pathway genes in euglycemic and hyperglycemic rat testis *Toxicology and Applied Pharmacology*. May 1;418:115510. doi: 10.1016/j.taap.2021.115510, 2021.

Mariam Alawadhi, Farah R Al Shammari, Fatemah H Ali, Rama J Almatar, Ayat H Al-Duwaikhi, Maie D Al-Bader. The Effect of Progesterone Administration on the Expression of Metastasis Tumor Antigens (MTA1 and MTA3) in Placentas of Normal and Dexamethasone-Treated Rats (submitted).

M. Alawadhi, A. Mouihate, N. Kilarakaje, M. D. Al-Bader. Progesterone partially recovers placental GLUTs in DEX-induced intrauterine growth restriction (submitted).

Giulia Poli; **Sonia Hasan**; Silvia Belia; Marta Cenciarini; Stephen J. Tucker; Paola Imbrici; Safa Shehab; Mauro Pessia; Stefano Brancorsini; Maria Cristina; D'Adamo. *Kcnj16(Kir5.1)*

Gene Ablation Causes Subfertility and Increases the Prevalence of Morphologically Abnormal Spermatozoa; *Int. J. Mol. Sci.*; 27 May 2021 (ISSN 1422-0067)

**b. Communications at scientific conferences (posters or oral):**

Elham Ghadhanfar, Marian Turcani: Comparison of the hypotensive effect of captopril and apocynin. 25<sup>th</sup> HSC Poster Conference Abstract book, Kuwait, 2021

Shuaib, A., Bourisly, A. K., Alazmi, E. (2020) Photobiomodulation therapy (PBMT): the effect of weight of rat on the delivered fluence to spinal cord Injury rat model-computational study, Proc. Paper X11363, Tissue Optics and Photonics, 113631S. (poster presentation)

Ali Bourisly, Torrance Festival of Ideas conference (online), The Torrance Center for Creativity and Talent Development, Mary Frances Early, College of Education, University of Georgia; April 23-25 2021 (attendee)

Cryptocurrency Research Conference (online), ICMA Centre, Henley Business School, University of Reading, Greenlands, UK; September 2020 (attendee)

M. Murugappan, Waleed B Alshuaib, Ali Bourisly, Sai Sruthi, Ranjana R; Recurrence Quantification Analysis based Emotion Detection in Parkinson's disease using EEG Signals; 2020 4<sup>th</sup> International Conference on Computer, Communication, and Signal Processing (ICCCSP). (Conference Proceeding)

M. Murugappan, Waleed B. Alshuaib, Ali Bourisly, A M Mutawa, Wan Khairunizam, Sai Sruthi, Bibin Shalini, Wen Yean; *Emotion Classification in Parkinson's Disease EEG using RQA and ELMI*; 16<sup>th</sup> IEEE Colloquium on Signal Processing and its Applications. (Conference paper)

Mai Abul, Maie Al-Bader, Abdeslam Mouihate, Prenatal exposure to dexamethasone alters the gene expression of cox-2 and pge2 receptors in the rat hippocampus and prefrontal cortex and enhances anxiety-like behavior in a sex-specific manner. 25<sup>th</sup> Health Sciences Centre Poster Conference, Kuwait University, 16<sup>th</sup>-18<sup>th</sup> March 2021, Kuwait.

Mai Abul, Maie Al-Bader, Abdeslam Mouihate, Female rats are more prone to impaired cognitive and behavioral functions due to prenatal dexamethasone exposure: Role of COX-2. 2021

Mazyad Almazayad, Saleh Abdulkareem, Abdulaziz AlHammad, Mariam Alqaryyan, Maie Albader, Kilarkaje Narayana, Interactions between MTA proteins and ERs in Testis of Type1 Diabetic Rats with and without Resveratrol Supplementation. 2021

**c. Books:**

Neurocryptoeconomics, Author: **Ali K. Bourisly** (First book in the world on Neurocryptoeconomics)

M Murugappam, Smith K. Khare, Waleed Alshuaib, **Ali K Bourisly**, Varun Bajaj, G. R. Sinha; Electroencephalogram Signals based Emotion Classification in Parkinson's Disease

using Recurrence Quantification Analysis and Nonlinear Classifiers; Computer-aided Design and Diagnosis Methods for Biomedical Applications; CRC Press. (Book Chapter).

**Contributions:**

a) **Participation in Ministry/Government activities.**

Nil

b) **Professional organizations.**

**Maie Al-Bader**

Affiliate Member, Society for Endocrinology, U.K., since 1994.

Affiliate Member, European Society of Endocrinology, Belgium, since 2004.

Affiliate member of Society for Reproductive Investigation, USA, since 2016.

**Abdeslam Mouihate**

Member, The Society for Neuroscience

Member, The International Brain Research Organization

Member, The International Society of Neuroimmunology

**Ali K. Bourisly**

The Society for Modeling and Simulation International

Organization of Human Brain Mapping

Founding Member: Kuwait Association of Biomedical Engineering –Kuwait Society of Engineers.

**Zoran B. Redzic**

Member of The Physiological Society

Member of Society for Neurosciences

**Ali S. Shuaib**

Optical Society of America (OSA)

Society of Photo-Optical Instrumentation Engineers (SPIE)

Kuwait Society of Engineer

IEEE

c) **Advisory editor services (editors / editorial board members) for professional journals.**

**Sonia M. Hashimi**

Review Editor for Cellular Neuroscience Archive, Cellular Neurophysiology and Cellular Neuropathology sections in the journal *Frontiers in Cellular Neuroscience* (Impact factor: 3.6)

Referee for The journal *Neuroscience*. (impact factor 6.0)

### **Abdeslam Mouihate**

Reviewer for:

- Brain Behavior and Immunity.
- IBRO Neuroscience Reports.

### **Ali Bourisly**

- Reviewer for Translational Neuroscience journal
- Reviewer for Journal of Medical Imaging and Health Informatics

### **Fawzi Babiker**

- Member of the Editorial Board of Journal Insight Cardiology.
- Member of the Editorial Board of Journal of Cardiology and Therapy (ISSN 2309-6861).
- Member of the Editorial Board Journal of Musculoskeletal Disorders.

Reviewer on invitation:

- Journal of Cardiology and Therapy
- Clinical and Experimental Hypertension
- Dove journals: Clinical Interventions in Aging
- Plos One
- Journal of Research Reports in Clinical Cardiology.
- Source Journal of Pharmaceutical Sciences.
- Journal of Physiology and Pharmacology.
- Journal of Affective Disorders.
- Journal of Cardiovascular Pharmacology and Therapeutics.
- Indian Heart Journal.
- Drug Chem Toxicol.
- Scientific Reports.
- Clinical and Experimental Hypertension Journal
- Cellular physiology journal
- British Journal of Nutrition
- Kuwait Journal of Science
- MPP
- Journal of Cardiovascular Pharmacology and Therapeutics (permanent reviewer)
- Cardiovascular Journal of Africa (permanent reviewer).

d) **Active participation in professional conferences.**

**Nil**

e) **Service as external examiners outside Kuwait.**

**Zoran Redzic**

- Radcliffe Department of Medicine, University of Oxford

f) **Contribution to Faculty and University.**



### **Zoran Redzic**

- Course coordinator, Fluids and Electrolytes, 0530-522
- Course Coordinator, Selected Topics in Physiology 1 0530-571

### **Abdeslam Mouihate**

- Member of the MSc/PhD Programs/Physiology
- Member of the MRC committee/FOM
- Member of the departmental academic staff appointment and contract renewal
- Member of the departmental scholarship committee
- Member of the departmental research committee
- Department representative of the Nervous System module

### **Ali K. Bourisly**

- Coordinator, Biophysics course # 1400141- in Phase 1
- Member, Departmental committee for Biophysics course (Phase 1)
- Member, Departmental Technical Staff Affairs Committee
- Departmental Purchasing Committee member
- Departmental Safety Committee member and Safety officer
- Member, Faculty Radiation Protection Committee
- Member, Faculty Examination Committee for Phase I program

### **Ali S. Shuaib**

- Director, Biomedical Engineering Unit, Health Sciences Center.

### **Maie Al-Bader**

<b>Committees</b>	<b>From - To</b>	<b>University</b>
Member of Graduate Program Committee	2011 - Present	Kuwait University
Member of Committee for Academic Staff Appointment and Contract Renewal (Chairperson from 2010-2014)	2010 - Present	Kuwait University
Member of Departmental Research Committee	2014 - Present	Kuwait University
Member of Committee for Academic Staff Appointment and Contract Renewal	2015 - Present	Kuwait University

### **Faculty Level:**

- Vice Dean Administration & Finance - September 2012 till 2018.
- Vice Dean Clinical Affairs, Consultation and Training - September 2018 till present, Faculty of Medicine, Kuwait University.

<b>Committees</b>	<b>From - to</b>	<b>University</b>
Departmental Representative for Phase II Curriculum - Endocrine System Module	2005 - Present	Kuwait University
Member of Committee to implement the MOH cadre for technical staff in HSC	2012 - Present	Kuwait University
Departmental Representative for Phase II Curriculum - Reproductive Module	2015 - Present	Kuwait University
Member of Committee on Strategic Planning for the Faculty for the years (2018-2022)	2019 - Present	Kuwait University

### **Other Responsibilities at the Faculty Level:**

- Member of Dean's Executive Committee, 2012 - Present, Kuwait University.

### **Fatemah Safar**

- Technical Staff Affairs Committee
- Safety officer (Physiology Department)
- Staff-Students Committee.,

### **Sonia Alhashimi**

- Course co-ordinator for Medical Physiology Foundation Block 1 course no: 05-60-201
- Member of Physiology Department Safety Committee.

### **Marian Turceni**

- Director, Graduate Program in Physiology
- Cardiovascular module, Departmental representative
- Blood module, Departmental representative
- Purchasing Committee, Department of Physiology
- Faculty Library Committee
- 25<sup>th</sup> HSC Poster Conference, judge

### **Fawzi Babiker**

- Director Physiology PhD Committee, Faculty of Medicine, Kuwait University 2019 – 2020.
- Coordinator of Phase 1, Faculty of Medicine, Kuwait University 2018 - Now
- Member of Governance Sub-Committee, Academic Accreditation Committee, Faculty of Medicine 2018 - Now.
- Member of the Departmental PhD Program Committee, Department of Physiology, Faculty of Medicine, Kuwait University 2018 - Now
- Member of Strategic Planning Committee, Faculty of Medicine, Kuwait University 2014 - Now.
- Master Integrative Physiology Course Coordinator, Department of Physiology, Faculty of Medicine, Kuwait University 2010 - now.
- Objective Structured Practical Examination (OSPE) Committee of Faculty of Medicine, Kuwait University 2009 - Now.

**Slava Malatiali**

- Member of the Faculty Council for the academic year 2020-2021 representing assistant professors
- Member of the faculty's RRB module committee.
- Chair and member of the purchasing committee at the Department of Physiology.

g) **Contribution to committees outside the Faculty (University Level)**

**Zoran Redzic**

- Curriculum development committee
- Faculty Scholarship committee

**Marian Turcani**

- Faculty of Allied health sciences: Curriculum development and assessment committee

**Sonia Al-Hashemi**

- Course coordinator for Faculty of Pharmacy Physiology course 152

h) **Community Level**

**Maie Al-Bader**

- Member, Environmental Safety Committee 2016 – present.

# **PSYCHIATRY**

## **INTRODUCTION**

The Department of Psychiatry consists of one Associate Professor, two Assistant Professors, one Senior Technician and Two Researcher, . The Department provides Problem-based learning (PBL)-driven teaching to the 7<sup>th</sup> under-graduate students, electives to the 5<sup>th</sup> year medical students, and makes substantial contribution to the Kuwait Psychiatry Board program, administered by the Kuwait Institute of Medical Specialization (KIMS).

### **Objectives**

#### **A. Academic**

1. To deliver PBL-driven teaching program, offer Electives, and oversee the KIMS administered Post-graduate training program.
2. To evaluate, reform, and review the Curriculum
3. Encouraging medical students to consider psychiatry as a career.

#### **B. Clinical**

1. To deliver quality Psychiatric services in the different Hospital settings.
2. To develop state of the art specialty clinics and resource centers in the different Psychiatry specialties.

#### **C. Research**

1. To lead and promote research at Inter-professional, community and the Ministry of health level hospital
2. Initiate research programs suited to the local needs.

