



ANNUAL REPORT 2019 - 2020

FACULTY OF MEDICINE
HEALTH SCIENCES CENTER
KUWAIT UNIVERSITY



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**Noura Al-Sweih
Vice Dean
Academic & Student Affairs**

**Eiman Mokaddas
Acting Vice Dean
Research & Postgraduate Studies**

TABLE OF CONTENTS

Administration

Office of Vice Dean for Clinical Affairs, Consultation & Training	7
Office of Vice Dean for Academic Affairs	47
Office of Vice Dean for Research & Postgraduate Studies	72

Academic Departments

Anatomy	151
Biochemistry	173
Community Medicine & Behavioral Sciences	206
Medicine	233
Microbiology	274
Nuclear Medicine	353
Obstetrics & Gynecology	374
Organ Transplant	406
Pediatrics	418
Pathology	457
Pharmacology & Toxicology	480
Physiology	502
Psychiatry	529
Radiology	543
Surgery	555

Centers & Units

Biomedical Engineering Unit	580
Centre for Medical Education	585
Medical Photography & Illustration Unit	595

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 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. Support Academic Staff

a) Promotions:

Nine Teaching Assistants (Osama Habib in Biochemistry, Abdullah Al-Majran and Manal Al-Kandari in Community Medicine, Ola Moghnai, Mariam Badran and Noura Al-Mutairi in Microbiology, Jehan Al-Shammeri in Nuclear Medicine, Mariam Al-Awadi and Elham Ghadhanfar in Physiology) have been promoted.

b) Appointments:

Two Teaching Assistant joined the Faculty this year (Iman Mansour in Anatomy, Rashed Al-Hammad in Pharmacology & Toxicology). One nomination for Teaching Assistants was forwarded to the Office of the Vice President for Academic Affairs (Ahmad Al-Sultan in Community Medicine).

c) Advertisements:

Twenty-five advertisements for Teaching Assistant and four advertisements for Clinical Instructors have been requested by different Departments. The request has been forwarded to the Office of the Vice President for Academic Affairs and is awaiting approval to be advertised on the website.

2. Technical and Administrative staff:

Overall there were eleven resignations/retirements in the past year which have been replaced by twenty-nine new staff.

3. Instrument Committee:

This year all requests were reviewed by Vice-Dean for Clinical Affairs, Consultation & Training Office.

A more detailed report related to the Vice-Dean for Clinical Affairs, Consultation & Training Office offices is attached.

STAFF MEMBERS:

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

Support Staff:

Mrs. Rekha Biju – Technician

Ms. Hessah. Ibrahim Faraj –coordination for Administration & Transaction

Ms. Fatima Zahra – Executive Secretary

Consultation Office:

Mr. Mohammad Taher

Mr. Abdul Razak Shaheen

Mr. Waleed Al-Saleh

Ms. Yasmeen Al- Bader

Finance and Purchasing:

Mr. Hussain Al- Tabtabaei – Accountant

Ms. Yousra Ibrahim -Secretary

Mr. Sherif A. Subhi - Senior Accountant

Mr. Waleed Salah Eldin – Senior Accountant

Ms. Latifa Salem Ben Fereh – Accountant

Mr. Abdulla Al- Mutawa -Accountant

Mr. Sadeq S Aly – Senior Programmer

Mr. Roben Jacob Walanjatil- Senior Engineer

Mr. Mohamood Ahmed Mehran – Senior Assistant

Service Department:

Mr. Abdullah Fadel Ali - Head of Department

Mr. Mohammed A Sadeq – Administrative Assist. Coordinator

Mr. Sayed Wazir Hussain – AC Technician

Mr. Ninan Geevarghese –Technician

Medical Photography 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

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

- Letter sent to construction & Maintenance dept. to **Replace the current number board to reflecting type Board** and do the necessary **maintenance work** including **painting in parking Building. (Only painting and maintenance work Done)**
- Letter sent to construction & Maintenance dept. to **Replace the present florescent lamp to LED Lamps** in all seminar rooms. **(Work Done)**
- Due to the **Shortage of space for PBL** classes; letter sent to Planning Department to convert **MDL 3, 4 & 8 to PBL classes. Made 11 classes.** (up on request from Vice dean Academic), **(work Done).**
- Letter sent to construction & Maintenance dept. to **replace old glass door and automatic doors in Main entrance of gate 1 & 2. (work Done).**
- Letter sent to planning department to **divide office 342A & 342 B with new entrance from lab. 341 in Physiology Dept.** (up on request from Department), **(Work Done).**
- Due to the shortage of space in **Finance Dept., Room 130** divided in to **two offices.**
- As per our future plan of past years, Letter sent to construction & Maintenance dept. to **Replace vinyl flooring in Main Entrance area of 2nd floor to 5th floor. (work Done)**
- Letter sent to construction & Maintenance dept. to **change present 2 glass doors to wooden door in room 12 and an automatic door in room 13, EM Unit,** (up on request from Department), **(changed only one glass door to wooden door in room 12).**

- As per our future plan of past years **Lecture Theatre 141 and 142 renovated and 143, 144 and 010 is under renovation.**
- As per our future plan of past years **Toilet 136 & 137., Toilet 148 & 149 are renovated. Toilet 047 in ground floor is under renovation.**
- Letter sent to construction & Maintenance dept. **to replace vinyl flooring inside departmental corridor in 3rd floor. (Work postponed).**
- Letter sent to construction & Maintenance dept. to change present flooring to ceramic flooring in **ARC room 170 to 173.** (up on request from Department), **(Work declined by construction & Maintenance dept.)**
- Following Work Accomplished in ARC.
 - 102,103,105,147,148 & 149 flooring, Ceiling, Light and ceramic tiles installed on wall.
 - 36 to 44, 49,50,71 &104 Flooring, ceiling & light
 - 170 to 173 ceiling & Light
 - 147 to 149, 111, 102,103, 105, 54,53 & 51 replace water pressure reel
 - Disconnect the gas pipe line in the corridors.
- Renovated the following rooms:-
 - **Medical Education Unit:-** Full dept. (Flooring ,Ceiling, Light and Paint.)
 - **EM Unit:-** Office 012. (Flooring ,Ceiling, Light and Paint.)
 - **Store:-** Office 01A,01B, 01C (Flooring ,Ceiling, Light and Paint.)
 - **MDL:-** Corridor and offices (Light Replaced)
 - **Administration:-** All offices and corridors (Light replaced)
 - **Pathology:-** Office 207, 207A, 207B, 207C, 208A, 208B, 211A, 221A (Flooring & Painting)
 - **Surgery:-** Office 273 (ceiling & light), 256A, 257, 258, 262, 268, 272, 274, 275, 277, 278 (Light Replaced)
 - **Medicine:-** Office 355, 366 (Flooring ,Ceiling, Light and Paint.)
 - **Pharmacology:-** Office 310A (Ceiling, Light & Painting) corridor and all labs and offices (Light replaced)
 - **Physiology :-** Lab./Office 338, 349 (Flooring), 336, 337, 344,341, 344, 344A, 343, 343A (Light Replaced).
 - **Psychiatry:-** Full dept. (Flooring ,Ceiling, Light and Paint.)
 - **Nuclear Medicine:-** Office 445, 445A to 445C, 447, 447 A to 447 D, 448, 448A, 457, 457A (Flooring ,Ceiling, Light and Paint.)
 - **Biochemistry:-** Lab. 423, 423A (Flooring Only)
 - **Obst. & Gynaec.:-** Office 429, 435, 436,436A, 436B (Flooring only)

- **Microbiology:-** Office 524, 526,526B, 528A, 529, 530, 531A, 551, 551A, 551B, 560, 561, 562, (Flooring ,Ceiling, Light and Paint.), Labs in Immunology Unit & corridor, 016 A to 016E (Light Replaced)
- Letter sent to construction & Maintenance dept. to **replace broken window glass** in room **014N, 017,113, 212, 357, 358 (Work Done).**
- Letter sent to construction & Maintenance dept. to **renovate room 034, 035 & 038 in MDL. (Work under correspondence).**
- Due to the shortage of space in **Prayer Room, Extend the space** and made **high partition, replaced present doors** and **install an additional door for exit. (Work Done)**
- Made necessary arrangement to **install 2 wending machines in 1st floor. (Work Done).**
- Due to the lack of space for cleaning company staff's to register their attendance, **built a small building** next to cleaning co. office **to installing finger print machines. (Work Done).**
- **Upgrade Electrical DB in Microbiology Dept. and MDL area. (Work Done)**
- Provide **Extra Water and Drain Facility** and **Electrical supply** for new **Restaurant in Cafeteria. (Work Done).**
- Made necessary arrangement to **Renovate Lab 341. (Work Done).**
- Letter sent to construction & Maintenance dept. to **install new cameras in pathology museum. (Work declined by construction & Maintenance dept.)**
- Letter sent to planning department to **implement better facility for handicap person to Easy access between parking and F.O.M. Building. (Work refused)**
- **Renovate Trophy's cupboard in Administration.**
- Made necessary arrangement to **renovating and opening of New Dissection Unit.**
- Letter sent to construction & Maintenance dept. to **Replace Flooring, Ceiling & Light & Paint in room 355,** install an **automatic door** in the **entrance of 355.** (up on request from Department). **(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 under correspondence).**
- Letter sent to construction & Maintenance dept. to **do full renovation of 1st floor in RCF building. (Work Started).**

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.
- Provide Electrical extension cords in required Labs and offices for computers up on request.
- Install or re-locate network cables through Trunking 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.

Future Plans

- Renovate Cafeteria.
- Replace vinyl flooring inside Departmental corridors in all floors.
- Replace existing florescent lights to LED Lights.
- Renovate lobby.
- Open a “*Trolley supermarket*” in campus.

LEGAL CONSULTATION DEPARTMENT

Tasks assigned to the Legal Consultation Office and accomplishments during the aforementioned period:

- 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 member of the Faculty's Employment Committee, moreover prepare the necessary administrative and legal letters and correspondences.
- Rapporteur of the technical Committee on the Administrative and Financial Affairs – Faculty of Medicine.
- Member of the Dean's Executive 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.
- Rapporteur of the Fact- Finding Committee, Faculty of Medicine, also prepare minutes of the meetings and form the recommendations.
- Prepare the correspondence for the Operational Plan for Kuwait University 2013-2017.
- Prepare the correspondence for the Strategic Plan for Kuwait University 2018-2022.
- Follow-up all subjects of the Faculty of Medicine's Administration related to University's Administration.
- Conduct all the assigned legal tasks, administrative researches and any other assigned works.

MAIL DEPARTMENT

Post Office Tasks

The first tasks:

- It is within the faculty (issuing letters that issued by personnel affairs of the employees as well as financial affairs and mail for all departments directed outside the faculty.
- Distributing the circulars.
- Receiving external correspondences from the general mail, receiving college parcels from Kaifan Post, in addition to providing express mail service at reduced prices.
- Receiving incoming mail to employees and distributing it to the academic departments. Mubarak Al-Kabeer, Faculty of Dentistry, Faculty of Pharmacy, and Faculty of Allied Health.

The second tasks:

- The Capital Region, including (the Amiri Hospital - medical specialties - which are - Kuwait Foundation for the Advancement of Sciences - medical warehouses - forensic evidence - private hospitals of the Capital Governorate and around health centers - the Ministry of Justice - medical companies - medical licenses).
- Distributing the faculty mail, distributing conference cards, and also receiving postal parcels.

The third tasks:

- The mail for Khaldiya, delivery mail to all departments as follows: (Office of the university president - all departments in the university).
- Making a link between the Social fund and the participants.
- Issuing identities - issuing travel tickets - Doing the transactions of scientific missions - receiving special checks from the financial department for employees within a power of attorney approved by the administrative manager, as well as distributing the mail of staff in Khalidiya, issuing salary, continuity certificates for service, and also handing over passports to the Passports Division to renew residency.

The fourth tasks:

- Al-Sabah Health Area and all the hospitals affiliated to the Makki Jamaa Center - Al-Bahr Center - Al-Sabah Hospital, including (Internal Medicine - Surgery - Pediatrics - Nose - Ear - Throat - Childbirth - Allergy - Psychiatry) - Al-Razi Hospital - Ibn Sina Chest and Dermatology Hospital (Tuberculosis), labor examination, supervision, medication, infectious skin diseases, Hamed Al-Issa, Al-Nafisi, Laboratories Department, Ministry of Health, pre-marital and two-door, hearing and speech examination.
- Jahra Health Area - Al Jahra Hospital - Health Centers - Ahmadi Health District - Al Adan Hospital - Al Ahmadi Hospital - Jaber Al Ahmad Armed Forces Hospital - Private Hospitals - Private Hospitals of Jahra, Ahmadi and Mubarak Al Kabeer governorates.
- Shuwaikh Area and all Faculties - Warehouse Management - Construction and Maintenance Department - Furniture and Housing Department - Admission and Registration Student Affairs Department - Printing Press, Afaq Magazine, Sports Activities, Faculty Members Association for Computer).

Important note:

We have often had to transfer the mail to the next day because there is no second car, as it is impossible to complete the distribution to all areas in one day.

SAFETY COMMITTEE

Health and Safety Committee Members:

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

The 2020 Health and Safety Committee was formed by the Dean of Medicine Executive Committee on 2nd June 2020. A welcome online meeting was held on 10th 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 regulations from the Ministry of Health and Kuwait University were adopted for all the protocols and action plans issued by the committee.

In the following weeks the committee held nine online meetings, and two online meetings with the Strategic Curriculum Teaching Plan committees. 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 4th 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:

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.

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.
- Revise the location and quantity of Fire extinguishers in all location of FOM.
- 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

ANNUAL REPORT FOR PERSONNEL DEPARTMENT DURING THE ACADEMIC YEAR 2019-2020
(during the period from 1/4/2019 till 31/3/2020)

DESIGNATION	Chief tech.		Technician		Secretary		Farash		Admin.		Maint.	
	R	A	R	A	R	A	R	A	R	A	R	A
Surgery				1	1	2						
Medicine	1		2	1		1						
Pharamacology						2						
Pediatrics				2								
Comm.med.			1			1						
Biochenistry				2								
Obs. & Gyn.						1						
Physiology				3	1							
Pathology			1									
Nuclear med.						1						
Radiology												
Anatomy				1								
Microbiology				2								
Psychiatry						1						
Med.photo												
Em. Unit												
Medical Edu.				1								
MDL												
Animal house												
Administration					1	5	1		2	2		
Total												

R = Resignation

A = Appointed

ACADEMIC STAFF RECRUITMENT REPORT 2019/2020

Approximately 111 applications were received. All applications were forwarded to the Departments according to routine procedures.

Three candidates were interviewed.

The breakdown of the 111 applications are detailed below:

Department	No. Applied	Rec for I.View	Rejected	Withdr.or Declined	Joined	In Process	Others
Anatomy	-	-	-	-	-	-	-
Biochemistry	22	-	-	-	-	-	-
Com.Medicine	13	3	2	-	-	1	-
Microbiology	43	-	-	-	-	-	-
Pharmacology	18	-	-	-	-	-	-
Physiology	-	-	-	-	-	-	-
Medicine	7	-	-	-	-	-	-
Nuclear Med	3	-	-	-	-	-	-
Obst. Gynae.	1	-	-	-	-	-	-
Pathology	1	-	-	-	-	-	-
Paediatrics	-	-	-	-	-	-	-
Radiology	3	-	-	-	-	-	-
Psychiatry	-	-	-	-	-	-	-
Surgery	-	-	-	-	-	-	-
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<u>Total</u>	<u>111</u>	<u>3</u>	<u>2</u>	-	-	<u>1</u>	-

Detailed lists with names and comments are on the following pages:

RECRUITMENT OFFICE

ANNUAL REPORT 2019/2020

ACADEMIC STAFF WHO JOINED

Name	Department	Post	Result	Date
Mahmoud Al-Mas	Pharmacology	Professor	Joined	3/2/2020
Talal Alabduljalil	Surgery	Assistant Professor	Joined	11/3/2019

RECRUITMENT OFFICE

ANNUAL REPORT 2019/2020

ACADEMIC STAFF

	Department	No. Appl.	No. Re-commnd	Name	Post	National.	Result	Reje-cted	Dec./Withd	Joi-ned	In Pr-ocess	Not Interviewed
1	ANATOMY	-	-									
2	BIOCHEMISTRY	22	None									
3	COMMUNITY MEDICINE	13	3	Dina Mohamed Sami Khalifa	Assistant Professor	Canadian	Rejected	1				
				Ahmad Salman	Assistant Professor	Kuwaiti	Rejected	1				
				Gamal Mohamed	Visiting Professor	Sudan	In Process				1	
4	MICROBIOLOGY	43	None									
5	PHYSIOLOGY	-	-									
6	MEDICINE	7	None									
7	NUCLEAR M.	3	None									
8	OBS & GYN.	1	None									
9	PHARMACOLOGY	18	None									
10	PATHOLOGY	1	None									

11	PAEDIATRICS	-	-									
12	RADIOLOGY	3	None									
13	PSYCHIATRY	-	-									
14	SURGERY	-	-									
Total No. Applied:		111	3					2	-	-	1	-

Recruitment Office

Applicant's Nationalities

Annual Report 2019/2020

SUMMARY

Department	Nationality	USA & Canada		South America	Arabs		Europe		Asia & Australia	Africa	Nationality Not Specified	
Anatomy	-	Canada	4		Iraq	1	Ireland	1	India	11	Ant.	-
Biochem.	22	USA	5		Egypt	34	Sweden	1	Pakistan	2	Bio.	-
C.M.	13				Jordan	6			Tukey	4	C.M.	-
Micro.	43				Syria	2			Bangladesh	3	Mic.	-
Pharma.	18				Bahrain	1			Iran	1	Phar.	-
Physio.	-				Sudan	17					Phys	-
Medicine	7				Kuwait	16					Med.	-
N. Med.	3				Palestine	1					N.Med	-
OBG.	1										OBG.	-
Pathology	1										Path.	-
Pediatrics	-										Ped.	-
Radiology	3										Radi.	-
Psych.	-										Psyc.	-
Surgery	-										Surg.	-
111		9			78		2		21	1	-	

ANNUAL REPORT - SUPPORT ACADEMIC STAFF
ACADEMIC YEAR 2019 - 2020 (until November 2020)

S.NO.	DEPARTMENTS	TEACHING ASSISTANT POSITIONS ADVERTISED			CLINICAL INSTRUCTOR POSITIONS ADVERTISED			STAFF WHO JOINED		STAFF WHO GOT PROMOTED	
		IN PROCESS (INTERVIEW PENDING)	CANDIDATE SELECTED	REQUEST FOR READVERTISEMENT	IN PROCESS (INTERVIEW PENDING)	CANDIDATE SELECTED	REQUEST FOR READVERTISEMENT	TEACHING ASSISTANT	CLINICAL INSTRUCTOR	TEACHING ASSISTANT	CLINICAL INSTRUCTOR
1	Anatomy	—	—	6	—	—	—	1	—	—	—
2	Biochemistry	—	—	1	—	—	—	—	—	1	—
3	Community Medicine	—	1	2	—	—	—	—	—	2	—
4	Medicine	—	—	1	—	—	1	—	—	—	—
5	Microbiology	—	—	1	—	—	—	—	—	3	—
6	Nuclear Medicine	—	—	—	—	—	—	—	—	1	—
7	Obstetrics & Gynaecology	—	—	1	—	—	1	—	—	—	—
8	Organ Transplant	—	—	3	—	—	1	—	—	—	—
9	Paediatrics	—	—	2	—	—	—	—	—	—	—
10	Pathology	—	—	5	—	—	—	—	—	—	—
11	Pharmacology & Toxicology	—	—	—	—	—	1	1	—	—	—
12	Physiology	—	—	—	—	—	—	—	—	2	—
13	Psychiatry	—	—	—	—	—	—	—	—	—	—
14	Radiology	—	—	—	—	—	—	—	—	—	—
15	Surgery	—	—	3	—	—	—	—	—	—	—
TOTAL		0	1	25	0	0	4	2	0	9	0

FINANCE AND PURCHASING DEPARTMENT

1. Departments' Requests and Supplies

- All the departmental request forms were received and sent to the University's Procurement 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 concluded 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 \ Maie Al-Bader - Vice Dean for Clinical Affairs, Consultation and Training 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 Procurement 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 10 to 12 March 2020. The University Administration's has been addressed to allocate an amount

of 3000 KWD and this was approved. All procedures for that celebration were implemented; 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. Conference of the Deans of Medical Facilities in the Gulf Cooperation Council

- The Finance Department has prepared a budget to organize this important conference, which is held twice a year in one of the universities of the Gulf Cooperation Council countries to discuss the latest scientific methods in teaching students of medical faculties. The Faculty of Medicine hosted this conference during the month of October 2019 at the Marina hotel with the presence of Kuwait University's President and more than 30 dean of medicine from all the countries of the Gulf Cooperation Council. Coordination with university administrations to provide all the requirements of this important conference was done, and with the participation of the Public Relations Department, delegations were received at the airport, hotel rooms were booked for them. All the guests were treated appropriately and they highly appreciated the efforts exerted to make it a successful conference.

5. Estimated Budget and Inventory Cost Estimate

- A faculty's draft budget for the fiscal year 2020/2021 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 2019/2020 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 2019 was settled which was registered in the name of faculty staff and some technicians during the fiscal year ending on 3/31/2020.

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.

Company Name	Contract's Value	Contract Number	Supply Start Date	Supply End Date	Pricing	Transaction	Form	Department	Required
<u>Statement of Transactions of the Faculty of Medicine's Priorities for Laboratory Equipment for the fiscal year 2019/2020</u>									
Averroes	18830.000	7984	6/10/2019	5/01/2020	3208	214/مم	0790/17	Microbiology	Lab equipment
Tectron Co.	13800.000	7985	6/10/2019	5/01/2020	3208	214/مم	0790/17	Microbiology	Lab equipment
Powerhome Contracting	1595.000	8483	8/12/2019	14/01/2020	3149	365/مم	0613/17	Microbiology	Lab equipment
Scientific Supply House Co.	2823.000	7831	29/09/2019	2/01/2020	3140	233/مم	2485/18	Microbiology	Lab equipment
Al Hajri Gulf	3587.000	7832	22/09/2019	26/12/2019	3140	233/مم	2485/18	Microbiology	Lab equipment
Tektron	6500.000	7833	1/10/2019	31/12/2019	3140	233/مم	2485/18	Microbiology	Lab equipment
Advanced Technology Co.	13597.000	7835	22/09/2019	23/01/2020	3140	233/مم	2485/18	Microbiology	Lab equipment
Mousa Bahman	1875.000	8092	27/10/2019	26/01/2020		311/مم	1524/18	Microbiology	Lab equipment
<u>Total Microbiology</u>	<u>62607.000</u>								
Bader Sultan	13800.000	8282	10/11/2019	20/02/2020	3147	221/مم	0789/17	Anatomy	Lab equipment
Al Essa Co.	41650.000	8283	17/11/2019	27/02/2020	3147	221/مم	0789/17	Anatomy	Lab equipment
Advanced Technology Co.	9975.000	8284	10/11/2019	20/02/2020	3147	221/مم	0789/17	Anatomy	Lab equipment

Leader Medical	36000.000	7847	22/09/2019	26/12/2019	3153	208/مم	2570/18	Anatomy	Lab equipment
<u>Total Anatomy</u>	<u>101425.000</u>								
Arab Medicine Co.	460.000	8261	19/11/2019	20/02/2020	7757	112/مم	0794/17	Pathology	Lab equipment
Averroes	23235.000	8258	24/11/2019	20/02/2020	7757	112/مم	0794/17	Pathology	Lab equipment
Advanced Technology Co.	6200.000	8260	17/11/2019	16/02/2020	7757	112/مم	0794/17	Pathology	Lab equipment
<u>Total Pathology</u>	<u>29895.000</u>								
Averroes	26950.000	7633	25/08/2019	28/11/2019	2966	110/مم	0235/17	Pharmacology	Lab equipment
Central Circle Co.	3021.000	7581	5/09/2019	5/12/2019	3002	125/مم	2544/18	Pharmacology	Lab equipment
Advanced Technology Co.	3600.000	7582	29/08/2019	29/12/2019	3002	125/مم	2544/18	Pharmacology	Lab equipment
<u>Total Pharmacology</u>	<u>33571.000</u>								
Ashraf & Company	3290.000	7967	13/10/2019	13/02/2020	2992	173/مم	2066/18	Obst. & Gyna.	Lab equipment

<u>Total Obst. & Gyna.</u>	<u>3290.000</u>								
Arab Medicine Co.	5175.000	7703	8/09/2019	6/02/2020	2987	116/من	0861/18	Physiology	Lab equipment
Techno Science	7095.000	7704	4/09/2019	5/01/2020	2987	116/من	0861/18	Physiology	Lab equipment
Averroes	19875.000	7705	1/09/2019	5/12/2019	2987	116/من	0861/18	Physiology	Lab equipment
Tectron Co.	5600.000	7590	25/08/2019	28/11/2019	3001	125/مم	0860/18	Physiology	Lab equipment
Arab Medicine Co.	2325.000	8068	24/11/2019	25/12/2019	3358	300/مم	2538/18	Physiology	Lab equipment
Arab Medicine Co.	14625.000	8285	24/11/2019	31/12/2019	3533	355/مم	2474/18	Physiology	Lab equipment
Advanced Technology Co.	19500.000	7682	25/08/2019	26/11/2019	2993	173/مم	0859/18	Physiology	Lab equipment
Bader Sultan	23117.250	7700	1/09/2019	30/11/2019	2991	173/مم	2392/18	Physiology	Lab equipment
Averroes	5045.000	7701	1/09/2019	30/11/2019	2991	173/مم	2392/18	Physiology	Lab equipment
<u>Total Physiology</u>	<u>102357.250</u>								
Techno Science	1668.000	8041	13/10/2019	13/02/2020	3139	234/مم	2370/18	المجهر الالكتروني	Lab equipment

Ashraf & Company	65400.000	8042	20/10/2019	20/02/2020	3139	234/مم	2370/18	المجهر الالكتروني	Lab equipment
<u>Total Electron Microscopy</u>	<u>67068.000</u>								
Tectron Co.	545.000	545	28/01/2020	12/03/2020	3085	238/مم	2057/18	Paediatrics	Lab equipment
Averroes	4930.000	8632	19/01/2020	10/03/2020	3085	238/مم	2057/18	Paediatrics	Lab equipment
<u>Total Paediatrics</u>	<u>5475.000</u>								
Arab Medicine Co.	1800.000	7713	15/09/2019	5/03/2020	2978	113/مم	2058/18	Surgery	Lab equipment
bahman Trading	3576.000	7714	8/09/2019	7/01/2020	2978	113/مم	2058/18	Surgery	Lab equipment
Techno Science	936.000	7715	8/09/2019	7/01/2020	2978	113/مم	2058/18	Surgery	Lab equipment
Al Essa Co.	96.000				2978	113/مم	2058/18	Surgery	Lab equipment
<u>Total Surgery</u>	<u>6408.000</u>								
Central Circle Co.	781.000	8101	17/11/2019	20/02/2020	3007	112/مم	2059/18	Medicine	Lab equipment

Scientific Supply House Co.	8910.000	8099	10/11/2019	13/02/2020	3007	112/مم	2059/18	Medicine	Lab equipment
Advanced Technology Co.	900.000	8100	10/11/2019	13/02/2020	3007	112/مم	2059/18	Medicine	Lab equipment
<u>Total Medicine</u>	<u>10591.000</u>								
Averroes	18020.000	7996	13/10/2019	16/01/2020	3141	233/مم	2542/18	Biochemistry	Lab equipment
<u>Total Biochemistry</u>	<u>18020.000</u>								
<u>Total</u>	<u>881414.500</u>								

"Statement of Transactions of the Faculty of Medicine for Chemicals for the fiscal year 2019/2020"

Scientific Supply House Co.	34490.250	8409	12/01/2020	11/03/2020	3466	206/مم	0466/17	Microbiology	Chemicals
Tectron Co.	4674.000	8408	8/12/2019	20/02/2020	3466	206/مم	0466/17	Microbiology	Chemicals
Mediclon	10575.000	8405	1/12/2019	20/02/2020	3466	206/مم	0466/17	Microbiology	Chemicals
Arab Medicine Co.	11489.000	8407	22/12/2019	11/03/2020	3466	206/مم	0466/17	Microbiology	Chemicals
Bader Sultan	560.880	8403	1/12/2019	20/02/2020	3466	206/مم	0466/17	Microbiology	Chemicals

Almajid International	1747.000	8186	24/11/2019	20/02/2020	3406	185/مم	1527/18	Microbiology	Chemicals
Bader Sultan	6112.700	6187	10/11/2019	13/02/2020	3406	185/مم	1527/18	Microbiology	Chemicals
Arab Medicine Co.	2464.000	8196	17//11/2019	20/02/2020	3406	185/مم	1527/18	Microbiology	Chemicals
Mediclon	130.000	8198	10/11/2019	13/02/2020	3406	185/مم	1527/18	Microbiology	Chemicals
<u>Total Microbiology</u>	<u>72242.830</u>								
Arab Medicine Co.	1000.000	8111	29/10/2019	20/02/2020	3430	190/مم	0761/17	Anatomy	Chemicals
Mediclon	1605.000	8112	27/10/2019	30/01/2020	3430	190/مم	0761/17	Anatomy	Chemicals
Tectron Co.	11188.000	8113	29/10/2019	30/01/2020	3430	190/مم	0761/17	Anatomy	Chemicals
Arab Medicine Co.	28801.500	8310	24/11/2019	20/02/2020	3462	8/مم	2428/17	Anatomy	Chemicals
<u>Total Anatomy</u>	<u>42594.500</u>								
Tectron Co.	3444.000	8159	10/11/2019	20/02/2020	3299	189/مم	2191/17	Physiology	Chemicals
Mediclon	1804.000	8135	5/11/2019	6/02/2020	3299	189/مم	2191/17	Physiology	Chemicals
Advanced Technology Co.	630.000	8134	10/11/2019	20/02/2020	3299	189/مم	2191/17	Physiology	Chemicals

Arab Medicine Co.	522.000	8133	3/11/2019	7/11/2019	3299	189/مم	2191/17	Physiology	Chemicals
Scientific Supply House Co.	10262.850	8154	24/11/2019	20/02/2020	3299	189/مم	2191/17	Physiology	Chemicals
Almajid International	1543.000	8151	1/12/2019	20/02/2020	3299	189/مم	2191/17	Physiology	Chemicals
<u>Total Physiology</u>	<u>18205.850</u>								
Scientific Supply House Co.	2695.500	8102	13/10/2019	15/01/2020	3429	190/مم	0040/17	Pathology	Chemicals
Tectron Co.	10453.000	8095	13/10/2019	15/01/2020	3429	190/مم	0040/17	Pathology	Chemicals
Mediclone	646.000	8098	13/10/2019	15/01/2020	3429	190/مم	0040/17	Pathology	Chemicals
Arab Medicine Co.	2783.000	8103	3/11/2019	20/02/2020	3429	190/مم	0040/17	Pathology	Chemicals
<u>Total Pathology</u>	<u>16577.500</u>								
Mousa Bahman	3333.000	8097	20/10/2019	19/01/2020	3215	328/مم	2431/17	Animal House	Chemicals
<u>Total Animal House</u>	<u>3333.000</u>								
Scientific Supply House Co.	1005.150	8487	8/12/2019	20/02/2020	3296	189/مم	0468/17	Biochemistry	Chemicals

Almajid International	163.000	8189	5/01/2020	10/01/2020	3296	189/مم	0468/17	Biochemistry	Chemicals
Arab Medicine Co.	185.000	8190	17/11/2019	21/11/2019	3296	189/مم	0468/17	Biochemistry	Chemicals
Advanced Technology Co.	667.000	8193	15/12/2019	20/02/2020	3296	189/مم	0468/17	Biochemistry	Chemicals
Mediclon	363.000	8191	17/11/2019	20/02/2020	3296	189/مم	0468/17	Biochemistry	Chemicals
Tectron Co.	487.000	8192	17/11/2019	20/02/2020	3296	189/مم	0468/17	Biochemistry	Chemicals
Atlas Logistics	148.000	8076	23/10/2019	22/01/2020	3463	8/مم	2544/17	Biochemistry	Chemicals
Almajid International	311.000	8075	20/10/2019	19/02/2020	3463	8/مم	2544/17	Biochemistry	Chemicals
Mediclon	512.000	8078	20/10/2019	19/01/2020	3463	8/مم	2544/17	Biochemistry	Chemicals
Arab Medicine Co.	90.000	8079	3/11/2019	7/11/2019	3463	8/مم	2544/17	Biochemistry	Chemicals
Scientific Supply House Co.	2831.240	8150	10/11/2019	13/02/2020	3428	190/مم	2732/18	Biochemistry	Chemicals
Mediclon	1638.000	8152	3/11/2019	6/02/2020	3428	190/مم	2732/18	Biochemistry	Chemicals
Arab Medicine Co.	1160.000	8153	17/11/2019	20/02/2020	3428	190/مم	2732/18	Biochemistry	Chemicals
Tectron Co.	5180.000	8155	1/12/2019	20/02/2020	3428	190/مم	2732/18	Biochemistry	Chemicals
<u>Total Biochemistry</u>	<u>14740.390</u>								

Scientific Supply House Co.	128.700	8081	27/10/2019	30/01/2020	3239	188/مم	2573/18	Nuclear Medicine	Chemicals
<u>Total Nuclear Medicine</u>	<u>128.700</u>								
Scientific Supply House Co.	1112.850	7892	8/10/2019	9/01/2020	3212	188/مم	2271/17	Pharmacology	Chemicals
Arab Medicine Co.	13453.000	7556	13/08/2019	12/12/2019	7490	488/مم	1776/17	Pharmacology	Chemicals
Tectron Co.	12309.000	7555	13/08/2019	21/11/2019	7490	488/مم	1776/17	Pharmacology	Chemicals
Mediclon	5576.000	7557	13/08/2019	21/11/2019	7490	488/مم	1776/17	Pharmacology	Chemicals
Scientific Supply House Co.	4330.100	7962	6/11/2019	13/02/2020	3297	189/مم	0845/18	Pharmacology	Chemicals
Almajid International	2193.000	7963	3/11/2019	20/02/2020	3297	189/مم	0845/18	Pharmacology	Chemicals
Arab Medicine Co.	1193.000	7964	29/10/2019	20/02/2020	3297	189/مم	0845/18	Pharmacology	Chemicals
Mediclon	633.000	7965	22/10/2019	23/01/2020	3297	189/مم	0845/18	Pharmacology	Chemicals
Tectron Co.	5663.000	7966	27/10/2019	30/01/2020	3297	189/مم	0845/18	Pharmacology	Chemicals
<u>Total Pharmacology</u>	<u>46462.950</u>								
Scientific Supply House Co.	160.000	7992	20/10/2019	23/01/2019	3300	189/مم	2545/18	Obst. & Gyna.	Chemicals

Tectron Co.	3768.000	7993	20/10/2019	23/01/2020	3300	189/مم	2545/18	Obst. & Gyna.	Chemicals
Almajid International	430.000	7994	13/10/2019	17/01/2020	3300	189/مم	2545/18	Obst. & Gyna.	Chemicals
Arab Medicine Co.	630.000	7995	20/10/2019	20/02/2020	3300	189/مم	2545/18	Obst. & Gyna.	Chemicals
<u>Total Obst. & Gyna.</u>	<u>4988.000</u>								
Scientific Supply House Co.	3281.000	8448	9/12/2019	20/02/2020	3240	188/مم	2549/18	Paediatrics	Chemicals
<u>Total Paediatrics</u>	<u>3281.000</u>								
<u>Total</u>	<u>441828.440</u>								

"Statement of Transactions of the Faculty of Medicine for Disposables for the fiscal year 2019/2020"

Al Essa Co.	2740.000	7238	15/09/2019	23/01/2020	1982	235/مم	2015/17	Animal House	Disposables
Averroes	5980.000	7239	15/09/2019	19/12/2019	1982	140/مم	2015/17	Animal House	Disposables
Arab Medicine Co.	603.000	8043	28/10/2019	20/02/2020	3412	243/مم	1479/18	Animal House	Disposables
Al Essa Co.	3128.000	8044	22/10/2019	20/02/2020	3412	243/مم	1479/18	Animal House	Disposables
Scientific Supply House Co.	950.000	8045	20/10/2019	23/01/2020	3412	243/مم	1479/18	Animal House	Disposables

Mousa Bahman	1407.500	8046	20/10/2019	23/01/2020	3412	243/مم	1479/18	Animal House	Disposables
<u>Total Animal House</u>	<u>14808.500</u>								
Arab Medicine Co.	12608.500	8181	12/11/2019	11/03/2020	3411	243/مم	0755/17	Pharmacology	Disposables
Mousa Bahman	460.000	8226	1/12/2019	20/02/2020	3411	243/مم	0755/17	Pharmacology	Disposables
ITP	741.010	8227	3/12/2019	20/02/2020	3411	243/مم	0755/17	Pharmacology	Disposables
Scientific Supply House Co.	8273.660	8126	19/01/2020	11/03/2020	3410	243/مم	0624/17	Pharmacology	Disposables
Arab Medicine Co.	6182.000	8125	4/02/2020	26/03/2020	3410	243/مم	0624/17	Pharmacology	Disposables
Averroes	1924.025	8124	23/01/2020	11/03/2020	3410	243/مم	0624/17	Pharmacology	Disposables
ITP	861.670	8123	23/01/2020	11/03/2020	3410	243/مم	0624/17	Pharmacology	Disposables
<u>Total Pharmacology</u>	<u>31050.865</u>								
Scientific Supply House Co.	13674.350	8024	12/12/2019	10/03/2020	3303	246/مم	0632/17	Anatomy	Disposables
Arab Medicine Co.	5949.700	8036	20/11/2019	20/02/2020	3303	246/مم	0632/17	Anatomy	Disposables
Central Circle Co.	602.850	8034	17/11/2019	20/02/2020	3303	246/مم	0632/17	Anatomy	Disposables

<u>Total Anatomy</u>	<u>20226.900</u>								
Arab Medicine Co.	10671.000	8320	22/12/2019	11/03/2020	3414	243/مم	0633/17	Microbiology	Disposables
Al-Hajri Gulf	1628.330	8322	10/12/2019	20/02/2020	3414	243/مم	0633/17	Microbiology	Disposables
<u>Total Microbiology</u>	<u>12299.330</u>								
Arab Medicine Co.	3839.600	7440	20/10/2019	20/02/2020	2481	133/مم	0907/18	Medicine	Disposables
Arab Medicine Co.	3365.000	7241	15/09/2019	16/01/2020		141/مم	0461/17	Medicine	Disposables
<u>Total Medicine</u>	<u>7204.600</u>								
Arab Medicine Co.	1060.000	8047	17/11/2019	20/02/2020	3413	243/مم	0622/17	Pathology	Disposables
Averroes	1396.000	8048	27/10/2019	30/01/2020	3413	243/مم	0622/17	Pathology	Disposables
Scientific Supply House Co.	435.950	8049	10/11/2019	13/02/2020	3413	243/مم	0622/17	Pathology	Disposables
Mousa Bahman	52.500	8050	3/11/2019	6/02/2020	3413	243/مم	0622/17	Pathology	Disposables
Al-Hajri Gulf	97.990	8051	10/11/2019	14/11/2019	3413	243/مم	0622/17	Pathology	Disposables

Scientific Supply House Co.	229.400	7849	6/10/2019	9/01/2020	3235	245/مم	2574/18	Pathology	Disposables
Averroes	1418.300	7850	29/09/2019	2/01/2020	3235	245/مم	2574/18	Pathology	Disposables
<u>Total Pathology</u>	<u>4690.140</u>								
Scientific Supply House Co.	900.000	7921	9/10/2019	9/01/2020	3233	245/مم	2423/17	المجهر الالكتروني	Disposables
<u>Total Electron Microscopy</u>	<u>900.000</u>								
Scientific Supply House Co.	1628.750	2921.55	8/10/2019	9/01/2020	3304	246/مم	0623/17	Biochemistry	Disposables
Central Circle Co.	1163.000	7895	6/10/2019	6/02/2020	3304	246/مم	0623/17	Biochemistry	Disposables
Arab Medicine Co.	9978.000	7897	6/10/2019	5/03/2020	3304	246/مم	0623/17	Biochemistry	Disposables
<u>Total Biochemistry</u>	<u>12769.750</u>								
Arab Medicine Co.	367.000	8168	26/01/2020	26/03/2020	3306	246/مم	2572/18	Nuclear Medicine	Disposables
Scientific Supply House Co.	2469.650	8166	21/01/2020	10/03/2020	3306	246/مم	2572/18	Nuclear Medicine	Disposables
Arab Medicine Co.	1877.000	7242	15/10/2019	20/02/2020	2124	223/مم	2438/17	Nuclear Medicine	Disposables

<u>Total Nuclear Medicine</u>	<u>4713.650</u>								
Arab Medicine Co.	5142.500	8521	29/12/2019	11/03/2020	3231	245/مم	2575/18	Surgery	Disposables
Scientific Supply House Co.	3789.750	8520	22/12/2019	10/03/2020	3231	245/مم	2575/18	Surgery	Disposables
<u>Total Surgery</u>	<u>8932.250</u>								
Mediclon	324.000				2568	245/مم	0037/17	Obst. & Gyna.	Disposables
Scientific Supply House Co.	783.000	8681	1/02/2020	20/02/2020	2568	245/مم	0037/17	Obst. & Gyna.	Disposables
Tectron Co.	4770.000				2568	245/مم	0037/17	Obst. & Gyna.	Disposables
Arab Medicine Co.	322.000	8682	1/02/2020	20/02/2020	2568	245/مم	0037/17	Obst. & Gyna.	Disposables
<u>Total Obst. & Gyna.</u>	<u>6199.000</u>								
-	-								
Scientific Supply House Co.	330.000	7527	16/07/2019	17/10/2019	2697	176/أم	1483/18	Medical Education	Disposables
Asterix International	555.000	7525	17/07/2019	17/10/2019	2697	176/أم	1483/18	Medical Education	Disposables
<u>Total Medical Education</u>	<u>885.000</u>								

-	-								
Scientific Supply	158.350	8129	10/11/2019	20/02/2020		246/مم	2618/17	Microbiology	Disposables
<u>Total Microbiology</u>	<u>158.350</u>								
Arab Medicine Co.	824.000	7246	4/08/2019	12/12/2019	7504	300/مم	2434/17	Physiology	Disposables
Almajid International	226.000	7245	28/10/2019	20/02/2020	7504	300/مم	2434/17	Physiology	Disposables
<u>Total Physiology</u>	<u>1050.000</u>								
<u>Total</u>	<u>243056.670</u>								

"Statement of Transactions of the Faculty of Medicine for Miscellaneous Requests for the fiscal year 2019/2020"

Arabian Business Machines	112.000	7746	8/09/2019	12/09/2019	Purchasing Manual	11/مم	2486/18	Microbiology	Fax
Al omar Center	800.000	8668	21/01/2020	20/02/2020	Service	22/م	1135/19	Student's Affairs	Transfer filing machine
Al Essa Co.	14247.300	7679	4/09/2019	26/12/2019	3100	80/مم	2557/18	Animal house	Animals
Mousa Bahman	8550.000	7673	25/08/2019	26/11/2019	3000	212/مم	2368/18	Animal house	Cages
Al Essa Co.	8350.000	7672	22/09/2019	12/01/2020	3000	212/مم	2368/18	Animal house	Cages

Al Majed	9966.000	7886	13/10/2019	16/02/2020	3047	182/مم	2369/18	Animal house	Feeds
Kadhema Consulting	1456.000	7222	18/08/2019	13/10/2019	2788	209/أم	0630/17	Anatomy	Security Safe
<u>Total</u>	<u>42025.300</u>								

**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 as 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 149 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 841. The final examinations for M.D. degree were held during the period of September 17 to October 22, 2020 (Appendix 'A'). Two external examiners were invited online to participate in the Community Medicine final examinations (Appendix 'B'). A total of 114 students were awarded with the degree of M.D. on October 12, 2020 (Appendix 'C'). The total number of students graduated with B.M., B.Ch./M.D. from the Faculty so far is 2552. This is the 37th 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 4th 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 : 5th Year

Medicine	12 weeks
Surgery	12 weeks
Community Medicine	7 weeks
Electives	5 weeks

Phase III-Year 2 : 6th Year

Medicine	6 weeks
Surgery	6 weeks
Pediatrics	12 weeks
Obst. & Gynaecology	12 weeks

Phase III-Year 3 : 7th Year

Psychiatry	8 weeks
Medicine	14 weeks (including pre-internship)
Surgery	14 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 (5th year) began in September 2009. Mondays were assigned as Medical School Day for the first clinical year. The second clinical year of Phase III (6th year) began in September 2010. Tuesdays were assigned as Medical School Day for the second clinical year. The third clinical year of phase III (7th year) began in September 2011. Wednesdays were assigned as the MSD days for 7th year. The suggestions from Departments to improve the MSDs, are taken into consideration.

The first batch of 5th year (1st clinical year) students appeared for the final examinations in June 2010 and 59 students were promoted to the second clinical year (6th year). The first batch of 6th year (2nd clinical year) students began in September 2010 and appeared for the final examination in June 2011. The first batch of 7th year (3rd 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 7th 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 2019-2020.

Faculty Capacity Development Workshops:

1. Faculty Development Workshop on 'Clinical Skill Training' for Trainers' Centre for Medical Education, Faculty of Medicine - September 20, 2019.
2. Faculty Development Workshop on 'Assessment Item Writing & Analysis' Centre for Medical Education, Faculty of Medicine - September 27, 2019.
 - 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 - October 6, 2019
4. Faculty Development Workshop on Steps and Dynamics of PBL, Faculty of Medicine - January 28 and February 2, 2020.
5. Training of Staff on MS Teams for online teaching sessions during May-June 2020
6. Training of Technical Staff on entering curriculum on MS Teams during June-July 2020

B. CPR Training Course for Phase II 4th Year Students

A basic CPR training program was organized for 4th Year students in February 2020

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

Dates: 4 Training workshops during 2019-2020

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

Date: 3 Training sessions in 2019-20

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

Date: 5 Training sessions in 2019-20

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 5th year

A one week skills development was introduced to the 5th year students from this year onwards. During the first week of the 5th 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.

Introduction of Online Teaching

Online teaching is introduced after the COVID-19 pandemic to complete the second semester of the academic year 2019-20. 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 is actively pursuing the matter. The Faculty has already approached the National Bureau of Accreditation and Quality Assurance in the Ministry of Higher Education regarding this matter. Now there is a ministerial decree to initiate the Accreditation process.

The Faculty has now strengthened its Accreditation Unit, headed by Prof. Widad Al Nakib. A new team has been appointed to work in the Accreditation Committee.

The Committee is in the process of collecting the data required for the self-evaluation, which is the first step towards accreditation. It is understood that most of the information required for the self-evaluation is completed.

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 Academic and Student Affairs
Ms. Shoba Grace John
Ms. Elza Alexander
Ms. Reem Al-Tabtabaee
Ms. Marwa Samir Ahmed

Faculty Secretary's Office

Ms. Elizabeth Samuel

Student Affairs Office

Ms. Hind Al-Qureshi

Ms. Fatma Safer

Ms. Susan Mammen

Ms. Zainab Al-Madani

Multidisciplinary Laboratories

Ms. Annie Thomas

Ms. Susy John

Mr. Sadeq Dashti

Mr. Jamal Azab

Mr. Samuel Geevarghese

Mr. Luisito S. Dayag

Centre for Medical Education

Prof. Jamshaid Iqbal - Director

Ms. Sumitha Satheesh

Mr. Ahmed M. Mohammed

Ms. Preetha Thomas

Dr. Annie Pothan

Dr. Julie Varghese

Ms. Preethi John

Clinical Skills Lab

Dr. Ali Jarragh AlHaddad

Ms. Marsha Publico

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.

Noura Al Sweih
Professor of Microbiology and
Vice-Dean for Academic and Student Affairs

Appendix “A”

**PHASE I AND II FINAL EXAMINATION TIMETABLE
SEPTEMBER/OCTOBER/NOVEMBER 2020**

DATE	DAY	YEAR 1	YEAR 2	YEAR 3	YEAR 4
28/09/2020	Monday	Biology	-	-	-
29/09/2020	Tuesday	-	-	-	-
30/09/2020	Wednesday	-	-	-	-
01/10/2020	Thursday	-	-	-	-
04/10/2020	Sunday	BBE	-	-	-
05/10/2020	Monday	-	-	-	-
06/10/2020	Tuesday	-	Paper I	-	-
07/10/2020	Wednesday	-	-	-	-
08/10/2020	Thursday	-	-	-	-
11/10/2020	Sunday	Resit Biology	-	-	OSCE
12/10/2020	Monday	-	-	OSCE	-
13/10/2020	Tuesday	-	Paper II	-	-
14/10/2020	Wednesday	-	-	-	-
15/10/2020	Thursday	English	-	-	-
18/10/2020	Sunday	Resit BBE	-	-	-
19/10/2020	Monday	-	-	-	Theory
20/10/2020	Tuesday	-	-	Theory	Oral
21/10/2020	Wednesday	-	-	Oral	Oral
22/10/2020	Thursday	Board of Examiners Meeting & Faculty Council			
08/11/2020 09/11/2020	Sunday & Monday	Resit Exams			

PHASE III - YEAR 5 AND 6 FINAL EXAMINATION TIMETABLE
SEPTEMBER/OCTOBER/NOVEMBER 2020

DATE	DAY	YEAR 5	YEAR 6
07/10/2020	Wednesday	Community Medicine Theory	-
08/10/2020	Thursday	-	Pediatrics Theory
11/10/2020	Sunday	-	Obstetrics & Gynecology Theory
12/10/2020	Monday	Surgery (Theory)	Obstetrics & Gynecology (OSCE)
13/10/2020	Tuesday		Obstetrics & Gynecology (OSCE)
14/10/2020	Wednesday	Medicine Theory	-
15/10/2020	Thursday	-	Surgery
18/10/2020	Sunday	OSCE Surgery	Medicine
19/10/2020	Monday	Community Medicine (Orals)	Pediatrics OSCE Group A
20/10/2020	Tuesday	-	Pediatrics OSCE Group B
21/10/2020	Wednesday	OSCE Medicine	Obstetrics & Gynecology & Pediatrics (Orals)
22/10/2020	Thursday	Board of Examiners Meeting & Faculty Council	
08/11/2020 09/11/2020	Sunday & Monday	Resit Exams	

PHASE III- YEAR 7 FINAL EXAMINATION TIMETABLE
SEPTEMBER/OCTOBER 2020

DATE	DAY	YEAR 7
17.09.2020	Thursday	Medicine (Theory)
20.09.2020	Sunday	-
21.09.2020	Monday	Surgery (Theory)
22.09.2020	Tuesday	-
23.09.2020	Wednesday	-
24.09.2020	Thursday	Psychiatry (Theory)
27.09.2020	Sunday	-
28.09.2020	Monday	Psychiatry (OSCE)*
29.09.2020	Tuesday	-
30.09.2020	Wednesday	Surgery (OSCE) A*
01.10.2020	Thursday	Surgery (OSCE) B*
04.10.2020	Sunday	Medicine (OSCE) Group A*
05.10.2020	Monday	Medicine (OSCE) Group B*
06.10.2020	Tuesday	-
07.10.2020	Wednesday	Orals
08.10.2020	Thursday	Board of Examiners Meeting & Faculty Council

**CLS*

Appendix “B”

ONLINE EXTERNAL EXAMINERS – SEPTEMBER/OCTOBER 2020

COMMUNITY MEDICINE

Prof. John E. Viena
Department of Public Health Sciences
Medical University of South Carolina
U.S.A.

Prof. Wilfred J. J. Karmaus
School of Public Health
University of Memphis
U.S.A.

Appendix "C"

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

GRADUATES OF OCTOBER 2020

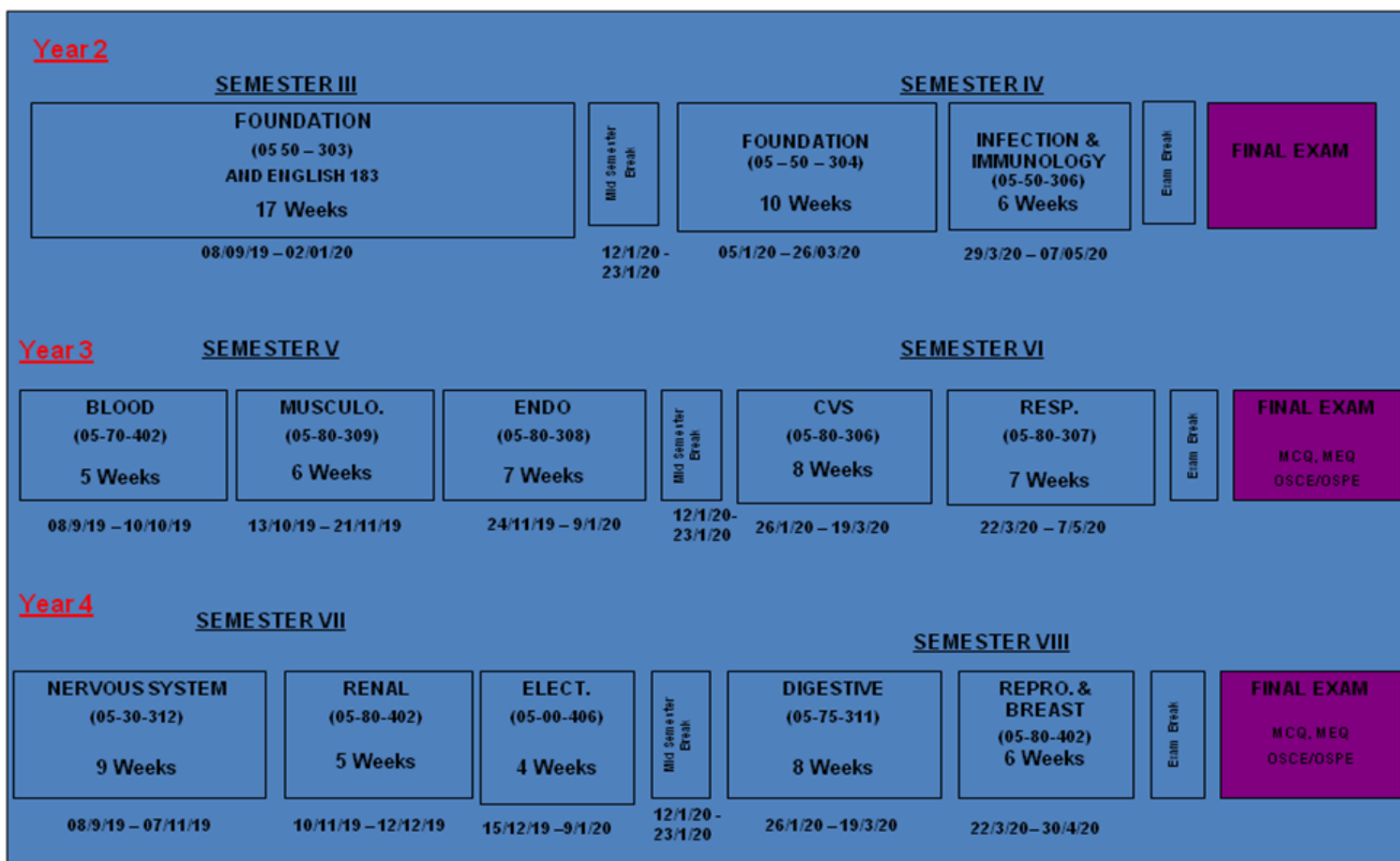
S.NO.	STUD. NO.	NAME
01.	6252/10	HAMAD J.M. AL-KHADER
02.	12072/11	HUSSAIN A. A. AL SHAMMASI
03.	17093/11	HANADI M.M. ALMUTAIRI
04.	12774/11	ABDULAZIZ A.H. MUHAMMAD
05.	15058/11	MOHAMMAD J. M. JAMAL
06.	18366/11	MARYAM A. A. ALQLOUSHI
07.	20023/11	AHMAD J.M. ALALI
08.	32210/11	ABDULRAHMAN S.A. MAKHSEED
09.	10010/12	SULAIMAN F.S. ALMUSAILEEM
10.	10671/12	MANAR A.M.A.M. ALKANDARI
11.	11474/12	NOURIYEH F.A. MAJIDI
12.	12216/12	MARIAM A.I. ALSHATTI
13.	12285/12	ABDULKAREEM A.A. JARAGH
14.	12600/12	KHALED W.M. ALAWADHI
15.	16024/12	EBRAHEM A.E. ALANSARI
16.	17132/12	DANAH F.A. OMAR
17.	17806/12	FAHED M.A. BOUZABER
18.	17833/12	HOUDA A.J. ALFAILAKAWI
19.	18366/12	FATEMAH M.A. ALNAJJAR
20.	10053/13	SOLAIMAN M.B. ALSHAWAF
21.	10079/13	RAWAN S.H. ALMUTAIRI
22.	10081/13	KAWTHAR H.SH. GHULOUM
23.	10084/13	SALMAN KH.S. ALOTAIBI
24.	10087/13	MANAR A. ABDULRAHEEM
25.	10089/13	DANAH J.S. ALBASARI
26.	10148/13	SHAREFAH Y.H. ALMATOUQ
27.	10159/13	HANEEN O.A. ALSAYEGH

28.	10200/13	OHOOD KH.TH. ALMUTAIRI
29.	10229/13	MARYAM A.Y. ABDULLAH
30.	10373/13	MOHAMMED M.M.R.M. REDHA
31.	10378/13	RAWAN M.E. ALRUBAIAH
32.	10396/13	REEM S.M. ALRAMZI
33.	10441/13	ARWA F.E. ALABBASI
34.	10585/13	MARYAM T.S. ABUREZQ
35.	10612/13	MARYAM Y.KH. ALSALLAL
36.	10715/13	NOUR A.A. MARAFIE
37.	10745/13	LULUAH M.A. ALDOUSARI
38	10792/13	ANFAL E.S. ALSULAIMAN
39	10890/13	RABAB J.H. ASERY
40	10911/13	MARYAM S.A. ALABDULRAZZAQ
41	10917/13	MOHAMMAD S.S. ALKANDARI
42	10923/13	RASHED A.A. ALSHATTI
43	11022/13	FAJER A.A. BOKUBAR
44	11208/13	RAHAF M.S. ALFADHLI
45	11227/13	HUSSA Z.A. ALOUDA
46	11243/13	HAWRAA R.M. MALLAH
47	11274/13	DHUHA S.Z. ALAJMI
48	11453/13	MONA M. ALENZI
49	11557/13	KHALED A.A. IBRAHIM
50	11597/13	REFAA S.F. ALAJMI
51	11598/13	AMANI KH.H. BIN SABB
52	11639/13	NOOR F.A. ALSHAMMARI
53	11654/13	MUHAMMAD F.A. ALFRAIH
54	11706/13	FATIMA A.E. ALTERKI
55	11811/13	ABDULRAHMAN A.A. ALMODAHKA
56	11878/13	NOORA H.S. ALABDALI
57	11911/13	MARYAM F.M. ALMUTAIRI
58	12053/13	AISHAH S.M. ALMUTAIRI
59	12070/13	FATIMA A.E. ABDULAZIZ
60	12089/13	FARHAN A.F. OWAYED
61	12282/13	AISHAH A.J. ALHAJERI
62	12319/13	ASMA A. HAIDER
63	12554/13	EMAN M.H. ALAZEMI
64	12599/13	YASMEEN H.T. BUHAMAD
65	12601/13	SHAHAD A.M. MUBARAK

66	12690/13	MALAK A.A. ALAZEMI
67	12710/13	FATMAH M.A. MOHAMMED
68	12901/13	ABRAR A.A. ALATWAN
69	12936/13	AISHA M.M. ALGHARIBA
70	13035/13	JASEM Y.J. ALSANEA
71	13094/13	SARAH F.A. QASEM
72	13135/13	AZAH A.S. ALRASHIDI
73	13262/13	KHADIJAH A.M. ALSHATTI
74	13441/13	FATEMAH B.N. ALALBAN
75	13584/13	MARIAM T.R. ALSOBAEI
76	14020/13	ALBANDERI S.S. ALMUTAIRI
77	14041/13	TALAL A.H. ALOSTAD
78	14055/13	RAWAN W.B. ALSHAMMARI
79	14080/13	NOOR S.A. ALALI
80	14228/13	REEM A.H. ALDHUBAIEI
81	14328/13	ESRAA Y.A. ALYAQOUB
82	14335/13	AMEERAH KH.Z. ALSAQOBI
83	14694/13	MARAHEB N.Y. ALSHERIDAH
84	14809/13	ABDULAZIZ H.E. KABLI
85	15019/13	AYAH KH.A. ALANEZI
86	15029/13	ZAINAB M.KH. BAHZAD
87	15135/13	SARA A.S. ALGHURAIR
88	15200/13	ZAINAB KH.S. AKROUF
89	15259/13	NOORAH F.A.Y. ABDULSALAM
90	15316/13	NOORAH A.M. ALAAZMI
91	15497/13	HASAN KH.A. ASHKANANI
92	15785/13	NASSER B.S. ALSHAMMARI
93	15798/13	SARAH S.A. ALENZI
94	16255/13	MARYAM S.N.S. ALFADHLI
95	16358/13	HESSA A.M. ALMUTAIRI
96	17303/13	HASHEM A.B. RIDHA
97	17308/13	DOHA H.M. ALRUMAIH
98	17403/13	SHAMAYEL M.KH. AI HAQQAN
99	18402/13	RYAN G. DOUGHERTY
100	18621/13	ASMAA H.A. ALKANDARI
101	18692/13	FAJER B.S. AL HAMDAN
102	19238/13	ALI KH. ALHAMAR
103	19320/13	RUBA M.F. MANSOUR
104	19370/13	BROUJ A. MISKIN

105	19447/13	IDREES N.I. MOHIYALDEEN
106	19506/13	AMNA O.M. IBRAHEEM
107	19886/13	AMR A.A. ABDELKARIM
108	19911/13	OMAR F.DH. ALENEZI
109	20803/13	ZAINA I.N. MALHAS
110	20975/13	ABDULLAH M.E. ALRAIHAN
111	21796/13	FARAH A.M. ALSARRAF
112	24732/13	RAWAN O.A.A. ELABD
113	24750/13	JUMAN A.M. REZQALLA
114	24768/13	NOURA M. KAYALI

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



PHASE III - 5TH YEAR**FIRST CLINICAL (5TH) YEAR ROTATIONAL SCHEDULE - ACADEMIC YEAR 2019-2020**

GROUP	CLINICAL SKILLS DEVELOPMENT WEEK 08/09/2019 - 12/09/2019	1ST ROTATION 15/09/2019 - 28/11/2019)	2ND ROTATION (01/12/2019 - 27/02/2020) *	3RD ROTATION (01/03/2020 - 14/05/2020)	FINAL EXAM
A		COMM. MEDICINE (7 weeks) 15/09/2019 - 31/10/2019 ELECTIVE (4 weeks) (03/11/2019 - 28/11/2019)	MEDICINE (11 weeks) (01/12/2019 - 27/02/2020)	SURGERY (11 weeks) (01/03/2020 - 14/05/2020)	
B		MEDICINE (11 weeks) (15/09/2019 - 28/11/2019)	SURGERY (11 weeks) (01/12/2019 - 27/02/2020)	COMM. MEDICINE (7 weeks)++ (01/03/2020 - 16/04/2020) ELECTIVE (4 weeks) (19/04/2020 - 14/05/2020)	
C		SURGERY (11 weeks) (15/09/2019 - 28/11/2019)	COMM. MED. (7 weeks) ++ (01/12/2019 - 30/01/2020) ELECTIVE (4 weeks) (02/02/2020 - 27/02/2020)	MEDICINE (11 weeks) (01/03/2020 - 14/05/2020)	

* Mid-Semester Holiday - 12/01/2020 -23/01/2020

Medical School Day - Mondays

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 2019-2020

GROUP	1ST ROTATION (08/09/2019 - 21/11/2019)	2ND ROTATION (24/11/2019 - 20/02/2020) *	3RD ROTATION (23/02/2020 - 07/05/2020)
D	MEDICINE/SURGERY (11 weeks) (08/09/2019 - 21/11/2019)	OBS. & GYNAE. (11 weeks) (24/11/2019 - 20/02/2020)	PEDIATRICS (11 weeks) (23/02/2020 - 07/05/2020)
E	OBS. & GYNAE. (11 weeks) (08/09/2019 - 21/11/2019)	PEDIATRICS (11 weeks) (24/11/2019 - 20/02/2020)	MEDICINE/SURGERY (11 weeks) (23/02/2020 - 07/05/2020)
F	PEDIATRICS (11 weeks) (08/09/2019 - 21/11/2019)	MEDICINE/SURGERY (11 weeks) (24/11/2019 - 20/02/2020)	OBS. & GYNAE. (11 weeks) (23/02/2020 - 07/05/2020)

* **Mid-Semester Holiday - 12/01/2020 - 23/01/2020**

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 2019-2020

GROUP	1ST ROTATION (08/09/2019 - 31/10/2019)	2ND ROTATION (03/11/2019 - 26/12/2019)	3RD ROTATION (29/12/2019 - 05/03/2020) *	PRE INTERNSHIP (9 weeks) Orientation: 1 week - whole class: 08/03/2020 - 12/03/2020 MEDICINE (Group J)/SURGERY (Group K) 15/03/2020 - 09/04/2020 (4 weeks) MEDICINE (Group K)/SURGERY (Group J) 12/04/2020 - 07/05/2020 (4 weeks)	FINAL EXAM
G	PSYCHIATRY (8 weeks) (08/09/2019 - 31/10/2019)	MEDICINE (8 weeks) (03/11/2019 - 26/12/2019)	SURGERY (8 weeks) (29/12/2019 - 05/03/2020)		
H	MEDICINE (8 weeks) (08/09/2019 - 31/10/2019)	SURGERY (8 weeks) (03/11/2019 - 26/12/2019)	PSYCHIATRY (8 weeks) (29/12/2019 - 05/03/2020)		
I	SURGERY (8 weeks) (08/09/2019 - 31/10/2019)	PSYCHIATRY (8 weeks) (03/11/2019 - 26/12/2019)	MEDICINE (8 weeks) (29/12/2019 - 05/03/2020)		

* Mid-Semester Holiday - 12/01/2020 - 23/01/2020

Medical School Day : Wednesdays

PBLs : As Published by the Departments

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

Dates are subject to change

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

PLAN FOR PHASE III PROGRAM

YEAR I (5TH YEAR) – FIRST CLINICAL YEAR – 36 WEEKS OF ROTATION

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

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

PSYCHIATRY– 8 WEEKS (8 CH) 05 80 708 / 709	MEDICINE (including pre-internship) – 14 WEEKS (18 CH) 05 80 706 / 707	SURGERY (including pre-internship) – 14 WEEKS (18 CH) 05 75 706 / 707	FINAL EXAM
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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).