### **Academic**

The Department provides under-graduate Psychiatry instruction to the 7<sup>th</sup> year medical students and offers Electives to the 5<sup>th</sup> year medical students. The 7<sup>th</sup> year students attend psychiatric rotation in groups of 30-35 for 8-week period three times a year. The teaching program is delivered through seven PBL sessions (divided across two days each), twenty-eight case conferences/teaching OSCE sessions, and seven MSD's. The delivery of the traditional didactic lectures is limited to the First Rotation Day's Orientation including Introduction of the subject, articulation the Rotation-objectives, and description of the main Psychopathological manifestations. All students are assigned patients for supervised assessments and presentations. The average 3:1 student: tutor ratio adds proficiency to the clinical tutoring. The students undergo two clinical assessments during each rotation: formative assessment during week 4-5 and summative assessment during week 7-8 to provide feed-back, and determine satisfactory completion of the clinical component, respectively, of the rotation. At the end of each rotation, students undergo an End-of-Course assessment consisting of two Mini Case Examination (Mini C-Ex) carrying 20% of the total marks. The annual examination consists of 16 OSCE's (40% marks) and 100, vignette-based, single best answer MCQ's (40% marks).

## **Clinical Services**

The academic staff members provide clinical services in the Kuwait Center for Mental Health and the Amiri and Mubarak Al-Kabeer Hospitals. In addition to providing the General Adult Psychiatric services, the academic staff is actively engaged in development of quality specialty clinics including Old Age Psychiatry, Consultation-liaison Psychiatry, Mood and Anxiety disorders, and Palliative Care Psychiatry. The Academic staff members contribute in the Medical, and the Medico-legal, Boards for assessment of patients requiring second opinion, claiming sick leaves, and those proclaiming not-guilty plea in the court of law on mental ill-health grounds. The Academic staff members also started 1<sup>st</sup> unified training program in Kuwait for all family doctors over 6 months and a 1 month hands on clinical training to open independent family run psychiatry clinic.

## **Research activities**

The Department has initiated a number of studies addressing different areas including Curriculum reform, Psychiatric morbidity prevalence studies, Evaluation of forensic psychiatry patients, and Description of General Hospital Patients requiring psychiatric consultation. Two articles have been published and another two have been submitted for publication in peer reviewed, indexed international journals.

## **Obstacles to meeting these objectives**

1. The Department has been facing manpower shortage problem ever since the introduction of the PBL-led curriculum. The small group teaching, hallmark of the PBL, along with the introduction of OSCE has outstretched the already inadequate number of the academic staff members. As a result, the Department has to rely on the Ministry of Health tutors for both the delivery of the PBL and clinical assessment including the OSCE.

### **a) Current Developments**

1. The Department has succeeded in recruiting some support staff including a Research assistant but continues to stress the need to recruit additional academic staff to achieve its goals.
2. The Department continues to pursue its mission to subject the undergraduate curriculum and its evaluation to the periodic review and reform process. To this affect, a study evaluating usefulness of the Integrated OSCE in the PBL-driven curricula, has just been submitted for publication. If accepted, this will be the third of the series of similar curriculum reform studies carried out by the Department.

## **MANPOWER**

1. Dr. Sulaiman Al-Khadhari, MBBCh, FRCPC, Associate Professor
2. Dr. Mariam Al-Awadhi, MBBCh, FRCPC, Assistant Professor
3. Dr. Abdullah Al-Ozairi MBChB. MSc MHPE FRCP (C), Dip ABPN Dip UCNS, Assistant Professor

**Exam Coordinator**

- Dr. Sulaiman Al-Khadhari

**Course Coordinator**

- Dr. Abdullah Al-Ozairi

**Teaching Assistants**

None

**Lab Physicians**

None

**Clinical Tutors**

1	Dr. Adel Alzayed	Director and Consultant.
2	Dr. Ali Altajli	Specialist
3	Dr. Aseel Alibrahim	Sr. registrar
4	Dr. Ashraf Shazli	Consultant
5	Dr. Bibi Alamiri	Consultant
6	Dr. Francis Kostas	Senior Specialist
7	Dr. Hussain Alshatti	Sr. registrar
8	Dr. Hussain Fadel AlSarraf	Sr. registrar
9	Dr. Khalid Alshafi	Consultant
10	Dr. Mai Al'asy	Senior Specialist
11	Dr. Mohamed Alsenafi	Specialist
12	Dr. Mohamed Youssef Abuzied	Consultant
13	Dr. Mohd Mustafa	Consultant
14	Dr. Mumdoh Elgammal	Consultant
15	Dr. Mustafa Ibrahim	Sr. registrar
16	Dr. Shereen Abd. Mawella	Consultant
17	Dr. Shereen Aboelfotoh	Sr. registrar
18	Dr. Talal AM Sayed	Senior Specialist
19	Dr. Tarik Shoukri	Consultant

**M.Sc. Students**

None

**Ph.D. students**

None

**SUPPORT STAFF****Scientific Assistants**

None

**Technician**

None

**Senior Technician**

- Najlaa Fathi Al-Hoby, Bachelor degree in Medical Lab Technology.

**Psychological Researcher**

- Badriya Alfaqaan, Bachelor degree in Psychology

**Biological Researcher**

- Nouf Al-Shatty, Bachelor degree in Biology

**Translator**

None

**STAFFING CHANGES****Staff who left the department**

- Ramani Varghese
- Dr. Mohammad Alsuwaidan

**TEACHING LOAD**

## Post Graduate Teaching

Title of the Course(s) : Kuwait Board of Psychiatry

Total No. of hours : 300 hours

Undergraduate teaching (7<sup>th</sup> year)

Lectures/Tutorials & MSD	: 61 hours
PBLs	: 84 hours
Bedside teaching	: 438 hours
Total hours	: 583 hours

**Student Advisors**

Dr. Sulaiman Al-Khadhari

Dr. Mariam Al-Awadhi

Dr. Abdullah Al-Ozairi

**RESEARCH AND PUBLICATIONS****FUNDED PROJECTS**



## A. Dr. Mariam Al-Awadhi

**Title:** Implementation of Distress Assessment and Response Tool (DART)  
**Funding:** KFAS  
**Budget:** 59150 KD  
**Status:** Ongoing  
**Principal Investigator:** Dr. Mariam Al- Awadhi

## UNFUNDED PROJECTS

### Publications

#### a) Dr. Sulaiman Al-Khadhari

1. Francis K, Karantanos G, Al-Ozairi A, AlKhadhari S. Prevention in Autism Spectrum Disorder: A Lifelong Focused Approach. *Brain Sci.* 2021 Jan 24;11(2):151. doi: 10.3390/brainsci11020151. PMID: 33498888; PMCID: PMC7911370.
2. Naguy A, Alkhadhari S. ECT and Cognition - Truism or Tautology? *Asian J Psychiatr.* 2021 Dec;66:102879. doi: 10.1016/j.ajp.2021.102879. Epub 2021 Oct 1. PMID: 34634656.
3. Naguy A, Naguy C, Alkhadhari S. Probable Lithium-Related Paroxysmal Perceptual Alterations in an Adolescent With Bipolar Mood Disorder. *Am J Ther.* 2020 Dec 7;28(6):e730-e731. doi: 10.1097/MJT.0000000000001308. PMID: 33298747.
4. Naguy A, Moodliar-Rensburg S, AlKhadhari S. Lithium-Induced Ekblom Syndrome in a Case of Juvenile Bipolar Mood Disorder. *Am J Ther.* 2020 May 6. doi: 10.1097/MJT.0000000000001187. Epub ahead of print. PMID: 32384318.
5. Naguy A, Alwetayan S, AlKhadhari S. Anhedonia as a transdiagnostic construct. *Asian J Psychiatr.* 2020 Feb;48:101604. doi: 10.1016/j.ajp.2019.01.001. Epub 2019 Jan 3. PMID: 30639127.

#### b) Dr. Mariam Al-Awadhi

1. Muhammad Ajmal Zahid; Mohammad Alsuwaidan; Sulaiman Alkhadhari; Abdullah Alozairi; **Mariam Alawadhi**; Ramani Varghese. Assessment of clinical competency in problem-based learning curriculum: comparison of discipline-specific with multi-discipline objective structured clinical examination. *Academic Psychiatry* **2018** (Submitted for Publication)

#### c) Dr. Abdullah Al-Ozairi

1. Al-Ozairi E, Al Ozairi A, Blythe C, Taghadom E, Ismail K. The Epidemiology of Depression and Diabetes Distress in Type 2 Diabetes in Kuwait. *J Diabetes Res.* 2020

Jun 1;2020:7414050. doi: 10.1155/2020/7414050. PMID: 32566681; PMCID: PMC7288194.

2. Deeb A, Akle M, Al Ozairi A, Cameron F. Common Issues Seen in Paediatric Diabetes Clinics, Psychological Formulations, and Related Approaches to Management. J Diabetes Res. 2018 Feb 27;2018:1684175. doi: 10.1155/2018/1684175. PMID: 29682577; PMCID: PMC5848057.
3. Al-Ozairi E, AlAwadhi MM, Al-Ozairi A, Taghadom E, Ismail K. A prospective study of the effect of fasting during the month of Ramadan on depression and diabetes distress in people with type 2 diabetes. Diabetes Res Clin Pract. 2019 Jul;153:145-149. doi: 10.1016/j.diabres.2019.05.006. Epub 2019 May 18. PMID: 31108138.
4. Francis K, Karantanos G, Al-Ozairi A, AlKhadhari S. Prevention in Autism Spectrum Disorder: A Lifelong Focused Approach. Brain Sci. 2021 Jan 24;11(2):151. doi: 10.3390/brainsci11020151. PMID: 33498888; PMCID: PMC7911370.

## CONTRIBUTIONS

### a) Participation in Ministry/Government Activities

	Name	Organization	Position
1	<b>Sulaiman AlKhadhari</b>	• Medical Board for Psychiatric Assessment of Medico- legal Patients	Chairman
2	<b>Dr. Abdullah Al-Ozairi</b>	• Consult liaison unit at Kuwait Center for Mental Health.	Head
		• Neuropsychiatric, Amiri Hospital	Consultant
		• Examination Chair for KIMS Psychiatry Residency Board	Chairman

### b) Offices Held in Professional Organizations

	Name	Organization	Position
1	<b>Dr. Mariam Al-Awadhi</b>	• International Society of Affective Disorder	Fellow
		• The American Psychiatric Association.	Member
		• The Canadian Psychiatric Association.	Member
		• The Canadian Association of psycho-social oncology.	Member
		• Marce Society.	Member
		• Kuwait Medical Association.	Member
		• Kuwait women's Cultural Society.	Member
		• Kuwait peritoneal Cancer Society.	Member
2	<b>Dr.Sulaiman AlKhadhari</b>	• The Association of Kuwaiti residents in North America.	Co-founder-President
		• The Organizing Committee for Writing the Constitution of the Gulf Residents Association at University of Toronto	Member
		• Kuwait Psychiatric Society	President
		• Faculty of psychiatry at Kuwait Institute for Medical	Chairman

		Specializations	
		• Kuwait Medical Association.	Member
		• The Canadian Medical Protective Association.	Member
		• The College of Physicians and Surgeons of Ontario.	Member
		• Training of the Royal Collage of Physician of Canada.	Member
		• Training of the Canadian Psychiatric Association (CPA).	Member
		• Training of the American Psychiatric Association (APA).	Member
		• The American Association of Geriatric Psychiatry.	Member
		• The International Psychogeriatric Association.	Member
		• The Canadian Academy of Geriatric Psychiatry.	Member
<b>3</b>	<b>Dr. Abdullah Al-Ozairi</b>	• University Health network, Toronto, Canada	Neuropsychiatrist
		• Harvard Macy Institute, Boston, USA	Faculty

**c) Advisory editor services for professional journals:**

**Journals' Review**

	<b>Name</b>	<b>Journal</b>
<b>1</b>	<b>Dr. Abdullah Al-Ozairi</b>	<ul style="list-style-type: none"> <li>• Psychosomatics</li> <li>• Journal of Head Trauma Rehabilitation</li> <li>• University of Toronto Journal</li> </ul>

**d) Active Participation in Professional Conferences:**

**Service as External Examiner outside Kuwait:**

None

**e) Contribution to Committees in the Faculty of Medicine**

	<b>Name</b>	<b>Committee</b>	<b>Position</b>
<b>1</b>	<b>Dr Sulaiman Alkhadhari</b>	• Committee of examination	Member
		• Faculty Council	Member
		• Departmental Council (Psychiatry Department)	Chairman
		• Departmental Recruitment and Contract Renewal Committee (Psychiatry Department)	Chairman
<b>2</b>	<b>Dr. Abdullah Al-Ozairi</b>	• Interprofessional Committee Education (IPE), Rep from FOM	Member
		• Curriculum Review Taskforce, Tasked by Dean	Member

**f) Contribution to Committees outside the Faculty**

	<b>Name</b>	<b>Committee</b>	<b>Position</b>
<b>1</b>	<b>Dr. Sulaiman Al-Khadhari</b>	• Board for Psychiatric Assessment Medico Legal Patients	President

**CONCLUSION**

Despite inadequate staffing levels the department has made substantial gains in the teaching, research and clinical domains. The introduction of the PBL and OSCE in the undergraduate teaching program have been a big achievement. It was due to the relentless efforts by the Department to ensure its implementation. It was through the Department initiative and leadership that the Kuwait psychiatry Board was established by the Kuwait KIMS. The Department has been successful in encouraging medical students to take up psychiatry as their post graduate specialty. Through its leading role in various committees, the department has made substantial contributions in reorganizing and updating the hospital-based psychiatric services. Finally, in order to maintain a reasonable educational program and keep up with the ever changing face of the modern day medical education, the department requires at least 4-6 new clinical academic staff members.

# **RADIOLOGY**

## **INTRODUCTION**

The continuing mission of the Department of Radiology is to:

1. Provide medical students with core knowledge of basic clinical diagnostic and interventional radiology in a structured manner;
2. Enhance radiological concepts and skills of medical students so that they become confident in ordering and interpreting a wide variety of radiological examinations;
3. Establish a modern radiology department with different subspecialties;
4. Conduct research at both clinical and basic science levels;
5. Provide continuing education for the academic staff, hospital staff, and community physicians.
6. Contribute to postgraduate and professional training programs in Clinical Radiology.

### **A) Objectives:**

- a) To deliver under graduate teaching in radiology and offer electives to the 5<sup>th</sup> year medical students as per the set objectives.
- b) To evaluate, review and reform the curriculum so as to develop/improve the radiology-teaching programme that complies with the faculty plan of developing an integrated undergraduate curriculum.
- c) To encourage medical students to consider radiology as a career.
- d) Support and add to the Ministry of Health service to the community.
- e) Establish research programs.

### **B) Obstacles:**

The difficulties continue to be short of staff- Non Academic as well as academic staff particularly at the assistant professor level with one Academic staff resigning and two Non Academic staff being terminated the department faces acute staff shortage. Efforts are continuing to recruit more suitably qualified. Transferring suitably qualified radiologists from the MOH is being considered. The absence of university hospital is another major challenge and hindrance to practice academic medicine.

### **C) Current Developments:**

The department continues to strive hard to obtain “State of art” teaching and learning aids. The candidate undergoing training in the University of Toronto, Canada and is making satisfactory progress.

### **D) Program achievements:**

#### **1. Curriculum enhancement and development.**

The activities of the department during the academic year went smoothly inspite of the prevailing challenges. We have fulfilled our teaching commitments in line with our stated objectives of providing quality education to our medical and dental students in the Health Sciences Center by way of the online teaching platform. The elective courses for the 5<sup>th</sup> year students have proved very beneficial. Due to lack of staff, only up to 4 elective places per year are offered at present. The Department has made provisions to accept additional 4 candidates for electives from year 4 based at the Mubarak hospital. The department/interdepartmental consultation and necessary interactions with module coordinators are held at regular intervals and necessary modifications in the curriculum undertaken in line with self-assessment and student feed input.

#### **2. Achievements: Teaching and educational activities:**

##### **❖ Faculty of Medicine medical student courses:**

The department is fully responsible for the coordination of the Undergraduate Radiology teaching. The department participated in the following courses:

**Second Year :** Infection and Immunology

**Third Year :** Musculoskeletal, Respiratory, Endocrine.

**Fourth Year :** Digestive, Renal, Reproductive & Breast, Nervous System

##### **Fifth Year:**

Medical School Day lectures for Medicine and Surgery modules

System courses:

Cardiology

Gastrointestinal system

Respiratory system

Neuroradiology

Musculoskeletal

Endocrinology

**Sixth Year :**

Pediatrics rotation

Obstetrics/Gynecology

Medical School Day lectures for Medicine and Surgery

**Seventh Year :**

Medical School Day lectures for Medicine and Surgery

Surgery Clinical Rotation

The progress in expanding radiology teaching in medical and surgical courses is continuing. A radiology course is being proposed.

❖ **Continuing Education:**

- The department makes substantial contribution to the post graduate Radiology training program, administered by the Kuwait Institute of Medical Specialization(KIMS).
- Attendance and presentations at Radiology Department monthly seminars.
- Continuing education organized and presented for Radiographers at Mubarak Al-Kabeer Hospital.
- Attendance at International Conferences.
- Participation in medical grand rounds at Mubarak Al-Kabeer Hospital.
- Attendance and presentations at the Kuwait Medical Radiology Technologists monthly education meetings.

**3. Service**

Increased participation by the department in clinical service is continuing. Clinical services are provided at Mubarak Al-Kabeer Hospital and Amiri Hospital by the Faculty members including Conventional Radiology, Fluoroscopy, Mammography, CT, MRI, Ultrasound and interventional radiology. Morning teaching conferences are attended and conducted for the Registrars. Continuing education is provided for Radiographers. A quality assurance program has been established at Mubarak Hospital Radiology Department.



## **MANPOWER**

### **1. Faculty Members:**

1. Professor and Chairman      Dr. Mehraj Sheikh, M.D., FFR-RCSI. Cross Sectional Imaging & Interventional Radiology
2. Professor      Dr. Renu Gupta, M.D., MAMS, Breast Imaging & MRI
3. Professor      Dr. Osama Al-Saeed, Am. B. Rad, Neuro Skeletal Imaging
4. Associate Professor      Dr. Adel Ahmed, Am. B. Rad., Interventional Radiology

### **2. Clinical Tutors Seconded from the Ministry of Health:**

1. Dr. Refa'a Al Ajmi
2. Dr. Muhammad Al Qattam
3. Dr. Faiza Al Hajri

### **Support Staff**

1. Senior Technician      Ms. Liji George
2. Senior Administrative Transactions Specialist      Ms. Dalal Al-Muttar

### **Staffing Changes**

#### **List of Terminated Employees:**

- |                                |                      |
|--------------------------------|----------------------|
| Computer Specialist Engineer   | Ms. Lekha Jacob      |
| Senior Applied Systems Analyst | Ms. Reena Biju Jacob |

#### **Resignation:**

- |                            |                 |
|----------------------------|-----------------|
| Associate Professor        | Dr. Tariq Sinan |
| Resigned w.e.f: 9 .04.2021 |                 |

### **New Intake:**

### **Clinical Tutors Seconded from the Ministry of Health:**

1. **Dr. Sara Al Mutawa**  
From :12/09/2021--07/07/2022

## TEACHING IN THE DEPARTMENT PROGRAM

### 1. Faculty of Medicine:

#### (a) Undergraduate teaching

##### 2<sup>nd</sup> Year

Lectures 1 hr

##### 3<sup>rd</sup> Year

Seminars 5 hrs

##### 4<sup>th</sup> Year

Seminars 10 hrs

Clinical skills & GI rotation 3 hrs

##### 5<sup>th</sup> Year

Lectures 5 hrs

##### 6<sup>th</sup> Year

Seminars 1 hrs

Pediatrics Clinical Rotation 14 hrs

##### 7<sup>th</sup> Year

Lectures 1 hrs

Interventional Radiology Rotation 50 hrs

##### PBL

MSK: 3 hrs

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**Total 93 hrs**

## Electives:

Date	Students Name	Year	Stud ID no	Supervisor Assigned	Hrs	Total Weeks each
2/2/20-27/2/20	Monerah AL Ajmy	5	14157/15			4
	Fai Al Saleeli	5	20109/15			
13/9-24/9	Fay Al kurd	5	12024/15			2
	Nourah Al Ghurair	5	12890/15			
20/12/2020-7/1/2021	Nourah Al otaibi	5	15045/16			2
	Qawthar Al Mqsaeid	5	15276/16			
7/2/21-18/2/21	NORAH F F E ALMUTAIRI	4	2171116263	Prof. Mehraj Sheikh	30	2
	ALI B Y BULBANAT	4	2171118582	Dr. Adel Ahmed	30	
	ALI M GH SH ALI	4	2171118360	Dr. Tariq Sinan	30	
	LUJAIN FAWZI BOUZUBAR	4	2171111978	Prof. Osama Al Saeed	30	
7/3/21-25/3/21	ALI A.M.A. ALKHABBAZ	5	17215/16	Prof. Mehraj Sheikh		3
	ZAHRA'A B.A.E. ALI	5	16561/16	Prof. Osama Al Saeed		
5/5/21-27/5/21	ABEER KH.A.KH. ALOLIYAN	5	15672/16	Prof. Renu Gupta		3

### Course Coordinators

#### Name

#### Module

Prof. Mehraj Sheikh

Respiratory, Digestive System,  
Nervous Systems (after 9.4.2021).

Prof. Renu Gupta

Renal, Reproductive, Breast, and Endocrinology

Prof. Osama Al-Saeed

Infection & Immunology, Musculoskeletal  
system

Dr. Adel Ahmed

Cardiovascular system, Blood system

Dr. Tariq Sinan

Nervous system (till 8.04.2021)

### (b) Postgraduate Teaching

- Daily supervision of trainees
- Daily educational morning meetings

Tutorials/lectures which is approximately 2 hours per week by each staff member.

## 2. STUDENT ADVISORS

Number of students per advisor : 5

## **RESEARCH AND PUBLICATIONS**

### **Research:**

#### **Prof. Mehraj Sheikh:**

1. Co I for KFAS project on PCOS profile in Arab women (Funded Project).

#### **Dr. Renu Gupta:**

1. Comparative study of Sickle Cell Disease Phenotypes in Kuwait and Oman"  
Dr. Renu Gupta as a contributor to the KFAS (Funded Project).
2. Supervisor in Unfunded Student research: Radiology in the unfunded Medical Curriculum: The Student perspective (Student Project Non funded).
3. Computer Aided Diagnosis Systems to Detect Breast Cancer by Segmentation-based and Deep Learning based Techniques using Mammogram (Funded Project).  
CO Investigator Ku Project  
Project No: E 002/18  
Start date:4/8/2019 End date 3/8/2021

#### **Prof Osama Al Saeed:**

1. Pelvic Morphometric study on Arab population.

#### **1. Scholarships:**

The dept. has overall deficiency of all specialties which is likely to worsen in the coming years as there is only one candidate at present undergoing training in Canada. The candidate currently in training is expected to complete training in 3-4 years before he joins as staff. We are getting 'Excellent' reports form his supervisors in Canada for his performance.

For the year 20-21 two candidates had approached the dept. for seeking information on the university scholarship program. Both candidates have very impressive CV and are trying for admission for training programs in Canada. Members will be updated when further information is available. One application was received, reviewed and approved by the department.

It was decided that for the year 21-22 we request for 3 positions in the following specialties:

Cross sectional imaging,  
Women imaging,  
Neuro radiology/Neuro-intervention,  
Pediatic radiology,  
Chest and Cardiac radiology.

## **CONTRIBUTIONS:**

### **a) Participation in Ministry / Government activities**

#### **Dr. M. Sheikh**

Clinical Consultant Radiologist, Mubarak Al-Kabeer Hospital

#### **Dr. R. Gupta**

Clinical Consultant Radiologist, Mubarak Al-Kabeer Hospital.

Head of Breast Imaging and Bone Mineral Density section, Mubarak Hospital

#### **Dr. O. Al-Saeed**

Clinical Consultant Radiologist, Amiri Hospital

#### **Dr. T. Sinan**

Consultant Radiologist, Interventional Radiology, Taiba Hospital

#### **Dr. A. Ahmed**

Clinical Consultant Radiologist, Mubarak Al-Kabeer Hospital

Head, Vascular and Interventional Radiology Unit, Mubarak Al-Kabeer Hospital

### **b) Participation in local seminars/meetings/case presentations:**

Due to the ongoing pandemic no meetings were attended physically, but all staff actively participated in the online webinars that were regularly arranged by the Kuwait radiological society.