Table 1: Number of Research Projects (Under Process, Approved & Ongoing) in FOM according to Department & Grant during 2016- 2020*

Department	No. of Under process Projects	Requested Budget (KD)- Under Process	No. of Approved & Ongoing Projects	Budget (KD)- Approved & Ongoing Projects	Total No of Projects
Anatomy	6	240760	1	19784	7
Biochemistry	5	86933	6	215904	11
Community Medicine	1	2000	3	97949	4
Microbiology	10	100892	9	143778	19
Medicine	8	1832663	5	228708	13
Nuclear Medicine	3	265040	2	5756	5
Obstetrics and Gynecology	1	251500	0	0	1
Pediatrics	5	407700	3	97400	8
Pathology	6	192618	6	195300	12
Physiology	11	159845	9	123734	20
Psychiatry	0	0	1	2000	1
Pharmacology	3	190061	2	26300	5
Radiology	0	0	0	0	0
RCF/VDR	0	0	1	491000	1
Surgery	3	1931482	4	102700	7
TOTAL	62	5661494	52	1750313	114

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

Department	2016		2017		2018		Total No. of Projects
	No. of Projects	Budget (KD)	No. of Projects	Budget (KD)	No. of Projects	Budget (KD)	
Anatomy	0	0	4	75736	0	0	4
Biochemistry	4	107673	1	38500	0	0	5
Community Medicine	0	0	0	0	0	0	0
Medicine	2	190200	3	66773	0	0	5
Microbiology	4	24978	2	153149	0	0	6
Nuclear Medicine	0	0	0	0	0	0	0
Obstetrics & Gynecology	0	0	0	0	0	0	0
Pediatrics	2	148806	1	4000	0	0	3
Pathology	1	15000	0	0	0	0	1
Physiology	2	8000	4	224700	0	0	6
Psychiatry	0	0	1	22000	0	0	1
Pharmacology	4	42177	0	0	1	4000	5
Radiology	0	0	0	0	0	0	0
Surgery	0	0	0	0	0	0	0
Total	19	536834	16	584858	1	4000	36

Table3: Research Projects (Completed, Ongoing, Under process) according to Budget Category during 2016-2020*

Category	Completed N (%)	Ongoing N (%)	Under process N (%)	Total
I	17(47.2)	19(36.54)	18 (29.03)	63
II	1 (5.56)	7 (13.46)	4(6.45)	16
III	18 (44.44)	26(50)	40(64.5)	91
All Projects	36	52	62	150

I= <4000, II=4001-10000 & III= >10000; * Until 10/11/2020

Figure 1: Research Projects of Ongoing, Under Process & Completed in FOM, 2016-2020*

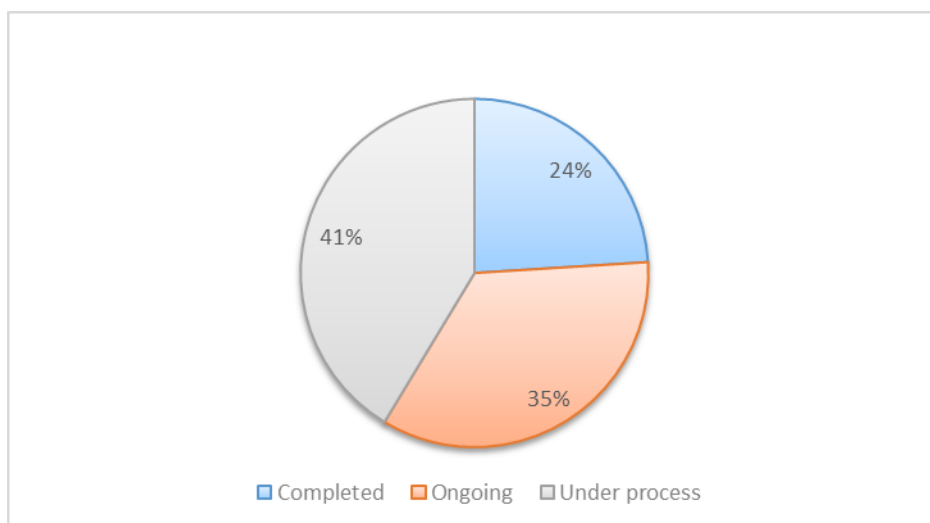
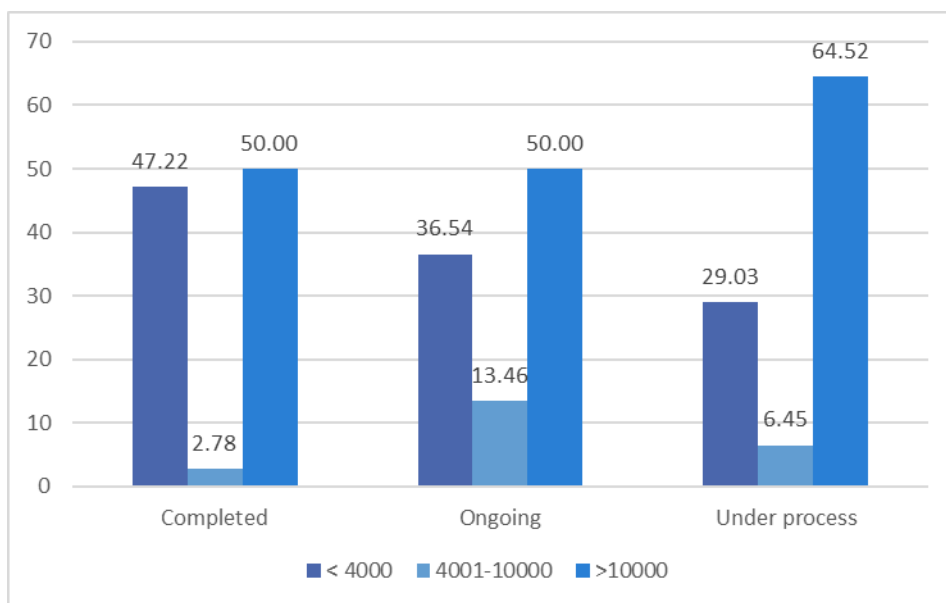
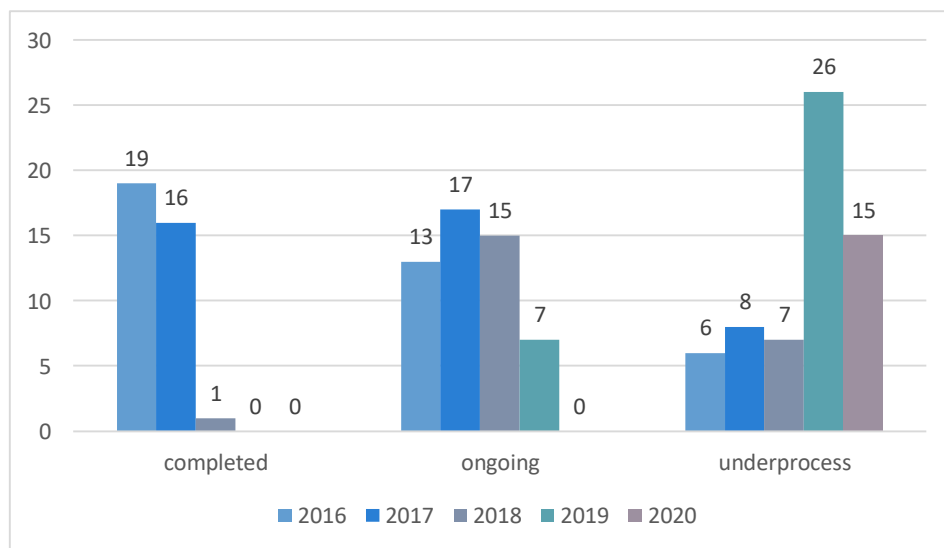


Figure 2: Research Projects of Ongoing, under process & Completed in FOM, 2016 – 2020



*Until 10/11/2020

Figure 3: Year-wise number of Completed, Ongoing & Under process projects (2016-2020)



*Until 10/11/2020

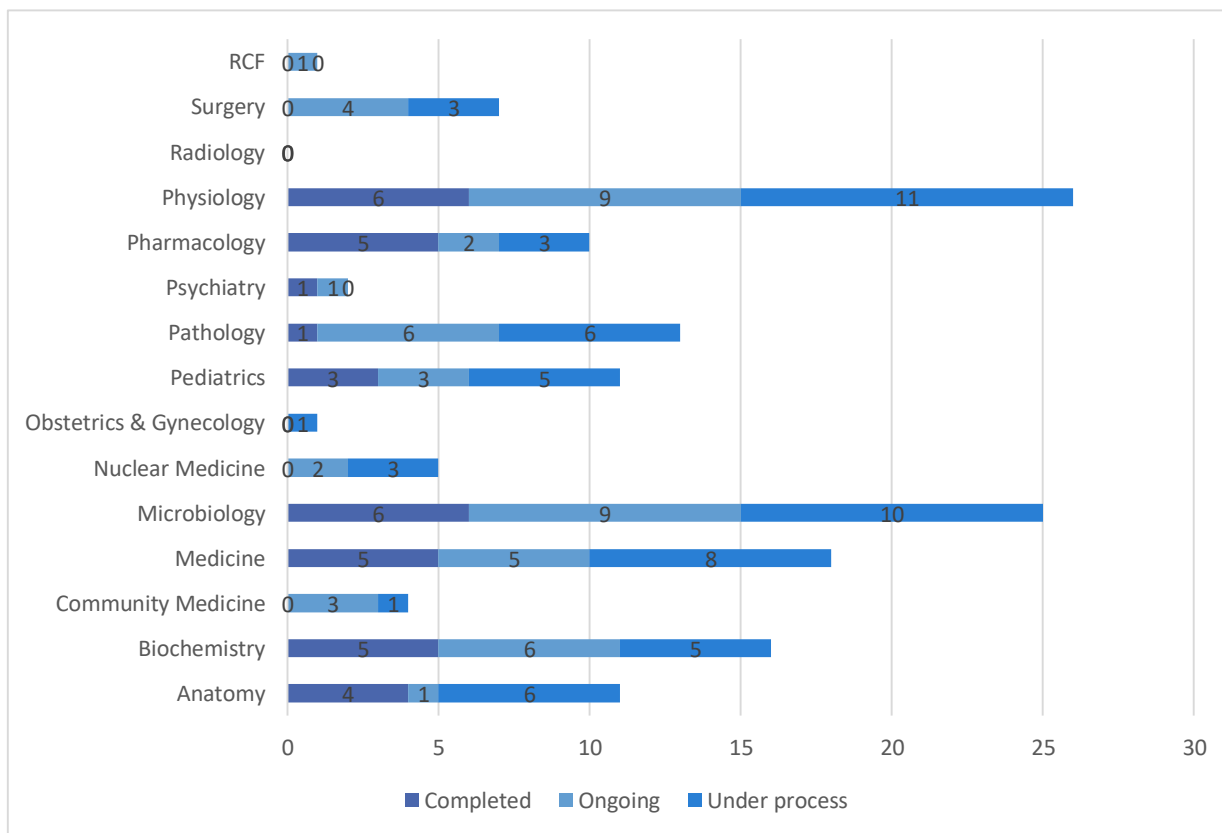
Table 4: Research Projects (Completed, Ongoing, Under process) according to Budget Category during 2016- 2020

Category	Completed	Ongoing	Under process	Total	Grand Total
Anatomy					
<4000	2	0	1	3	11
4000-10000	1	0	1	2	
>10000	1	1	4	6	
Biochemistry					
<4000	3	3	2	8	16
4000-10000	0	0	0	0	
>10000	2	3	3	8	
Community Medicine					
<4000	0	1	1	2	4
4000-10000	0	0	0	0	
>10000	0	2	0	2	
Medicine					
<4000	1	1	1	3	18
4000-10000	0	0	0	0	
>10000	4	4	7	15	
Microbiology					
<4000	4	2	4	10	25
4000-10000	0	3	3	6	
>10000	2	4	3	9	
Nuclear Medicine					
<4000	0	2	0	2	5
4000-10000	0	0	0	0	
>10000	0	0	3	3	

Obstetrics & Gynecology					
<4000	0	0	0	0	1
4000-10000	0	0	0	0	
>10000	0	0	1	1	
Pediatrics					
<4000	1	2	1	4	11
4000-10000	0	0	0	0	
>10000	2	1	4	7	
Pathology					
<4000	0	3	1	4	13
4000-10000	0	1	0	1	
>10000	1	2	5	8	
Psychiatry					
<4000	0	1	0	1	2
4000-10000	0	0	0	0	
>10000	1	0	0	1	
Pharmacology					
<4000	3	1	0	4	10
4000-10000	0	0	0	0	
>10000	2	1	3	6	
Physiology					
<4000	3	2	6	11	26
4000-10000	0	1	0	1	
>10000	3	6	5	14	
Radiology					
<4000	0	0	0	0	0
4000-10000	0	0	0	0	
>10000	0	0	0	0	
Surgery					
<4000	0	2	1	3	7
4000-10000	0	1	0	1	
>10000	0	1	2	3	
RCF					
<4000	0	0	0	0	1
4000-10000	0	0	0	0	
>10000	0	1	0	1	
Total	36	52	62	150	150

*Until 10/11/2020

Figure 4: Number of Research Projects (Completed, Ongoing, Under process) per Department during 2016- 2020



*Until 10/11/2020

TABLE 5 No. of Published papers 2018-2020

YEAR	FUNDED	FUNDED%	UNFUNDED	UNFUNDED%	TOTAL
2018	61	44.85	75	55.15	136
2019	51	44.74	63	55.26	114
2020	41	48.24	44.00	51.76	85
	153		182		335

Figure 5: No. of Published papers 2018-2020

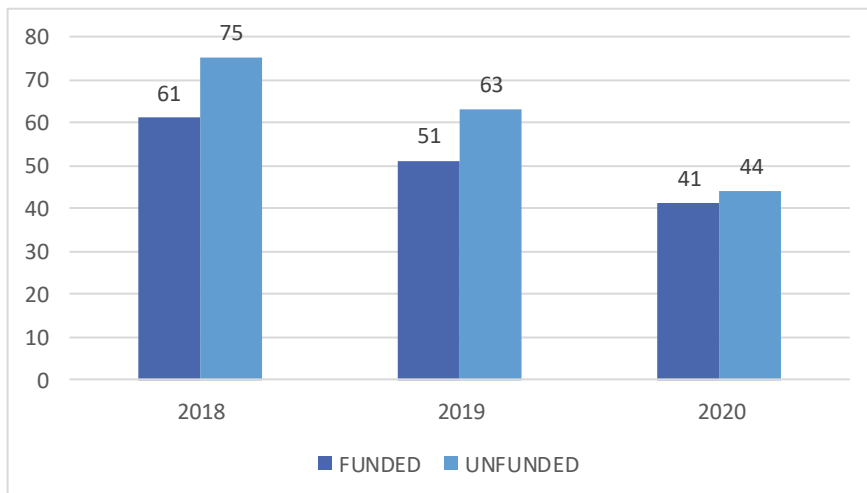


Table 6 Total No. of Published papers/total No. of staff

year	No. of Published Papers	Total number of staff	No. of published papers/Total no. staff	%
2018	121	144	0.840277778	84.02778
2019	114	199	0.572864322	57.28643
2020	80	192	0.416666667	41.66667

Table 7: No. of Published papers 2018-2020 per Department

Department		2018	%	2019	%	2020	%
ANATOMY	FUNDED	4	6.56	3	5.88	1	2.44
	UNFUNDED	3	4.00				
BIOCHEMISTRY	FUNDED	4	6.56	3	5.88	2	4.88
	UNFUNDED	2	2.67			4	
COMMUNITY MEDICINE & BS	FUNDED	3	4.92	1	1.96	2	4.88
	UNFUNDED	12	16.00	1	1.59	6	13.64
MEDICINE	FUNDED	6	9.84	5	9.80	2	4.88
	UNFUNDED	7	9.33	13	20.63	2	4.55
MICROBIOLOGY	FUNDED	25	40.98	7	13.73	10	24.39
	UNFUNDED	20	26.67	10	15.87	6	13.64
NUCLEAR MEDICINE	FUNDED		0.00	1	1.96	1	2.44
	UNFUNDED	2	2.67	4	6.35	1	2.27
OBSTETRICS AND GYNECOLOGY	FUNDED	1	1.64		0.00		0.00
	UNFUNDED		0.00		0.00	1	2.27
PATHOLOGY	FUNDED	5	8.20	7	13.73	4	9.76
	UNFUNDED	4	5.33	5	7.94	5	11.36
PEDIATRICS	FUNDED	5	8.20	13	25.49	6	14.63
	UNFUNDED	2	2.67	7	11.11	5	11.36
PHARMACOLOGY	FUNDED		0.00	2	3.92	2	4.88
	UNFUNDED	1	1.33		0.00	1	2.27
PHYSIOLOGY	FUNDED	7	11.48	8	15.69	2	4.88
	UNFUNDED	3	4.00	9	14.29	5	11.36
PSYCHIATRY	FUNDED						
	UNFUNDED	1		1			0.00
RADIOLOGY	FUNDED						
	UNFUNDED	2		2			
SURGERY	FUNDED	1		1		9	21.95
	UNFUNDED	16		11		8	18.18
Sum (F+UNF) per year		136		114		85	
Total of Funded and Unfunded (2018-2020)							335

3. COMMITTEES OF THE OFFICE OF VICE DEAN FOR RESEARCH & POSTGRADUATE STUDIES

3.1 Medical Research Committee

Ex-Officio Members

Prof. Adel K. Ayed (Dean, Faculty of Medicine) (Till 12-11-2019)

Prof. Maie albader (Acting Dean) (13-11-2019 - 29-2-2020)

Prof. Noura Al-Sweih (Acting Dean) (1-3-2020 – Present)

Members

Prof. Raja'a Al-Attiyah (**Chairperson**) (**Till 18-1-2020**)

Prof. Waleed Shuaib (**Chairperson**) (**19-1-2020 – 17-2-2020**)

Prof. Eiman Mokaddas (**Chairperson**) (**18-2-2020 – Present**)

Prof. Suhail Ahmad

Prof. Mohammed Haider

Prof. Moussa Alkhalaf

Prof. Narayana K

Dr. Hanady Amoudy

Dr. Abdeslam Mouhate

During this academic year, the Office of the Vice-Dean for Research & Postgraduate Studies conducted 5 meetings of the Medical Research Committee (MRC). During these meetings 7 applications were screened by the DRC and MRC and sent to RS for further processing.

3.2 HSC Committee for Protection of Human Subjects in Research (CPHSR)

The Committee on the Protection of Human Subjects in Research is an independent Committee whose members are appointed by the Faculty of Medicine Council on the recommendation of the Faculty of Medicine Deans Executive Committee. HSC Committee conducted 4 meetings, 52 projects were screened and approved according to the regulations stated by the Ethics Committee. Details of the meetings are recorded in the respective minutes.

Members

Prof. Nasser Behbehani	Dept. of Medicine (Chairman) (Till 10-10-2020)
Prof. Gursev Dhaunsi	Dept. of Pediatrics (Chairman) (11-10-2020- present)
Prof. Abdelhamid Elgazzar	Dept. Of Nuclear Medicine
Prof. Nabila Abdella	Dept. of Medicine
Prof. Suhail Ahmad	Dept. of Microbiology
Dr. Ahmad Al-Khamis	Dept. of Surgery
Dr. Areej Al-Khabbaz	Dept. of Surgical Sciences, Fac. Of Dentistry
Prof. Chacko Mathew	Dept. of MLS, Fac. of Allied Health Sciences
Prof. Abdelmoneim Awad	Dept. of Pharmacy Practice, Fac. of Pharmacy

Functions

- a. To establish mechanisms for the ethical review of all research activities involving human subjects.

- b. To ensure that the study is conducted according to globally accepted standards of good clinical practice (as defined in the **ICH E6 Guideline for Good Clinical Practice, July 2002**), in agreement with the latest revision of the **World Medical Association Declaration of Helsinki – Ethical Principles for Medical Research Involving Human Subjects, 59th 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.

- c. 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. Raja'a Al-Attiyah (Chairperson) (Till 18-1-2020)
- 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. Ebtesam 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. Raja'a Al-Attiyah – **Chairperson** (Till 18-1-2020)
- 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 Ghloum - 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. Raja'a Al-Attiah | Chairperson (Till 18-1-2020) |
| 2) | Prof. Eiman Mokaddas | Chairperson (18-2-2020 – Present) |
| 3) | Prof. M. John Albert | Microbiology |
| 4) | Dr. Edet Udo | Microbiology |
| 5) | Prof. Kusum Kapila | Pathology |
| 6) | Prof. Mabayoje Oriowo | Pharmacology |
| 7) | Prof. Zoran Redzic | Biomedical Sciences |
| 8) | Prof. Saeed Akhtar | Community Medicine |

- | | | |
|-----|-----------------------|----------------------|
| 9) | Dr. Jaber Ziada | Nuclear Medicine |
| 10) | Prof. Waleed Shuaib | Physiology |
| 11) | Dr. Abdeslam Mouihate | Physiology |
| 12) | Dr. Alyaa Mousa | Anatomy |
| 13) | Prof. Moussa AlKhalaf | Medical Biochemistry |

Number of Graduate Students in the Faculty of Medicine 2019/2020

Program	MSc Current	PhD Current	Total
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
Totals	45	15	60

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), 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

Staff:

2. Mrs. Teena Sadan
Senior Technician
3. Mrs. Mariam Al-Saleh Nadajah
Senior Medical Executive Secretary
4. Mrs. Rania Almawlawi
Senior Administrator

5. Mrs Leya Jacob
Senior Computer Engineer

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. List of seminars with titles and speakers presented during the academic year 2018-2019 is given in the following table.

4.3 During the academic year 2019-2020, CRC supported fully or partially the following events

CRC Events: 2019-2020				
Year	Event	Title	Date, Year	Department/ Faculty
Campaign				
2019	L	Poison Prevention Campaign: Unintentional/Accidental Poisoning With Medications In Kuwait	10 &11 April 2019	HSC
2019	L	L'Oréal-UNESCO For Women In Science Middle East Fellowship 6th Edition	20 th April 2019	MOH
Conference				
2019	I	7th Kuwait International Pharmacy Conference: KIPC 2019-Medicines – From Discovery And Delivery To Optimal Use	5-7 March, 2019	FOP
2019	L	3rd Poster Day	5 th March 2019	MOH
2019	I	2nd Kuwait Medical Laboratory And Obse & Gyne Conference	13-14 March 2019	MOH
2019	L	Second National Allied Health Professions Conference	27-28 March 2019	FAHS
2019	L	12th Student Research Day	15 th May 2019	FAHS
2019	I	Kuwait Surgical Week 2019	12-16 November 2019	MOH
2019	L	Virtual Reality Experience In Health Sciences	24 th November 2019	FAHS
2020	I	KUDAR Dental Conference- Online Hatton Competition- https://bit.ly/hattoncompetition	August 19th, 2020	<u>FOD</u>
Survey				
2020	L	OSH (Occupational Safety And Health) And COVID-19 Prevention	July- August 2020	FOPH
2020	L	Research Study Relevant To The Health Science Students' Lifestyle Modifications During The COVID-19 Pandemic.	20 th Sep 2020	FAHS
2020	L	Behavioral Insights On COVID-19 In Kuwait Study: COSMO Kuwait	August-September 2020	FOPH
2020	L	Investigation Of Health Science Students' Knowledge And Attitudes Regarding Health Promotion And Lifestyle Modifications Strategies Needed To Assist In Minimizing The Spread Of Covid-19: Implications For National Health Promotion Campaign	October- December 2020	FAHS
Symposia				
2019	I	The Collaborative Advantage	17 th March 2019	DDI
2019	L	Kuwait Thoracic Society: Clinical Grand Round: Sabah Hospital Team	31 st March 2019	KTS-MOH
2019	L	Symposium On“Update In Clinical Microbiology And Infectious Diseases, 2019	7-9 April 2019	FOM

2019	L	Kuwait Thoracic Society: Clinical Grand Round: Farwaniya Hospital Team	24 th Sep 2019	KTS-MOH
2019	L	Kuwait Thoracic Society: Clinical Grand Round: Amiri Hospital Team	29 th October 2019	KTS-MOH
2019	L	COPD Breathe Free: Focused Review From Evidence To Experience- KTS	2 nd November 2019	KTS-MOH
2019	I	Asthma Education Forum 2nd Module	9 th November 2019	KTS-MOH
2019	L	Kuwait Thoracic Society: Clinical Grand Round: Al-Ahmadi Hospital Team	26 th November 2019	KTS-MOH
2019	I	Kuwait Thoracic Society: 2nd Interstitial Lung Disease Day	21 st December 2019	KTS-MOH
2020	L	Kuwait Thoracic Society: Clinical Grand Round: Journal Club	07 th January 2020	KTS-MOH
2020	L	Kuwait Thoracic Society: Clinical Grand Round: Chest Hospital Team	04 th February 2020	KTS-MOH
2020	I	PHARMACOTHERAPY REVIEW COURSE: For Board Of Pharmacy Specialties Exam-United States: Phase 1 Program	4 –11 February 2020	FOP
2020	L	Asthma Education Forum For Primary Care: 3rd Wave	8 th February 2020	KTS-MOH
2020	L	Kuwait Thoracic Society: Clinical Grand Round: Adan Hospital Team	18 th February 2020	KTS-MOH
2020	L	Kuwait Thoracic Society: Interstitial Lung Disease Day: Factor 6: Guidance Through IPF Patients Journey	29 th February 2020	KTS-MOH
2020	L	Kuwait Thoracic Society: Clinical Grand Round: Journal Club	21 st April 2020	KTS-MOH
2020	L	Kuwait Thoracic Society: Clinical Grand Round: Mubarak Hospital Team	09 th June 2020	KTS-MOH
2020	I	Fatty Liver, A Hidden Epidemic In Adults And Children	8 th September 2020	DDI
2020	L	Lessons Learned From COVID 19 Pandemic – 1st Webinar	12 th September 2020	KTS-MOH
2020	L	Lessons Learned From COVID 19 Pandemic – 2nd Webinar	9 th October 2020	KTS-MOH
2020	L	Virtual Interstitial Lung Disease- VILDA	20.06.2020 - 11.07.2020	KTS-MOH
Workshop				
2019	L	Advances In Molecular Physiology Workshop “From Bench To Bedside”	17-19 March 2019	FOM
2019	L	Incucyte S3 Live Cell Analysis System Technology And Applications	25 th March 2019	RCF
2019	L	Curriculum Workshop	31 st March-3 rd April, 2019	FOM
2019	L	Getting The Concept Right: Introducing Continuing Professional Development	17-18 March 2019	FOP
2019	L	Omics Research Unit Workshop	25 th March 2019	RCF
2019	L	The Impact Of Interdisciplinary Team On Healthcare	10 th April 2019	FOP

2019	L	Scope Kuwait Program - Obesity In Your Clinical Practice	11 th April 2019	DDI
2019	I	1st IFSO-MENAC	April 11 To 13, 2019	DDI
2019	I	Diabetes Remission Clinical Trial: Results At 24 Months	April 24 th , 2019	DDI
2019	L	Synthesis Of Oligonucleotides Using Mermade 12 DNA Synthesizer	14 th November 2019	RCF
2019	L	Chromosomal Analysis Using Carl –Zeiss Metasystem	14 & 17 November 2019	RCF
2019	L	Electron Microscopy Principles And Sample Preparation Techniques	19 & 20 November, 2019	FOM
2019	L	Cell Culture And Flow Cytometry	25 & 26 November 2019	RCF
2019	L	Research Commercialization Workshop	4 th December 2019	KU
2019	I	PHARMACOTHERAPY REVIEW COURSE	5 th December 2019 to 3 rd March 2020	FOP
2019	L	Confocal Microscopy And UVP-Bio Imaging System	11- 12 December 2019	RCF
2020	I	Awareness Workshop - Opportunities For Research Collaboration	29th January 2020	KISR
2020	L	7G-Affymetrix Microarray And Its Applications- Workshop	10-13 February, 2020(4 Days)	RCF
2020	L	KFAS-Funded Project (July - December 2020); OSH (Occupational Safety And Health) And COVID-19 Prevention	8-Week Online Training (October 11 – December 05, 2020)	FOPH
2020	L	Lessons Learned From COVID 19 Pandemic – 2nd Webinar	9 th October 2020	KTS
Defense				
2019	L	Effect Of Spatial Distribution Of Substituents On Cellular Uptake, Distribution, And Photo Efficiency Of Porphyrin Based Photosensitizers	18 th September 2019	Ms. Maha A. M. Al Habeeb, M.Sc. Candidate
2019	L	Role Of Peroxisome Proliferator-Activated Receptor - Gamma (PPAR- Γ) In Type 2 Diabetes-Induced Testicular DNA Damage And Repair In Leptin Receptor-Deficient Obese Mice	19 th September 2019	Muneera Waheed Alfarhan
2019	L	Does Inhibition Of NADPH Oxidase Protect Against DNA Damage And Apoptosis In Testicular Ischemia Reperfusion Injury?	19 th September 2019	Ms. Farah Saud Al Saleh, M.Sc.Candidate
2019	L	A Comparative Study Of Polymerase Chain Reaction-Based Molecular Methods For Identification And Typing Of Acinetobacter Baumannii Isolates	22 nd September, 2019	Ms. Kother Abduljalil Nasser(Msc. Student)
2019	L	A Detailed Analysis Of The Signaling Properties Of A Dual Incretin Receptor Agonist	23 rd September 2019	Ms. Noura Al-Zamel, M.Sc. Candidate

2019	L	Molecular Analysis Of The ASK 1/Thioredoxin Pathway In Testicular Ischemia Reperfusion Injury	24 th September 2019	Ms. Nora Yaqoub Al Kandari, M.Sc. Candidate
2019	L	Investigating The Role Of The JAK / STAT And DNA Damage Response Pathways In Testicular Ischemia Reperfusion Injury	26 th September 2019	Ms. Farah Khashab, M.Sc. Candidate
2019	L	Effects Of Dibutyl Camp On Hippocampal Neurotrophic Factors, Neurogenesis, Learning And Memory In Diabetic Rats	26 th September 2019	Noura Waheed Alfarhan, M.Sc. Candidate
2019	L	Effects Of Erythropoietin Signalling On Viability Of Rat Brain Pericytes During Oxygen Glucose Deprivation And Recovery	30 th September 2019	Dr. Mohammed Heyba (M.Sc. Biomedical Sciences Student)
2019	L	The Effect Of Progesterone On Placental Glucose Transporters (Glut1 And Glut3) In Dexamethasone-Induced Intrauterine Growth Restriction"	3 rd October 2019	Mariam Mohammed Al-Awadi(Ph.D. Student)
2019	L	Detection Of Viruses Causing Gastroenteritis Using Metagenomics Approach	3 rd December 2019	Ms. Hawraa Adel Ali Mohammad (Msc. Student)
2019	L	A Matched Case-Control Study Of Risk Factors For Thyroid Cancer In Kuwait	26 th December 2019	Hebatalla Elgouhary, MPH (E&B) Student
2019	L	Capstone Project Research Papers' Presentations By Students Of Master Of Public Health (Mph) In Epidemiology & Biostatistics	26 th December 2019	Abrar Husain, MPH (E&B) Student
2020	L	A Study of The Prevalence And Molecular Characterization Of Carbapenem-Resistant Enterobacteriaceae In Healthy Community Population Of Kuwait.	6 th October 2020	Ola Moghnia
2020	L	Molecular Detection, Characterization And Epidemiology Of Drug-Susceptible And –Resistant Mycobacterium Tuberculosis Strains Isolated In Kuwait	20 th October 2020	Noura Mishari Al-Mutairi, Phd Defense
Extended Conferences				
2020	I	PHARMACOTHERAPY REVIEW COURSE: For Board Of Pharmacy Specialties Exam-United States: Phase 2 Program	March 1-3; 8-10, 2020	FOP
2020	I	FOPH Annual Public Health Conference 2020: Public Health Nutrition In Kuwait: Ultra-Processed Foods And Chronic Diseases	9 th March 2020	FOPH
2020	L	25th HSC Poster Conference, 10-12 March 2020	10-12 March 2020	HSC
2020	I	Molecular Biology Techniques In Biochemistry: DNA And RNA Isolation And Characterization	30-31 March 2020	HSC

2020	I	18th Kuwait Association For Dental Research Conference: “Updates In Tissue Engineering”	30-31 March 2020	FOD
Seminar				
2019	L	The Kuwait National Primary Immunodeficiency Registry	1 st October 2019	Dr. Waleed Al-Herz, Pediatrics
2019	L	Effects Of Diabetes On Retinal Pigment Epithelium	19 th November 2019	Dr. Heba Husaini, Anatomy
2019	L	Cognition And Neurogenesis - In Health And Disease	26 th November 2019	Dr. Rao, Anatomy
2019	L	Translation Of Ischemic Heart Protection Procedures To The Clinic: The Challenges And Hope	10 th December 2019	Dr. Fawzy Babikar, Physiology
2020	L	Genito-Anal Examination In The Context Of Humanitarian Medical Practice	04 th February 2020	Dr. Mohd. El-Fawal, Pathology
2020	L	Liver Transplantation In Kuwait: The Initial Experience And The Way Forward	18 th February 2020	Dr. Mohammad Jamal, Surgery
2020	L	Exploring Candida Albicans Biology Through Integration Of Proteomic And Genetic Approaches	3 rd March 2020	Dr. Selma Alkafeef,, Biochemistry
RCF Seminar				
2019	L	OMICSRU SEMINAR- Synthesis Of Oligonucleotides Using Mermade 12 DNA Synthesizer	14/11/ 2019	
2020	L	7G-Affymetrix Microarray And Its Applications	09/02/2020	Mr. Muad Abu Tayeh, Field Application Specialist -Life Science, ATP Medical
2020	L	OMICSRU Seminar & Workshop Thermo Fisher Scientific Ultracentrifuge	17 th February 2020	
Special Faculty Seminar-FOM				
2019	L	Introducing QIAGEN NGS Solutions (Qiaseq): Robust Chemistry, Faster Workflows, And Better Sequencing Economics	08 th November 2019	RCF
2019	I	Scanning Electron Microscopy (SEM) Systems	3 rd December 2019	Mr. Navin Kumar, Director For Middle East, Carl Zeiss Microscopy Gmbh, Germany
2019	I	Skeletal Muscle Angiogenesis Physiological Capillary Growth & Diabetic Rarefaction	9 th December 2019	Prof Stuart Eggington
2019	L	Master Program In Anatomy	22 nd December 2019	FOM

2019	L	Capstone Project Research Papers' Presentations - MPH Students	26 th December 2019	MPH Students, Community Medicine
2020	L	Health And Safety Annual Seminar	09 th January 2020	FOM
2020	L	General Health & Safety & Regulation	09 th January 2020	Dr. Andreas W. Henkel, Chairman Of Health & Safety Committee
2020	L	Professional Ethics For University Professors And Higher Education Instructors	05 th February 2020	Prof. Hasan Alsanad

Events 2019-2020- CRC								
	Conference	Workshop	Symposia	Campaign	Seminar	Special Faculty Seminar	Survey	Extended Events
HSC, Faculty of Medicine		3	1			6		2
HSC, Faculty of Medicine- Student - FOM								
HSC, Faculty of Pharmacy (staff, student)-FOP	1	3	1	1				1
HSC, Faculty of Public Health, FOPH		1					2	1
HSC, Faculty of Dentistry, FOD	1							1
Faulty of Allied Health, FAHS	3					1	2	
College of Engineering, KU		1						
Dasman Diabetes Center- DDI		3	1					
KISR		1						
Ministry of Health, KTS	3	1	18	1				
Seminar- Faculty (Academic and Nonacademic)					7			
Seminar - Student- MSc- Defense					14			
Seminar - Student- PhD- Defense					2			
RCF		7			3	1		

Sub total	8	20	21	2	28	8	4	
Total for Events 2019-2020	89							5

4.3.2 Advertisements for Research Positions

	Position	Department	PI
1	Research Assistant	Oral Microbiology	Dr. Maribasappa Karched, FOD
2	Research Assistant	Biochemistry	Dr. Aisha Al-Jarallah
3	Senior Research Assistant	Medicine	Dr Salem Alshemmari
4	Research Assistant	Anatomy	Dr. Madhyastha Sampath

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

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 predecessors 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). The ARC provides high-quality animal models for research and teaching-related experiments. The animals are supplied free of charge to all researchers provided they justify the use of animal models in their research experiments and the research projects are approved by the animal ethics committee (AEC). 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 in 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 financially supports the ARC, and the administration 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.