### **c) Participation in International Meetings: (Attendee before the pandemic restrictions).**

#### **Dr. M. Sheikh**

1. Attended Arab Health Congress at Dubai, UAE from 27<sup>th</sup> – 30<sup>th</sup> Jan 2020.

#### **Dr. R. Gupta**

1. Presented a paper on “Mammographic BIRADS 3 category: a radiologist dilemma” at IRIA 2020 held at India from 23<sup>rd</sup> to 26<sup>th</sup> Jan 2020.
2. Attended Arab Health Congress at Dubai, UAE from 28<sup>th</sup> Jan – 30<sup>th</sup> Jan 2020.

#### **Dr. Adel Ahmed**

1. Attended Arab Health Congress at Dubai, UAE from 27<sup>th</sup> – 30<sup>th</sup> Jan 2020.
2. Lecture on Uterine Fibroid embolization in MENA PI Summit 2019 in Debrovnik, on 4<sup>th</sup> to 5<sup>th</sup> Oct 2019.

**d) Contributions to committees in the Faculty of Medicine**

**Dr. M. Sheikh**

Chairman, Department of Radiology, Faculty of Medicine  
Chairman, Radiation Safety Committee, FOM  
Head, Department Research Committee, FOM  
Head, Department Appointment and Contract Renewal Committee, FOM  
Head, Department Scholarship Committee, FOM  
Member, Curriculum Committee, FOM  
Member, Faculty Council, FOM  
Member, MSc. Medical Physics Course Committee, College of Graduate studies  
Member, Medical Research Committee, FOM  
Member, Promotion Review Committee, FOM  
Department's Teaching Coordinator for the 5<sup>th</sup> year undergraduate medical students

**Dr. R. Gupta**

Member, Department Scholarship Committee, FOM  
Member, Department Research Committee, FOM  
Member, Department Appointment and Contract Renewal Committee  
Department Research Coordinator, FOM  
Course Coordinator for Renal, Reproductive and Endocrine systems.  
Course Coordinator for clinical rotation of Phase II Nephrology Block .

**Dr. O. Al Saeed**

Member, Faculty Appointment and contract renewal committee, FOM  
Member, Promotion Review committee, FOM  
Member, Department Research Committee, FOM  
Member, Department Scholarship Committee, FOM  
Member, Department Appointment and Contract Renewal Committee  
  
Member, Scientific Affairs Advisory Committee, FOM  
Member, Health and Safety committee, FOM  
Coordinator of 6<sup>th</sup> year medical students' teaching at Amiri Hospital

**Dr. T. Sinan**

Member, Department Research Committee, FOM

Member, Department Scholarship Committee, FOM  
Member, Department Appointment and Contract Renewal Committee

**Dr. A. Ahmed**

Member, Department Research Committee, FOM  
Member, Department Scholarship Committee, FOM  
Member, Department Appointment and Contract Renewal Committee  
Department Coordinator of 7<sup>th</sup> year medical students

**e) Contributions to committees outside the Faculty of Medicine**

**Dr. M. Sheikh**

Member & Educational affiliate of the Royal Australasian  
College of Radiologists, Australia.  
Member, Royal College of Radiologists in Ireland.  
Member, Radiology Society of North America  
Member, Royal Australasian College of Radiology  
Member, Kuwait Medical Association  
Clinical Tutor for Local Training of the Royal College of Radiology  
Assistant Program Director for FFR, RCSI training for Kuwait Institute for Medical  
Specialization.  
Editorial Board Member of the Austin Journal of Radiation Oncology and Cancer  
Editorial Board Member, case reports in Urology Journal.  
Editorial Board Member, International Journal of Radiology and Medical Imaging.

**Dr. R. Gupta**

Member, National Academy of Medical Sciences (NAMS), India  
Member, General Medical council, UK  
Member, Indian College of Radiology (ICR)  
Member, Indian Radiological and Imaging Association (IRIA) India  
Member, European Society of Breast Imaging (ESOBi)  
Member, Society of Breast Imaging, USA  
Member, American college of Radiology  
Member, International society of clinical densitometry (ISCD) with CCD certification

Member, Advisory board, Pushpanjali Crosslay hospital, NCR, Delhi  
Clinical Tutor for Local Training of the Royal College of Radiology  
Coordinator for Uro-Radiology for KIMS Urology Board Programme  
Reviewer for Journal of Clinical Densitometry, Kuwait Medical Journal and Medical Principles and Practice.

**Dr. O. Al Saeed**

Member, American Medical Association  
Member, Radiologic Society of North America  
Member, American College of Radiology  
Member, Kuwait Medical Association  
Clinical Tutor for Local Training of the Royal College of Radiology  
Chief of Examination Committee and Research Coordinator of KIMS KBR  
Member, Faculty of Radiology, KIMS  
Reviewer for Neuropsychiatric Disease and Treatment Journal, Orthopedic & Muscular System: Current Research and Journal of Biomedical Graphics and Computing.

**Dr. T. Sinan**

Member, Kuwait Medical Association  
Member, Kuwait Society of Radiology and Nuclear Medicine  
Member, Royal College of Radiologists  
Member, Registrar of Specialist at Medical Council, Ireland  
Fellow, Faculty of Radiologists, RCSI  
Chairman, Faculty of Radiology, KIMS KBR Program  
Associate Member, European Society of Neuro Radiologists  
Tutor for Fellowship Program (FFR, RCSI)  
Reviewer of Journal of Cardiovascular & Interventional Radiology

**Dr. A. Ahmed**

Member, Kuwait Medical Association  
Member, American Society of Cardiovascular and Interventional Radiology  
Member, American College of Radiology  
Chairman, Scientific Committee, Radiology Council, Ministry of Health  
Chairman, Interventional Radiology, Radiology Council, Ministry of Health



## **ACHIEVEMENTS AND CONCLUSION**

The Department of Radiology continues to show steady progress in teaching, research and the delivery of clinical services despite a small no. of staff. The department also contributes to the KIMS postgraduate training program in Radiology and other specialties.

# **SURGERY**

## **INTRODUCTION**

The Academic Department of Surgery plays a pivotal role in coordinating the undergraduate teaching of surgery for the 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> year medical students. The Department comprises of 5 full Professors, 7 Associate professors and 11 Assistant Professors. This constitutes the academic staff. They are supported by 2 technicians, 1 teaching assistant, 2 lab engineers and 1 Secretary.

At present, apart from General Surgery, the Department of Surgery has the following sub-specialities: vascular, thoracic, urology, anesthesia, ENT, orthopedics (accident and emergency) and ophthalmology. For clinical exposure, students rotate through the Al-Adan, Al-Amiri, Al-Razi, Chest Diseases, Farwaniya, Ibn Sina and Mubarak Hospitals. To overcome the shortage of staff in the various disciplines, the Department has sought the help of senior clinical staff from the Ministry of Health to act as clinical tutors for students. At present we employ 120 such tutors ranging from senior registrars to Consultants.

The total hours taught during the last year in the Faculty of Medicine is 1,506 hours of which 228 hours were didactic and 1218 hours were clinical bedside teaching.

### **Postgraduate programs and teaching**

The Department contributes extensively to the training of candidates of the various programs of the Kuwait Institute of Medical Specialization (KIMS). The staff contributed 82 hours of didactic teaching and 288 hours of clinical bedside teaching comprising a total of 370 hours.

Furthermore, the Department also conducts hands-on-training courses for the Post Graduate Trainees of the Kuwait Institute of Medical Specialization (KIMS). Basic and Advanced Laparoscopy courses in animal models which is for two full days each and conducted for the 1st and 3rd year candidates of the Surgical Board. Basic Surgical Skills (BSS) Course which is for two full days is for the 1<sup>st</sup> year candidates of the surgical, urological and ENT Boards. The BSS course is accredited and certified by the Royal College of Surgeons of England.

### **Aims & Objectives of the Department**

To provide:

- An undergraduate surgical curriculum that contains basic skills with cognitive knowledge considered essential for the understanding of general surgical conditions and their management.
- Good surgical training that produces physicians capable to recognize general surgical conditions and be able to provide the basic resuscitation means for emergencies.
- Graduates with the ability to make a sound surgical consultation to recognize a surgical condition and to be able to direct the patient to proper specialty.

## **MANPOWER**

### **ACADEMIC STAFF**

#### **Faculty Members**

Dr. Hussain Dashti, M.D., Ph.D., F.I.C.S., F.A.C.S., F.R.C.S. (G).

Professor and Chairman  
General Surgery with special interest in Trace Elements, Nutrition and Tumour Markers

Dr. Adel Khader Ayed, B.M.,B.Ch., F.R.C.S.(C), F.C.C.P., F.A.C.S.  
Professor and Dean  
Thoracic Surgery

Dr. Abdullah Behbehani, M.B.,B.Ch., F.R.C.S., F.R.C.S.I., Ph.D., F.I.C.S., F.A.C.S.  
Professor  
General Surgery with special interest in Oncology

Dr. Adel Al-Hunayan B.M., B.Ch., F.R.C.S.  
Professor  
Urology

Dr. Khalid Al-Sebeih, B.M., B.Ch., F.R.C.S.(C), A.B.O  
Professor  
ENT

Dr. Mervat Al-Saleh , M.B.B.S., F.R.C.S, F.R.C.S. (Ed.), F.I.C.S., F.A.C.S.,  
Associate Professor  
General Surgery with special interest in breast surgery

Dr. Fahad Al-Asfar , B.M.,B.Ch., F.R.C.S(C)  
Associate Professor  
General Surgery

Dr. Abdul Mutalib Behbehani, M.B.,B.Ch., B.A.O., L.R.C.S.I., F.R.C.S.C.  
Associate Professor  
Ophthalmology

Dr. Fawzi Abul., M.B.,B.Ch., F.R.C.S., B.A.O., L.R.C.S., L.R.C.P.I.  
Associate Professor  
Urology

Dr. Ahmed Al-Kandari, B.M., B.Ch., F.R.C.S(C)  
Associate Professor  
Urology

Dr. Mohammed Jamal, M.B.B.S, F.R.C.S (C)  
Associate Professor  
Hepatopancreatic biliary and transplant surgery

Dr. Salman Al Sabah BM., B.Ch, MBA, FRCS(C), FACS  
Associate Professor  
General Surgery

Dr. Ibtisam Al-Bader B.M., B.Ch., F.R.C.S (C), F.R.C.S  
Assistant Professor  
General Surgery with interest in Breast Surgery

Dr. Jasim AlAbbad, B.M., B.Ch., F.R.C.S (C)

Assistant Professor  
General Surgery with interest in colon and rectal surgery

Dr. Yasser B Abulhasan, M.B.B.S, F.R.C.S (C)  
Assistant Professor  
Anesthesia and intensive care

Dr. Saad Aldousari MD, FRCS (C)  
Assistant Professor  
Urology

Dr. Ali Jarragh B.M, B.Ch, FRCS (C)  
Assistant Professor  
Orthopedic Trauma Surgery

Dr. Amar Alnaqi B.M, B.Ch, FRCS (C).  
Assistant Professor  
Pediatric Surgery

Dr. Saud AlZaid MB, BCM, BAO (NUI), LRCSI, FRCSC  
Assistant Professor  
General Surgery

Dr. Ahmed AL-Khamis MBChB (Hon.), MSc (Epi), FRCSC  
Assistant Professor

Dr. Salman Alsafran LRCP & SI MB BCh NUI (Hons)  
Assistant Professor

Dr. Abdullah Alfawaz MB, BCh, BAO (NUI), LRCP & SI. FRCS (C). RPVI.  
Assistant Professor  
Vascular  
(On study leave for one year)

Dr. Talal Alabduljalil B.M.B.Ch, FRCSC, DABO  
Assistant Professor  
Ophthalmology

### **Teaching Assistant**

Ms. Fatemah Al-Otaibi

### **Lab Physicians / Lab Engineers**

Ms. Thomas Jisha Merrin, B. Tech  
Ms. George Gemcy, B. Tech

## Clinical Tutors

NO	NAMES	POSITION
1	Dr. Marzouk Abdulla Al-Bader	Consultant
2	Dr. Ahmad Abdulla Al-Mousawi	Consultant
3	Dr. Ali Khalifa Al-Dahham	Consultant
4	Dr. Emad Hilmi Ayyash	Consultant
5	Dr. Hussein AbdulNabi Safar	Consultant
6	Dr. Ali Sayed Ali	Consultant
7	Dr. Ali Ismail Ali	Consultant
8	Dr. Abdulla Ahmad Al-Haddad	Consultant
9	Dr. Maher Mouris Iskandar	Consultant
10	Dr. Bader Mustafa Marafi	Consultant
11	Dr. Sulaiman Jawad Al-Hadher	Senior Specialist
12	Dr. Ahmad Ali Taqi	Senior Specialist
13	Dr. Ibrahim Mustafa Hanbal	Specialist
14	Dr. Ismiel Jazzaf	Specialist
15	Dr. Bashayar Al Shatty	Specialist
16	Dr. Abdulla Abdulrasool	Specialist
17	Dr. Khalid Al Hammad	Specialist
18	Dr. Yaser Salah Sadeq	Specialist
19	Dr. Dhari Al Wugyan	Specialist
20	Dr. Khalid Al Qalaf	Specialist
21	Dr. Ahmad Alsalim	Specialist
22	Dr. Husain Faisal Al-Mahmeed	Specialist
23	Dr. Yousef AlHassan	Senior Registrar
24	Dr. Ali Abdulsamad Basha	Senior Registrar
25	Dr. Khalifa Alyatama	Senior Registrar
26	Dr. Abdullah Dia Ahmed Behbehani	Senior Registrar
27	Dr. Yousef Mohammad Ali	Consultant
28	Dr. Hamdy Abdul Haleem	Consultant
29	Dr. Said Yaiesh	Senior Registrar
30	Dr. Najat Dehrab	Consultant/Head
31	Dr. Fatemah M. Dahrab	Senior Specialist
32	Dr. Joshua Brainard Muddu	Specialist
33	Dr. Michael Samuel	Specialist
34	Dr. George Maher Kandas	Specialist
35	Dr. Ahmad Kamal	Specialist / Head
36	Dr. Fathi Khalaf	Consultant
37	Dr. Hani Wadie Philips Rizkalla	Senior Specialist
38	Dr. Ahmed Abdelhaleem Mustafa	Specialist
39	Dr. Waleed Buhaimed	Consultant/Head

40	Dr. Taleb Hasham Juma	Consultant
41	Dr. Abdulsamad Mustafa S. Abdul Samad	Consultant
42	Dr. Wael Fathi Hasaniah	Consultant
43	Dr. Zahraa Ahmad Ismail	Consultant
44	Dr. Ali Hamad Al Juaied	Senior Specialist
45	Dr. Ahmad Ali Ahmad Almurad	Senior Specialist
46	Dr. Shehab A. Groof	Specialist
47	Dr. Suad Al-Subaie	Specialist
48	Dr. Bader Al Bader	Specialist
49	Dr. Asma Al-Rashed	Specialist
50	Dr. Fatma Ibrahim	Specialist
51	Dr. Bader Jassim Ashkanani	Specialist
52	Dr. Mohammed Alzanki	Specialist
53	Dr. Sara Wood	Senior Registrar
54	Dr. Kefaya Abdulla Abdulmalek	Consultant/Head
55	Dr. Nadia Akbar	Consultant
56	Dr. Manal Hussein Taqi	Senior Specialist
57	Dr. Waleed Eesa	Consultant
58	Dr. Duleim Al Hajri	Senior Specialist
59	Dr. Ali AlRashid	Specialist
60	Dr. Khalid Al Bassam	Senior Specialist/Chairman
61	Dr. Mustafa Dashti	Consultant
62	Dr. Rasheed Alsaleh	Consultant
63	Dr. Hamad Al-Ajmi	Consultant
64	Dr. Abdulla Sultan	Consultant
65	Dr. Mahmoud Abdelmoneam	Consultant
66	Dr. Fousiya Ashkanani	Consultant
67	Dr. Naser Al Humaidi	Senior Specialist
68	Dr. Ahmed Esam Almulla	Senior Specialist
69	Dr. Mohammed Ehab Saad	Senior Specialist
70	Dr. Musaed Al Wadaani	Specialist
71	Dr. Faisal Al Hajery	Senior Specialist/Head
72	Dr. Ahmed Harraz	Specialist
73	Dr. Shady Mohamed Salem	Specialist
74	Dr. Talal Alanzi	Senior Registrar
75	Dr. Mosaab Aljalahma	Specialist/Head
76	Dr. Wieslaw Pospula	Consultant
77	Dr. Abdulsalam Othman	Consultant
78	Dr. Mohammad Mufeed Khalid Eid	Specialist
79	Dr. Ayman Hussein Fouad	Senior Registrar
80	Dr. Ous AlOsairi	Consultant/ Chairman
81	Dr. Hosni Mustafa	Consultant

82	Dr. P. M. Dhar	Senior specialist
83	Dr. Hamid Labeeb	Senior Specialist
84	Dr. Nael Muttar Salman Al-Shammari	Specialist
85	Dr. Mohammed Asad Al Kandari	Specialist
86	Dr. Nawaf Al Khalifah	Specialist
87	Dr. Ahmed Sarab	Specialist
88	Dr. Ahmad Sulaiman	Specialist
89	Dr. Khaleel Mohammed	Specialist
90	Dr. Khalid Al Shammary	Senior Registrar
91	Dr. Huda Al Foudari	Consultant/Head
92	Dr. Mohammed Shamsah	Consultant
93	Dr. Meshal Ahmad Alhadhoud	Specialist/Head
94	Dr. Farid Abdelmalak	Consultant
95	Dr. Mohammad Hesham	Consultant
96	Dr. Raja Mohammed Sherief	Senior Specialist
97	Dr. Ahmed M. Zamzam	Consultant
98	Dr. Raed Behbehani	Consultant
99	Dr. Adel Al Jazzaf	Consultant
100	Dr. Nadia Abul	Consultant
101	Dr. Mutlaq Al Sihan	Consultant/Head
102	Dr. Amr Ali Sobieh	Consultant
103	Dr. Khairy Alhaj Abu Shara	Consultant
104	Dr. Abdulla Khaled AlBader	Senior Registrar
105	Dr. Maha Al-Gilani	Senior Registrar
106	Dr. Saleh Alsaifi	Specialist/Chairman
107	Dr. Mokhtar Elsayed Abdel Azeem	Consultant
108	Dr. Abdul Aziz Mohamed AbduAziz	Senior Specialist
109	Dr. Mohammed Jawad Jamsher	Specialist
110	Dr. Faisal.T.Sayer	Consultant
111	Dr. Ali Abu Alhassan	Consultant
112	Dr. Esmael Taqi	Consultant/Head
113	Dr. Abdullah Rajab	Consultant
114	Dr. Suad Abul	Consultant
115	Dr. Ali Ashkanani	Senior Specialist
116	Dr. Sunil Kumar	Specialist
117	Dr. Ayman Alnadi	Specialist
118	Dr. Mohammad Khalaf	Consultant
119	Dr. Hassan Aziz	Specialist
120	Dr. Dherar Sultan Alshehab	Consultant



## **Visiting Professors**

Nil

## **External Examiners for the year 2020**

Nil

## **SUPPORT STAFF**

### **Research Assistant**

Ms. Carol D Souza, Senior Research Assistant

### **Technicians**

Mr. Abraham Mathew, B.Sc., M.Sc., P.G.D.C.A., Chief Technician

Mrs. Shaisa Meeralayam, B.Sc., MSc, Technician

### **Secretary**

Mrs. Anju Jijin, B Com. MBA (Finance)

### **Administrator**

Nil

### **Others**

Mr. Erfan Shaikh

### **Student help**

Nil

## **STAFFING CHANGES**

Prof. Adel K. Ayed is on Sabbatical leave from January, 2020 till January, 2022.

## **TEACHING IN THE DEPARTMENT PROGRAM**

### **II. FACULTY OF MEDICINE**

#### **a. Undergraduate teaching**

Lectures	:	288	hours
Tutorials & Seminars	:	--	hours
Practical / Clinical	:	1,218	hours
-----			
Total teaching hours given to students per year. 1,506 hours			
-----			

**Coordinators:**

Name of Staff: **Dr. Ali Jarragh**  
 Name of Course/s: 5<sup>th</sup> Year Phase III Coordinator

Name of Staff: **Dr. Talal Alabduljalil**  
 Name of Course/s: 6<sup>th</sup> year Phase III Coordinator

Name of Staff: **Dr. Alnaqi Amar**  
 Name of Course/s: 7<sup>th</sup> year Phase III Coordinator

**b. Graduate teaching (M.Sc / Ph. D)**

Nil

**Course coordinators:**

Nil

**c. Postgraduate teaching (KIMS)**

Lectures	:	82 hours
Tutorials & Seminars	:	0 hours
Practicals (clinical bedside)	:	288 hours
		-----
Total teaching hours	:	370 hours
		-----

**Course Coordinators:**

Name of Staff: **Prof. Ayed Adel Khader**  
 Name of Course/s: Thoracic Surgery  
 Chairman, Faculty of Surgery  
 Postgraduate Surgical Training Programme of KIMS

Name of Staff: **Prof. Al-Hunayan Adel**  
 Name of Course/s: Urology  
 Chairman, Faculty of Urology  
 Postgraduate Surgical Training Programme of KIMS

Name of Staff: **Dr. Ali Jarragh**  
 Name of Course/s: MSK Module Phase III Coordinator

**II. OTHER FACULTIES****b. Undergraduate teaching in Faculty of Pharmacy**

Lectures	:	
Tutorials & Seminars	:	
Practicals / Clinical	:	
		-----
Total teaching hours given to students per year		NIL

**Course coordinators:**

Nil

**Name of course**

Nil

**Undergraduate teaching in Faculty of Dentistry**

Lectures :

Tutorials & Seminars :

Practicals / Clinical :

Total teaching hours given to students per year

NIL

**Course coordinators:**

Nil

**Name of course**

Nil

**Undergraduate teaching in Faculty of Allied Health**

Lectures :

Tutorials & Seminars :

Practicals / Clinical :

Total teaching hours given to students per year

NIL

**Course coordinators:**

Nil

**Name of course**

Nil

### **III. STUDENT ADVISORS**

Nil

### **RESEARCH AND PUBLICATIONS**

#### **RESEARCH**

##### **Funded**

- 2) Title: The effect of metabolic surgery on uncoupling proteins.

Funding: KFAS

Status: Ongoing

Value: K.D 100,000/-

Principal Investigator: Dr. Mohammed Jamal,

Co-investigator(s): Prof. Fahd Al Mulla, Dr. Ghanim Al Khaledi, Dr. Suleiman Al Sabah, Dr. Hamad Ali Yaseen, Mr. Waleed Al Ali

- 3) Title: Trace elements and sudden sensorineural hearing loss  
Funding: Kuwait University Research Management Unit  
Status: Ongoing  
Value: KD 6000/-  
Principal Investigator: **Dr. Khalid Al-Sebeih**  
Co-investigator(s): None

### Unfunded Research Activities

1. ACE gene in patient with bronchiectasis Co-investigator, **Prof. Adel Khader Ayed.**
2. Role of intrapleural tissue plasminogen activator in the management of complicated pleural effusion. Co-investigator, **Prof. Adel Khader Ayed.**

### PUBLICATIONS

#### Papers:

1. Probabilities of ICU admission and hospital discharge according to patient characteristics in the designated COVID-19 hospital of Kuwait.  
Kipourou DK, Leyrat C, Alsheridah N, Almazeedi S, Al-Youha S, **Jamal MH**, Al-Haddad M, **Al-Sabah S**, Ratchet B, Belot A.  
BMC Public Health. 2021;21(1):1-1.
2. Effective cleaning of endoscopic lenses to achieve visual clarity for minimally invasive abdominopelvic surgery: a systematic review.  
Nabeel A, **Al-Sabah SK**, Ashrafian H.  
Surgical Endoscopy. 2021 May 7:1-1.
3. Association between the lipoprotein lipase rs1534649 gene polymorphism in intron one with Body Mass Index and High Density Lipoprotein-Cholesterol.  
Al-Serri A, Al-Bustan SA, **Al-Sabah SK**, Annice BG, Alnaqeeb MA, Mojiminiyi OA.  
Saudi Journal of Biological Sciences. 2021 May 4.
4. Omentopexy during laparoscopic sleeve gastrectomy: Is it effective in reducing postoperative gastrointestinal symptoms. A retrospective cohort study. AlHaddad M, AlAtwan AA, AlKhadher T, AlJewaied A, Qadhi I, **AlSabah SK**. Annals of Medicine and Surgery. 2021 Apr 30:102369.
5. Timing of surgery following SARS-CoV-2 infection: an international prospective cohort study.  
COVIDSurg Collaborative, GlobalSurg Collaborative.  
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6. The impact of ABO blood groups on clinical outcomes and susceptibility to COVID-19: A retrospective study in an unselected population.  
Al-Youha SA, Alduajj W, Al-Serri A, Almazeedi SM, Al-Haddad M, **Jamal MH**, Shih AW, **Al-Sabah S**.  
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7. Angiotensin-Converting Enzyme (ACE) Inhibitors and Angiotensin Receptor Blockers (ARB) Are Protective Against ICU Admission and Mortality for Patients With COVID-19 Disease.  
ElAbd R, AlTarrah D, AlYouha S, Bastaki H, Almazeedi S, Al-Haddad M, Jamal M, **AlSabah S**.  
Frontiers in Medicine. 2021 Mar 4;8:226.
  