This year was extremely hostile to the ARC owing to the Covid-19 scenario. It was very difficult to administer the ARC during the lockdown period as the staff members could not commute daily to take care of the animals. Some staff members had to stay for months together at the ARC to feed and take care of the animals. The unconditional cooperation from the staff who agreed to stay at the ARC was highly appreciated by the Administration. When the lockdown partially opened, the staff started working at the ARC by adhering to safety measures defined by the Safety Committee. That said, the functioning of the ARC was severely affected as during the lockdown, the breeding colonies were cut down to size to save food and bedding materials as well as to make it easier for the resident staff to take care of them. This decision saved all breeding colonies and allowed the ARC to save food and bedding materials. In the future, it is necessary to have some well-defined mechanisms, and standard operating procedures to administer the ARC during difficult times such as the ones we had this time because the viral pandemic.

The ARC is located on the lower ground floor of the new HSC building. It occupies a vast area of about 54,000 sq. ft., which is divided into four units. The first unit houses the animal operation theaters, administrative offices, 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, 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 and rats, and a strain each of guinea pig, rabbit, and hamster. 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 more than 80 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 Diabetic Institute. All animal handling and procedures are carried out as per standard operating procedures and good laboratory practice. The ARC keeps the records of day-to-day activities such as details of animal breeding, maintenance, and animal distribution to all researchers.

Feeds 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 anybody who visits the facility. 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.

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 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, four rooms have been converted into special pathogen-free rooms although they are not fully functional.

Administration of the ARC:

1	Prof. Eiman Mokaddas	Vice Dean for Research & Postgraduate Studies, Chair, ARC
2	Prof. Narayana Kilarkaje	Director, ARC
3	Mr. Sunny A. Ojoko	Chief Technician (Laboratory Animal Management & Technology)
4	Dr. Severino A. Gabato Jr.	Chief Technician (Veterinarian)
5	Mrs. Ola Zahran	Senior Technician
6	Mrs. Mini Varghese	Laboratory Engineer
7	Mr. Binil George Abraham	Technician
8	Mr. Hector S. Velasco	Technician
9	Ms. Azza Mahmoud.	Technician
10	Mr. Assiz Eduardo Dias	Equipment Technician
11	Mr. Abdulsalam Abdulrafee	Animal/ Office Assistant
12	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.

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, Faculty of Medicine
4.	Dr. Hanady Amoudy	Member, Faculty of Medicine
5.	Dr. Aishah Al-Jarallah	Member, Faculty of Medicine
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, Chief Technician, ARC

The ARC 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. At present, the ARC follows all regulations stipulated in Handbook of Guidelines for Animal Experimentation. All research projects, including preliminary studies, must be approved by the AEC before any animals are given to the researchers. Accordingly, all researchers are required to submit the animal request forms indicating necessary details of experiments. There are different application forms for 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 work is fixed, and thus far, there are no new cases of violation of the 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 (consumables and chemicals), new breeding colonies of animals and 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:** Recently, the personnel from a local company inspected the ARC to plan for installing surveillance cameras.
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 appointed an assistant technician. Unfortunately, very soon of our valuable staff would be leaving the ARC, which would further affect the functioning of the center. 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.

New animals received in the ARC

- a. A new breeding strain of mice (NMRI) was received in the ARC on 20 November, 2019

- b. New breeding strains of C57BL/6, BALB/c (mice), Wistar Kyoto rats, and Spontaneously Hypertensive rats were received on 31 December, 2019.

As at the time on writing this report, these animals had been quarantined, stabilized in the environment and have been moved to breeding colonies in the Animal Resources Center.

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, which cannot be carried out manually.

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 technicians and Assistant technicians to cope with the load of work. We have been requesting for additional Assistant technicians for more than two years with no visible result.

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

A-Introduction to the various units within the ARC

1. Animal rooms, breeding, stock and experimental animals
2. Laboratory and general facility
3. Theatre for big and small animals
4. Storage facility
5. Cage washing and sterilization units

B- Request for Animals

6. Ethical issues related to use of laboratory animals in research
7. Types of requisition forms and submission to ARC administration
8. Accommodation of animals
9. Responsibility of Principal Investigators of research projects in use of experimental animals
10. Animal importation to Kuwait

C-Working practices in the ARC

11. Use of appropriate cages for each species
12. Recognition of wellbeing of laboratory animals
13. Labeling
14. Feeds and water
15. 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

Workshops conducted at the ARC

Four training programs were conducted in the academic year.

- ❖ The first workshop was on 18 September 2019 for 33 participants in the HSC. The audiences were Assistant Professors, Postgraduate students, Scientific assistants and Technicians.
- ❖ The second workshop was conducted on 15 December 2019. There were seven participants, mainly 4th year Medical students registered for elective course in basic research skills.
- ❖ The third workshop was conducted on 21 January 2020 for Kuwait Medical Students Association (KUMSA). There were 37 participants.
- ❖ The fourth workshop was conducted on 30 January 2020 for only two participants

Visitors to the ARC

The ARC received some visitors in this academic year. All visitors indicated below were given a tour of the ARC and observed some practical animal experimental procedures.

1. Al Resala Bilingual School on Monday 21 and Tuesday 22 October 2019
2. New English School Kuwait on Sunday 16 and Monday 17 February 2020

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
- Wistar Kyoto (WKY)

- Dark Agouti

B. Mice Colonies

- db/db
- BALB/c
- NMRI
- C57BL/6

C. Guinea- pig colony

1. Dunkin Hartley strain

D. Hamster Colony

1. Syrian Hamster

E. Rabbits colony

1. New Zealand rabbits

Number of laboratory animals given to the researchers from April 2019 to April 2020

FACULTY	TYPE OF ANIMALS	NUMBER
Faculty of Medicine	Mice (All Strains)	976
Faculty of Medicine	Rats (All Strains)	1,509
Faculty of Medicine	Guinea Pigs	36
Faculty of Pharmacy	Mice (All Strains)	467
Faculty of Pharmacy	Rats (All Strains)	252
Faculty of Pharmacy	Guinea Pigs	30
Faculty of Allied Health	Rats - Wistar	15
Faculty of Dentistry	New Zealand White Rabbits	16
K.A.R.C. for Practical	Golden Syrian Hamster	30
K.A.R.C. for Practical	New Zealand White Rabbits	6

Total Number issued to Faculty of Medicine	2,521 Laboratory Animals
Total Number issued to Faculty of Pharmacy	749 Laboratory Animals
Total Number issued to Faculty of Allied Health	15 Laboratory Animals
Total Number issued to Faculty of Dentistry	16 Laboratory Animals
Total Number used by Animal House	36 Laboratory Animals

<u>Grand Total of Laboratory Animals</u>	<u>3,337</u>
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Project Category	Number
M.Sc. Project	7
Ph.D. Project	4
KFAS support	18
Departmental Support	5
Unfunded Projects	13

FACULTY	NO OF ANIMALS
MEDICINE	2521
PHARMACY	749
ALIED HEALTH	15
DENTISTRY	16
ARC	36

Conclusion

Despite numerous hurdles, the ARC was able to support research at the HSC during the current academic year by providing animals and facilities to maintain them. The ARC supported 47 research projects this academic year. All members of staff at the ARC have contributed to this impressive achievement. The ARC thankfully 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 Office of the Vice- President of HSC has been very supportive. Finally, we also thank the researchers, students and technicians using the ARC facilities.

6. Electron Microscope Unit services

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, which 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 installed in February 2020, is in perfect working condition for students and academic staff usage. 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 ancillary equipment required for Electron Microscopy sample preparation. 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. Train 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

Staff who left the Unit

Prof. O. A. Mojiminiyi's tenure as Director came to an end in March 2020.

LABORATORY ACTIVITIES DURING THE ACADEMIC YEAR 2019-2020

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

b) Contributions to research activities

1. Department of Pharmacology, Studies 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.

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

1.	Prof. T. C. Mathew	Faculty of Allied Health
2.	Prof. Waleed Renno	Anatomy
3.	Dr. Hanaa Sadek	Anatomy
4.	Dr. Heba Al Hussaini	Anatomy
5.	Dr. Abdeslam Mouihate	Physiology
6.	Dr. Hameed al Sarraf	Physiology
7.	Dr. Maribasappa Karched	Faculty of Dentistry
8.	Dr. Rita Rahmeh	Kuwait Institute for Scientific Research
9.	Dr. Muddanna Rao	Anatomy
10.	Prof. Narayana Kilarkaje	Anatomy

c) Contribution to laboratory diagnostic services

The processing, sectioning, staining and evaluation of renal/ other biopsies delivered to the Unit on a weekly basis by the Ministry of Health resumed from February 2019 following the installation of the new CCD camera on the TEM.

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

Students from various secondary schools in Kuwait visited the EM unit. They were given an overview of the protocols in processing, ultramicrotomy, the basic physics involved in the working of electron microscopes and observation of samples by the staff at the Unit.

Current Problems and anticipated solutions:

1. TEM machine is old and out of manufacturing production. They require frequent service and spare parts are difficult to purchase. Some support lab equipment also need replacement.
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 interests 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. While the TEM is fully operational and utilized well for both research and teaching, interruptions due to technical failure are to be expected as the TEM was installed in 1991. A new mobile SEM IT 200 installed in February 2020 is already being actively used by staff and students. Other new equipment namely Ultramicrotomes, CPD and

Processing machine have also been installed. These have greatly enhanced working conditions at 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 new TEM will be installed soon.

**6. RESEARCH CORE FACILITY (RCF)-OMICS RESEARCH UNIT****Project No. SRUL02/13**

Genomics, Proteomics and Cellomics Studies Research Unit

Director: Prof. Moussa Alkhalaf Faculty of Medicine

Principal Investigator: Prof. Raja'a Al-Attiyah (until January 31, 2020)

Prof. Eiman Mokaddas (From February 01, 2020)

Vice Dean Research & Postgraduate Studies

Report Period: April 01, 2019 to March 31, 2020

Contents

1.	Summary
2.	Introduction
3.	Achievements and future requirements
4.	Equipment utilization by staff and students
5.	OMICSRU-RCF Research Administrative activities
6.	OMICSRU-RCF Workload in training Researchers and Students of HSC, Science Faculty, KCC, KISR
7.	Research Publications and the leading role of OMICSRU/RCF in developing research culture at HSC
8.	Details of OMICSRU/RCF manpower (2019-2020)
9.	Project budget utilization for SRUL02/13 (2019-2020)
10.	Purchase Report for SRUL02/13 (2019-2020)
11.	Expected budget with justification for SRUL02/13 (2020-2021)
12.	Estimated budget with justification for SRUL02/13 (2021-2022)
13.	Acknowledgements

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 access to dedicated facilities to conduct state of the art research for the basic and clinical research in Genomics, Proteomics and Cell Biology and provide training opportunities. Services at these facilities are delivered by trained and experienced staff to enable, facilitate or enhance the research mission of the university. This 2019-2020 annual report highlighted the strategic support, funding and oversight of the laboratories providing research services.

Since its inception, the OMICSRU has been highly successful and productive and impacted on the research output generation related to the intended areas, as evident from a large number of full-length research publications (n = 246 till date). During the academic year 2019-2020, OMICSRU has been providing access and training support to both PI's and students from different faculties and institutions such as HSC, FOS, KCCC, KISR) yielded 15 research papers in peer-reviewed journals. In addition, a total of 4 seminars and five workshop were conducted to update about the availability equipment to the students and staff at HSC and enable them to use for their research. (for details, please see the flyers attached with this report).

In the year 2019-2020, the OMICSRU was utilized by staff/researchers from 5 Faculties/Institutions in Kuwait. A total of 736 requests for 29308 samples were analyzed. In addition to being used heavily by members of the five Faculties of HSC (Medicine, Dentistry, Pharmacy, Allied Health Sciences and Public Health), the OMICSRU was utilized by researchers belonging to non-HSC Faculties of Kuwait University, Kuwait Institute for Scientific Research (KISR).

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.

Productivity during 2019 – 2020

1.	Number of Papers published	14
2.	Number of Undergrad students trained	3
3.	Number of MSc students trained	19
4.	Number of PhD students trained	6
5.	Number of KU Staff trained	18
6.	Total projects served	90

7.	Total number of researchers/supervisors of students	75
8.	Total workshops conducted	5
9.	Total seminars conducted	4
10.	Total number of students & staff attended the seminar & workshops	48
11.	Total number Student & PI requests	736
12.	Total number samples analyzed	29308

S.No.	Speaker name	Seminar title	Date
1.	Pauline Ogrodzki, PhD Commercial Application Scientist-Genomics AGBL, Dubai, UAE	Illumina MiSeq (NGS)Applications & AGBL Solutions	Tuesday, April 16, 2019
2.	Prof. Moussa Al-Khalaf	Chromosomal analysis using Carl –Zeiss Metasystem	Thursday, November 14, 2019
3	Mr. Aftab Ahmad Product Specialist Zeiss Microscopy-Tectron Co. Kuwait	Confocal Microscopy	Thursday, November 14, 2019
3.	Mr. Peter Van Hoff Quality Manager, Bioautomation Corporation, USA	Synthesis of Oligonucleotides using Mermade 12 DNA Synthesizer	Thursday, November 14, 2019
4.	Mr. Muad Abu Tayeh Field Application Specialist -Life Science ATP Medical	7G-Affymetrix Microarray and applications	Sunday, February 09, 2020

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. The research work in OMICS-related areas is continuously expanding at the global level. Therefore, in order to be internationally competitive, the facilities at OMICSRU should be of the highest standard, available to the end users without any interruption and continuously upgraded. Hence, the approval of the financial support to OMICSRU for 2019-2020, through SRUL02/13 & GM01/15, with the requested manpower budget, running cost, new instrumentation, and equipment maintenance or service is essential. The un-interrupted and financial support for the OMICSRU through SRUL02/13 & GM01/15 from the Research Sector of Kuwait University is gratefully acknowledged.

To maintain the equipment in good condition, to enhance the research and training activities at OMICSRU/RCF a sum of KD 360,752 /- is requested through SRUL02/13 for 2019-2020. The budget will cover the cost of manpower (KD 112,200/-) 17 ongoing permanent manpower, and 2 secondments, and running cost [consumables (KD 56,091/-), equipment maintenance (KD. 69,961/.)

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 a brilliant decision towards extending state-of-the-art equipment to the health-related research 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 to increasingly complex and specialized demands for macro/micro-analysis and in depth studies, particularly in the 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 bottlenecks 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.

To further facilitate the utilization of the OMICSRU, we have introduced the concept of preparing and distributing OMICSRU newsletters and brochures to the researchers at HSC and other institutions. The advertisements for the seminars/workshops were circulated to all concerned institutions/research establishments, including the graduate students (MSc and PhD), postgraduate trainees/residents of Kuwait Institute of Medical Specialization (KIMS), undergraduate students of the five faculties of HSC.

3. Achievements and future requirements

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 and related laboratories: 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, and DNA, RNA and protein extractions, analyses and quantification. This facility is highly used and all equipment in this laboratory are operational and maintained to achieve best quality results. The facility also includes capabilities to synthesize oligonucleotide primers for research and diagnostic applications and peptide synthesizer.

2. Cellomics laboratories: These laboratories have been established to provide HSC investigators (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. All are operational and have been optimized in a high throughput manner.

3. Genomics laboratory: This 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.

B. Establishment and operation of electronic Laboratory Information management system (LIMS):

An easy and user friendly system to organize and follow-up the utilization of the infrastructure, available in 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 (please see the copies of the online LIMS request forms from individual researchers enclosed in envelop nos. 2,3, 4 & 5).

C. Administration of the OMICSRU

The Director, Prof. Moussa Alkhalaf, Faculty of Medicine acted as the PI with three Co-Is from other Faculties of HSC, Dr. Rana Al-Awadhi from the Faculty of Allied Health Sciences, Dr. Areej Al – Khabbaz from the Faculty of Dentistry and Prof. Mohammad Abdel Hamid from the Faculty of Pharmacy. The PI (Director) and Co-Is are the members of the Steering Committee and have the responsibility to manage, including providing guidance, resolving conflicts, evaluating the functioning and providing day to day resources for maintenance of the OMICSRU-RCF. Furthermore, the Vice Dean Research and Postgraduate Studies of the Faculty of Medicine, Microbiology, Prof. Raja'a Al-Attiyah until January 31, 2020 and Prof. Eiman Mokaddas from February 01, 2020, Assistant Vice President for Research (Prof. Yousuf HJ Garashi) are the supervisors of the OMICSRU-RCF. The members of steering committee and supervisory committee meet once each semester to discuss all aspects related to the fulfilment of the Aims of the OMICSRU.

To streamline the functioning of OMICSRU, a Technical Committee was constituted by Vice Dean for Research & Postgraduate Studies, Faculty of Medicine, during 2019-2020 with the following members.

1. Prof. Wafaa Jamal (Started 3rd September 2020 for two years)
Prof. Mousa Al-Khalaf (3rd February 2019 till 3 February 2020)
2. Prof. Yunus Luqmani Member
3. Dr. Abeer Abdullah Member
4. Dr. Sulaiman Al-Sabah Member
5. Dr. Aishah Al-Jarallah Member
6. Dr. Ghadir Jamal Member
7. Dr. Janvier Gasana Member
8. Dr. Randa AbdulSalam Member
9. Dr. Fatma Shaban Member

D. Increasing OMICSRU awareness through seminars and workshops

To increase the awareness related to the utilization and potential of OMICSRU, the Director has arranged equipment focused seminars to researchers, staff and students of various Faculties of Health Sciences Centre in the year 2019-20. A brief overview of these given below.

Seminars coordinated by OMICSRU for teaching and training of faculty members, research staff and students

A total of 4 seminars were coordinated, organized and implemented by OMICSRU during 2019-20. Below are the relevant summaries of each of them. Below are detailed flyers for the seminars conducted.



**HEALTH SCIENCE CENTER
FACULTY OF MEDICINE
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SEMINAR 1

7G-Affymetrix Microarray and its applications

Speaker: Mr. Muad Abu Tayeh

Field Application Specialist -Life Science

ATP Medical

Date: Sunday, February 09, 2020

Time: 11:00 AM to 12:00 PM

12:00 To 12:30 – Q&A

**Venue: OMICS Research Unit/Research Core Facility,
Floor 1, Health Science Center, Kuwait University,
Jabriya**

The Seminar will focus on

- 1. Gene Expression**
- 2. miRNA**
- 3. Pharmacogenomics and Cytogenetics applications**

Seminar open to ALL

Workshop will focus on WT Gene Expression

Sponsors: OMICSRU and ATP Medical

**Coordinator: Prof. Moussa Alkhalaf; Director, Research Core Facility (RCF) –Health
Science Center**

Tel: 246 36548



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



WORKSHOP 1

7G-Affymetrix Microarray and its applications

Demonstrators: Mr. Muad Abu Tayeh

Field Application Specialist -Life Science

ATP Medical

Dr Ananthalakshmi Kethireddy

Associate Researcher, OMICSRU-RCF

Kuwait University

Date: February 10-13, 2020

Time: 09:00 AM to 14:30PM

**Venue: OMICS Research Unit/Research Core Facility,
Ground Floor, G1, Health Science Center, Kuwait
University, Jabriya**

Workshop will focus on gene expression

Restricted to 15 Participants; Register to anu@hsc.edu.kw

Coordinator: Prof. Moussa Alkhalaf

**Director, Research Core Facility (RCF) –Health Science Center
Tel: 246 36548**



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Workshop schedule on Whole Transcript Expression

Using 7G - Affymetrix GeneChip Microarray

Location: Ground Floor, G1, OMICSRU - Research Core Facility, Health Sciences Centre, Kuwait University, Kuwait

Workshop Schedule

10.02.2020 (Day -1)	11.02.2020 (Day -2)	12.02.2020 (Day -3)	13.02.2020 (Day - 4)
09:00-9:30 Sample quantity & quality check	09:00-10:30 cRNA Purification & Quantification	09:00-10:00 ss-cDNA purification	09:00-11:30 Wash & Stain
09:30-12:30 First Strand & Second Strand cDNA synthesis	10:30-13:30 Second cycle ss-cDNA Synthesis & RNASE Treatment	10:00-12:30 Fragmentation & Labelling	11:30-13:00 Scanning the Arrays
12:30- 13:30 Break	_____	12:30-13:00 Break	13:00-13.30 Break
13:30-14:30 Sample preparation for IVT (cRNA amplification 16h)	_____	13:00-14:00 Array Hybridization (Overnight)	13:30-14:30 Data Analysis Q & A

Coordinator: Prof. Moussa Alkhalaf

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

Tel: 246 36548



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SEMINAR -2

Title: Illumina MiSeq (NGS) Applications & AGBL Solutions

Speaker: Pauline Ogrodzki, PhD

Commercial Application Scientist-Genomics

AGBL, Dubai, UAE

Date: Tuesday, April 16, 2019

Time: 11:00AM

Venue: OMICS Research Unit/ Research Core Facility,

Floor 1, Health Science Center, Kuwait University, Jabriya

Topics to be covered:

1. Targeted Sequencing
2. Clinical Exome Sequencing
3. miRNA Sequencing

Sponsors: OMICSRU and AGBL

All are cordially welcomed

Coordinator: Prof. Moussa Alkhalaf

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

Tel: 246 36548



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SEMINAR - 3

Title: Confocal Microscopy

Speaker: Mr. Aftab Ahmad

Product Specialist

Zeiss Microscopy-Tectron Co. Kuwait

Date: Thursday, November 14, 2019

Time: 9:30AM-10:30AM

Venue: OMICS Research Unit/ Research Core Facility,

First Floor, U1, Health Science Center,

Kuwait University, Jabriya

Topics to be covered:

1. Introduction to Confocal microscopy
2. Linear scanning and spectral separation
3. Confocal microscopy in biological applications
4. Question and Answers

Sponsors: OMICSRU and Tectron

All are cordially welcomed

Coordinator: Prof. Moussa Alkhalaf

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

Tel: 246 36548



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WORKSHOP - 2

Confocal microscopy and UVP-Bio imaging system

Faculty and Staff:

Prof. Moussa Al-Khalaf
Dr. Fatma Shaban
Dr. Sunitha Pulikkot
Mrs. Sunitha Pramod
Mrs. Jucy Gabriel
Mr. Mohammed Arshad Reza
Mrs. Vidya Alexander

Venue: OMICS Research Unit/ Research Core Facility,
Health Science Center, Kuwait University, Jabriya

Duration: 2 days

Workshop Schedule:

Day 1 - December 11 (Wednesday)

9:30 - 10:30	Lecture 1: Introduction to Confocal microscopy
10:30 - 12:00	Lab 1.1: Confocal Microscopy: <ul style="list-style-type: none"> • Imaging setup & Scanning Strategies • Time series & Bleaching experiments • Z-stack & 3D visualization • Spectral Imaging (Lambda stacks) and Linear unmixing
12:30-1:00	BREAK
1:00-1:30	Lab 1.2: Fluorescence staining of cells: Preparation
1:30 - 2:30	Lab 2: Introduction to UVP Bio-imaging system: <ul style="list-style-type: none"> • DNA gel • Processing western blot membranes



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SEMINAR - 4

Title: Synthesis of Oligonucleotides using Mermade 12 DNA Synthesizer

Speaker: Mr. Peter Van Hoff

Quality Manager, Bioautomation Corporation, USA

Date: Thursday, November 14, 2019

Time: 12:30PM-1:30PM

Venue: OMICS Research Unit/ Research Core Facility,

Floor 1, Health Science Center, Kuwait University, Jabriya

Topics to be covered:

1. Basic principles behind primer synthesis.
2. Phosphoramidite chemistry
3. Synthetic cycle (Deblocking, Coupling, Capping and Oxidation)
4. Post synthetic processing
5. Questions and Discussions

Sponsors: OMICSRU and Al-Majid

All are cordially welcomed

Coordinator: Prof. Moussa Alkhalaf

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

Tel: 246 36548



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WORKSHOP – 3

Title: Synthesis of Oligonucleotides using Mermade 12 DNA Synthesizer

Speaker: Mr. Peter Van Hoff

Quality Manager, Bioautomation Corporation, USA

Venue: OMICS Research Unit/ Research Core Facility, Floor 1, U1, Health Science Center, Kuwait University, Jabriya

Workshop Schedule

Day 1 - November 11 (Monday)

11:00AM – 12:00PM	Seminar and Questions
12:00PM-1:00PM	Break
1:00PM-3:00PM	Preventive Maintenance (PM)

Day 2 - November 12 (Tuesday)

9:00AM-12:00PM	Finishing up PM and start with training
12:00PM-1:00PM	Break
1:00PM-3:00PM	Synthesis of test sequences

Day 3 - November 13 (Wednesday)

9:00AM – 12:00PM	Deprotection and QC of test oligos
12:00PM- 1:00PM	Break
1:00PM-3:00PM	Training

Day 4 - November 14 (Thursday)

9:00AM – 12:00PM	Deprotection and QC of 2 nd test oligos
12:00-1:00 PM	Break
1:00PM-3:00PM	Question and Discussion



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WORKSHOP - 4

Title: Cell Culture and Flow Cytometry

Faculty and Staff: Prof. Moussa Al-Khalaf
Dr. Fatma Shaban
Dr. Sunitha Pulikkot
Mrs. Sunitha Pramod
Mrs. Jucy Gabriel
Mr. Mohammed Arshad Reza
Mrs. Vidya Alexander

Venue: OMICS Research Unit / Research Core Facility,
Health Science Center, Kuwait University, Jabriya

Duration: 2 days, November 25 & 26, 2019

Workshop Schedule:

Day 1 - November 25 (Monday)

9:00 - 10:00	Lecture 1: Introduction to Cell biology Techniques: Flow cytometry, Incucyte S3 Live cell observer and Clariostar spectrophotometer
10:00 - 11:30	Lab 1.1: Live / Dead cell assay and MTT assay
11:30 - 12:00	Lab1.2: Cell viability quantification (Fluorescence) by Clariostar
12:00 – 12:30	Lab 1.3: Incucyte S3 – Cell proliferation, Fluorescence, Live cell imaging

Contact: Prof. Moussa Alkhalaf

Director, Research Core Facility (RCF) – Health Science Center
Tel: 246 36548



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WORKSHOP - 5

Title: Chromosomal analysis using Carl –Zeiss Metasystem

Faculty and Staff: Prof. Moussa Al-Khalaf
Dr. Fatma Shaban
Dr. Sunitha Pulikkot
Mrs. Sunitha Pramod
Mrs. Jucy Gabriel
Mr. Mohammed Arshad Reza
Mrs. Vidya Alexander

Venue: OMICS Research Unit/ Research Core Facility, Health Science Center, Kuwait University, Jabriya

Workshop Schedule:

Day 1 - November 14 (Thursday)

9:00 - 10:00	Lecture 1: Introduction to Chromosomal Analysis-Karyotyping
10:30 - 11:00	Lab 1.1: Cell culture
11:00 – 12:30	Lab 1.2. Isolation of cells

Day 2 - November 17 (Sunday)

9:00 - 10:00	Lab 2.1: Preparation of metaphase slide
10:00 - 11:00	Lab2.2: Giemsa staining
11.00-12:30	Lab2.3: Microscopic analysis using Metasystems

Limited to 10 persons only; Registration to jucy@hsc.edu.kw

Contact: Prof. Moussa Alkhalaf

Director, Research Core Facility (RCF) – Health Science Center
Tel: 246 36548

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, as given below.

- The academic staff at HSC, using OMICSRU facilities, are conducting research in collaboration with Dasman Diabetic Centre, Kuwait Genetic Medical Centre, Kuwait Cancer Centre and several MOH hospitals.
- 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.

4. Equipment utilization by staff and students at OMICSRU

During the current report period, the OMICSRU/RCF handled a total of 736 requests for 29308 samples utilizing the equipment present in the OMICSRU/RCF (**Table 1**). The details are enclosed in envelopes nos. 2 to 5 containing forms with LIMS reports. The samples analyzed at OMICSRU were received from staff and students of five Faculties of HSC/institutions, (Allied Health Sciences, Dentistry, Medicine, Pharmacy and Public Health) and Faculties of Science and Life Science, Kuwait University).



Research Core Facility

Faculty, Superwiser, Project & Instrument wise Sample Count Report

From Date: April 01, 2019 To Date March 31, 2020

SRUL 02/13

Table 1

Faculty	Department	Instrument	No. of Requests	No. of Samples
Allied Health	Medical Laboratory	ABI 3130 XL	31	1112
		ABI 7500 FAST REAL TIME PCR	1	24
		BECKMAN CYTOMICS FC 500	21	145
		BIOTEK	3	21
		C02 INCUBATOR	2	3
		DENSITOMETER GS-800	1	20
		ILLUMINA MISEQ	8	192
		MERMADE 12	1	10
		MULTISKAN ASCENT	1	2
		QUBIT FLUROMETER	1	6
		SPEED VAC	1	1
		ZEISS AXIOVERT-40	3	6
College of Life Sciences	Food Science and Nutrition	MULTISKAN ASCENT	1	50
Dentistry	Bioclinical Sciences	OPTIMA L-100 XP	3	36
		TISSUE CULTURE HOOD	3	13
		ZIESS LSM 700	1	3

Genetic Medical Center	Genetic Center	PROTEOM LAB PF2D	1	2
KISR	ELSRC	C02 INCUBATOR	1	10
		REFRIGERATED CENTRIFUGE	1	10
		RODWELL PHOENIX 60 - MP25	1	3
		TISSUE CULTURE HOOD	1	10
		VI-CELL ANALYZER	1	10
	KISR	ABI 3130 XL	1	4
Medicine	Anatomy	BIOANALYZER 2100	3	27
		BIOTEK	16	185
		DATA ANALYSIS SOFTWARE	5	40
		DENSITOMETER GS-800	29	1986
		MULTISKAN ASCENT	2	296
		OMNI THQ	1	4
		REFRIGERATED CENTRIFUGE	1	4
		ZEISS LSM 800 META	20	113
		ZIESS LSM 700	16	211
	Biochemistry	BECKMAN CYTOMICS FC 500	9	68
		BIOTEK	8	82
		C02 INCUBATOR	1	1
		DATA ANALYSIS SOFTWARE	2	30
		FLUOROSKAN ASCENT	1	300
		IncuCyte S3	21	2708

		METASYSTEM KARYOTYPING/ FISH SYSTEM	4	20
		OMNI THQ	1	6
		UVP-WESTERN BLOT/FLUORESCENCE	1	3
		VI-CELL ANALYZER	5	32
		WESTERN BLOTTING	1	3
		ZEISS LSM 800 META	8	27
		ZIESS LSM 700	8	37
	Medicine	ABI 3130 XL	37	1470
		ABI 7500 FAST REAL TIME PCR	2	20
		BIOTEK	3	11
		HP-WORKSTATION	1	65
		ILLUMINA MISEQ	1	24
		IncuCyte S3	1	48
		QUBIT FLUROMETER	2	24
		ZEISS LSM 800 META	2	8
	Microbiology	37C INCUBATOR	1	10
		ABI 3130 XL	3	65
		ABI 7500 FAST REAL TIME PCR	2	2
		ABI THERMAL CYCLER	3	118
		BIOTEK	1	10
		CONSOLIDATED STILL S AND STERILIZERS	4	74
		HP-WORKSTATION	12	1172
		ILSHIN FREEZE DRYER	6	168
		MANUAL/KIT/REAGENT	3	30

		MICRO CENTRIFUGE	1	10
		SPEED VAC	7	282
		UV STRATALINKER	1	10
		UVP-WESTERN BLOT/FLUORESCENCE	1	30
		VI-CELL ANALYZER	3	59
	Nuclear Medicine	37C INCUBATOR	1	3
		C02 INCUBATOR	9	129
		CONSOLIDATED STILL S AND STERILIZERS	4	26
		IncuCyte S3	6	2673
		MICRO CENTRIFUGE	4	120
		RODWELL PHOENIX 60 - MP25	5	83
		TISSUE CULTURE HOOD	9	96
		VI-CELL ANALYZER	8	62
		ZEISS AXIOVERT-40	8	130
	Pathology	37C INCUBATOR	2	6
		7900 HT FAST REAL TIME PCR	1	1
		ABI 3130 XL	21	1066
		ABI 7500 FAST REAL TIME PCR	4	4
		BECKMAN CYTOMICS FC 500	1	4
		CONSOLIDATED STILL S AND STERILIZERS	1	4
		TISSUE CULTURE HOOD	18	70
		ZEISS LSM 800 META	2	21

	Pharmacology / Toxicology	DENSITOMETER GS-800	2	6
		ZEISS LSM 800 META	11	58
		ZIESS LSM 700	12	207
	Physiology	BECKMAN CYTOMICS FC 500	4	36
		BIOTEK	13	292
		DENSITOMETER GS-800	1	40
		LUMINEX 200	4	258
		OPTIMA L-100 XP	10	110
		REFRIGERATED CENTRIFUGE	1	12
		THERMO ULTRACENTRIFUGE WX 100	1	7
		ZEISS AXIO IMAGER	6	14
		ZEISS LSM 800 META	1	2
		ZIESS LSM 700	44	600
	RCF	HP-WORKSTATION	1	800
		IncuCyte S3	1	1
		MERMADE 12	1	42
		PROTEOM LAB PF2D	1	30
		WATERS ANALYTICAL HPLC	4	135
		ZEISS LSM 800 META	8	47
		ZIESS LSM 700	4	22
	Surgery	ABI 7500 FAST REAL TIME PCR	1	46
		ABI THERMAL CYCLER	4	83
		BIOTEK	7	243

		CONSOLIDATED STILLS AND STERILIZERS	1	40
		OMNI THQ	6	141
		REFRIGERATED CENTRIFUGE	17	2264
		SONIPREP 150 PLUS	5	114
		UVP BIO SPECTRUM IMAGING	3	105
		UVP-WESTERN BLOT/FLUORESCENCE	9	1182
		WESTERN BLOTTING	13	915
Molecular Biology	Molecular Biology	ABI 7500 FAST REAL TIME PCR	1	96
		ZIESS LSM 700	3	22
Pharmacy	Pharmaceutical Chemistry	C02 INCUBATOR	1	6
		CONSOLIDATED STILLS AND STERILIZERS	1	1
		VI-CELL ANALYZER	2	12
		ZEISS AXIO IMAGER	2	2
		ZEISS LSM 800 META	1	6
		ZIESS LSM 700	2	15
	Pharmacology and Therapeutic	ABI 7500 FAST REAL TIME PCR	10	830
		BIOTEK	1	8
		DENSITOMETER GS-800	2	31
		REFRIGERATED CENTRIFUGE	2	2
		UVP-WESTERN BLOT/FLUORESCENCE	14	106
		ZEISS AXIOVERT-40	2	30
		ZEISS LSM 800 META	5	82

		ZIESS LSM 700	10	114
Science	Science	37C INCUBATOR	5	1120
		BIOANALYZER 2100	1	12
		IncuCyte S3	3	582
		TISSUE CULTURE HOOD	5	1065
		VI-CELL ANALYZER	6	1060
		ZEISS AXIOVERT-40	3	45
		ZEISS LSM 800 META	5	125
		Total	736	29308

5. OMICSRU Research Administrative Activities

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 preparation of annual reports, LIMS registration, regular equipment maintenance, reagents and consumables invoice receipt registration. 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, prepares several reports on brief description of functions of OMICSRU in terms of support for Faculty of Medicine (FOM), FOM undergraduate yearbook and a brief OMICSRU annual report for FOM.