8. Risk Factors and Prevalence of Barotrauma in COVID-19 Patients admitted to an intensive care unit in Kuwait  
Elsaran H, Alqinai S, **Al-Sabah S**  
Annals of Medicine and Surgery, 2021 Mar 1;63:102141.
  
9. Bariatric-Metabolic Surgery Utilisation in Patients With and Without Diabetes: Data from the IFSO Global Registry 2015–2018.  
Welbourn R, Hollyman M, Kinsman R, Dixon J, Cohen R, Morton J, Ghaferi A, Higa K, Ottosson J, Pattou F, **Al-Sabah S**. Obesity Surgery. 2021 Feb 27:1-0.
  
10. Does Laparoscopic Sleeve Gastrectomy lead to Barrett's esophagus, 5-year esophagogastroduodenoscopy findings: A retrospective cohort study  
**Al Sabah S**, AlWazzan A, AlGhanim K, AlAbdulrazzaq H, Al Haddad E  
Annals of Medicine and Surgery 2021 Feb 1;62:446-9.
  
11. Intra-gastric balloons – The past, present and future  
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Annals of Medicine and Surgery, (2012). 2021 Feb 2;63:102138-.
  
12. Applying augmented reality to treat Fournier’s gangrene in COVID-19 positive patients whilst safeguarding the multi-disciplinary surgical team: A Case Series  
K Alyaqout, S AlQinai, S Almazeedi, JS Karim, S Al-Youha, **S Al-Sabah**  
International Journal of Surgery Case Reports 2021
  
13. The first modified Delphi consensus statement on sleeve gastrectomy  
KK Mahawar, I Omar, R Singhal, S Aggarwal, MI Allouch, **SK AlSabah**  
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14. Repurposed antiviral drugs for COVID-19—interim WHO SOLIDARITY trial results WHO Solidarity Trial Consortium  
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15. Results from the first Kuwait National Bariatric Surgery Report  
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BMC surgery 20 (1), 1-10 2020
  
16. COVID-19 clinical outcomes and nationality: results from a Nationwide registry in Kuwait  
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17. A biomarker based severity progression indicator for COVID-19: the Kuwait prognosis indicator score  
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18. Body contouring surgery improves weight loss after bariatric surgery: a systematic review and meta-analysis  
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19. Low-cost polyester-tipped three-dimensionally printed nasopharyngeal swab for the detection of severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2)  
M Alghounaim, S Almazeedi, S Al Youha, J Papenburg, O Alowais, AbdulHussain G, Al-Shemali R, Albuloushi A, Alzabin S, Al-Wogayan K, Al-Mutawa Y, **Al-Sabah S**  
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21. Employing Augmented Reality Telesurgery for COVID-19 Positive Surgical Patients  
AlMazeedi S, AlHasan A, AlSherif, Hachach-Haram N, Al-Youha S, **Al-Sabah**  
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22. Temporal and Spatiotemporal Dynamics of COVID-19 epidemic in the State of Kuwait  
Alkhamis M, Al Youha S, Khajah M, Haider N, Alhardan S, Nabeel A, Almazeedi S, **Al-Sabah S**  
International Journal of Infectious Diseases, 2020 Sep 1;98:153-60.
23. Mid-Term Results of Revisional Bariatric Surgery post Sleeve Gastrectomy: Resleeve vs. Bypass  
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24. Endoscopic internal drainage by double pigtail stents in the management of laparoscopic sleeve gastrectomy leaks  
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26. Clinical Characteristics, Risk Factors and Outcomes Among the First Consecutive 1,096 Patients Diagnosed with COVID-19: The Kuwait Experience  
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33. Jamal, M. H., A. Karam, N. Alsharqawi, A. Buhamra, I. AlBader, J. Al-Abbad, Dashti, Y. B. Abulhasan, H. Almahmeed, and S. AlSabah. "Laparoscopy in Acute Care Surgery: Repair of Perforated Duodenal Ulcer." Med Princ Pract 28, no. 5 (2019): 442-48. <https://dx.doi.org/10.1159/000500107>.
34. Moheet, A. M., A. H. Shapshak, M. A. Brissie, **Y. B. Abulhasan**, G. M. Brophy, J. Frontera, W. R. Hall, S. John, A. A. Kalanuria, A. Kumar, A. V. Lele, S. Mainali, C. C. May, S. A. Mayer, V. McCredie, G. S. Silva, J. M. Singh, A. Steinberg, G.

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35. **AlabduljalilT**, CheungCS, VandenHovenC, MackeenLD, Kirby-AllenM, KertesPJ, et al. Retinal ultra-wide-field colour imaging versus dilated fundus examination to screen for sickle cell retinopathy. *Br J Ophthalmol*. 2020.

36. **Mohammad H Jamal**, Rawan Elabd, Rawan AlMutairi, Aqeel Albraheem, Ahmad Alhaj, Haytham Alkhayat, Obaid AlHarbi, Husain Almahmeed. The Safety and Efficacy of One Anastomosis Gastric Bypass as a Revision for Sleeve Gastrectomy. *Obesity Surgery*. 2020, 30(6):2280-2284

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37. Sulaiman Almazeedi, Sarah Al Youha, **Mohammad H Jamal**, Mohannad Al-Haddad, Ali Al-Muhaini, Fahad Al-Ghimlas, Salman Al-Sabah. Clinical Characteristics, Risk Factors and Outcomes Among the First Consecutive 1,096 Patients Diagnosed with COVID-19: The Kuwait Experience. *EclinicalMedicine*.2020; Vol (24),100448, July 01,2020

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38. Khawla Ali, Simon Whitebridge, **Mohammad H Jamal**, Mohammad Al-Safy and Stephen L. Atkin. Assessment of Public's Perceptions and Knowledge Towards the 2019 Novel Coronavirus (COVID-19): A Social Media Cross-Sectional Study. *Journal of Medical Internet Research*.2020; [10.2196/19913](https://doi.org/10.2196/19913)

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40. Jasmine Eliwa, Monira Alkandari, Abdulmajeed Albeloushi, Abdelrahman Alashqar, Amr Osman, Farah Albader, Ahmed Alhashemi and **Mohammad H Jamal**. Professionalism Narrative of Kuwait's Future Physicians: Impact of the Hidden Curriculum. *Teaching and learning in Medicine*.2020; Under review for publication.

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42. **Mohammad H Jamal**, Suhail Doi, Sarah Al Youha, Sulaiman AlMazeedi, Muhannad AlHaddad, Ali AlMuhaini, Fahad AlGhimlas, Muhammad Chowdhury, Salman K AlSabah. A Biomarker based Severity Progression Indicator for Covid-19: The Kuwait Prognosis Indicator Score. Biomarkers.2020; 25(8), 641–648, DOI: [10.1080/1354750X.2020.1841296](#)

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**Impact factor: 4.829**

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Management of patients with high-risk and advanced prostate cancer in the Middle East: resource-stratified consensus recommendations.  
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Impact factor: 3.3
62. Deborah Mukherji, Bassem Youssef, Christelle Dagher, Albert El-Hajj, Rami Nasr, Fadi Geara, Danny Rabah, **Saad Al Dousari**, Rabih Said, Raja Ashou, Wassim Wazzan, Michel Jabbour, George Farha, Nibras Al Hamdani, Yousuf Al Hallaq, Hassan Ghazal, Haifa Dbouk, Bassel Bachir, Clement El Khoury, Ghazi Sakr, Hero K. Hussain, Khaled Sayyid, Khaled Ibrahim, Mohammad Haidar, Nicolas Zouain, Nizar Bitar, Walid Alameh, Fadi Abbas, Sami Faddoul, Elie Nemer, Georges Assaf, Fadi Farhat, Muhammad Bulbul, Sally Temraz, Ali Shamseddine, Silke Gillessen, Aurelius Omlin, Raja Khauli.  
Management of patients with high-risk and advanced prostate cancer in the Middle East: resource-stratified consensus recommendations.  
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An exploratory study of public' awareness about robotics-assisted surgery in Kuwait. *Biomed Central Medical Informatics and Decision Making*. 2020 July; 20(1):140. United Kingdom.  
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64. Azhar RA, **Aldousari S**, Alghamdi MM, Alotaibi MF, Alkhateeb SS, Nassir AM, Alshaalan A, Yaiesh S, Rabah  
Robot-Assisted Radical Prostatectomy in Low-Volume Regions: Should it be Abandoned or Adopted? A Multi-Institutional Outcome Study.  
Journal of Endourology 2021. Published online. doi: 10.1089/end.2020.0770 United States.

Impact factor: 2.4

65. **Aldousari S**, Yaiesh S, Alkandari O.  
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Pathological features of prostate cancer in men treated with robot-assisted radical prostatectomy in the Middle East.  
Journal of Robotic Surgery. 2021 February; 15(1):125-133. United Kingdom.

Impact factor: 1.9

67. Fatima Khadadah<sup>1,2\*</sup>†Abdullah A. Al-Shammari<sup>3,4\*</sup>†Ahmad Alhashemi<sup>5</sup>, Dari Alhuwail<sup>4,6</sup>, Bader Al-Saif<sup>7,8</sup>, **Saud N. Alzaid**<sup>9</sup>, Barrak Alahmad<sup>10</sup> and Isaac I. Bogoch<sup>1</sup>The effects of non-pharmaceutical interventions on SARS-CoV-2 transmission in different socioeconomic populations in Kuwait: a modeling study

68. Khadadah, N. [1], Imtiaz, A. [2], AlShatti, R. [2], **AlZaid, S.** [3]

Knowledge of Local and Global Physical Trauma and Trauma Centers among Medical students in Kuwait

69. AlShatti, R. [1], Imtiaz, A. [1], **AlZaid, S.** [2]

Illustrating the lack of trauma surgery experience in the medical curriculum in Kuwait

70. Awad, S.1, Imtiaz, A. 2 , Qureshi, M. 3 , **AlZaid, S.** 4

Impact of Trauma and Road Traffic Accidents on Posttraumatic Stress Disorder in Kuwait

71. Mohammad H Jamal 1, Mohamed Abu-Farha 2, Ghanim Al-Khaledi 3, Suleiman Al-Sabah 3, Hamad Ali 4, Preethi Cherian 2, Irina Al-Khairi 2, **Fatemah AlOtaibi** 5, Waleed Al-Ali 6, Mira Bosso 6, Carol Dsouza 5, Jihad Abubaker 2, Fahd Al-Mulla 7

Effect of sleeve gastrectomy on the expression of meteorin-like (METRNL) and Irisin (FNDC5) in muscle and brown adipose tissue and its impact on uncoupling proteins

in diet-induced obesity rats.

72. Ali Lari, Mohammad Alherz, **Ali. Jarragh**  
Dissociating advances in Orthopaedic trauma management from the climbing patient expectations.
73. **Jasim Alabbad**, Fawaz Abdul Raheem, Saba Alsaddah, Abdulaziz Al-Mobarak, Hala Al-Qattan  
**Surgery versus conservative treatment for appendicular mass in adults.**  
Chirurgia  
(Turin). 2020 October;33(5):239-43. Italy.  
  
(Impact factor: 0.20, indexed in Scopus)
74. Fawaz Abdul Rheem, Saba Al-Saddah, Sarah Al Ben Ali, Zakariya Hassan, Jasim **Alabbad**.  
Weekend admission does not affect outcomes on acute cholecystitis. Chirurgia  
(Turin). 2020  
October;33(5):244-8. Italy.

#### **Books:**

**MH. Jamal**, R AlAbd. Sleeve Gastrectomy in Nash and Liver Cirrhosis. The Complete Book of Laparoscopic Sleeve Gastrectomy. First Edition. Springer. 2021 USA

Laparoscopic Sleeve Gastrectomy. Ed. **Al-Sabah S, Aminian A, Angrisani L, Al Haddad E, Kow L**. Springer Nature. 2020. ISBN 978-3-030-57372-0

Law No. 70 of 2020 Regarding the Practice of the Medical Profession, its Allied Professions and the Rights of Patients, and Medical's Facilities - **Salman Al-Sabah**, Center for the Gulf and the Arabian Peninsula Studies, Kuwait University, 2021, ISBN: 978-9921-749-24-3

#### **Workshop**

Expert panel from Middle-East in the workshop entitled "NAFLD: Sounding the alarm on a global public health challenge" by The Economist Intelligence Unit, 2021 supported by EASL (International Liver Foundation).

#### **Published Abstract**

The Impact of ABO Blood Group on Clinical Outcomes and Susceptibility in COVID-19: A Retrospective Population Study of 3305 Patients. Waleed Alduaij, **Mohammad Jamal**. American Society of Hematology (2020)

## **CONTRIBUTIONS**

### **a) Participation in Ministry / Government Activities**

#### **Prof. Adel Khader Ayed**

- 1) Chairman, Faculty of Surgery, KIMS
- 2) Convener of Examination Committee, Kuwait Surgical Board, KIMS
- 3) Head of Thoracic Surgery Unit, Chest Diseases Hospital
- 4) Member in the Higher Committee Investigating Professional Misconduct, Ministry of Health.
- 5) Continuing Medical Education Officer in Surgery, KIMS
- 6) Chief Invigilator for the MRCS Examination
- 7) Active member in Accreditation for Hospitals Committee in the Ministry of Health.

#### **Prof. Abdulla Behbehani**

- 1) Consultant Surgeon, Department of Surgery, Mubarak Al-Kabeer Hospital, Ministry of Health
- 2) Ministry of Health Fact Finding Committee for treatment abroad.
- 3) Member of Private University Council.
- 4) Member of Scholarship Committee - Private University Council.
- 5) Member of Development and Research – Private University Council.
- 6) KIMS – Assistant Director.
- 7) KIMS - Tutor

#### **Prof. Adel Al-Hunayan**

- 1) Consultant Surgeon, Department of Surgery, Mubarak Al-Kabeer Hospital, Ministry of Health
- 2) Head of Urology Unit, Mubarak Al-Kabeer Hospital.

#### **Dr. Mervat Al-Saleh**

- 1) Consultant Surgeon, Department of Surgery, Mubarak Al-Kabeer Hospital, Ministry of Health.
- 2) Member – KIMS promotion committee.

#### **Dr. Ibtisam Al-Bader**

- 1) Consultant Surgeon, Department of Surgery, Mubarak Al-Kabeer Hospital, Ministry of Health
- 2) Assistant Director, Kuwait Surgical Board (KIMS)
- 3) Chairperson of postgraduate exam committee (KIMS)

**Dr. Salman Al-Sabah**

- 1) Chairman, Department of Surgery, Jaber Al Ahmad Al Sabah Hospital

**Dr. Jasim AlAbbad**

- 1) Chairman, Department of Surgery, Mubarak Al Kabeer Hospital

**Dr. Saad Aldousari**

- 1) Director and Chairman, Sabah Al-Ahmad Urology Center (SAUC)

**b. Offices held in professional organizations**

**Prof. Adel Khader Ayed**

- 1) Editor, Kuwait Medical Journal
- 2) Chairman, Faculty of Surgery, KIMS
- 3) Director, Postgraduate Surgical Training Programme, KIMS

**Prof. Abdulla Behbehani**

- 1) Member, Kuwait Medical Association.
- 2) Member, International Society for research in trace elements in humans.
- 3) Member, International Society of Surgery (ISS)
- 4) Member of the Arab Board of Surgery, Damascus, Syria and Member, Examination Committee.
- 5) Fellow of the American College of Surgeons.
- 6) Member, Executive Council of Arab Board in Medical Specialization.

**Prof. Hussain Dashti**

- 1) Fellow of International College of Surgeons.
- 2) Member, Kuwait Medical Association.
- 3) Founder member of the International Society of Trace Element Research in Humans.
- 4) Member, International coordinating Committee of Afro-Asian Society for Advancement of Trace Element Research.
- 5) Member of European Society for Surgical Research.
- 6) Member of International Society of Surgery (ISS, SIC).
- 7) Member - Recruitment Screening Committee, Faculty of Medicine, Kuwait University.
- 8) Fellow of American College of Surgeons (FACS).
- 9) Fellow of the Royal College of Surgeons of Glasgow.

**Dr. Mervat Al-Saleh**

- 1) Member and Kuwait representative of NCCN – Mena Breast Cancer Guidelines Committee (National Comprehensive Cancer Network – Middle East Edition)



- 2) Member of the surgical oncology committee in the Arab Medical Association Against Cancer (AMAAC)
- 3) Member of the American Society of Breast Surgeons.
- 4) Member of the Association of Women Surgeons.
- 5) Member International Society of Surgeons (ISS)
- 6) Member International Association of the Surgeons of Trauma and Surgical Intensive Care. (IATSIC).
- 7) Member International Society of Cardiovascular Surgery.
- 8) Fellow of the American College of Surgeons.
- 9) Fellow of the Royal College of Surgeons of England.

**c. Advisory editor services for professional journals**

**Prof. Adel Khader Ayed**

- 1) Editor, Kuwait Medical Journal
- 2) Reviewer of Manuscripts for European Journal of Cardiothoracic Surgery

**Prof. Hussain Dashti**

- 1) Referee, Kuwait Medical Journal
- 2) Reviewer of Medical Principles and Practice
- 3) Reviewer of Nutrition Journal

**Prof. Khalid Al-Sebeih**

- 1) Referee, Kuwait Medical Journal

**Dr. Mervat Al-Saleh**

- 1) Referee for Kuwait Medical Journal
- 2) Referee for Medical Principles and Practice

**Dr. Abdulmutalib Behbehani**

- 1) Referee for Kuwait Medical Journal

**d. Active participation in professional conferences**

**Prof. Abdulla Behbehani**

- 1) 4<sup>th</sup> Kuwait International Conference on Multidisciplinary management of Head and Neck cancer, April 12 – 15, 2017.

**Dr. Salman Al Sabah**

- 1) International Federation for Surgery of Obesity and Metabolic Disorders, (IFSO) 2016, Rio de Janeiro, Brazil. September 28 – October 01, 2016.
- 2) American Society for Metabolic and Bariatric Surgery, New Orleans, USA, October 31- November 04, 2016.
- 3) SAGES 2017 meeting in Houston, Texas, USA. March 22 – 25, 2017.

**e. Service as external examiners outside Kuwait**

**Dr. Abdulla Behbehani**

- 1) External Examiner, Arab Board of Health Specialization, Basra, Iraq, February 2017

**f. Contribution to committees in the Faculty of Medicine**

**Prof. Adel Khader Ayed**

- 1) Ex-officio Examination Committee of Phase II Programme
- 2) Member, Faculty Council, Faculty of Medicine.

**Prof. Abdulla Behbehani**

- 1) Chairman, Departmental Scholarship Committee
- 2) Chairman, Departmental Promotion Committee
- 3) Chairman, Handicap Assessment Committee

**Prof. Adel Al-Hunayan**

- 4) Acting Vice President.

**Prof. Khalid Al-Sebeih**

- 1) Chairman, Departmental Academic Staff Recruitment / Contract Renewal Committee.

**Dr. Mervat Al-Saleh**

- 1) Member, Departmental Academic Staff Recruitment / Contract Renewal Committee.
- 2) Chairperson, Departmental Curriculum and Examinations Committee.
- 3) Member, Departmental Scholarship Committee
- 4) Chairperson, Clinical Tutor Committee.

**Dr. Abdulmutalib Behbehani**

- 1) Member, Departmental Promotion Committee

**Dr. Ahmed Al-Kandari**

- 1) Member, Departmental Academic Staff Recruitment / Contract Renewal Committee.
- 2) Chairman, Departmental Instrument Committee

**Dr. Mohammed Jamal**

- 1) Member, Departmental Academic Staff Recruitment / Contract Renewal Committee.
- 2) Member, Departmental Research Committee
- 3) Member, Departmental Scholarship Committee
- 4) Departmental Safety Committee

**Dr. Fahad Al-Asfar**

- 1) Departmental Research Coordinator
- 2) Member, Departmental Scholarship Committee

**Dr. Ibtisam Al-Bader**

- 1) Member, Departmental Curriculum and Examinations Committee.
- 2) Member, Clinical Tutor Committee.
- 2) Member, Departmental Safety Committee
- 3) Member, Handicap Assessment Committee

**Dr. Saad Aldousari**

- 1) Member, Departmental Academic Staff Recruitment / Contract Renewal Committee.
- 2) Member, Departmental Curriculum and Examinations Committee.
- 3) Member, Departmental Research Committee
- 4) Member, Departmental Scholarship Committee
- 5) Member, Clinical Tutor Committee.
- 6) Departmental Scientific Affairs Committee Representative

**Dr. Ali Jarragh**

- 1) 5<sup>th</sup> Year Phase III Co-ordinator
- 2) Member, Departmental Curriculum and Examinations Committee.
- 3) Member, Instrument Committee
- 4) Member, Clinical Tutors Committee

**Dr. Amar Alnaqi**

- 1) 7<sup>th</sup> Year Phase III Co-ordinator
- 2) Member, Clinical Tutor Committee.
- 3) Member, Departmental Curriculum and Examinations Committee.
- 4) Member, Departmental Safety Committee

**Dr. Salman Al Sabah**

- 1) Member, Departmental Research Committee
- 2) Member, Departmental Promotion Committee

**Dr. Ahmed Al-Khamis**

- 1) Member, Departmental Curriculum and Examinations Committee.
- 2) Member, Departmental Safety Committee
- 3) Member, Clinical Tutors Committee
- 4) Exam Coordinator

**Dr. Salman Alsafran**

- 1) 7<sup>th</sup> Year Chief Invigilator
- 2) Member, Departmental Curriculum and Examination Committee
- 3) Member, Clinical Tutors Committee
- 4) Member, Handicap Assessment Committee

**Dr. Abdullah Alfawaz**

- 1) Member, Departmental Curriculum and Examination Committee
- 2) Member, Clinical Tutors Committee
- 3) Member, Departmental Safety Committee

**Dr. Talal Alabduljalil**

- 1) 6<sup>th</sup> Year Phase III Co-ordinator
- 2) Member, Departmental Curriculum and Examinations Committee
- 3) Member, Clinical Tutors Committee
- 4) Member, Handicap Assessment Committee

**g. Contribution to committees outside the Faculty**

**Prof. Adel Khader Ayed**

- 1) Represent Faculty of Medicine in University Scholarship Committee
- 2) Represent the Faculty of Medicine in University Scientific Council.

**Prof. Abdulla Behbehani**

- 1) Consultant – Court medical cases.
- 2) Member of Kuwait Association for the Care of Children in Hospital (KACCH)

## **Prof. Khalid Al-Sebeih**

- 1) Board Member in the Kuwait Red Crescent
- 2) Chairman of the Kuwait Cochlear Implant Team
- 3) Board Member in Al-Razi Holding Company

### **h. Professional Development Attendance/Participation in Educational Courses** **NIL**

## **CONCLUSION**

Another academic year has come to a close and our new curriculum has turned eight years. It is firmly established, running smoothly and all the initial hiccups have been straightened.