6. OMICSRU Workload in training Researchers and Students of HSC, Science Faculty, KCC, KISR

OMICSRU enables the researchers have access to state of the art technology and services for their scientific research and provides continuous support, training opportunities to the academic staff, support staff, graduate students and group demonstrations to undergraduate students. OMICSRU has streamlined the list of ongoing projects for both Principal Investigators (PI) and students.

OMICSRU has been providing access and training, which includes both PI's and students from different faculties and institutions such as HSC, Science, KCC, KISR). The OMICSRU staff participated in training students (Table 2, 3 &4), staff of various Faculties of HSC, Science, KISR & KCC (Table 5). OMICSRU consistently provides training on standard operation

protocol. Apart from everyday activities, the instruments are periodically maintained by the staff for impeccable output. Please see the enclosed envelope # 6.

Table 2. List of Undergraduate students guided/trained

S. No.	Name of Student	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
1. 2. 3.	Monira Al Shaibani Mariam Al maraghi Fay Al Awadhi	Dr. Alyaa Mousa	Inverted Microscopy	Vidya Alexander

Table 3. List of MSc students trained

S. No.	Name of Student	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
1. 2. 3.	Noor Khakh Abbas Naha Moudhi Sheikh	Dr May Al Maghrebi	Sanger Sequencing	Riyas Sulaiman
4.	Mona Yassin	Dr. Willias Masocha	ELISA	Jucy Gabriel
5. 6. 7. 8. 9. 10. 11. 12.	Nada Mohammed Athari A.S.S Raghad Aleinati Hasan Khaha Hussah Al Janahi Reem Al Saeid Mazyad J. M Amr Adel	Dr. May Al Maghrebi	Sanger Sequencing	Riyas Sulaiman
13.	Athari A.S.S	Dr. Aishah Al Jarallah	Confocal Microscopy	Arshad Reza
14.	Mariam Al Shamali	Dr. Khaled Youssef	Live Cell Imaging	Sunitha Pramod
15.	Wael Mohammed Fadel	Dr. Mashaal Al-Mutairi	Densitometer	Betty Thomas
16.	Bashayer Mohsen	Dr. Abeer Abdullah	Absolute Quantitation	Faiza Rasheed
17.	Abdul Aziz	Dr. May Al Maghrebi	Relative Quantitaion	Faiza Rasheed Arshad Reza

			Nucleic Acid Quantitation	
18.	Nashmeih Alshammeri	Dr Suad M AL Fadhli	Next generation sequencing	Dr. Ananthalakshmi Kethireddy
19.	Rehab Alajmi	Prof A.S Mustafa	PCR Real Time PCR Sequencing and software analysis Western Blotting UVP	Aamir Sheikh Faiza Rasheed Numeer Kadungothayil Vidya Alexander

Table 4. List of PhD students trained

S. No.	Name of Students	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
20.	Asmaa Taher	Prof. Moussa Al Khallaf	Confocal Microscopy	Arshad Reza
21.	Alia Harban		M- FISH Karyotyping M Fish	Jucy Gabriel
22.	Amani	Dr. Wafaa Jamal	Hybridization Probesynthesis Southern Blotting DNA Hybridization	Jucy Gabriel
23.	Saad Abueldoud	Dr. Badar Al Hamar	Confocal microscopy	Arshad Reza
24.	Asmaa Taher	Dr. Selma Al-Kefeel	Cell Cycle	Sunitha Pramod
25.	Alia Al Harban		MicroArray	Dr. Ananthalakshmi Kethireddy

Table 5. List of Kuwait University Staff trained

S. No.	Name of the Staff (Position)	Name of Supervisor	Techniques	Assigned Trainer from OMICSRU
1.	Anitha Jasmine (Research Associate)	Dr.Fatma Al-Saeedi	Cell Viability Analysis Cell Observer	Sunitha Pramod Dr.Sunitha Pulikkot
2.	Osman Musa (Lab Analyzer)	Dr. Jamshed Iqbal	Extraction of DNA Nucleic Acid Quantitation Gel Electrophoresis PCR Real Time PCR DNA Sequencing	Mohd.Amir Sheikh Mohd.Arshad Reza Faiza Rasheed Riyas Sulaiman
3.	Jari Litany (Research Technician)	Dr.Saleem Al Shammary	Sanger Sequencing	Riyas Sulaiman
4.	Asha Merine (Research Assistant)		Absolute Quantitation Vaccum Dryer	Faiza Rasheed
5.	Sarah (Research Assistant)	Dr. Maitham Khajah	Confocal Microscopy Densitometer	Vidya Alexander Betty Thomas
6.	Al Shaimaa Ahmed (Senior Researcher)	Dr. Nada Madi	DNA extraction Real Time PCR	Numeer Ummer Faiza Rasheed
7.	Amal Thomas(Biological Researcher)	Dr.Nour Al Sabeeh	Phase Contrast Microscopy	Mohd Arshad Reza
8.	Godwin Chander (Biological Researcher)	Dr. May Al Maghrebi	Reverse Transcription Western Blotting Molecular	Faiza Rasheed Vidya Alexander Dr. Sunitha Pulikkot

			Imaging Confocal Microscopy Florescent Microscopy	Arshad Reza
9.	Jeethu Anu Geo (Research Assistant)	Dr. Reem Ameen	Vaccum Dryer	Faiza Rasheed
10.	Roshni (Research Assistant)		Cappillary Electrophoresis	Badrunnisa Mohammed
11.	Asha Merine (Research Assistant)		Cappillary Electrophoresis	Badrunnisa Mohammed
12.	Carol D Souza	Dr. Mohammed Jamal	Western Blot	Vidya Alexander
13.	Samah Kalakh (Research Associate)	Dr. Aishah Al Jarallah	Cell Observer Immunophenotyping	Sunitha Pramod Sunitha Pulikkot
14.	Simranbir Kaur (Senior Research Assistant)	Prof. Ludmil Benov	Cell Observer Apoptosis	Sunitha Pramod
15.	Josely George(Senior technician)	Dr. Heba Al Hussaini	Extraction of RNA	Dr. Ananthalakshmi Kethireddy
16.	Preethi Tobin (Technician)	Prof.Waleed Renno	Confocal Microscopy	Jucy Gabriel
17.	Anandavalli (Research Associate)	Dr.Bader Al Hamar	Live Cell Observation Tissue Culture Cell viability analysis	Dr. Sunitha Pullikot
18.	Dr. Fatma Al Saeedi (Assistant Professor)	Dr. Fatma Al Saeedi	Cell viability analysis Tissue Culture	Dr. Sunitha Pullikot

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

A total of 14 publications in peer reviewed journals were published during 2019-20 (please see the list enclosed in envelope # 7).

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. In addition, steps have been taken to encourage Postgraduate Trainees/Residents of Kuwait Institute of Medical Specialization (KIMS) and Ministry of Health to involve them actively in patient-care related applied research by using equipment available at OMICSRU. Furthermore, OMICSRU is actively perusing the infusion of research culture in undergraduate students at HSC by providing them a venue to get exposed to different techniques demonstration and to execute their research ideas while pursuing graduate studies. In addition, OMICSRU has offered experimental demonstrations to undergraduate students of the Faculties of Medicine, Dentistry, Allied Health Sciences and Pharmacy.

List of Publications & Abstracts in 2019-2020:

Full-length Publications in 2019/2020: A total of 14 publications

1. Ali H, Al-Mulla F, Hussain N, Naim M, Asbeutah AM, AlSahow A, Abu-Farha M, Abubaker J, Al Madhoun A, Ahmad S, Harris PC. PKD1 Duplicated regions limit clinical Utility of Whole Exome Sequencing for Genetic Diagnosis of Autosomal Dominant Polycystic Kidney Disease. *Sci Rep.* 2019 Mar 11;9(1):4141. doi: 10.1038/s41598-019-40761-w.
2. Al-Kandari N, Fadel F, Al-Saleh F, Khashab F, Al-Maghrebi M. The Thioredoxin System is Regulated by the ASK-1/JNK/p38/Survivin Pathway During Germ Cell Apoptosis. *Molecules.* 2019 Sep 12;24(18). pii: E3333. doi: 10.3390/molecules24183333.
3. Barrak NH, Khajah MA, Luqmani Y A. Hypoxic environment may enhance migration/penetration of endocrine resistant MCF7- derived breast cancer cells through monolayers of other non-invasive cancer cells in vitro. *Scientific Reports*, 24 January 2020 volume 10, Article number: 1127 (2020).
4. Behbehani J. M, Irshad . M, Shreaz. S Karched. M Synergistic effects of tea polyphenol epigallocatechin 3-O-gallate and azole drugs against oral Candida isolates. *Journal de Mycologie Medicale* 29, 2019, 158-167.

5. Bitar MS. Diabetes Impairs Angiogenesis and Induces Endothelial Cell Senescence by Up-Regulating Thrombospondin-CD47-Dependent Signaling. Bitar MS. *Int J Mol Sci.* 2019 Feb 4;20(3). pii: E673. doi: 10.3390/ijms20030673. PMID:30720765
6. El-Tabba' RM, Mathew P, Masocha W, Khajah MA. COL-3 enhances the anti-proliferative and pro-apoptotic effects of paclitaxel in breast cancer cells. *Oncol Rep.* 2019 Jan;41(1):630-642. doi: 10.3892/or.2018.6815. Epub 2018 Oct 22.
7. Henkel A W, Mouihate A, Welzel O. Differential Release of Exocytosis Marker Dyes Indicates Stimulation-Dependent Regulation of Synaptic Activity. *Front. Neurosci.*, 02 October 2019 | <https://doi.org/10.3389/fnins.2019.01047>
8. Henkel AW, Al-Abdullah LAAD, Al-Qallaf MS, Redzic ZB. Quantitative Determination of Cellular-and Neurite Motility Speed in Dense Cell Cultures. *Front Neuroinform.* 2019 Mar 12;13:15. doi: 10.3389/fninf.2019.00015. eCollection 2019 PMID:30914941.
9. Heyba M, Al-Abdullah L, Henkel A W, Sayed Z, Malatiali S A, Redzic Z. Viability and Contractility of Rat Brain Pericytes in Conditions That Mimic Stroke; an in vitro Study. *Front. Neurosci.*, 05 December 2019 | <https://doi.org/10.3389/fnins.2019.01306>
10. Kalakh S, Mouihate A. Enhanced remyelination during late pregnancy: involvement of the GABAergic system. *Sci Rep.* 2019 May 22;9(1):7728. doi: 10.1038/s41598-019-44050-4.
11. Khajah MA, Orabi KY, Hawaii S, Sary HG, El-Hashim AZ. Onion bulb extract reduces colitis severity in mice via modulation of colonic inflammatory pathways and the apoptotic machinery. *J Ethnopharmacol.* 2019 Sep 15;241:112008. doi:10.1016/j.jep.2019.112008. Epub 2019 May 31. PMID:31158441
12. Mouihate A, Kalakh S, AlMutairi R, Alashqar A. Prenatal Inflammation Dampens Neurogenesis and Enhances Serotonin Transporter Expression in the Hippocampus of Adult Female Rats. *Med Princ Pract.* 2019;28(4):352-360. doi: 10.1159/000499658. Epub 2019 Mar 19.
13. Mouihate A, Kalakh S. Ganaxolone enhances microglial clearance activity and promotes remyelination in focal demyelination in the corpus callosum of ovariectomized rats. *CNS Neurosci Ther.* 2019 Jul 22. doi: 10.1111/cns.13195. [Epub ahead of print]
14. Mai Abul, Maie D Al Bader, Abdeslam Mouihate Exposure to synthetic glucocorticoids during pregnancy alters the expression of p37 gene variants in fetal brains in a sex – specific manner. *Brain Research* 1707, 2019, 117-123.

8. Details of Manpower approved for 2019-2020

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. Mohd Wasif Khan | - | Research Assistant (Genomics) (Until July 31,2019) |
| 8. Riyas Sulaiman | - | Research Assistant (Proteomics) |
| 9. Mohd Arshad Reza | - | Research Assistant (Cellomics) |
| 10. Badarunnisa M Kandanath | - | Research Assistant (Genomics) |
| 11. Mohd Amir Shaikh | - | Research Assistant (Genomics) |
| 12. Numeer Kadungothayil | - | Research Technician (Genomics) (Until December 31, 2019) |
| 13. Tahera Nasreen Mohammed | - | Research Technician (stationed in RS) |
| 14. Nada Mohd. Salahuddin | - | Senior Technician (stationed in RS) |
| 15. Mustafa Mohd. Abubakar | - | Senior Technician (stationed in RS) |

B- Secondment Manpower:

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

9. Project budget utilization for SRUL02/13 (2019-2020)

Equipment:

The equipment budget wasn't utilized because of cancelling the only Equipment request after finding that it is present in the HSC. Please refer to Budget status from RS and purchase report on page

Consumable:

Due to Coved 19 pandemic, the companies couldn't submit all items in time. The pending sum is that of the none received items, while the balance sum is due to the difference between the actual and the estimated prices because we are choosing the lowest prices meeting the specifications. Please refer to Budget status from RS and purchase report on page.

Maintenance:

The maintenance contracts are for 2 years. The pending sum is to cover the remaining cost of the contracts during next 2 years. The balance sum is due to cancelling the items which their costs exceeded the max. allowed cost for maintenance, i.e. 20% of the purchase price of equipment. Please refer to Budget status from RS and purchase report on page.

Manpower:

The balance amount is due to the resignation of 2 senior research assistants. Please refer to Budget status from RS and purchase report on page.

10. Purchase Report for OMIMCSRU Project SRUL02/13 for 2019-2020 Budget

- 10 purchase requests were prepared and sent to the R.S. (2 Reagent, 3 Consumable, 4 Maintenance & 1 Equipment).
- 1 Equipment request, out of the 10 was cancelled because similar equipment exists in the HSC.
- The document of 20 contracts were received (6 Reagent, 6 Consumable & 8 maintenance) costing (K.D. 19,979.01/., 29,402.20/, 89,295.50/.) respectively.

Budget Statement of 2019-2020 for Project No. SRUL02/13 (from R.S.)

- 1. Equipment:** K.D.122,500/ was approved. The balance is K.D.122,500/.
- 2. Consumable:** K.D. 56.091/- was approved. Items by K.D. 37,728/- were received. Items by 12,653/- are pending. The balance is 5,710.
- 3. Maintenance:** K.D. 69,961/- was approved, K.D. 1,931/- was spent. K.D. 62,236/- is pending. The balance is K.D. 5,794/-.
- 4. Manpower:** K.D. 112,200/- was approved, K.D. 103,927 /- was spent, K.D. 1,119/- is still pending. The balance is K.D. 7,155/.

The attached excel sheet includes all the details of these requests and contracts.

	T. NO.	P. O.	CO.	O. Date	R. Date	Price	Received till 31/3/2020	Left	TYPE	REMARKS
20182327	191	8390	C.C.	24/11/2019	20/2/2020	2,292.600		2,292.60	Ch.	SRUL 02/13
20182327	191	8389	Tectron	12/01/2019	20/2/2020	1,048.000	1,048.00	0.00	Ch.	SRUL 02/13
20182327	191	8387	Dar Al taghezat	26/11/2019	20/2/2020	6,661.455		6,661.46	Ch.	SRUL 02/13
20182327	191	8391	AMICO	01/05/2020	01/09/2020	48.000		48.00	Ch.	SRUL 02/13
20182328	205	8278	Dar Al taghezat	17/11/2019	16/2/2020	2,200.950	387.3	1,813.65	Ch.	SRUL 02/13
20182328	205	8279	Tectron	22/12/2019	20/2/2020	7,728.000	7,644.00	84.00	Ch.	SRUL 02/13
						19,979.005	9079.3	10,899.71		
20182329	201	8289	Tectron	17/11/2019	28/11/2019	8,309.000	7,644.00	665.00	Con.	SRUL 02/13
20182329	201	8287	MAC	24/11/2019	20/2/2020	3,700.000	3,700.00	0.00	Con.	SRUL 02/13
20182330	207	8275	MAC	13/11/2019	20/2/2020	676.000		676.00	Con.	SRUL 02/13
20182330	207	8274	ATB	17/11/2019	12/08/2019	223.200	223.2	0.00	Con.	SRUL 02/13
20182330	207	8276	AMICO	12/01/2019	15/12/2019	2,674.000	2,674.00	0.00	Con.	SRUL 02/13
20182374	204	8479	MAC	22/12/2019	03/11/2020	13,820.000	13,820.00	0.00	Con.	SRUL 02/13
						29,402.200	28,061.20	1,341.00		
20182371	24	7579	Tectron	10/01/2019	30/9/2021	17,520.000	4,380.00	13,140.00	Main.	SRUL 02/13
20182372	24	7580	Tectron	11/01/2019	31/10/2021	36,360.000	7,575.00	28,785.00	Main.	SRUL 02/13
20182375	23	7505	Tectron	10/01/2019	30/9/2021	6,288.000	1,572.00	4,716.00	Main.	SRUL 02/13
20182375	23	7504	Al Arfag	10/01/2019	30/9/2021	2,600.000	650	1,950.00	Main.	SRUL 02/13
20182375	23	7506	ABMed.	10/01/2019	30/9/2021	17,490.000	4,372.50	13,117.50	Main.	SRUL 02/13
20182336	23	7510	Al Arfag	10/01/2019	30/9/2021	2,350.000	587.5	1,762.50	Main.	SRUL 02/13
20182336	23	7509	Abn Roshd	10/01/2019	30/9/2021	5,375.000	1343.75	4,031.25	Main.	SRUL 02/13
20182376	119	8358	ATB	01/01/2020	31/12/2021	1,312.500	187.5	1,125.00	Main.	SRUL 02/13
						89,295.500	20,668.25	68,627.25		
20180674						122,500.00		122,500.00	Eq.	Cancelled

11. Expected budget with justification for SRUL02/13 (2020-2021)

Annual Budget (2020-2021) required for the RCF/OMICSRU in Health Sciences” at Abdul Mohsen Abdul Razzak Health Sciences Centre, Kuwait University, Kuwait.

A. Manpower

Category	Cost (KD)	Justification
Manpower	97,800.000	<p>2 Research Associates: One each for genomics, proteomics & Cell Biology (KD 700/month & position, total = 16,800.000/).</p> <p>8 Senior Research Assistants: Three each for genomics, proteomics & four for Cell Biology ((KD 600/month per position, Total =KD 57,600/).</p> <p>3 Senior Research Technicians: One each for genomics, proteomics and cell biology (KD 500/month per position, Total =KD 18,000/).</p> <p>2 Secondment manpower: To help in financial matters and administrative work. (KD 450/month, Total =KD 5,400/).</p>

B. Running cost

Equipment:	655,820.000	Buying Important Equipment for OMICSRU
Consumables:	50,000.000	For full utilization of all the equipment in OMICSRU
Temporary manpower:	3,000.000	For project related work
Maintenance:	114,211.000	To maintain equipment in OMICSRU
Grand Total: KD	488,200.000	

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

Justification for Manpower and Running Cost

A- Permanent Manpower:

1- Dr. Fatma Shaban	-	Research Associate (Cellomics)
2- Dr. Sunitha Pulikkot	-	Research Associate (Cellomics)
3- Faiza P A Rasheed	-	Senior Research Assistant (Genomics)
4- Betty Teena Thomas	-	Senior Research Assistant (Proteomics)
5- Jucy Gabriel	-	Senior Research Assistant (Cellomics)
6- Sunitha Pramod	-	Senior Research Assistant (Cell Biology)
7- Mohd Wasif Khan	-	Senior Research Assistant (Genomics)
8- Riyas Sulaiman	-	Senior Research Assistant (Proteomics)
9- Mohd Arshad Reza	-	Senior Research Assistant (Cellomics)
10- Badarunnisa M Kandanath	-	Senior Research Assistant (Genomics)
11- Mohd Amir Shaikh	-	Senior Research Assistant (Genomics)
12- Numeer Kadungothayil	-	Senior Research Technician (Genomics)
13- Tahera Nasreen Mohammed	-	Senior Research Technician (stationed in RS)
14- Nada Mohd. Salahuddin	-	Senior Research Technician (stationed in RS)
15- 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

C. Justification for Running cost items

Equipment: Four new equipment's requests are added to SRUL02/13 budget year 2020-2021 due to the demanded requests from HSC users. The total budget of these equipment is **KD. 655,820.00**/. Please see the attached table, page

Serial .No.	Equipment	Price (KD)
1	OCR & ECAR 96 Well Microplate Analyzer	80,000.000
2	High Frequency Ultrasound Imaging System	207,720.000
3	Talos F200C G2 TEM	362,500.000
4	Incubator System For LSM 800	5,600.000
	Total	<u>655,820.000</u>

Consumables: The consumables are required to keep the machines in OMICSRU running and utilized to their full 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 help in teaching of undergraduate/graduate courses, community service (teaching and training of research personnel, conducting workshops and diagnostic services) and also help new faculty members with limited funds (e.g. Research Initiation Grants that provide only KD 2000/-) and exploratory projects etc.

Temporary manpower: For lab attendant, storekeeper and data analysis, on a temporary basis.

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.

Expected Budget 2020- 2021 for Project # SRUL02/13

NO	EQUIPMENT	Cost
1	Automated Non Contract Laser Micro Dissection and Pressure Catapulting System, Axio Oberver ZI. Model: Axio Oberver ZI. SL.NO: 3834000832.	10,956.000
2	Automated Peptide Synthesizer. Model: Symphony X. SL.NO: 9610.	15,988.000
3	Digital fluorensence microscope. Model: Axio Observer A1. S.No: 3832002568	2,900.000
4	High end Confocal Laser Scanning Microscope, LSM510 meta. Model: LSM510 meta. SL.NO: 3834000319, 24350003247, 2410000691	28,888.000
5	Advanced Biosafety Cabinet Micro Flow Class 2, Qty (2).	476.000
6	384 Well Low DensitB35:B48y Array Analyzer. Model: 7900 HT. Sl. NO: 27900171	9,990.000
7	Center Laminar Flow - ESCO Qty (4). Model: LVC-6AX. SL.NO: 2007-25398, 2007-25396, 2007-25395, 2007-25397	2,610.000
8	Freezer-20/4 DEG (QTY 4). Model: 3678. SL.NO: 813107-227, 813107-218, 813107-225, Z16U-145104-ZU	1,480.000
9	Incubator- Thermo Electron (QTY7). Model: 3131. SL.NO: 309294-981, 309294-982 , 309020-966, 309020-967, 309020-968, 309020-964, 309536-998	5,166.000

10	Vacuum pump. Model: Ritchie Eng Company. SL.NO: S353649	1,000.000
11	DNA Microarray Scanner Agilent. Model: Agilent G2565BA. SL.NO: US81003212.	9,331.000
12	Freezer-20DEG (QTY 2). Model: F317AK. SL.NO: 64230050, 64230001	740.000
13	Fume Hood for Chemicals Qty (2).	828.000
14	Laboratory Data Management System (LIMS). Model: HP6720S.SL.NO: CNU75142LK.	11,950.000
15	Speed Vac- Thermo-Fisher (QTY 3). Model: ISS110-230. SL.NO: X025-656178-XS, W25S-655857-XS, X S-656177-XS.	1,560.000
16	Autoclave. Model: SSR 3A-PB. SL.NO: 083100.	1,560.000
17	Bioanalyzer -2100. Model: 62939A.SL.NO: DE72901399	1,879.000
18	Freezer-80 DEG (QTY 4). Model: 706. SL.NO: 812825-966, 812825-969,812968-985, 812968-987	2,200.000
19	Spectrofluorometer. Model: Fluoroskan Accent. SL.NO: 374-90036	1,125.000
20	UV-VIS-Spectrophotometer. Model: Multiskan Spectrum. SL.NO: 1500-563	1,584.000
21	Agilent Technologiee. 3100 Offgel Ftactionator.3100A Fractionator. Serial No:DE01500922	2,000.000
	Total	114,211.000

Accessories: The budget is required to provide accessories and upgrading of the existing equipment in the OMICSRU.

12. Estimated Budget for Shared Facility Project # SRUL02/13 2022/2021

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	-	-
	Senior Research Technician	3 position	18,000.000
	Research Technician	-	-
	Assistant Technician	-	
	Admin. Employee/Secretary	-	
	Other Manpower		
	Secondment manpower		
	Research Assistant	1 position	3,000.000
	Research Technician	1 position	2,400.000
	Running Cost		
	Consumables	Chemicals, Reagents, etc.	56,456.357
	Temp Manpower		3,000.000
	Maintenance		181,527.000
	Accessories		-
	Upgrade		-
	Petty Cash		3,000.000
	Equipment		229,819.000
			Total
			580,002.357

Estimated budget with justification for SRUL02/13 (2021-2022)

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

Category	Cost (KD)	Justification
I. Manpower	106,200.000	<p>3 Research Associates: One for proteomics, and two for cell biology (KD 700/-month per position, Total= KD. 25,200/-)</p> <p>8 Senior Research Assistants: Three for genomics, three for proteomics and two for cell biology (KD 600/-month per position, Total =KD 57,600/-)</p> <p>3 Senior Research Technicians: One each for genomics, proteomics and cell biology (KD 500/- month per position, Total= KD. 18,000/-)</p> <p>2 Secondment manpower: To help in financial matters and administrative work. (KD 450/-month, Total =KD 5,400/-)</p>
II. Running cost		
Equipment	229,819.000	For buying Important Equipment for OMICSRU
Consumables and Reagents	56,456.357	For full utilization of all the equipment in OMICSRU
Temporary Manpower	3,000.000	For project related work
Maintenance	181,527.000	To maintain all the requested equipment in OMICSRU
Petty Cash	3,000.000	
Grand Total:	580,002.357	

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

I. Justification for Manpower:

Details of ongoing manpower already approved for 2021-2022

A. A. Permanent Manpower:				
S.N.	Name	University I.D	Job Title	Salary
1	Dr. Fatma Shaban	19700609	Research Associate (Cellomics)	8,400.00
2	Dr. Sunitha Pulikkot	21701267	Research Associate (Cellomics)	8,400.00
3	Dr.Imane Nour El Houda Rezig	-	Research Associate (Proteomics)	8,400.00
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	Mohd Arshad Reza	21401845	Senior Research Assistant (Cellomics)	7,200.000
10	Badarunnisa M Kandanath	21502060	Senior Research Assistant (Genomics)	7,200.000
11	Mohd Amir Shaikh	21601094	Senior Research Assistant (Genomics)	7,200.000
12	Tahera Nasreen Mohammed	20504610	Senior Research Technician (stationed in RS)	6,000.00
13	Nada Mohd. Salahuddin	20700944	Senior Research Technician (stationed in RS)	6,000.00
14	Mustafa Mohd. Abubakar	20800023	Senior Research Technician (stationed in RS)	6,000.00
B. Secondment Manpower:				
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 2021-2022 due to the demanded requests from HSC users. The total budget of these equipment is **KD. 229,819.000/-**.

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.

Temporary manpower: For lab attendant, storekeeper and data analyst on a temporary base.

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.

13. 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 towards establishing the research culture and obtaining academic excellence. This is evident from the publications and number of MSc and PhD students guided for their projects, theses and dissertations, respectively. These achievements have only been possible with their sincerity and devotion to 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 their 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 and Dr. Janvier Asana, Faculty of Public Health) as well as the staff of OMICSRU for making it a highly successful undertaking.

The OMICSRU will definitely need their full-fledged continuous support to reach to new heights. With the sophisticated equipment, which are already available in OMICSRU and those approved and purchased during 2019-20 through GM01/15, we hope that OMICSRU can be instrumental in advancing the academic stature of the Health Sciences Centre and Kuwait University at the international level.

09. Staff Members of the Vice Dean for Research & Postgraduate Studies Office

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

Support Staff:

- Mrs. Alice Jacob Ninan
- 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.

ANATOMY

INTRODUCTION

The subject of human anatomy in its entirety is paramount to medical curriculum. It is important to have a well-organized and facility-enriched Anatomy Department to train medical and dental graduates to make them skilled and efficient. This report encompasses a summary of departmental activities in the academic year 2019-20. 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 led 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, extended their service to the Faculty of Medicine and other Faculties whenever and wherever needed to conduct the examinations, clinical skill 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, and Pharmacy and Dentistry by making the dissection room facilities available to all. The members of the Department also involved in scientific research, both within the department and with other departments at the Health Sciences Center. While doing so, the Faculty members and Technical staff provided both technical and intellectual support to graduate students and faculty members of other departments, which facilitated 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. Three M.Sc., students successfully defended their theses and graduated. The members of the Department actively participated in international conferences, 4 papers were presented in which the faculty members were the authors. At the moment, the department has several funded research projects, including one 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 obtaining meaningful publishable results depends upon the inestimable service rendered by the Technical staff and Research assistants. The department admires their unstinted support and smart work, and places on record their contributions to the progress of the Department.

Currently, the teaching assignments are met by the eight 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, and in conducting clinical skill and medical history giving sessions. 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 or chairs of the committees. The faculty members conduct research in subject areas of neuroscience, diabetes, toxicological mechanisms, molecular biology, cell signaling, cell biology, tissue culture 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.

However, in this academic year, not everything went on well as the Covid-19 pandemic hit us hard during the first week of March 2020. Owing to the treacherous nature of the pandemic, the Faculty had to be shutdown, which brought to an abrupt halt for all academic activities. The teaching activities had been suspended, but the resilience of all staff was evident in the form of finding an alternative method of teaching. The Faculty pondered over the idea of 'online teaching' and very soon came up with the platform Microsoft Teams for the online teaching. In the month of July, the Faculty restarted the online teaching for both undergraduate and graduate courses. At the time of writing this report, the online teaching is still ongoing, the research activities also started moving forward with graduate students and Faculty members started arriving to their research laboratories. The Department is eagerly waiting for the academic activities to return to normal like pre-Covid-19 time.

Departmental Objectives

Our motto is to provide an excellent learning environment to students and to provide high-quality training in research methodology and techniques. 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 and histology and developmental biology to all students who take course works, compulsory or elective, related to their programs
- Actively involved 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 the 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

The course of the department has never been smooth, for that it had, and still faces numerous hurdles every day. The department must be innovative to supersede the problems if it must excel in academic parameters. In short, conducting small group teaching is essential, but it is incredibly grueling. The Department has a new dissection room, which is spacious and equipped with latest audio-visual facilities to train the students. The dissection room teaching is cardinal for medical and dental students to acquire skills needed to master clinical skills. The Department had modified its teaching strategy suitable for new dissection room and successfully conducted laboratory sessions until Covid-19 pandemic struck us hard. However, there is still a big room for further improvement in teaching styles and learning methods in the new dissection room. After the pandemic is over, the Department is planning to further modify

the training methods in the dissection room with special emphasis on self-study, and application- and clinical scenario-based gross anatomy and histology.

To carry out small group teachings such as laboratory demonstration sessions and problem-based learning sessions, it is imperative to decrease the number of students in each group, and to increase the overall number of teachers. The Department has already lost some members, and more members are expected to leave sooner or later, which will impinge upon the quality of student training. Unfortunately, this is also an issue with technical staff. To conduct proper teaching and research, the department needs highly trained and competitive technicians. At present, we are facing an acute shortage of technicians, especially to maintain the dissection room. 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 seven 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 soon. 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 as soon as possible. This program would set the Department in an all-new track to progress in research output and student training.

Current Developments

At the time of writing this report, the Department is conducting all teaching sessions online, including the laboratory sessions. The members of the Department are actively involved in all academic activities. All members are faithfully following Safety committee recommendations when they come to work. The research projects have been restarted, however, still there are several logistical issues to work out when it comes to research. Some major issues are resources, time spent to buy consumables and chemicals for research, and time taken to get approval for the research projects. It is necessary to hasten the research grant review process, increase the budget for research, and to make research core facilities easily accessible. High quality research and research publications in high impact international journals is essential. The Faculty members also should actively participate in international conferences and present their research findings. However, due to Covid-19 pandemic, in this academic year, the Faculty members could not attend any scientific conference. In fact, the Faculty members could not be much productive in research as the Department was closed for more than six months. The effects of all these problems would last longer and may have significant effects on morale and productivity of the department. That said, the Department has several ongoing research projects and some research projects are under review for funding. Departmental Seminar series continued during the current academic year. The faculty members and MSc students presented seminars.

MANPOWER

MEMBERS OF THE DEPARTMENT

Faculty members

Chairman

1. Prof. Narayana Kilarkaje., M.Sc., Ph.D., FAGE, FRSB

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. Ebtesam Abd-El-Basset, M.B., B.Ch., M.Sc., Ph.D. [Neuroscience, Histology, Gross Anatomy, Cell Biology]
2. Dr. Muddanna S. Rao, M.Sc., Ph.D., FAGE [Gross Anatomy, Neuroscience, Histology, Cell Biology, Embryology]
3. Dr. Alyaa M. A. Mousa, M.Sc., MED. Ph.D. [Neuroscience, Histology, Cell Biology, Embryology, Immunology]
4. Dr. Sampath Madhyastha, M.Sc., Ph.D., FAGE [Neuroscience, Gross Anatomy, Embryology, and Teratology,]
5. 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]

Clinical Instructor

1. Dr. Hanaa Sadek Koubisy, MD, MSc, PhD [Human Anatomy and Embryology]

Teaching Assistant

1. Ms. Iman Masoor Faid, PT, M.Sc

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, B.Sc.
2. Muneera Al-Dhaen
3. Siham Al-Hajri
4. Fatemah J Al-Omiri

SUPPORT STAFF**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.

Research Assistant

1. Mr. Mohammed Jaseem, M.Sc.

Chief Technicians

1. Dr. Saju S. Jacob, B.V.Sc., AH
2. 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. Preethi George, M. Pharm.
2. Ms. Smitha Sivanandan, M.Sc.
- 3.

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

Secretaries

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

STAFFING CHANGES

New staff appointed:

1. Mr. Mohammed Jaseem joined as a Research Assistant in December, 2019
2. Ms. Iman Mansoor Faid joined as a Teaching Assistant in January, 2020

Promotions

1. Dr. Heba Al-Hussaini has been promoted to Associate Professor in April, 2020

Staff who left the Department:

1. Dr. Iman N. Abdel-Khalik, left from the Department on June, 2019.
2. Mr. Mohammed Jaseem left from the Department on September, 2020

Staffs on Leave:

Academic staff on study leave:

1. Dr. Heba Al-Hussaini, Associate Professor, on study leave from November 1, 2019 – October 31, 2020.

TEACHING IN THE DEPARTMENT PROGRAM

I. FACULTY OF MEDICINE

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

Lectures	: 136	hours	
Seminars/ Tutorials	: 14	hours	
Lab/ Practical	: 643	hours	
PBL Facilitation	: 347	hours	L
Total contact hours	: 1140	hours	

GRAND TOTAL

1140 hours

Semester - I

Total number of contact hours for faculty members during Semester I

Discipline	Lecture hours	Lab/Practical Hours	Seminar/ Tutorial hours	PBL Facilitation	Total hours
Medical and Dental	91	459.5	13	258.5	822

Total Number of Contact hours: 822

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	45	183.5	1	88.5	318

Total Number of Contact hours: 318

GRAND TOTAL: 1140 hours

Objective Structured Practical Examinations (OSPE)

The organization, invigilation and marking of OSPEs for 2nd, 3rd and 4th-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	Musculoskeletal System
Dr. Ebtesam Abd-El-Basset	Nervous system
Dr. Muddanna Rao	Cardiovascular system
Dr. Sampath Madhyastha	Endocrine System Renal and Reproduction & Breast
Dr. Alyaa Mousa	Foundation Block I Blood Module
Dr. Mohammed Al-Onaizi	Respiratory system

Elective Courses for the PBL Curriculum:

Phase II

1. Anatomy of Abdomen (Prof. Waleed Renno)
2. Dissection of Human Brain (Dr. Ebtesam Abd-El-Basset)
3. Experimental Hippocampal Stem Cell and Slice Culture (Dr. Muddanna Rao)
4. Introduction to Tissue Culture (Dr. Alyaa Mousa)

Phase III

1. Regional Anatomy - Dissection of Upper Limb (Prof. Waleed Renno)
2. Dissection of Orbit and its contents (Dr. Heba Al-Hussaini)
3. Dissection of back, vertebral column and spinal cord (Prof. Narayana Kilarkaje)
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)

Elective – Phase II Dental Students

1. Dissection of Jaws and surrounding regions (Prof. Narayana Kilarkaje)

Medical Students' Day

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

b) Graduate Program Teaching (M.Sc.)

Lectures : 212 hours

Tutorials / Seminars	:	8 hours
Practicals	:	237 hours
Total contact hours	:	457 hours

GRAND TOTAL: 457 hours

Semester – I & II

Total number of Contact hours for faculty members during Semester I

Discipline	Lecture hours	Lab/Practical Hours	Seminar / Tutorial hours	Total hours
M.Sc.	212	237	8	457

Total Number of Contact hours: 457

GRAND TOTAL: 457 hours

Course Coordinators Name

Course

Prof. Narayana Kilarkaje	Tissue & Organ Histology (Up to 2019), Fine structure of cells (From 2019)
Prof. Waleed Renno	Gross Anatomy I, Advances in Neuroscience Research, Neurobiology of pain
Dr. Ebtesam Abd-El-Basset	Introduction to Cell Biology, Neuroanatomy
Dr. Muddanna Rao	Gross Anatomy II, Behavioral Neuroscience Methods, Microscopic Techniques
Dr. Alyaa Mousa	Introduction to Human Development, Introduction to Tissue Culture
Dr. Madhyastha Sampath	Tissue & Organ Histology (From 2020)

Thesis Supervision

No:	Student Name	Supervisor	Co-Supervisor	Outcome
1.	Ahmed Fareed Mohammed Abdullah (Department of Anatomy)	Dr. Sampath Madyastha	Dr. Muddanna Rao	Ongoing
2.	Suad Mohammed Saeed (Department of Anatomy)	Dr. Muddanna Rao	Prof. Waleed Renno	Ongoing
3.	Sara Salem (Department of Anatomy)	Dr. Alyaa Mousa	Prof. Mariam Yousif (Pharmacology)	Ongoing
4.	Abdullah AlSabagh (Department of Anatomy)	Prof. Waleed Renno (Anatomy)	-	Ongoing
5.	Sara Khamisi (Department of Physiology)	Dr. Slava Adel (Physiology)	Prof. Narayana Kilarkaje	Ongoing
6.	Munirah W A Al-Farhan (Department of Anatomy)	Prof. Narayana Kilarkaje	Dr. Heba Al-Hussaini	Completed
7.	Nourah W A Al-Farhan (Department of Anatomy)	Dr. Muddanna Rao	-	Completed
8.	Rawan Sharhabeel Katanah (Department of Anatomy)	Dr. Heba Al-Hussaini	Prof. Narayana Kilarkaje	Completed
9.	Wafa Matar Al-Fadhli (Department of Physiology)	Dr. Maie Al-Bader (Physiology)	Prof. Narayana Kilarkaje	Completed
10.	Mariam M. A. Awadi (Department of Physiology)	Dr. Maie Al-Bader (Physiology)	Prof. Narayana Kilarkaje	Completed

II. OTHER FACULTIES

NILL

RESEARCH AND PUBLICATIONS

Research Grants

Principal Investigators

1. **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
2. **Grant Number: YM17/19**
Title: *Effect of N-Acetyl cysteine amide against Abeta induced neurotoxicity*
Status: Ongoing
Principal Investigator: **Dr. Sampath M**
Co-investigator: Dr. Muddanna S Rao
3. **Grant Number: YM02/20**
Title: *Mechanisms of lead induced decline in neurogenesis-An in-vitro and in-vivo study*
Status: Ongoing
Principal Investigator: **Dr. Muddanna S. Rao**
Co-investigator: Prof. Waleed Renno
4. **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
5. **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
6. **Grant Number: RM01/19**
Title: *Elucidating mechanisms underlying the link between diabetes and Alzheimer's Disease*
Status: Submitted
Principal Investigator: **Dr. Mohammed Al-Onaizi**
Co-investigators: Prof. Narayana Kilarkaje, Dr Ayman ElAli (University of Laval)
7. **Grant Number:**
Title: *Effects of Heat Therapy on Attenuating Muscle Atrophy on an STZ-Induced Diabetic Rat Model*

Funding: Funded
Status: Submitted
Principal Investigator: Prof. Waleed Renno

8. **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
9. **Grant Number: RM01/12**
Title: *Molecular effects of diabetes on testis: Modulation of DNA damage repair pathways.*
Funding: Funded, Priority Research Grant
Status: Completed
Principal Investigator: **Prof. Narayana Kilarkaje**
Co-investigators: Dr. Heba Al-Hussaini, Prof. Maie Al-Bader, Ms. Ala'a Abdelqadar, Ms. Mariam Al-Qayyan
10. **Grant Number: YM07/17**
Title: *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.*
Funding: Funded
Status: Completed
Principal Investigator: **Prof. Narayana Kilarkaje**
Co-investigators: Dr. Heba Al-Hussaini, Ms. Muneera Al-Farhan
11. **Grant Number: RM01/16**
Title: *Modulatory roles of Lycopene and Resveratrol in diabetes-induced formation of advanced glycation end products and alterations in vitamin A metabolism in rat retina.*
Funding: Funded, Priority Research Grant
Status: Completed
Principal investigator: **Dr. Heba Al-Hussaini**
Co-investigator: Prof. Narayana Kilarkaje
12. **Grant Number: YM04/17**
Title: *Modulatory effects of Resveratrol on diabetes-induced retinal pigment epithelial cell apoptosis and alteration in c-Jun N-terminal kinase signaling in Dark Agouti rats.*
Funding: Funded
Status: Completed
Principal investigator: **Dr. Heba Al-Hussaini**
Co-investigators: Prof. Narayana Kilarkaje, Ms. Rawan Kitaneh
13. **Grant Number: YM12/17**
Title: *Effects of dibutyl cAMP on hippocampal neurotropic factors, neurogenesis,*

learning and memory in diabetic rats.
Funding: Funded
Status: Completed
Principal Investigator: **Dr. Muddanna S. Rao**

Co-Investigators:

14. **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**
15. **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
Co-investigator: **Prof. Waleed Renno**
16. **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: Approved
Co-investigator: **Dr. Alyaa Mousa**
17. **Grant Number:** YM03/17
Title: *Notch Signaling in Intrauterine Growth Restriction in Rats: Is There a Modulatory Role for Melatonin?*
Funding: Funded
Status: Completed
Co-investigator: **Prof. Narayana Kilarkaje**
18. **Grant Number:** YM11/15
Title: *The effect of progesterone on placental nutrient transporters in dexamethasone-induced intrauterine growth restriction.*
Funding: Funded
Status: Completed
Co-investigator: **Prof. Narayana Kilarkaje**
19. **Grant Number:**
Title: *The effect of progesterone on placental glucose transporters (GLUT1 and GLUT3) in dexamethasone-treated rats.*
Funding: Funded
Status: Completed
Co-investigator: **Prof. Narayana Kilarkaje**

Funded Projects from Kuwait University

20. **Title:** *The association between microminerals and cognitive function in school children in Kuwait.*

Funding: Funded

Status: Ongoing

Co-investigator: **Dr. Muddanna Rao**

Unfunded Projects

21. **Title:** *Effect of cytokines on the survival and regeneration of the neurons and neurites outgrowth.*

Status: Ongoing

Principal Investigator: **Dr. Ebtesam Abd- El- Basset**

RESEARCH AND PUBLICATIONS

Research papers

1. **Rao, M. S. and Abd-El-Basset, E. M.** (2020): dBcAMP Rescues the neurons from degeneration in Kainic acid injured hippocampus and enhances learning and memory and neurogenesis. *Frontier in Behavioral Neuroscience*. Vol 14, pp 1-17.
2. **Abd-El-Basset, EM; Rao. M.S.** and Ameera Alsaqobi (2020): Interferon-Gamma and Interleukin- 1Beta Enhance the Secretion of Brain Derived Neurotrophic Factor (BDNF) and Promotes the Survival of Cortical Neurons in Brain Injury. *Neuroscience insight* Vol. 15: pp 1-17
3. Dalal G Al-Adwani, **Waleed M Renno**, Khaled Y Orabi. Neurotherapeutic Effects of Ginkgo Biloba Extract and Its Terpene Trilactone, Ginkgolide B, on Sciatic Crush Injury Model: A New Evidence. *PLoS One*. 2019 Dec 26;14(12):e0226626. doi: 10.1371/journal.pone.0226626. eCollection 2019.
4. 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>
5. Al-Mutairi A, Rahman A, **Rao MS**. Low doses of thymoquinone and ferulic acid in combination effectively inhibit proliferation of cultured mda-mb 231 breast adenocarcinoma cells. *Nutr Cancer*. 2020;1-8. doi:10.1080/01635581. 2020.1743869

6. PV Santhosh Rai, Anees Dudekula, Anand Venugopal, BV Murali Manju and **Sampath Madhyastha** (2020) Radiological Study of the Adipose Tissue at the Para-Cavernous Region of Middle Cranial Fossa, Journal of Anatomical Society of India, IP: 10.232.74.27; 67-70
7. Binning W, Hogan-Cann AE, Yae Sakae D, Maksoud M, Ostapchenko V, **Al-Onaizi M**, Matovic S, Lu WY, Prado MAM, Inoue W, Prado VF.(2020) Chronic hM3Dq signaling in microglia ameliorates neuroinflammation in male mice. Brain Behav Immun. 88:791-801. doi: 10.1016.
8. Beraldo FH, Palmer D, Memar S, Wasserman DI, Lee WV, Liang S, Creighton SD, Kolisnyk B, Cowan MF, Mels J, Masood TS, Fodor C, **Al-Onaizi MA**, Bartha R, Gee T, Saksida LM, Bussey TJ, Strother SS, Prado VF, Winters BD, Prado MA.(2020) MouseBytes, an open-access high-throughput pipeline and database for rodent touchscreen-based cognitive assessment. 1;8:e49630. doi: 10.7554
9. **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 (Submitted for publication)
10. **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 (Submitted for publication)
11. Abdulaziz M F Shayea, **Alyaa M.A. Mousa**, **Waleed M. Renno**, Mohammed Shaban Nadar, Bedoor Qabazard, Mariam H. M. Yousif. Chronic Treatment with Hydrogen Sulfide Donor GYY4137 Mitigates Microglial and Astrocyte Activation in the Spinal Cord of Streptozotocin-induced Diabetic Rats. Submitted to Journal of Neuropathology and Experimental Neurology. June 2020. Under Review.
12. **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. Submitted June 2020 Scientific Report. Under Review.
13. 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. Submitted to International Journal of Molecular Medicine. Jul.2020. Peer Reviewed and Indexed.

Papers / Manuscripts in preparations:

1. **Abd-El-Basset E.M.**, Alshawaf S, Ashkanani H, Kabli A, (2020): Tumor necrotic factor-alpha (TNF- α) induces astrogliosis and promotes survival of cortical neurons. (In preparation)

2. **Abd-El-Basset EM**, and **Rao. M.S.** (2020). Role of dBcAMP on neuronal survival in tissue culture and neurogenesis in adult mice. (In preparation).

Published Abstracts

1. **Rao MS** and Smitha S dBcamp protects the neurons from hyperglycemia-induced neurodegeneration-an in-vitro study (2019) Abstract No. p237, FENS Regional meeting, July 10-13, 2019, Belgrade, Serbia
2. Qabazard B, Yousef M, **Mousa A**, Phillips OA: A study of the Effect of Chronic Hydrogen Sulfide Treatment on the Corpus Cavernosum of Type-I Diabetic Rat Model. Presented at, International conference on medical, biological and pharmaceutical sciences (icmbps-19)16th August 2019 at London, UK
3. **Waleed M Renno**, Hanaa L. Sadek, Jijin Kumar, Preethi George, Jassim M Alhassan. Catfish (*Arius bilineatus*, Val.) skin protein preparation improves histopathological and ultrastructural alterations of the sciatic nerve myelinated fibers in STZ-diabetic rats. Society for Neuroscience 2019. Tracking Number: 2019-S-9175-SfN. Chicago, Illinois, USA. October 19-23, 2019.
4. **Abd-El-Basset E.M.**, Alshawaf S¹, Ashkanani H¹, Kabli A¹, Najem A². Tumor necrotic factor-alpha (TNF- α) protects neurons from degeneration in stab wound injury. 10th Global summit on neuroscience and neuroimmunology Paris, France, Feb 2020.

Award:

1. **Waleed M. Renno** – granted a certificate of thanks and appreciation from the Sabah Al Ahmad Center for Giftedness and Creativity for obtaining patency no (US 10.561.689 B1) “Method of Treating Nerve Damage.
2. Procurement United States Patent No. US10,471,105 B1 Method For Treating Infertility – Inventors Jassim M. Hassan M. Ali and **Waleed M. Renno**. Date of Patent Nov. 12, 2019
3. Procurement United States Patent No. US10,561,689 B1 Method For Treating Nerve Damage – Inventors Jassim M. Hassan M. Ali and **Waleed M. Renno**. Date of Patent Feb. 18, 2019

Departmental Seminars, Journal Club and Thesis Defense

1. **Ms. Muneera Waheed Alfarhan** – *Role of peroxisome proliferator-activated receptor - gamma (PPAR- γ) in type 2 diabetes-induced testicular DNA damage and repair in leptin receptor-deficient obese mice.*, September 19, 2019. (**Thesis Defense**)
2. **Ms. Noura Waheed Alfarhan** – *Effects of Dibutyl cAMP on Hippocampal Neurotrophic Factors, Neurogenesis, Learning and Memory in Diabetic Rats.*, September 26, 2019. (**Thesis Defense**)

3. **Ms. Rawan Kittaneh**– *Effects of Resveratrol on Diabetes-induced Up-regulation of Apoptosis and MAPK Signaling in Retinal Pigment Epithelium of Dark Agouti Rats.*, October 2, 2019. (**Thesis Defense**)
4. **Prof. Narayana Kilarkaje** – *Role of dual specificity phosphatases in induction of diabetic nephropathy.*, October 23, 2019. (**Journal Club**)
5. **Prof. Waleed Renno** – *Catfish (Arius bilineatus, Val.) skin protein preparation ameliorates neurobehavioral and axonal and neuronal histopathological alterations in a sciatic nerve crush injury rat model.*, November 27, 2019. (**Departmental seminar**)
6. **Dr. Mohammed Al-Onaizi** – *The role of leptin in modulating hippocampal function: implications for Alzheimer's Disease.*, February 12, 2020. (**Departmental seminar**)

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:

- Biological Trace Element Research
- Biomedicine & Pharmacotherapy
- Chemico-biological interactions
- Diabetologia
- Medical Principles and Practice
- Reproduction
- Reproductive Sciences
- Toxicology and Applied Pharmacology

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. Ebtesam Abd-El-Basset

Peer reviewer of scientific papers for publication:

- Molecular Histology
- Journal of neuroinflammation

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

d) Active participation in professional conferences

Prof. Waleed Renno

- Society for Neuroscience 2019, San Diego, CA, USA November 2019.

Dr. Ebtesam Abd-El- Basset.

- 10th global summit on neuroscience and neuroimmunology, Paris, France, Feb 2020

Dr. Muddanna Rao

- Federation of European Neuroscience Societies (FENS) Regional meeting, held at Belgrade, Serbia (July 10-13, 2019).

Dr. Alyaa Mousa

- International conference on medical, biological and pharmaceutical sciences (icmbps-19), London, UK, 16th August 2019

e) Service as external examiner outside Kuwait

Prof. Narayana Kilarkaje

1. External examiner to Sultan Quaboos University, Oman

2. Visiting faculty to Harvard Medical School Anatomy Unit

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 February 25
3. Acting chairman, Department of Anatomy- from February 26 to till date
4. Member, Phase II Curriculum committee
5. Member, HSC Animal Ethics Committee
6. Member of M.Sc., Biomedical Sciences
7. Member of Faculty Council
8. Member of Higher Scientific Committee
9. Member of Judging Committee for the Poster Conference, 2019
10. Member of promotion review committees
11. Member of young and distinguished researcher award committee
12. Coordinator of Departmental - Recruitment committee, Scholarship committee
13. Member of Departmental - Justification committee, Graduate studies committee

Prof. Waleed Renno

1. Director of the Consultation and Training office at the Faculty of Medicine, May 27, 2010 – Present.
2. Member of Dental Faculty Examination Committee for Phase II – January 20, 2010 – Present.
3. Member, Musculoskeletal System (Phase II- Medical & Dental)
4. Coordinator - Oral Science Summer Course (2014 – Present)
5. 5th and 6th Year Surgery program (Phase III- Multidisciplinary Activities)
6. External Examiner for 470 Student Project, Faculty of Allied Health Sciences, MLS Department, Kuwait University. Academic year 2019/2020 – 2nd semester
7. Member of Departmental - Recruitment committee, Graduate studies committee, Purchasing Committee, Scientific Committee

Dr. Ebtesam Abd-El-Basset

1. Coordinator of Departmental - Research committee
2. Member of Departmental – Graduate committee, Appointments & Contract Renewal Committee, Scholarship Committee, PhD graduate 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, Graduate program committee, Research committee, Purchase committee, Safety-officer (2019-)

Dr. Sampath Madhyastha

1. Member, Examination review committee
2. In charge of OSP Examination (Year 4) for Anatomy Department
3. Member of Departmental - Purchasing committee, PhD program committee,

Dissection room committee

Dr. Alyaa Mousa

1. Anatomy Master Program Director, 2019 -To date
2. Member, Graduate Program Area Committee
3. Foundation Block-Examination Committee. 2009-To date
4. Coordinator of Departmental – Graduate Program Committee, 2019-To date
5. Teaching Coordinator Committee (Second Year)-2016-To date
6. Member, of Committee of Academic Affair, Kuwait University Faculty Association (KUFA), Kuwait (2017- To date)
7. Member, Kuwaiti Women philanthropic team, (2017 –to date)
8. Member, Kuwait Women’s Cultural and Social Society, (2011 –to date)
9. Member, Alzheimer Committee of Kuwait Women’s Cultural and Social Society, (2012 –to date)
10. International consultant for ICDDR-b, Bangladesh (2014 –to date)
11. Member of Departmental - Purchasing committee, Scholarship committee, Appointment and Contract Renewal Committee, Research Committee

Dr. Mohammed Al-Onazi

1. Health and Safety Committee Member, 2019-2020
2. Member of Departmental - Dissection Room Committee, Purchasing Committee, 2016-Present

g) Contributions to committees outside the Faculty

Prof. Narayana Kilarkaje

1. Member of American Association of Clinical Anatomists (AACA)
2. Member of Anatomical Society
3. Member of Society for Toxicology
4. Member of American Association of Anatomy
5. Member of European Society of Endocrinology

Dr. Ebtesam Abd-El-Basset

1. Society for neuroscience
2. American association of Clinical Anatomists
3. Canadian Society for neuroscience

Dr. Alyaa Mousa

1. 1994- To date, Member of the Society for Neuroscience (SFN).
2. 2006-To date, Member of International Vaccine Institute Friend’s Society (IFS).
3. 2009- To date, Member of International Society for Stem Cell Research (ISSCR)

Dr. Mohammed Al-Onazi

1. Alzheimer’s Association (AAIC)
2. Society for Neuroscience (SfN)
3. 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 2019
2. Applied and Surgical Anatomy- for KIMS surgical residents, July 2019.

Dr. Alyaa Mousa

1. One- Day Event campaign to increase awareness of the Anatomy Master Program at the Faculty of Medicine. The event was held at Faculty of Medicine (lobby) for all students of Health Science Center on Sunday, December 22, 2019, HSC, Kuwait University.

CONCLUSION

The members of the Department Anatomy worked hard and smartly to achieve the set goals in teaching and research. Several important Faculty level committees included the Faculty members from the Department. This reflects administrative abilities of the members. The faculty members were authors in more than 13 published papers. The faculty members also attended several international conferences. 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 rating of anatomy teachers excellent 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 waiting for the pandemic to go and to restart the academic activities. The Department also looking forward to some changes in the examination method for medical and dental students. The expected changes are making compulsory pass required in OSPE by each student to pass on to the next level. This will significantly improve the skill of all 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 and 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

Biochemistry department has eight academic staff members, three Teaching Assistants, eight support staff including one secretary to perform teaching, research and administrative duties. Department focusses on basic research areas including basic 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 and Metabolism. In the current academic year, fifteen peer-reviewed research articles and eight abstracts were published despite a heavy teaching load. However, due to COVID-19 pandemic, the members could not present their research findings in any scientific meetings. Department currently has availed 16 research projects including students MSc thesis research grants. Six students were enrolled into MSc program in Medical Biochemistry of which four have graduated and the remaining students are at various stages of experimentation and completing their course work. For the next academic year, 2020-2021, no students applied for the admission to our Graduate Program. The two PhD students in Medical Biochemistry PhD program are conducting their thesis work.

Department contributes various courses and topics in the following levels to the undergraduate academic program:

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

Department also offers graduate teaching and thesis supervision in the following Graduate and post graduate Programs:

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

(a) Objectives of the Departmental Academic Programs

Phase-1 Year-1 Chemistry and Biology

These courses are offered to prepare students so that they are ready to integrate basic knowledge with the medically relevant concepts on higher levels of their study. A total of 36 lectures, 4 workshops, and 5 laboratories and 1 revision sessions are offered in the Chemistry course, whereas 9 lectures, 3 tutorials and 1 laboratory session are offered in Biology.

Phase-2 Year-2 Foundation

The objective is to strengthen students' comprehension of the basic concepts, mechanisms and skills related to Biochemistry, Nutrition and Molecular and Cellular Biology, and to enable them to integrate their knowledge in the System-based PBL curriculum in the years-3 and -4.

Phase-2 Years-3-4

Biochemistry topics are integrated with the curriculum to support learning of basic mechanisms underlying the pathogenesis of different themes delivered through problem-based learning (PBL). PBL is offered in small groups consisting of 8-12 students per group.

Elective Courses

Several specialized elective courses are available to offer in the Phase-2 Year-4. These courses are designed to complement students' knowledge in specific areas. In the current academic year, one only elective course was offered.

M. Sc. Graduate Program in Medical Biochemistry

Students are expected to acquire a sound knowledge and hands-on experience in skills including experimental designing and execution, data collection, analysis, presentation and scientific writing during the training.

Ph.D. Graduate Program in Medical Biochemistry

Program is designed to provide students with a sound knowledge and hands-on skills in Biochemistry, Cellular and Molecular Biology, and Genetics techniques and research methods.

(b) Obstacles in Meeting Objectives

Undergraduate Teaching

Despite so much investment in designing and implementation of the system-based PBL curriculum, students are still engaged in question-based learning, and show lack of interest in self-study and critical thinking. Furthermore, the major emphasis of the Phase-2 curriculum is on understanding the basic mechanisms underlying human pathologies. However, there is a minimal role of the Basic Science Departments in the selection of topics, due to which the curriculum contents are incongruous in some cases that makes students to lose their interest which is manifested in their poor learning of and performance in certain topics. Furthermore, importance of Basic Science laboratory teaching has also been marginalized. Some coordinators unilaterally delete topics without any consultation with their coordination team or the Department chairmen.

Graduate Teaching

The Graduate Program and Post-Doctoral Program contribute significantly in enhancing research progress and productivity of an institution. 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 style as per the instructions from the Research Administration (RA), however strangely, we have experienced cuts in the funding for the student thesis research by the RA. Problem of scarcity of and procuring of experimental animals and their maintenance are also a serious challenge which is impacting research progress. Furthermore, procuring research money requires a long time, which should be expedited through minimizing the processing of grant applications, petty cash request and settlement facilitating the release of funds in time.

Shortage of Manpower and Recruitment

Department is suffering from a shortage of staff particularly due to a high attrition rate. Despite our consistent efforts, no appointment was made yet. Thus, the Department is currently left with only eight academic members to perform the Department's academic, research and administrative business. Department also does not have any chief technician to plan, and manage necessary material supply for running the department. Restriction in hiring only Kuwaitis nationals who are not interested in joining such low paid positions is a reason for the shortage of technical staff in the department. This shortage of the academic and support staff together with a heavy administrative load is impacting Department's progress and productivity in research.

Research

For efficient delivery of research and teaching it is important to ensure availability of funds in sufficient amounts and an in-time delivery of consumables/chemical supplies, and maintenance of necessary instruments. In addition, research in universities is driven mainly by the graduate students and post-doctoral fellows however, there is no simple way to hire postdoctoral fellows in this University.

(c) Current Developments

Undergraduate Teaching

Remedial Sessions

To support and help students in learning various difficult concepts in Biochemistry there is provision of offering remedial sessions. These sessions are planned to be delivered by the Teaching Assistants under the guidance of an academic staff only on students' demand.

Medical School Day Teaching

Two Biochemistry related topics are offered by to the Year-6 students in Phase-3 as part of Medical School Day in an integrated manner.

Students Training

Department offers hands-on training in the cutting-edge-technologies such as Polymerase Chain Reaction, DNA sequencing, Chromosomal analysis by Fluorescence in-situ hybridization (FISH) and LC/GC Mass Spectroscopy through compulsory and elective courses.

Part-Time Graduate Program for Medical Students

Department also offers four Biochemistry/Molecular Biology courses in this program.

Molecular Biology Graduate Program, College of Graduate Studies

Department participates in offering two courses entitled Advanced Molecular Biology and Advanced Cell Biology in this program controlled by the College of Graduate studies. Department also provides thesis supervision to the MSc students enrolled in this program.

PhD Program in Medical Biochemistry

The two PhD students who after passing their comprehensive tests are now enrolled for their thesis work. 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

There were six MSc students enrolled for thesis work including two students from the Molecular Biology Graduate Program. One student enrolled in the Molecular Biology graduated with her MSc degree in this academic year, 2019-2020. Four students graduated with their MSc degree in the current academic year. Remaining two students are engaged in their course and thesis work and thesis writing. Students participated actively 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 the Faculty of Medicine. There are several Coordination Committees for Year-1-4 which are responsible for curriculum supervision and modification individually. These Committees have Biochemistry Department representatives serving as a member. The curriculum and the instructor are routinely evaluated by the students, and based on students' feedback, the curriculum is routinely revised. These changes include removal of redundancy or extensive overlap among different disciplines. In addition, the Department Curriculum Committee (adhoc) review and revise the objectives and contents of the

topics to present in an appropriate sequence of delivery so as to facilitate student's coherent learning of the subject matter.

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 teachers are also evaluated routinely by the students and their feedback is taken into account to modify their instructions on individual basis. In addition, there is a regular feedback from the CGS as well, and the changes are incorporated. 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 old courses (Research Seminar I (0540-568) and Research Seminar II, (0540-569) which offered in the program have been removed from the student course list because the above new courses include their contents.

To accommodate this change, the students are now exempted to select any Elective course. For graduation the students now have to complete a total of 31 credit-hr course work including 22 credits for course work, and 9 credits for the thesis. These changes were also approved by the Department Graduate Program Committee.

PhD Program in Medical Biochemistry has been initiated with two students who have completed their course work and are engaged in their research work. PhD curriculum is also controlled by the graduate college. However, one course offered this year entitled, 'Inflammation and Mediators' which is a 1-credit-hr course was realized to be short of credits. Therefore, based on our experience and student feedback, the course has been suggested to change to 2 credit-hr starting from the next academic year. The request pertaining to this modification has been submitted to the College of Graduate Studies through the Vice-Dean Research and Post Graduate Studies for approval.

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 to meet students learning needs. From student review/feedback it appears that they do not like learning topics. Therefore, based on students' feed-back and staff suggestions 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.])

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.

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. Farida M. Al-Awadi, B.Sc., Ph.D.
(Regulation of Metabolic Homeostasis, Trace Elements and Diabetes)
3. Dr. Ludmil T. Benov, B.Sc., Ph.D.
(Free Radicals, Cell Defense Systems and Physical Biochemistry)
4. Dr. Moussa Alkhalaf, B.Sc., Ph.D.
(Breast Cancer, Steroid Therapeutics and Molecular Biology)

Associate Professors

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

Assistant Professors

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

Teaching Assistants

1. Ms. Mona Mohammed, B.Sc., M.Sc.
2. Ms. Raeda Khanafer, B.Sc., M.Sc.
3. Dr. Osama Habib, B.Sc., M. Sc., Ph.D.

Graduate Students

M.Sc.

1. Ms. Maha Abd Al-Azeez Al-Habeeb (Defense on September 18, 2019)
2. Ms. Farah A. Khashab (Defense on September 26, 2019)
3. Ms. Farah S.S.S Alsaleh (Defense on September 19, 2019)
4. Ms. Reham Abdullah Abdulrahman Al-Othman
5. Ms. Zahraa Abdulkareem Baidhoun
6. Ms. Athari A.S.S. AlEnazi

Ph.D.

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

Scholarship Student for PhD training

Mr. Mohammad Al-Ansari (Durham University, UK)

Support Staff

Chief Technician

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

Scientific Assistants

1. Dr. Elizabeth Jayanthi, B.Sc., M.Sc., Ph.D.
2. Ms. Fatima Sequeira, B.Sc., M.Sc.

Senior Chemistry Specialist

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

Senior Technicians

4. Ms. Lilly Verghese, B.Sc., M.Sc.
5. Ms. Mona Al-Rustom, B.Sc.

Chemistry Specialist

6. Mr. Godwin Budadasari, B.Sc., M.Sc.
Senior Secretary

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

Translator

8. Ms. Anwar Bugmaz, B.A., Diploma in Secretarial and Management Assistance

Staff on Study Leave

Mr. Mohammad Al-Ansari (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

Coordinators	Elective	Year
1. Prof. Islam Khan	Gene Therapy: from lab to the clinic	4
2. Dr. M. Al-Maghrebi	Basic Research Skills Course	4

Table 3. Representation in Phase-2 System Coordination

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

Table 4. PBL Facilitation

Facilitators	System	Year
1. Prof. I. Khan	1. Reproduction	4
	2. Musculoskeletal system	3
2. Prof. L. Benov	3. Cardiovascular system	3
	4. Respiratory System	3
	5. Reproduction	4
3. Prof. M. Alkhalaf	6. Infection and Immunology	2
	7. Endocrine	3
4. Dr. F. Thameem	8. Blood and Lymph	3
	9. Renal	4
5. Dr. A. Al-Jarallah	10. Blood and Lymph	3
	11. Musculoskeletal system	3
6. Dr. Selma Alkafeef	12. Musculoskeletal system	3
	13. Digestive System	4

Table 5. Phase-1 Year-1 Chemistry

Format	Contact hours
Lectures	114 (38h x 3)
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)
Total	339

Instructors: I. Khan; L. Benov; F. Thameem; 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	7
Total	86

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	35 (3.5 hr x 5 weeks x 3 facilitators)
Total	41

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

Table 10. Cardiovascular System

Format	Contact hours
Lectures	2
PBL	28 (3.5 hr x 8 weeks x 1 facilitator)
Total	30

Instructors: A. Al-Jarallah (PBL: L. Benov)

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	20 (1h x 4 seminars x 5 groups)
Learning topic	1
PBL	24.5 (3.5h x 7 weeks x 1 facilitator)
Total	52.5

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

Table 13. Musculoskeletal System

Format	Contact hours
Lectures	3
Seminars	8 (1h x 2 seminars x 4 groups)
PBL	52.5 (3.5h x 5 weeks x 3 facilitator)
Total	63.5

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

Table 14. Central Nervous System

Format	Contact hours
Lectures	1
Learning topics	5

Total	6
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Instructors: I. Khan; L. Benov; M. Alkhalaf; S. Alkafeef

Table 15. Digestive System

Format	Contact hours
Lectures	3
Seminars	8 (1h x 2 seminars x 4 groups)
Learning topics	1
PBL	28 (3.5h x 8 weeks x 1 facilitator)
Total	40

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

Table 16. Renal, Reproduction and Breast

Format	Contact hours
Lectures	1
Learning topics	2
PBL	52.5 (3.5h x 5 weeks x 3 facilitators)
Total	55.5

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

Table 17. Elective: Basic Research Skills Course:

Format	Contact hours
Lectures	4
Practical	12
Total	16

Instructor: M. Al-Maghrebi

Table 18. Teaching in Other Programs

Programs/Lectures	Contact hours
Medical School Day Phase-3 (Basic Sciences)	
1. Inflammatory Bowel Disease	3
2. Biochemical Assessment of Muscle Disorders	3
Total	6

Instructor: I. Khan

(b) Graduate Teaching

Medical Biochemistry Graduate Program (M.Sc.)