This year the examination results were good and it is as follows: Out of the 110 students that appeared for the 5<sup>th</sup> year examination, there were 9 failures out of which 3 passed after resit exam. Out of 99 students appeared for the 6<sup>th</sup> year examination all passed. Out of 116 students that appeared for the 7<sup>th</sup> year examinations all passed with 5 students getting A grade.

<b>Grades</b>	<b>5<sup>th</sup> Year</b>	<b>6<sup>th</sup> Year</b>	<b>7<sup>th</sup> Year</b>
<b>A</b>	<b>5</b>	<b>-</b>	<b>2</b>
<b>A-</b>	<b>15</b>	<b>53</b>	<b>8</b>
<b>B+</b>	<b>20</b>	<b>25</b>	<b>19</b>
<b>B</b>	<b>31</b>	<b>20</b>	<b>36</b>
<b>B-</b>	<b>24</b>	<b>-</b>	<b>37</b>
<b>C+</b>	<b>5</b>	<b>1</b>	<b>13</b>
<b>C</b>	<b>4</b>	<b>-</b>	<b>1</b>
<b>F</b>	<b>6</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>110</b>	<b>99</b>	<b>116</b>

With the University's scholarship program in place, we are able to recruit promising and dedicated doctors to fill the vacancies we had in the various surgical specialties.

This year we had three doctors applying for scholarship training. After interviewing them, two were accepted by the Department and later by the Faculty Scholarship Screening Committee. We hope the he would be accepted by the University. With these two, the Department is becoming self-sufficient and we will have enough Faculty staff to reduce the Departmental dependence on Clinical Tutors.

## **BIOMEDICAL ENGINEERING UNIT**

## **INTRODUCTION**

### **Objectives of departmental programs**

The first steps were taken to establish a Bioengineering Unit (BEU) in 1977. Initially, it was part of the Physiology Department until, in 1984, it was moved to the new building of the Faculty of Medicine in Jabriya to provide faculty-wide bioengineering assistance. The unit consists of the Electronic Workshop (oriented toward biomedical electronics) and the Mechanical Workshop (oriented toward biomedical mechanics). The workshops are mutually dependent and closely joined as biomedical engineering disciplines. Both contribute significantly to the faculty in terms of providing biomedical engineering-related services and support for the teaching, research, and clinical activities of other departments.

### **The Electronic Workshop offers the following services:**

- Guidance in the selection of new instruments, installation, and commissioning; training of operators.
- Advice concerning measuring methods for research, modifications, and interfacing instruments from different manufacturers; assembly of measuring systems.
- Design and production of single-purpose instruments for research.
- Diagnosis of technical problems; repairing faulty instruments; preventive and corrective maintenance.
- Advice regarding external service contracts (estimation of workload, evaluation of cost).
- Advice regarding the selection and purchase of essential spare parts; coordination with other departments.
- Demonstration of instruments during practical classes; explaining principles and teaching students how to operate instruments.
- Periodical electrical safety inspections and correction of ascertained problems.
- Help with the training of junior technical staff.
- Checking all departments' equipment before approving for discard.

### **Other main duties:**

- Stock-taking of laboratory equipment.
- Stock-taking of electronic components.
- Installation of new equipment.
- Supporting the reinstallation of varied equipment in other departments.
- Supporting teaching activities.
- Supporting research work.

### **The Mechanical Workshop offers the following services:**

- Mechanical repair of faculty instruments for teaching and research.
- Mechanical modification and adaptation of instruments as required by research.
- Mechanical design and production of simple-purpose instruments for teaching and research.
- Consultations concerning mechanical qualities of new instruments and equipment planned for other departments.

- Manufacturing of metal and plastic parts as per delivered drawings or models. (Note: No facilities for glass working or glass blowing).
- Installation of new instruments; helping companies with installations.
- Cooperation with the Maintenance and Engineering Department.
- Preventive maintenance of mechanical instruments and systems.

**Other main duties:**

- Stock-taking of workshop equipment.
- Stock-taking of mechanical materials.
- Completing the necessary tools.
- Supporting the installation and reinstallation of varied equipment in other departments.
- Covering biomechanical needs combined with teaching and research activities in other departments.

**Obstacles to meeting these objectives:**

A stock-take of the general use of electronic components is important and necessary for the servicing of existing instrumentation and design of new instruments, especially as required by teaching and research programs. Stock requires continuous replenishment and updating with new components.

It would greatly improve the efficiency of instrument utilization (financial savings, better maintenance) to request the following simultaneously with purchase orders for new equipment:

1. Service manuals and single-purpose tools.
2. Stock of spare parts.
3. Estimation of costs of service contracts.

**Current developments:**

Both the Electronic and Mechanical Workshop are fully integrated in departmental educational and scientific activities. The BEU is prepared to provide technical help to newly-established faculties.

**PERSONNEL**

**ACADEMIC STAFF**

Dr. Ali S. Shuaib, B.Sc., M.Sc., Ph.D.  
 Director of BEU  
 Assistant Professor, Department of Physiology

Dr. Ali K. Bourisly, B.Sc., M.Sc., Ph.D.  
 Assistant Professor, Department of Physiology

Dr. Laila K. Habib, B.Sc., M.Sc., Ph.D.  
 Assistant Professor, Department of Physiology



## **TECHNICAL STAFF**

### **a) Electronic workshop:**

- Mr. Vladimir Zika, B.Sc.  
Chief Technician, Electronic & Biomedical Engineering

### **b) Mechanical workshop:**

- Mr. Rudolf Kusy, Cert. Eng.  
Chief Technician, Mechanical Engineering

## **CONTRIBUTION**

The main function of the Electronic and Mechanical Workshops is to provide services for other academic departments. Major jobs are requested on standard forms, with the approval of the departmental chairman. Minor jobs are requested verbally. Many major and minor jobs have been completed so far this academic year (as well as inspection of equipment for discard) in the BEU (both Electronic and Mechanical Workshops). The BEU saves money, and, more importantly, time for all at the Health Science Center (HSC).

## **PROSPECTIVE FUTURE PLAN**

- 1- Employ sufficient technical staff to increase the number of jobs completed per year.
- 2- Involve more in HSC research, from device modification to custom set-up building devices.
- 3- Establish a medical instrument to teach HSC students the basics of instruments.
- 4- Establish an imaging lab to expose HSC students to the latest optical imaging and functional neuroimaging.

## **CONCLUSIONS**

The BEU provides biomedical engineering-related assistance to the HSC in teaching and research activities as standard. In addition, important work is undertaken in the repair and/or completion of defective or damaged instruments for all HSC units. Assistance from Faculty to improve the BEU is required to enhance the unit's service performance and to establish instrumentation and imaging laboratories to educate HSC students and staff on medical instruments.

**MEDICAL PHOTOGRAPHY  
AND ILLUSTRATION UNIT**

## INTRODUCTION

**Medical Photography and Illustration:** Provides basic Teaching, Research, Publication and Presentation facilities to the academic staff in the form of Digital Images, different sizes of prints, Scanning of the documents and photography of research & clinical specimens. It also provides help in documentations of clinical cases by video or still photography while in operation theatre or in hospital wards and in the clinical skill-lab.

**Research Posters:** This unit is supplying all types of help through Poster making and printing posters for Poster conferences of HSC and for academic missions outside the Kuwait.

**Videography** of different ceremonies, conferences, lectures etc, including copying different video formats to other digital formats for the Faculties of Medicine, and in limits to Allied Health, Dentistry, Pharmacy and Public health. Most of the video jobs are from faculty of Medicine. This includes the videography of International conference, Consultation office workshops, Annual Poster Conference, seminars workshops of HSC and farewells, and many other programs organized by other faculties of HSC (in limitations depending upon time and staff availability in our unit).

This unit provides personal images of more than 400 Staff of Faculty of Medicine to the administration for publishing Annual Staff-Student “Hand Book” every year. We also provide the images of faculty activities to the Media section of the faculty for publishing in “Afaq” and local newspapers and other magazines.

### JOB REVIEW.

The following is the summary of the main output from this Unit (April 2020-May 2021) of the Academic year 2020-2021.

Due to Covid-19 pandemic teaching activities of FOM remained interrupted and even still all teaching and research activities are not in full form and followings are the summaries of some activities and services provided by this unit even during this Covid-19 pandemic:-

<b>IMAGES</b>	=	<b>1450</b>
<b>PRINTS</b>	=	<b>184</b>
<b>SCANNINGS</b>	=	<b>275</b>
<b>POSTERS</b>	=	<b>10</b>
<b>VIDEO SESSIONS</b>	=	<b>120 hours</b>

Due to the Corona pandemic FOM remained closed for a long period and Teaching, Research and other activities were also stopped. Due to the limited staff and equipment we provide these services to other faculties of HSC depending upon availability of staff /time.

## **Equipment:**

We have two A4 table top color printers (HP pro-7820, Kodak 9810 Digital Printer) for printing different sizes of prints. One large Format Poster printer purchased in (Epson Pro 9880) 2011. This printer has been used too much and need to be replaced with new one. During March 2021 we have received a new larg format printer for making posters.

For 25<sup>th</sup> HSC Poster Conference in March 2020 we borrowed one large format poster plotter from Kuwait University Shuwaikh printing press and started making posters for this conference and all the posters which were submitted to our unit for printing were printed and are ready to display when new date for this conference will be announced. This is to mention here that this borrowed poster plotter is not working because it was not in use since March 2020 due to the closure of the University during this Covid-19 pandemic. This plotter was not under maintenance and needs to be maintained by the company for its use in future.

We have one mini DV video camera (Sony HDV purchased in 2009)

Due to the continuous changes in technology we purchased two Panasonic digital video cameras in 2016 with memory cards which are now in use.

For Video-Editing we have one computer with software purchased in 2011.

This computer and its software must be replaced with new system because this is very old now and cannot be updated according to new the technology and therefore a new computer with Edius-10 software has been purchased in March 2021.

We have four digital Photographic cameras for still photography, out of these one D-5300 was purchased in 2015 and one D-5600 was purchased in February 2021. We have two old digital still photography cameras D-200 (2006) and D-1X (2003) which are old models and their batteries are not in market now, and these two will be discarded in this year.

We have one photograph printing (Digital System 88/) machine which is 19 years old (2002) and out of maintenance for 10 years due to denial for maintenance from manufacturer because model is very old and spare parts are not available and this machine will be discarded during this year.

We have one KROY digital lettering machine purchased in 1993 and is very useful for our unit. A similar machine will be purchased next year because this machine is very old (30 years in use).

## **PRESENT SITUATION IN THE UNIT.**

This unit started it services in 1979 and then this unit was providing service only for faculty of Medicine and then slowly started providing services to other faculties of HSC and staff members increased to 6, later digital and computerized services were introduced to the academic staff members of the HSC and staff of our unit decreased to just one technician and one chief technician. We are only two persons (including me) for five faculties of HSC and on the instruction of Vice president of HSC I am asked to provide all types of services from medical photography unit to the other faculties of HSC. This unit belongs to FOM and it is always our priority to provide the requested service to FOM staff and give any service to other faculties depending upon time/staff available in our unit.

This is impossible to provide all services at the same time to other faculties of HSC with the available manpower in photography unit.

**Photography Archive-**We have a very good Digital photograph Archive of most of the staff and events comprising a history of faculty of medicine since 1976. This archive is done by scanning all the photographs and negatives of the events and staffs of this faculty and this job is done by a work of years on the scanner and computer and still this is a continuous process.

**Video Archive-**A Digital Video Archive is also in the department comprising conferences, Poster-days, lectures, workshops and graduation ceremonies. Another very large number (400 pcs.) of VHS Video Archive of the activities of this faculty is also in our unit.

## **FUTURE PLAN**

It was the need of our unit to replace old Video-Editing system and Large Format Printer and therefore these two equipment have been received during this March and these are enough to fulfill the photographic and printing needs of FOM.

According to the instruction of Vice President of HSC to provide photographic/video services to other faculties of HSC it is necessary to induct a new young staff member in Photography unit who should have a good experienced in Medical Photography/printing on large format printer/videography/video editing on Edius10 and Adobe Photoshop other software in computer.

## **CURRENT STAFF.**

- |    |                      |                             |
|----|----------------------|-----------------------------|
| 1. | Mohammad Siddique    | Chief Technician & Incharge |
| 2. | H Zakir Hussain      | Printing Lab. Technician    |
| 3. | Ms. Dana Al-Jarallah | Media researcher            |