Program Director: Prof. Moussa Alkhalaf

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
7. A. Al-Batineh	510-501	8. Biostatistics course**	2

*Faculty-based course; **Offered by the Department of Community Medicine

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 3. Biochemistry Techniques-I (540-560)

Format	Contact hours
Lectures	15
Labs	72
Total	87

Instructors: L. Benov; A. Al-Jarallah; S. Dannoos; M. Alqabandi

Table 4. Molecular Biology and Biotechnology (540-562)

Format	Contact hours
Lectures	25
Total	25

Instructors: I. Khan; M. Alkhalaf; M. Al-Maghrebi; F. Thameem;
M. Haider (Pediatrics)

Table 5. Metabolic Homeostasis and Abnormalities (540-563)

Format	Contact hours
Lectures	33
Total	33

Instructors: I. Khan; L. Benov; M. Al-Maghrebi; A. Al-Jarallah

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

Format	Contact hours
Lectures	25
Total	25

Instructors: L. Benov, F. Thameem, G. Dhaunsi

(c) Medical Biochemistry PhD Graduate Program

Program Director: Prof. Moussa Alkhalaf

Table 1. 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

Table 2. Advanced Techniques in Cytogenetics & Tissue Culture (540-615)

Format	Contact hours
Lectures	15
Total	15

Instructor: M. Alkhalaf

Table 3. Selected Topics in OMICS (540-603)

Format	Contact hours
Lectures	15
Total	15

Instructor: S. Alkafeef

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; L. Benov; M Al-Maghrebi

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

Format	Contact hours
Lectures/Discussions	11
Practical	9
Total	20

Instructors: L. Benov; F. Thameem; A. Al-Jarallah

(b) University-Based M. Sc. Graduate Teaching

Table 1. Scientific Writing (2000-501); Coordinator: Prof. R. Raghupathy

Format	Contact hours
Lectures	2
Total	2

Instructor: L. Benov

Overall Teaching Load

Program	Contact hours
1. Undergraduate didactic + PBL	801
2. Graduate didactic	219
3. PhD didactic	30
4. Graduate Thesis*	1440
5. PhD Thesis*	360

(*Calculated for 6 students based on 8 credits per student per Supervisor 40 study weeks)

Grand total (excluding thesis supervision) – 1050 hours per year

III. Student thesis Advisors

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

Student	Supervisor	Program	Title
1. Maha Al-Habeeb	L Benov	Medical Biochemistry	Effect of charges and shape of photosensitizer molecule on cellular uptake, distribution and photo-efficiency (Defense date: September 18, 2019)
2. Farah Khachab	M Al-Maghrebi	Medical Biochemistry	Investigating the role of the JAK / STAT and DNA damage response pathways in testicular ischemia reperfusion injury (Defense date: September 26, 2019)
3. Farah S.S. Alsaleh	M. Al-Maghrebi	Medical Biochemistry	Regulation of gene expression in testicular ischemia reperfusion injury (Defense date: Sept. 19, 2019)
4. Nora Al-Kandari	M. Al-Maghrebi	Molecular Biology	Germ Cell Apoptosis: Interplay between the Thioredoxin System and the ASK1/Trx/Txnip/JNK signaling pathway (Defense date: Sept 24, 2019)
5. Fatma Fadel	M. Al-Maghrebi	Molecular Biology	Mitochondrial Stress Contributes to Germ Cell Apoptosis via the JNK/Survivin/p53 Pathway. (Defense date: May 2, 2019)
6. Reham A. A. Al-Othman	A. Al-Jarallah	Medical Biochemistry	The Role of High Density Lipoprotein Signaling in Ischemia Reperfusion Injury in Spontaneously Hypertensive Rats
7. Zahra Baidoun	I. Khan	Medical Biochemistry	Effects of Curcumin on ER Stress in Experimental Colitis: Mechanism of action

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
2. Alia A.M.A.H. Al-Harban	L Benov	Medical Biochemistry	Effect of photosensitizer molecular features on cellular uptake, distribution, mechanism of cell death and photoefficiency

(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.

L. Benov

3. 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.
4. Effect of spatial distribution of substituents on cellular uptake, distribution, and photo-efficiency of porphyrin-based photosensitizers (YM06/16), Funding: Kuwait University. Status: Under process, submitted 18/02/2020. PI: L. Benov, CoI: J. Craik.

M. Alkhalaf

5. Co-presence and role of high-risk HPVs and EBV in human oral cancer in the population of Gulf countries. Grant Number: GCC2017002, Funding Agency: GCC Co-Funding Research Grant, PI: M. Alkhalaf.

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 6,000; 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.
8. Does inhibition of NADPH oxidase protect against DNA damage and apoptosis in testicular ischemia reperfusion injury? (YM 16/17). Funding Institute: College of Graduate Studies, Kuwait University; Funds: KD 2,000; Duration: 18 months (2018-2020); Status: Completed. PI: M. Al-Maghrebi, Contributor: Farah Al-Saleh.
9. Mitochondrial Dysfunction Contributes to Germ Cell Apoptosis via the JNK/Survivin/p53 Pathway in Testicular Ischemia Reperfusion Injury (YM 15/17). Funding Institute: College of Graduate Studies, Kuwait University; Funds: KD 2,000; Duration: 18 months (2018-2020); Status: Completed. PI: M. Al-Maghrebi, Contributor: Fatemah Fadhel.
10. Molecular analysis of the ASK-1/thioredoxin pathway in testicular ischemia reperfusion injury (YM 09/17). Funding Institute: College of Graduate Studies and Research

Administration, Kuwait University; Funds: KD 6,000; Duration: 18 months (2017-19); Status: Completed. PI: M. Al-Maghrebi, Contributor: Nora Al-Kandari.

11. Investigating the role of the JAK/STAT and DNA damage response pathways in testicular ischemia reperfusion injury (YM 06/17).; Funding Institute: College of Graduate Studies and Research Administration, Kuwait University; Funds: KD 6,000; Duration: 18 months (2017-2019); Status: Completed. PI: M. Al-Maghrebi, Contributor: Farah Khashab.

F. Thameem

12. Discovery of Functional Variants in Type 2 Diabetes Genes in Mexican Americans. 2U01 DK085524-06: PI: F. Thameem, Duration: 09/20/09–04/30/20. Funding Agency: NIDDK, National Institutes of Health (NIH), USA.

A. Al-Jarallah

13. 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.
14. 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.
15. 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

16. 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. Khan I, Khan KK (2019). Uncoupling of Carbonic Anhydrase from Na-H exchanger-1 in Experimental Colitis: A Possible Mechanistic Link with Na-H Exchanger. *Biomolecules*. 7:700. Doi:10.3390/biom9110700.
2. Albert MJ, Raghupathy R, Khan I, Azizieh FY (2019). In vitro spleen cell cytokine responses of adult mice immunized with a recombinant PorA (major outer membrane protein [MOMP]) from *Campylobacter jejuni*. *Scientific Reports*. 9(1):12024. doi:10.1038/s41598-019-48249-3.1
3. L. Benov, Effect of growth media on the MTT colorimetric assay in bacteria, *PLoS ONE*, 14 (2019).

4. Kaur, S., and Benov, L. T. Methylene blue induces the soxRS regulon of Escherichia coli. *Chemico-Biological Interactions* (2020) 329, 109222
5. Shahinaz Bedri, Ali A Sultan, Moussa Alkhalaf, Ala-Eddin Al Moustafa, Semir Vranic. Epstein-Barr virus (EBV) status in colorectal cancer: a mini review. *Hum Vaccin Immunother.* 2019;15(3):603-610. doi: 10.1080/21645515.2018.1543525. Epub 2018 Nov 15.
6. 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*. Accepted
7. Al-Saleh F, Khashab F, Fadel F, Al-Kandari N, Al-Maghrebi M. Inhibition of NADPH oxidase alleviates germ cell apoptosis and ER stress during testicular ischemia reperfusion injury. *Saudi J Biol Sci.* 2020;27(8):2174-2184.
8. Fadel F, Al-Kandari N, Khashab F, Al-Saleh F, Al-Maghrebi M. JNK inhibition alleviates oxidative DNA damage, germ cell apoptosis, and mitochondrial dysfunction in testicular ischemia reperfusion injury. *Acta Biochim Biophys Sin (Shanghai).* 2020;52(8):891-900.
9. Al-Maghrebi M, Alnajem AS, Esmaeil A. Epigallocatechin-3-gallate modulates germ cell apoptosis through the SAFE/Nrf2 signaling pathway. *Naunyn Schmiedebergs Arch Pharmacol.* 2020;393(4):663-671.
10. Al-Kandari N, Fadel F, Al-Saleh F, Khashab F, Al-Maghrebi M. The Thioredoxin System is Regulated by the ASK-1/JNK/p38/Survivin Pathway During Germ Cell Apoptosis. *Molecules.* 2019;24(18):3333.
11. Guan M, Keaton JM,..Thameem F, Stern M). Genome-wide Association Study Identifies Novel Loci for Type 2 Diabetes-Attributed End-Stage Kidney Disease in African Americans. *Hum Genomics.* 13:21, 2019.
12. Flannick J, Mercader JM...Thameem F...McCarthy MI, Boehnke M (2019). Genetic discovery and translational decision support from 1 exome sequencing of 20,791 type 2 diabetes cases and 24,440 controls from five ancestries. *Nature:* 570:71-76, 2019.
13. 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.*
14. Babiker FA, Al-Jarallah A., Al-Awadi M (2019). Effects of Cardiac Hypertrophy, Diabetes, Aging, and Pregnancy on the Cardioprotective Effects of Postconditioning in Male and Female Rats. *Cardiology Research Practice.*2019:3403959.
15. 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. Khan I, Al-Shamali A (2019). Regulation of Carbonic Anhydrase Expression in Experimental Colitis: A Possible Mechanistic Link with Na-H Exchanger. *Experimental Biology-2019, Orlando.*
2. L. Benov, Development of organelle-targeting photosensitizers, 17th Congress of the International Union of Photobiology and 18th Congress of the European Society for Photobiology, 25th - 30th August 2019, Barcelona (Spain)

3. Abdullah S. Alnajem, Ali Esmaeil, May Al-Maghrebi. Germ Cell apoptosis: It's SAFE by Nrf2 and EGCG. 25th HSC Poster Conference, 2020.
4. Nora Al-Kandari, Shabeeba Pattilath, May Al-Maghrebi. Induction of Germ Cell Apoptosis via the ASK1/JNK/p38/survivin apoptosis pathway & its linkage to cellular redox homeostasis. 25th HSC Poster Conference, 2020.
5. Abdullah S. Alnajem, Ali Esmaeil, May Al-Maghrebi. Germ Cell apoptosis: It's SAFE by Nrf2 and EGCG. The Kuwait Association of Surgeons (KAS) Conference Day; In Collaboration with the Kuwait Chapter of the American College of Surgeons, 2019.
6. May Al-Maghrebi, Fatemah Fadel, Nora Al-Kandari, Farah Khashab, Farah Al-Saleh. Mitochondrial Dysfunction Contributes to Germ Cell Apoptosis via the JNK/p53/ survivin Pathway. ASBMB/Experimental Biology Annual Meeting 2020.
7. Farah Al-Saleh, Farah Khashab, Fatemah Fadel, Nora Al-Kandari, May Al-Maghrebi. Oxidative stress-induced germ cell apoptosis: The NOX-ER stress connection. ASBMB/Experimental Biology Annual Meeting 2020.
8. Aishah Al-Jarallah, Elsie Oommen and Mabayoje A. Oriowo. Role of extracellular calcium and calcium sensitization in the anti-contractile effect of perivascular adipose tissue in pregnant rat aorta.

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
2. Member, Editorial Board, Global Journal of Human Anatomy & Physiology Research
3. Member, Editorial Board, Pharmaceutical analysis

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
6. Arabic Editorial Activities
Translation from English to Arabic the following book for Kuwait National Council for Culture, Arts and Letters (Alam- Almaarifah Book Serie): Book title: Redesigning life: how genome editing will transform the word; Author: John Parrington; Publisher: Oxford University Press; 337 page

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. Current Pharmaceutical Biotechnology
2. Applied Microbiology and Biotechnology
3. Archives of Biochemistry and Biophysics
4. Biochimica Biophysica Acta
5. Experimental Cell Research
6. Analytical Biochemistry
7. Analytical Methods
8. Environmental Science: Water Research & Technology
9. RSC Medicinal Chemistry
10. Redox Report

M. Alkhalaf

1. Grant Reviewer Services with Research Sector, Kuwait University

2. Reviewer, MPP
3. European Journal of Cancer Prevention
4. Frontiers in Oncology

F. Thameem

Reviewed Research Grants for the following funding agencies:

1. Undergraduate Research Experience Program (UREP), Cycle 23, Qatar National Research Fund, Qatar
2. Diabetes Action and Research and Education Foundation (DAREF), USA

Reviewed Manuscripts for the following journals:

- Cardiovascular Diabetology
- PLOS ONE
- Journal of Diabetes Research

(d) Active Participation in Professional Conferences

Academic Missions

L. Benov

1. 17th Congress of the International Union of Photobiology and 18th Congress of the European Society for Photobiology, 25th - 30th August 2019, Barcelona (Spain).

M. Al-Maghrebi

2. 2020 ASBMB annual meeting held in conjunction with the Experimental Biology 2020 meeting, April 4-7, 2020, San Diego, USA.

PS: Due to COVID-19 the academic missions could not be realized

(e) Services for External Examinations Outside Kuwait

I. Khan

3. Evaluation of PhD thesis entitled, “Studies on Conformational Changes and Aggregation of Human Lysozyme and Bovine α -Chemotrypsin A Under Different Conditions” by MD. Tauqir Alam, 2019 from Aligarh Muslim University, Aligarh, India.
4. Evaluation of PhD thesis entitled, “Phytomedicinal Approaches Against Cognitive Impairment and Mitochondrial Dysfunction in ICV-STZ Rat Model of Sporadic Dementia of Alzheimer’s Type (SDAT)” by MD Faraz Zafeer, 2019 from Aligarh Muslim University, Aligarh, India.

L. Benov

2. Ph.D. External Examiner

National Institute of Laser Enhanced Science, Cairo University, Cairo, Egypt Fayoum University, El Fayoum, Egypt.

M. Alkhalaf

1. External Examiner for a Master's thesis at Qatar University with the below details:

Candidate's Name: Hadeel Kheraldine; Program Name: Master; Thesis Title: PAMAM Dendrimers for HER2-Positive Breast Cancer Treatment.

(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 and Contract Renewal 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 Biochemistry Coordination Committee (2010-Present)
10. Member, GI Module Coordination Committee (2008-Present)
11. Member, Department Promotion Review Committee, Department of Medicine
12. Member, Higher Scientific Committee, Faculty of Medicine (2015-Present)

L. Benov

1. Coordinator, Departmental Research Committee
2. Member, Biochemistry M. Sc. Graduate Program Committee
3. Member, Department Foundation Biochemistry Committee
4. Member, Departmental Scholarship Committee
5. Member, Committee for Appointments and Contract Renewal
6. Member, FOM M. Sc. Biomedical Sciences Program Committee
7. Member, Phase II Examination Committee
8. Chair, Department Purchase Committee
9. Coordinator, Phase 1 Chemistry
10. Member, Phase 1 Program Committee
11. Member, Faculty Promotions Committee

M. Alkhalaf

1. Director, MSc Medical Biochemistry Program
2. Director, PhD Medical Biochemistry Programs
3. Member, Medical Research Cancer (MRC)
4. Member, Area Committee
5. Member, Department Foundation Biochemistry Committee
6. Member, Department Scholarship Committee
7. Member, Department Appointment and Contract Renewal Committee

8. Member, Departmental Council
9. Member, Department Examination Committee
10. Member, Department Research Committee
11. Member, Postgraduate Student Grievances Committee

M. Al-Maghrebi

1. Member, Phase 1 Biology Course Coordination Committee.
2. Member, Course committee for the Renal System (Departmental Representative)
3. Member, Course committee for the Reproduction & Breast System (Departmental Representative)
4. Member, Department Council
5. Member, Departmental Foundation Biochemistry Committee
6. Member, Department Scholarship committee
7. Member, Biochemistry PhD program Committee
8. Member, Biochemistry MSc program Committee
9. Member, Biochemistry Research Committee

F. Thameem

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

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. Departmental Representative, Musculoskeletal System-Based Course Committee
3. Departmental Representative, Respiratory System-Based Course Committee
4. Member, Organization Committee for the Biochemistry Department Workshop “Molecular Biology Techniques in Biochemistry: DNA and RNA Isolation and Characterization”

(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. Alkhalaf

1. Director, Research Core Facility (RCF), Health Sciences Center.
2. Member, MSc Molecular Biology (Joint Degree) Graduate Program Committee, College of Graduate Studies, Kuwait University.
3. Member, Promotion Committee, Department of Pharmaceutics, Faculty of Pharmacy, Kuwait University.
4. Member, Postgraduate Student Grievances Committee, College of Graduate Studies, Kuwait University.

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 produced 15 research publications, and 8 abstracts in the international conferences with a financial support through several research grants which were funded by the Kuwait University Research Sector, KFAS and NIH (US). Four students have graduated with MSc degree in the current academic year. In addition, the members have participated and contributed to various administrative and academic duties pertaining to the curriculum development and coordination etc. Thus the Department has been successful in achieving the objectives set-in for research, undergraduate and graduate teaching and administrative duties.

b) Plan for the future

Organize Examination Review in the Department

Department Committees on an adhoc basis critically review and assess the suitability of examination items before submitting to the Faculty Examination Committees. Our examination items are received very well by the examinee students.

PhD Program in Medical Biochemistry

Due to shortage of academic staff, admission to PhD program has been postponed until new recruitments are made.

c) Concluding remarks

In the current academic year, 15 research articles were published in peer reviewed scientific journals, and research findings were planned for presentation however due to COVID-19, these meetings were cancelled. Sadly, the university remained closed for the full 2nd semester. The remaining teaching was reattempted online starting from 09 Aug, 2020 which has delayed initiation of the next academic year, 2020-2021. The Faculty staff with the support 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 received no application for admission into MSc Medical Biochemistry program for the next academic year, 2020-2021. Due to shortage of academic staff, no new admission was also approved for the PhD Program in Medical Biochemistry for the academic year, 2020-2021. 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 at least 4-5 additional academic members at Assistant-Associate-Full Professorial levels are required. One professorial position was approved but the candidate refused to join at the last moment. One scholarship candidate is under training for his PhD degree, who shall join the department after completing his PhD

degree in the near future as Assistant Professor. Department also propose to sponsor at least two more Kuwaiti nationals for scholarship program.

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 initiate and further enhance department capacity to participate 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 this 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). This six credit hours' course is 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:

Tutor	S. No.	Title of Project
Dr. Ahmed Albatineh	20.01	Prevalence and associated risk factors of cognitive impairment among patients with type-2 diabetes mellitus: a cross-sectional study
Dr. Reem Al-Sabah	20.02	Prevalence and Associated Factors of cyberbullying among Kuwait University Students
Dr. Joseph Longenecker	20.03	Prevalence of Cardiovascular Risk Factors Among University students in Kuwait
Prof. Saeed Akhtar	20.04	Prevalence and Clustering of Major Lifestyle Risk Factors For non-communicable Disease among Adolescents in High Schools in Kuwait
Dr. Ali Buabbas	20.05	The Use of Complementary and Alternative Medicine Among Patients with Chronic Diseases in Kuwait
Dr. Reem Al-Sabah	20.06	The Prevalence of Burnout Among Internal Medical Specialists
Prof. Saeed Akhtar	20.07	Prevalence and Factors Associated with Medical Trust in Healthcare Among Public Sector Employees in Kuwait
Dr. Mohammed AlSeaidan	20.08	Prevalence and social predictors of depressive symptoms among pregnant women in Kuwait
Dr. Ali Buabbas	20.09	Public' attitudes toward telehealth during pandemic of COVID-19
Dr. Naif Al-Mutawa	20.10	Knowledge and adherence to the Covid-19 pandemic guidelines among Kuwaiti residents: A cross-sectional online survey

Dr. Wafaa Shaaban	20.11	Weight and Lifestyle Changes during COVID-19 Pandemic Quarantine among Kuwaiti Adults
Dr. Ali Ziyab	20.12	Acceptance of COVID-19 vaccine and its related determinants among the general adult population in Kuwait

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 students 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.

Tutor	MPH Student	Title of Project
Prof. Saeed Akhtar	Hebatalla Elgouhary	A matched case-control study of risk factors for thyroid cancer in Kuwait
Dr. Ahmed Albatineh	Hind Sakijha	Microbial Contamination Analysis of the Hands of Food Handlers in Kuwait Restaurants: a Cross Sectional Study
Dr. Ali Ziyab	Abrar Husain	Factors associated with multiple symptoms of severe asthma among adolescents in Kuwait: 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-centered 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.

Clinical Tutors seconded from the Ministry of Health (2019-2020)

Dr. Mohammed Ibrahim Kamel, PhD, Consultant, Occupational Health Administration, MOH.

Dr. Wafaa Ali Shaban, PhD, Specialist, Food and Nutrition Administration, Al-Sabah Health Area, MOH.

Dr. Mohammed Saleh AlSeaidan, PhD, Senior Registrar, Public Health Administration, MOH.

External Examiner

John E. Vena, Ph.D.

Professor

Department of Public Health Sciences

Medical University of South Carolina

Wilfried J.J. Karmaus, MD, Dr. med., MPH

Professor of Epidemiology, School of Public Health

University of Memphis

MPH students

Ms. Hind Bassem Sakijha

Ms. Abrar Ahmed Husain

Ms. Hebatalla Mohamed Elgouhary

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

Dr. Susan Jacob, B.Sc., M.Sc., B.Ed., Ph.D.

Secretarial Staff

Mr. Ahmed Morsy, B.A

Ms. Hend Salah, B.Sc.

Staff Changes

Staff who left the Department

Academic Staff

Dr. Abdulwahab Al-Isa, B.Sc., M.Sc., Ph.D.

Obesity, Health Education and Promotion

Dr. Abdullah Al-Taiar, M.B.B.Ch., D.C.H., M.Sc., Ph.D.

Epidemiology.

Support Staff

Ms. Abrar Husain, B.Sc.(Technician).

TEACHING IN THE DEPARTMENT'S PROGRAM

I. Faculty of Medicine

a) Undergraduate teaching

Lectures:	208.50
Learning Topics:	17.00
Electives:	96.00
Workshops:	700.00
Tutorials/Seminars:	87.75
PBL & Lab practical	7.00
Total teaching hours given to students per year:	<hr/> 1116.25

Course Coordinators:

Prof. Saeed Akhtar

- Epidemiology II – 2018-2019- Semester II,
- Biostatistics & Basic Epidemiology, Phase I (Epidemiology part
- MPH Program Director

Dr. J. C. Longenecker

- Biostatistics and Basic Epidemiology (Lecturer)
- Epidemiology/Prevention – Phase II (Course Coordinator)
- Community Medicine Course (Lecturer)
- Clinical Epidemiology (MPH Program)

Dr. Ahmed N. Albatineh	<ul style="list-style-type: none"> • Biostatistics and Basic Epidemiology (Phase I course: 240 students) • Biostatistics and Computer in Medicine (MSc Graduate level course: (2 CR: 20 students). • Biostatistics I (MPH graduate level course: (3 CR: 16 students). • Biostatistics for Community Medicine Phase III 5th year MD (Two rotations: 75 students) • Advanced Biostatistics (MSc graduate level course: (1 CR: 8 students). • Biostatistics for Community Medicine Phase III 5th year MD (One rotation: 38 students). • Biostatistics and Basic Epidemiology (Teaching Biostatistics component and course coordinator: 240 students).
Dr. Manal Bouhaimed	<ul style="list-style-type: none"> • Patient Safety: Better Knowledge for Safer Care (Elective), Phase II • Ethics in Public Health, Master of Public Health, Year 1, Semester II • Ethics & Professionalism, Phase II & Phase III
Dr. Naif Al-Mutawa	<ul style="list-style-type: none"> • Psychology (System Blocks), Phase II
Dr. Reem Al-Sabah	<ul style="list-style-type: none"> • Introduction to Medical Psychology (Phase II, Year 2, Foundation Block) • Introduction to Medical Interviewing (Phase II, Year 2) • Introduction to Medical Psychology (Phase II; Systems Blocks, Years 2 and 3) • Community Medicine Project Supervision (Year 5) • Paediatrics Medical School day; Workshop on Communication Skills (Paediatrics Rotation, Year 6) • Introduction to Medical Psychology (Faculty of Allied Health Sciences, Year 2)

- Master of Public Health Practicum, Year 2, Semester II.
 - Biostatistics and Basic Epidemiology, Phase I (Epidemiology part)
 - Community Medicine Course Coordinator [Starting from Feb. 2019]
 - Epidemiology I(MPH Program)
- Dr. Ali Ziyab

- Dr. Ali Buabbas
- Computers in Medicine (phase 1, compulsory module)
 - CM group supervision
 - Public health informatics MPH students
 - Telemedicine and Mobile Applications (phase 2, elective module)
 - Public health informatics MPH students

b) Graduate Teaching

Lectures:	178.00
Workshops:	219.00
Tutorials/Seminars:	54.00
Total teaching hours given to students per year:	<u>451.00</u>

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. Co-Investigator (with Dr. Ali H. Ziyab): Maternal serum 25-hydroxyvitamin D level in relation to pregnancy and child health outcomes in Kuwait. Funded by Kuwait University Research Sector, 2016, **Akhtar, S.**
2. 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-Watayan R; Al-Ozairi E. KFAS Grant, 81,649KD, Supplemental grant to Salt Intake study). Status: Funded, ongoing.
3. “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-Watayan R; Al-Ozairi E.KFAS Grant, 72,835KD) Status: Funded, ongoing.
4. Kuwait Birth Cohort Study: Maternal vitamin D level in relation to neonatal infections and child health outcomes, Kuwait University, Project ID: MC01/15- 2015- Principal Investigator **Ziyab AH**. Ongoing
5. Genetics of Eczema in Kuwait Principal Investigator: **Ziyab,AH**
Co-Investigators: Yaser Ali, John W. Holloway, Wilfried Karmaus, Hongmei Zhang Co-Funding Institutes: Kuwait Foundation for the Advancement of Sciences,
Project #: P115-13MC-05, KD48,868 (~\$161,000)
Kuwait University, Project #: MC 01/16, KD13,200 (~ \$43,300)

- Current Status: Ongoing. Outcome: Four original research article have been published.
6. Maternal vitamin D level in relation to neonatal infections and child health outcomes
Principal Investigator: Abdullah Al-Taiar
Principal Investigator: **Ziyab, AH**, Majeda Hammoud, Saeed Akhtar, Reem Al-Sabah.
Funding Institute: Kuwait University, Project #: MC 01/15, KD70,490 (~ \$231,800)
Current Status: Ongoing (Apr. 2017 – Mar. 2021).
 7. 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).
 8. 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)
 9. 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).
 10. **Buabbas AJ**, Al-Mass MA, Al-Tawari BA, Buabbas MB The detrimental impacts of smart technology device overuse among school students in Kuwait: A cross-sectional survey, BMC Paediatrics.

Unfunded Research Projects

1. Almajdi A, Alobaidan S, Ibrahim M, Alshatti A, Almeshri T, Alqhtani N, Alenezi G, Alebraheem Z, Alshemali B, **Akhtar S**. Prevalence and clustering of major lifestyle risk factors for non-communicable diseases among adolescents. 2019. (Phase III CM Project-R1)
2. AlRashed M, Alrushaid S, Bahbahani B, Abbas G, Khamissi F, Al-Belushi S, Alqarbah M, AlSharekh N, Alkhatlan S, **Akhtar S**. Prevalence and Factors Associated with Medical Trust in Healthcare Among Public Sector Employees in Kuwait. 2019. (Phase III CM Project-R2)
3. Elgouhary HM, **Akhtar S**. A matched case-control study of risk factors for thyroid cancer in a Middle Eastern country 2019. (MPH Capstone project)
4. Alrowayeh HN, **Buabbas AJ**, Alshatti TA, AlSaleh FM, Abulhasan JF. Evidence-Based Physical Therapy Practice in the State of Kuwait: A Survey of Attitudes, Beliefs,

Knowledge, Skills, and Barriers. *JMIR Med Educ.* 2019;5(1):e12795. Published 2019 Jun 7. doi:10.2196/12795

5. **Buabbas AJ**, Sharma P, Al-Abdulrazaq A, Shehab H. Smartphone use by government dermatology practitioners in Kuwait: a self-reported questionnaire based cross-sectional study. *BMC Med Inform Decis Mak.* 2019;19(1):155. Published 2019 Aug 5. doi:10.1186/s12911-019-0883-z
6. **Buabbas AJ**, Aldousari S, Shehab AA. An exploratory study of public' awareness about robotics-assisted surgery in Kuwait. *BMC Med Inform Decis Mak.* 2020;20(1):140. Published 2020 Jul 1. doi:10.1186/s12911-020-01167-1
7. Aldousari SA, **Buabbas AJ**, Yaiesh SM, Alyousef RJ, Alenezi AN. Multiple perceptions of robotic-assisted surgery among surgeons and patients: a cross-sectional study [published online ahead of print, 2020 Aug 10]. *J Robot Surg.* 2020;10.1007/s11701-020-01136-w. doi:10.1007/s11701-020-01136-w
8. **Buabbas AJ**, Hasan H, Buabbas MA, The Association between smart device use and psychological distress among secondary and high school students in Kuwait, *PLOS1* (Submitted)
9. **Buabbas AJ**, Hasan H, Shehab A, Parents 'attitudes towards school students' overuse of smart phones and its detrimental impacts: A qualitative study, Submitted, *JMIR Pediatrics and Parenting*

Publications

Published Articles

1. Boosalayan H, Abdualrasool M, Al-Shanfari S, Boujarwa A, Al-Mukaimi A, Alkandery O, **Akhtar S**. Exposure to environmental tobacco smoke and prevalence of asthma among adolescents in a middle eastern country. *BMC Public Health* 2020; 20:121
2. El-Muzaini H, **Akhtar S**, Alroughani R. A matched case-control study of risk factors associated with multiple sclerosis in Kuwait. *BMC Neurology* 2020; 20(1): 64.
3. **Akhtar S**, Al-Abkal J, Al-Shammari A. Childhood leukemia incidence and trends in a Middle Eastern country during 1980-2014: A population-based study. *Cancer Causes and Control* 2020; 31(3): 231-240.
4. Alroughani R, **Akhtar S**, Zeineddine M, El-Kouzi Y, El-Ayoubi NK, Ahmed SF, Behbehani R, Khoury SJ, Al-Hashel JY, Yamout BI. Risk of relapses during pregnancy among multiple sclerosis

5. Abdullah A., Alkandari A, **Longenecker JC**, Devarajan S, Alkhatib A, Al-Wotayan R, Al-Duwairi Q, Tuomilehto, J. Glycemic control in Kuwaiti diabetes patients treated with glucose-lowering medication. *Primary Care Diabetes*. 2020 Jan; ePub ahead of print: <https://doi.org/10.1016/j.pcd.2019.12.001>.
6. Weiderpass E, Botteri E, **Longenecker JC**, Alkandari A, Al-Wotayan R, Al-Duwairi Q, Tuomilehto J. The prevalence of overweight and obesity in an adult Kuwaiti population in 2014. *Frontiers in Endocrinology (Lausanne)*. 2019 Jul; 10(449):1-9.
7. AlKhabbaz, M., Al-Taiar, A., Saeed, M., Al-Sabah, R., & **Albatineh, A. N.** (2020). Predictors of Acne Vulgaris among Adolescents in Kuwait. *Medical Principles and Practice*, 29(4), 310-317.
8. Almazeedi, S., El-Abd, R., Al-Khamis, A., **Albatineh, A. N.**, & Al-Sabah, S. (2020). Role of bariatric surgery in reducing the risk of colorectal cancer: a meta-analysis. *British Journal of Surgery*, 107(4), 348-354.
9. **Albatineh, A. N.**, Alroughani, R., & Al-Temaimi, R. (2020). Predictors of Multiple Sclerosis Severity Score among Multiple Sclerosis Patients. *International Journal of MS Care*, 0000-0000.
10. Sarikaya, I., **Albatineh, A. N.**, & Sarikaya, A. (2020). Revisiting Weight-Normalized SUV and Lean-Body-Mass–Normalized SUV in PET Studies. *Journal of Nuclear Medicine Technology*, 48(2), 163-167.
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32. **Buabbas AJ**, Al-Mass MA, Al-Tawari BA, Buabbas MB The detrimental impacts of smart technology device overuse among school students in Kuwait: A cross-sectional survey, *BMC Pediatrics* (Submitted)

33. **Buabbas AJ**, Hasan H, Buabbas MA, The Association between smart device use and psychological distress among secondary and high school students in Kuwait, PLOS1 (Submitted)
34. **Buabbas AJ**, Hasan H, Shehab A, Parents 'attitudes towards school students' overuse of smart phones and its detrimental impacts: A qualitative study, Submitted, JMIR Pediatrics and Parenting

Book Chapter

Poster Presentations

1. **Akhtar S**. Childhood leukemias incidence and trend in a middle eastern country during 1980-2014: A population-based study. 51st Annual Meeting of Society of Epidemiologic Research-USA, 18-21 June 2019. Minneapolis, Minnesota, Maryland, USA. (Poster)
2. Al-Taiar A, Shaban L, Rahman A, **Al-Sabah R**, Mojimini O: Anemia and its Associated Factors among Adolescents in Kuwait. 11th Annual Consortium of Universities for Global Health Conference; April 18-20, 2020; Washington, DC.
3. Al-Taiar A, **Al-Sabah R**, Rahman A, Shaban L, Al-Harbi A, Mojimini O: Season of Birth and Sugary Beverages are Predictors of Cognitive Function in Adolescents. 11th Annual Consortium of Universities for Global Health Conference; April 18-20, 2020; Washington, DC.
4. Rahman A, Al-Taiar A, Shaban L, **Al-Sabah R**, Al-Harbi A, Mojimini O: Is vitamin D deficiency real or an artefact of the methods used for measuring vitamin D? Presented at the Canadian Nutrition Society, Niagara Falls, Ontario Canada, May 2-4, 2019.
5. Al-Serri A, Al-Temaimi R, Abdur Rahman, Al-Taiar A, Shaban L, **Al-Sabah R**: An association between the common FTO gene polymorphism and obesity in Kuwaiti children: A cross-sectional study. 24th Health Sciences Center Poster Conference, Kuwait University. March, 2019.
6. Jallad R, Rao MS, Al-Taiar A, Shaban L, **Al-Sabah R**, Rahman A: Prevalence of microminerals deficiencies among adolescent school children in Kuwait. 24th Health Sciences Center Poster Conference, Kuwait University. March, 2019.

OTHER CONTRIBUTIONS

a) Participation in Ministry/Government activities

Longenecker, J

- Longenecker J. Secondment to the Kuwait Ministry of Health, Central Department of Primary Healthcare.
- Longenecker J. Public Health Advisory Group for COVID-19, Kuwait Ministry of Health.

Bouhaimed, M.

- Expert member: International Bioethics Committee (IBC), UNESCO.
- Member in the Advisory Committee of the Higher Council of Environment in 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).

Ziyab, A.H.

- Member, National Elderly Health Survey Committee, Ministry of Health, Kuwait, Apr. 2018 – Present.

b) Offices held in Professional Organizations

Akhtar, S.

- Member, International Epidemiologic Association.
- Member, Society of Epidemiologic Research (USA).
- Member, Asian-African Society of Mycobacteriology.

Longenecker, J.

- American Public Health Association.
- Society for Epidemiologic Research.

- American Society of Nephrology.
- 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 Vitreoretinal Society
- Member, Kuwait Ophthalmology Society
- Member, Saudi Society of Ophthalmology
- Member, Kuwait Medical Association
- Member, American Academy of Ophthalmology
- Founding Member, Kuwait Child Rights' Society
- Member, Association of Women Surgeons
- 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

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, Paediatric Psychology, APA Division 54.

Ziyab, A.H.

- Member, Society for Epidemiologic Research
- Member, International Epidemiological Association

Buabbas, A.

- Ex-President of the Kuwaiti Health Informatics Association (KHIA), which provides a forum for consumers, providers, and developers of healthcare services in Kuwait and the region to connect, collaborate and cooperate. KHIA envisions transforming healthcare through evidence-based scientific enquiry, scholarly education, and the practice of informatics.

c) Advisory services for professional journals and grant proposal reviews

Akhtar, S.

- Member, Editorial Board, Global Journal of Medicine and Public Health
- Ad-hoc Reviewer, Public Health
- Ad-hoc Reviewer, International Journal of Infectious Diseases
- Ad-hoc Reviewer, BMC Public Health
- Ad-hoc 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, Psychometric 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 Paediatrics
- Reviewer, Cogent Medicine

Bouhaimed M.

- Reviewer, Saudi Medical Journal
- Reviewer, McMaster Online Rating of Evidence
- Reviewer, Malaysian Journal of Medical Sciences
- Reviewer, Journal of Clinical Optometry
- Editorial Board Member, Society of Clinical Ophthalmology

Al-Sabah, R

- Reviewer, BMC-Paeditrics

Ziyab, AH.

- Reviewer, Frontiers in Endocrinology
- Reviewer, World Allergy Organization Journal
- Reviewer, BMC Pulmonary Medicine
- Reviewer, The Journal of Paediatrics
- Reviewer, Clinical & Experimental Allergy
- Reviewer, Scientific Reports
- Reviewer, International Journal of Obesity
- Reviewer, Medical Principles and Practice
- Reviewer, Journal of the European Academy of Dermatology and Venereology
- Reviewer, Plos One
- Reviewer, Journal of Asthma

d) Active participation in professional conferences

51st Annual Meeting of Society for Epidemiologic Research-USA, Minneapolis, Minnesota, Maryland, USA, 18-21, June 2019, **Akhtar S.**

- Majis 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.

- Chairman, Departmental Research Committee
- Chairman, Departmental Appointments & Contract Renewal Committee, Academic Staff
- Chairperson, Departmental Recruitment and Promotion of Technical and Support Staff Committee
- Member, Faculty of Medicine Self-Evaluation Committee
- Member, Promotion Review Committee, Faculty of Pharmacy,
- Member, Departmental Examinations Committee, Community Medicine & Ethics
- Member, Departmental Examinations Committee, Biostatistics and Basic Epidemiology
- Member, Departmental Electives Committee
- Member, Respiratory System Phase II Committee
- Member, Postgraduate Student Grievance Committee, FOM
- Member, Kuwait Medical Licensing Examination Committee

Longenecker, J.

- Member, HSC Ethics Committee for Undergraduate Student Research
- Member, Cardiovascular System Phase II Committee
- Member, Gastrointestinal System Phase II Committee
- Member, Community Medicine Examination Committee
- Member, BBE Examination Committee
- Member, Recruitment and Promotion of Technical and Support Staff Committee

Albatineh, A.N.

- Member, Scholarship committee
- Chairperson, Curriculum and Examination committee
- Member, Departmental MPH committee
- Member, examination committee, community medicine course (Phase III)

Bouhaimed, M.

- Member, Departmental Recruitment and Promotion of Technical and Support Staff 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.

- Coordinator, Departmental Master of Child Life (MCL) Program Committee
- Member, FOM/FSS Joint Committee
- Member, Curriculum/Examination Committee
- Member Phase II Examination Committee
- Member, Scholarship Committee

Ziyab, A.H

- *Acting Chairman department of Community Medicine*
- Chairperson, Scholarship Committee
- Member, Examination Committee, Phase II – Year 3 & 4
- Member, Departmental Curriculum Examination Committee
- Member, Departmental MPH committee
- Member, examination committee, community medicine course (Phase III)

Buabbas, A

- Chairman of Artificial Intelligence and Innovative Medical Applications Committee
- Member, International Accreditation of Medical Education
- Member, Faculty Safety Committee
- Examination Committee (Phase 1)

g) Special contributions to FOM and HSC administration

Longenecker, J.

- Vice-Dean, Academic, for the 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).

h) Awards

CONCLUSION

During the past year the Department has made important contributions to the Faculty teaching program. Overall, Department contributed about 1116.25 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

CLINICAL TUTORS LIST 2019 – 2020

MUBARAK AL-KABEER HOSPITAL **Total 39**

1	Dr. Majda A. Samad	Consultant, Chairperson, Dept. of Medicine
2	Dr. Medhat Mokthar	Consultant
3	Dr. Mohammed Qurtom	Consultant
4	Dr. Moudhi Al- Mutairi	Consultant
5	Dr. Wafa A. Wahab Rashid	Consultant
6	Dr. Abdulraouf Al-Shayeb	Consultant
7	Dr. Abdulaziz Taleb Muquim	Consultant
8	Dr. Waleed Abdulla Al-Dahi	Consultant
9	Dr. Ahmed Al Fadhli	Consultant
10	Dr. Ibrahim Lasheen	Consultant
11	Dr. Shaikha Aba Al-Khail	Consultant
12	Dr. Majid Yousef Zaki	Consultant
13	Dr. Abdulmohsen Al- Shammeri	Consultant
14	Dr. Khulood Al Asfoor	Consultant- Phase II
15	Dr. Tanheed Al-Hajeri	Consultant
16	Dr. Hisham Sa'ad Ahmed	Consultant- Phase II
17	Dr. Medhat Mekhaeel	Consultant
18	Dr. Leena Kamal Al-Khalid	Consultant- Phase II
19	Dr. Aqeel Abdullah Muhanna Salam	Consultant- Phase II
20	Dr. Suha Mohammed	Consultant
21	Dr. Sana Nader Sawan	Consultant- Phase II
22	Dr. Amr Abd Al Moneim	Consultant- Phase II
23	Dr. Sundus Al Duaij	Consultant- Phase II
24	Dr. Amro Al-sayed Abu-Kora	Consultant - Phase II
25	Dr. Hoda Al- Sahaf	Consultant
26	Dr. Abdelaziz Al- Adwani	Senior Specialist- Phase II
27	Dr. Heba Al- Hajeri	Senior Specialist

28	Dr. Yousef Behbehani	Senior Specialist
29	Dr. Ahmed Al- Ansari	Senior Registrar

Payment to be made for 1st semester only (1/9/2019 to 31/1/2020)

30	Dr. Ibtiha Hakam Al-Jama'n	Consultant
31	Dr. Ali Al Muhaini	Consultant
32	Dr. Ahmed Al- Qallaf	Consultant
33	Dr. Eman Abdulhadi Boalayan	Senior Specialist- Phase II
34	Dr. Alia Khalaf Ibrahim	Senior Specialist
35	Dr. Mansour Ebrahim AlShammari	Specialist- Phase II
36	Dr. Marwa Al Qudhaibi	Consultant
37	Dr. Thamer Al- Eissa	Consultant
38	Dr. Darar Rodhan	Senior Specialist

Payment to be made for 2nd semester only (1/2/2020 to 30/6/2020)

39	Dr. Mohammad Al- Jumaa	Senior Specialist
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AMIRI HOSPITAL Total 27

40	Dr. Raja Dashti	Consultant, Chairperson, Dept. of Medicine- Phase II
41	Dr. Eisa Al- Khaledy	Consultant
42	Dr. Najat Ashour	Consultant
43	Dr. M.M. Kapoor	Consultant
44	Dr. Anil Tussu	Consultant
45	Dr. Jehan Ali Qaseem	Consultant
46	Dr. Bassam Bulbanat	Consultant- Phase II
47	Dr. Adeeba Al-Herz	Consultant- Phase II
48	Dr. Wehad Tourah	Consultant
49	Dr. Eman Haji Hassan	Consultant- Phase II
50	Dr. Mohammed Al- Jarallah	Consultant, Chairman Cardiology- Phase II
51	Dr. Alia Al- Alawi	Consultant
52	Dr. Asharf Keshk	Consultant
53	Dr. Saleh Al- Azmi	Consultant
54	Dr. Hossam Eldin Tawfik	Consultant

55	Dr. Raed Al-Roughani	Consultant
56	Dr. Khalid Al- Hassan	Consultant
57	Dr. Saad Al-Zenki	Consultant
58	Dr. Ghadeer Akbar	Senior Specialist
59	Dr. Ayesha AlFahad	Senior Specialist - Phase II
60	Dr. Nada Al Hassan	Specialist
61	Dr. Noor Al Mutairi	Specialist
62	Dr. S. Sadandan	Senior Registrar- Phase II
63	Dr. Mohammad Merza	Senior Registrar

Payment to be made for 1st semester only (1/9/2019 to 31/1/2020)

64	Dr. Abdul Karim Al- Khajah	Consultant
65	Dr. Haifa Askar	Consultant

Payment to be made for 2nd semester only (1/2/2020 to 30/6/2020)

66	Dr. Jameela Khaldi	Consultant, Phase II
67	Dr. Masooma Al- Ali	Consultant, Phase II

FARWANIYA HOSPITAL Total 12

68	Dr. Mohammed Hussain Al- Kandari	Consultant
69	Dr. Mokhtar Al-Bayer	Consultant
70	Dr. Saleh Al- Enezi	Consultant
71	Dr. Fahad Al- Enezi	Consultant
72	Dr. Mohammed Al- Shammeri	Consultant
73	Dr. Ahmed Al- Dousari	Consultant
74	Dr. Hamdy Ibrahim	Consultant
75	Dr. Saqer Al- Srayei	Consultant
76	Dr. Khuloud Saleh	Consultant
77	Dr. Sulaiman Al- Hashan	Consultant
78	Dr. Anas Al-Yuosef	Consultant- Phase II
79	Dr. Saad M. Al- Nesafi	Senior Specialist

ADAN HOSPITAL Total 13

80	Dr. Abdullah Faras	Specialist, Chairman- Medicine Department
81	Dr. Bassam Al Helal	Consultant- Phase II
82	Dr. Mohammed Morou	Consultant
83	Dr. Mohammed Al-Sombati	Consultant
84	Dr. Salem Farhan Owaid	Consultant- Phase II
85	Dr. Sherif Ahmed	Consultant
86	Dr. Tarek Abdel Hameed	Consultant
87	Dr. Amin Ma'arafi	Consultant
88	Dr. Salehmoud Abdel Fattah	Consultant
89	Dr. Hossam Al- Ghossen	Consultant
90	Dr. Moh'd Osama	Consultant
91	Dr. Mona Al- Hindi	Consultant
92	Dr. Saleh Al- Mutairi	Senior Specialist- Phase II

SABAH HOSPITAL Total 9

93	Dr. Ghassan Baidas	Consultant, Chairman, Dept. of Medicine
94	Dr. Afaf Al- Adasani	Consultant
95	Dr. Adnan Al-Assousi	Consultant
96	Dr. Mousa Akbar	Consultant
97	Dr. Fareeda Al- Habeeb	Consultant
98	Dr. Varkey Alexander	Consultant
99	Dr. Darwish Mustafa	Consultant
100	Dr. Sherif Talaat	Consultant
101	Dr. Amer Masood	Consultant

CHEST HOSPITAL Total 7

102	Abdullah Al- Enezi	Specialist, Head - Cardiology
103	Dr. Mohammed Al-Mutairi	Consultant
104	Dr. Fawzia Al-Kandari	Consultant
105	Dr. Ali Al-Sayegh	Consultant
106	Dr. Christus Thomas	Consultant
107	Dr. Khalid Al Merri	Consultant

108	Dr. Abdul Mohammed Shukkur	Consultant
109	Dr. Derar Al- Khudair	Senior Specialist

IBN SINA HOSPITAL Total 2 per semester

Payment to be made for 1st semester only (1/9/2019 to 31/1/2020)

110	Dr. Riyadh .A. Khan	Senior Specialist, Head - Neurology
111	Dr. John Alexander	Consultant

Payment to be made for 2nd semester only (1/2/2020 to 30/6/2020)

112	Dr. Samar Farooq	Senior Specialist
113	Dr. Wala Ahmad	Senior Registrar

DERMATOLOGY- SABAH HOSPITAL Total 3 per semester

Payment to be made for 1st semester only (1/9/2019 to 31/1/2020)

114	Dr. Atlal Al- Lafi	Senior Specialist(Head- Dermatology center)
115	Dr. Qasem Al-Saleh	Consultant
116	Dr. Ibrahim Al-Aradi	Consultant

Payment to be made for 2nd semester only (1/2/2020 to 30/6/2020)

117	Dr. Meshal Al-Ghareeb	Consultant
118	Dr. Mohammad Al- Enezi	Consultant
119	Dr. Mohammad F. Al- Otaibi	Consultant

DERMATOLOGY- FARWANIYA HOSPITAL Total 1

120	Dr. Bayomy Ibrahim	Consultant
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AL-NAFISI DIALYSIS CENTRE Total 1

121	Dr. Shabir Ahmad	Consultant
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FAMILY PRACTICE SPECIALITY AND TRAINING PROGRAMME Total 16

122	Dr. Huda Suod Al-Duwaisan	Consultant& Chairperson
123	Dr. Amal Hamoud Al-Jehadli	Consultant& /undergraduate training coordinator
124	Dr. Deena Al- Dubaib	Consultant

Payment to be made for 1st semester only (1/9/2019 to 31/1/2020)

125	Dr. Iman Ibrahim Sarkhou	Consultant
126	Dr. Sanaa Al Mansour	Consultant
127	Dr. Maleka Abdul Aziz Serour	Consultant
128	Dr. Ghaida Fajhan Al- Mutairi	Consultant
129	Dr. Anwar Mohammad Bohamra	Consultant
130	Dr. Fareeda Mokaddam	Consultant

Payment to be made for 2nd semester only (1/2/2020 to 30/6/2020)

131	Dr. Huda Abdul K. Al-Abdul Jaleel	Consultant
132	Dr. Sameera Al Kandari	Consultant
133	Dr. Amal Hamoud Al-Mehza	Consultant
134	Dr. Sawsan Al- Banai	Consultant
135	Dr. Dalal Al- Hajeri	Consultant
136	Dr. Tasneem Yousef Al Jarki	Senior Specialist

PHASE 2 TUTORS – Teaching location – Faculty of Medicine (payment to be made for the complete academic year) Total 1

137	Dr. Maryam Al Fadhli	Consultant; Infectious Diseases Hospital- Phase II
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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.
Bedside Teaching	...	250 hrs.

Postgraduate Teaching -		
Lectures	...	10 hrs.

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
Genitourinary	:	Dr. Wael El Reshaid
Respiratory	:	Prof. Nasser Behbahani
Neurology	:	Dr. Suhail Al Shammeri
Musculoskeletal	:	Prof. Adel Al Awadhi
Gastroenterology	:	Prof. Iqbal Siddique

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 Behbehani	-		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

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.

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

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

- 2 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

3 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 (on Sabbatical Leave)

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

Dr. Fatima Ali

Unpublished research paper

Title: Machine Learning Reveals Deeper Insights into the Role of Anemia in the Outcome of Acute Coronary Syndrome

Prof. Mousa Khadadah

- 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)
-

Prof. Kamel El-Reshaid

Articles published for Prof/ Kamel El-Reshaid in Year 2019-2020:

1. Kamel El-Reshaid, Shaikha Al-Bader. One Year Therapy with Cyclosporine A is Useful in Prevention of Early Autoimmune Transformations in Predisposed Patients for Type I Diabetes Mellitus. Int J Med Res Prof. 2020 Jan; 6(1): 140-41.
(Cited & refereed)
 2. Kamel El-Reshaid, Shaikha Al-Bader, John P Madda. Idiopathic Interstitial Nephritis: An Autoimmune Disease with a Chameleon Presentation and High-Potential for Kidney Loss. Int J Med Res Prof. 2020 Jan; 6(1): 134-36.
(Cited & refereed)
 3. El-Reshaid K, Al-Bader S, El-Marzabani S. The beneficial effect of Paricalcitol (Zemplar) on secondary hyperparathyroidism refractory to Calcitrol (Calcijex) and Cinacalcet HCl (Mimpara) in patients on maintenance hemodialysis: A prospective and crossover study. JDDT 2020; 10: 148-151.
(Cited & refereed)
 4. El-Reshaid K. Recent trends in management of common glomerulopathy. JDDT 2020; 10: 288-292.
(Cited & refereed)
 5. El-Reshaid K, Al Bader S. Adults onset hypocalcemia due to defect in parathyroid calcium sensing receptors. IJIRMS 2020; 5: 250-251.
(Cited & refereed)
 6. El-Reshaid K, Al Bader S. Superimposed nephrotic syndrome in diabetic patients: 15 cases of mismatched clinicopathological correlation. IJIRMS 2020; 5: 252-256.
(Cited & refereed)
 7. El-Reshaid K, Al Bader S, Markova Z. Diabetes insipidus in a child disclosing localized Langerhans cell histiocytosis. JDDT 2020; 10: 213-215.
(Cited & refereed)
 8. El-Reshaid K, Al Bader S. Acute renal failure: revisited. JDDT 2020; 10: 221-224.
(Cited & refereed)
-

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**, Daa 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 . Daa 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 . Daa 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
-

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.

b. Papers published

1. Essa S, Al-Attiyah R, Siddique I, Al-Nakib W. Modulation of Cellular Immune Subsets by Pegylated Interferon- α 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. Gerotziafas, 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
-

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. Muath Alanbaei

Publications

Published full papers

1. Higher Levels of ANGPTL5 in the circulation of subjects with obesity and type 2 diabetes are associated with insulin resistance
2. Investigating the Role of Myeloperoxidase and Angiopoietin-like Protein 6 in Obesity and Diabetes
3. Acute Myocardial Infarction Secondary to Paradoxical Embolism
4. Intracoronary imaging identifies plaque rupture underlying left main thrombosis in acute myocardial infarction without angiographically evident atherosclerosis

Papers accepted for publication

1. Epidemiology of adult congenital heart disease among the general population in Kuwait
-

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 sybjects 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.
-

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

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)

Participation in Ministry/Government activities

Prof. Adnan Abal

- Consultant in Respiratory Medicine.
- President IUTLD, Middle East Region.
- Member of Scientific Committee of TB Bulletin of M.E. IUTLD.
- Head of Chest Society, Kuwait Medical Association.
- Head of Mortality and Morbidity Committee, Chest Diseases hospital.

Prof. Mohammed Zubaid

- Consultant Cardiologist - Mubarak hospital.
- Head of Cardiology division - Mubarak hospital

Prof. Kamel El-Reshaid:

- Consultant Nephrologist - Amiri Hospital
- Head of Nephrology Services - Amiri hospital
- Head of Adeliya Dialysis Centre.
- Editor of Medical Sciences - The Journal of Kuwait Medical Association.
- Chairman, Dialysis and Renal Transplantation Committee of Kuwait.
- Member of Kuwait Organ Transplantation Committee.
- Member of “International Advisory Board” of “: Kidney Focus” The official Journal of the Arab Society of Nephrology and Renal Transplantation.
- Regional Officer of Kuwait in the Arab Society of Nephrology and Renal Transplantation Organization.
- Regional officer for Kuwait in Renal Disease, Dialysis and Transplantation registry of Arab countries.

Prof. Nasser Hayat

- Consultant Cardiologist - Chest Hospital
- Committee evaluating chairman of different departments and promotion of the Faculty members.

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 - MRCPPath 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, 6th Year Clinical teaching, Chest Disease Hospital.
- Chairman 6th 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, 5th 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 5th year students in respiratory course block teaching
- Representative of the Medical department at the Respiratory course module as well as Lecturer for 3th 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 5th, 7th year and phase II students.
- Examiner for the 5th and 7th 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 2019 to date in Chest Hospital

Teaching Load: - Undergraduate & Postgraduate

First semester – 146

Second semester – 152

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: (5th year 6th year 7th 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. Ebba Al Ozairi -- [on 1 Year, Academic Leave 2019 – 2020]

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 Liaison 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

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

- Member – Faculty Library Committee.

Professor Nasser Hayat

- **Member -** Member, University President's Grievances Committee.
Participate in Committee evaluating Chairman of different departments and promotion of the faculty members.

Prof. Fuad Hassan

- Served as Chairman of the University Promotion and Appointment Committee.
- Member- Scholarship Committee.

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 – 7th 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

- 6th 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, 6th Year Examination Committee, Department of Medicine.
- Member – 7th 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 23rd Health Science Center Poster Conference
- Member of the Examination Committee – Department of Medicine, Faculty of Medicine, Kuwait University.
- Member – 7th Year Examination Committee, Department of Medicine.

Dr. Waleed M. Alazmi

- 5th Yr Chairman-Examination Committee.
- Phase III Clinical Coordinator at Al Amiri Hospital.

Dr. Jaber Al Ali:

- Member- Examination committee for the 5th Yr

Dr. Muath Alanbaei

- Member – Examination committee for the 5th & 6th Yr students

Dr. Jasem Al-Hashel

- Member- Examination committee for the 6th Yr

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 5th Yr

Dr. Ebaa Al Ozairi [On 1-year leave - 2019 /2020]

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. Fuad Hasan

- 15th Annual meeting of the European Crohn's and Colitis Organization , February 12-15th , 2020 , Vienna, Austria

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 25th 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 , 5th -10th November 2019

Dr. Suhail Al-Shammeri

- American Academic Neurology Annual Meeting-2020 (Virtual)

Dr. Ebaa Al Ozairi On 1 year Leave [2019 – 2020]

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?
- 11th Review conference /PMER – Toronto (Canada) – Feb 2020
- 14th ISPRM Conference March 4-6, 2020, Florida , USA –Poster presentation

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 (Basic Principles and Practice of Clinical Mycology, Molecular Microbiology in Clinical Practice, Emerging and Re-emerging Viral Diseases, Climate Change, Research Techniques in Microbiology, Infectious Disease and Ecology, Healthcare Associated Infections & Prevention, 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) Research Techniques in Microbiology and Viral Infections in the Fetus and neonates to 4th 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 of the Department continue to contribute significantly to the Problem-Based Learning (PBL) sessions included in different system modules.

2. Accreditation of Undergraduate Medical Education

The Department is playing a pivotal role in getting 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. Widad Al-Nakib as the Chairman of the Accreditation Unit and Prof. Abu Salim Mustafa as the overall Faculty coordinator. The other members from the Department who are contributing to accreditation process are Prof. Noura Al-Sweih, Prof. John Albert, Prof. Jamshaid Iqbal and Dr. Mona Al-Ahmad.

3. Graduate / Postgraduate Teaching

The Department currently has 3 graduate students at the MSc level, and 3 students have graduated in 2019/2020. 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, 6 students are pursuing PhD in

Medical Microbiology. Furthermore, 2 MSc candidates have been approved for admission in 2019-20.

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 10 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 Programmes

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. In addition, the following Symposia and Workshops were jointly organized through KIMS and Ministry of Health:

1. 2nd Kuwait Medical Laboratory and OB/Gyn Conference (13 – 14 March, 2019), Millennium Hotel, Kuwait.
2. KIMS sponsored Symposium on “Updates on Clinical Microbiology and Infectious Diseases 2019, April 7 - 9, 2019.

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 29 funded and 24 un-

funded projects that are being pursued by the academic staff. As in the past, the Department also excelled in research productivity by publishing 82 full-length 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 24th Annual Health Sciences Center Poster Conference (March 12 -14, 2019) by presenting 20 posters.

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. This has also impeded our recruitment process for additional positions in clinical virology, parasitology and mycology. A provision for additional space for the Department is requested as soon as possible

FACULTY

a. ACADEMIC STAFF

i. Faculty Members

Abu Salim Mustafa, BSc (Hons), MSc, PhD, MRCPath, FRCPath

Chairman, Professor, Molecular Microbiology & Immunology

Widad Al-Nakib, MA, FRSTM & H, MRCPath, FRCPath, PhD, FIDSA

Professor, Clinical Virology

Manual J. Albert, BSc, MSc, PhD, MRCPath, FRCPath, FAAM

Professor, Microbiology

Raj Raghupathy, BSc (Hons), PhD, FRCPath

Professor, Immunology

Suhail Ahmad, BSc(Hons), MSc, PhD

Professor, Molecular Microbiology and

Microbial Physiology

Eiman Mokaddas, BMSc, MB:ChB, MRCPath, FRCPath

Professor, Clinical Microbiology

Raja'a A. Al-Attiah, BMSc, MSc, PhD

Professor, Immunology

Noura Al-Sweih, BMSc, MB:ChB, MRCPPath, FRCPath

Professor, Clinical Microbiology

Jamshaid Iqbal, MB:BS, MCPS, MSc, PhD, FRCPath

Professor, Clinical and Immunoparasitology

Wafaa Jamal, BMSc, MB:BCh, MSc, DCH, MRCPPath, FRCPath,

PhD, FIDSA

Professor, Clinical Microbiology

Edet E. Udo, PhD, MASM, AIMLT

Associate Professor, Microbial Genetics and

Medical Microbiology

Wassim Chehadeh, BSc, MSc, PhD

Associate Professor, Virology

Wadha A. M. Alfouzan, MB:BS, MSc., FRCPath

Associate Professor, Clinical Microbiology

Mona S. Al Ahmad, B Med Sc; MB:BCh; ABIM; FRCPC (Canada)

Associate Professor, Clinical Immunology

Hanady A. Amoudy, BSc, MSc, PhD, DIC

Assistant Professor, Molecular Microbiology and Immunology

Sahar Essa, BSc., MSc., PhD.

Assistant Professor, Virology

Nada M. Madi, BSc., MSc., PhD.

Assistant Professor, Virology

Khalifa Albenwan, MSc. (Eco.), BMSc., MBBS, FRCPath (UK)

Assistant Professor, Clinical Microbiology

Haya Al Tawallah, B Med Sc, MB:BS, FRCPath (UK)

Assistant Professor, Clinical Virology

Joint appointments

Charles Ezeamuzie, BSc, MSc, PhD (London), MIBiol, C.Biol (UK)

Professor, Joint appointment with Pharmacology

Fuad Al-Hassan, MB:ChB, ABIM (Gastroenterology)

Professor, Joint appointment with Medicine

ii. Teaching Assistants

Sora Asfar, BSc, MSc

Maryam Al-Badran, BSc, MSc, PhD

Ola Hassan Moghnai, BSc, MSc

Noura Al-Mutairi, BSc, MSc

Tahany Al Shemary, BSc, MSc

Eiman Sarkhoo, BSc., MSc.

Mohammad Asadullah Asadzadeh, BSc, MSc, PhD

Samar Boswihi, BSc, MSc, PhD

Marwa Al Khabaaz, BSc, MSc

iii. Lab physicians - none

iv. Clinical Tutors - none

v. Visiting Professors - none

vi. M. Sc. Students

Hawraa Adel Ali Mohammad - Graduated in 2019/2020

Zahra Faisal Al Baqsami - Graduated in 2019/2020

Kawther Abdul Jalil Naser - Graduated in 2019/2020

Noura Al Shammari

Mahdi Ali Mohammad Redha

Rehab Zafer Al Ajmi

vii. Ph.D. Students

Mohammad Al Awadi

Ghayda Al Hashem

Ola Hasan Moghnai

Noura Mishary Al Mutairi

Amani H. E. Al Fadli

Horeyah A. A. Sarkhouh

b. SUPPORT STAFF

i. Research Associates/Assistants/Technicians

Anusha William Alphonsa - MPhil in Biotechnology

ii. Scientific Assistants

Fatima H. A. Galil, BSc

Fatemah Bibi Khodakhast, BSc

Tina Verghese, BSc, MSc

Leena Joseph, BSc, MSc

iii. Chief Technicians

Dina M. Abd El Khalik, BSc

Shilpa Haridas, BSc

Amani Al-Shazly, BSc

Technicians

Nahid F. Gadallah, BSc

Shiji George, BSc, Dip in Med Microbiol

Laila Abdulla Hussain, BSc

Anfal Ali Al-Adwani, BSc

Shabeera Syed Syed Rahim, BSc, MSc

Ameerah Mahdi Shtait Al Azmi, BSc, MSc

Soumya Mary Verghese, BSc, MSc

Aicha Abood Alissa, BSc

Susan Silpi Kurein, BSc, MSc

Sheikha Hamed Al Shammari, BSc

Ghayda El Refaiy, BSc, MSc, PhD

AlShaimma Ahmad A. Abdullah, BSc, MSc

Osman Musa Al Noor, BSc

iv. Secretaries

Arefa N. Nizami, B. Com

c. STAFFING CHANGES

i. New staff appointed

Academic Staff

None

Technicians

AlShaimma Ahmad A. Abdullah, BSc, MSc

Osman Musa Al Noor, BSc

ii. Promotion

Wadha A. M. Alfouzan, MB:BS, MSc., FRCPath

Associate Professor, Clinical Microbiology

Mona S. Al Ahmad, B Med Sc; MB:BCh; ABIM; FRCPC (Canada)

Associate Professor, Clinical Immunology

iii. Staff who left the Department

Academic Staff

Zia U. Khan, BV Sc, MV Sc, PhD, FRCPath, FICAI, FCCPI,

Chairman, Professor, Medical Mycology

Vincent O. Rotimi, MB:BS, MSc, PhD, MRCPPath, FRCPath, DLSHTM, FMCPPath, FWACP, FIDSA

Professor, Clinical Microbiology

Maitham A. A. Husain, B Med Sc, M.B B.Ch, FRCPC(Canada)

Assistant Professor, Clinical Immunology

Chief Technologist

None

Technicians

Nisha Alex, BSc, MSc

Research Associates/Assistants/Technicians

Harmeen Kaur, BTech 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 Academic and Student Affairs
Prof. Raja'a Al-Attiah	Vice Dean Research and Postgraduate Studies (2019)
Prof. Eiman Mokaddas	Acting Vice Dean Research and Postgraduate Studies (2020)
Prof. Widad Al-Nakib	Chairman Academic Accreditation Unit
Prof Abu Salim Mustafa	Coordinator Academic Accreditation Unit
Prof. Raj Raghupathy	Chief Editor Medical Principles and Practice
Prof. Jamshaid Iqbal	Director 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
Dr. Wadha Al-Fouzan	Chairperson Health & Safety Committee

TEACHING ACTIVITIES

Faculty of Medicine

a. Undergraduate teaching

I. Phase I (Pre Professional Biology Course)

Biology Course Coordinator: Prof. A. S. Mustafa

Courses	Hours	Tutorial/Seminar/Workshops	Practical
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 2019/20 = 240)

II. Phase II

Course	Lecture (Hours)	Tutorials (Hours)	Practical (Hours)	Learning Topics (Hours)
Foundation Block II	24	25	3	
Endocrine System	4	-	-	2
Musculoskeletal	5	1	-	1
CNS System	3	4	-	1
GI System	6	-	-	5

Infection & Immunity	42	6	-	-
Respiratory System	7	2	-	4
Renal & Reproductive Sys	21.5	7.5	-	
Blood & Lymph	4	-	-	
Cardiovascular System	2	3	-	

Phase II Course Coordinators / Representatives / Teachers/ Facilitators:

W. Al-Nakib, V. O. Rotimi, A. S. Mustafa, M. J. Albert, R. Raghupathy, R. Al Attiyah, 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 (1PBL = 3.5 hrs)/ Week

Course	Period	PBL Sessions
Blood	6 weeks	Prof. R. Raghupathy Dr. E. E. Udo Dr. W. Al Fouzan Dr. H. Amoudy Dr. H. Al Tawalah
Cardiovascular	7 weeks	Prof. M. J. Albert Dr. W. Al Fouzan Dr. H. Amoudy Dr. H. Al Tawalah
Nervous	9 weeks	Prof. Suhail Ahmad Dr. W. Chehadeh Dr. K. Al Benwan
Digestive	8 weeks	Dr. S. Essa
Renal	5 weeks	Prof. M. J. Albert Prof. W. Jamal

		Dr. E. E. Udo Dr. N. Madi
Respiratory	7 weeks	Prof. M. J. Albert Dr. M. Al Ahmad Dr. K. Al Benwan
Endocrine	7 weeks	Dr. S. Essa
Infection & Immunity	5 weeks	Prof. S. Ahmad Dr. W. Chehadeh Dr. M Al Ahmad Dr. N. Madi

Participation in PBL Sessions (Total hours) : 189 hours

II) Clinical Skills Training Sessions (1 session = 4hrs)

Clinical Bed-side Training sessions (1 session = 2 hours)*

Clinical Skills Training Sessions	
Prof. Jamshaid Iqbal	91
Dr. Wadha Al Fouzan	75
Dr. Mona Al Ahmad	54
Dr. Khalifa Al Benwan	24

Participation in Clinical Skills Sessions : 244

III) Electives Courses Offered (2 CH)

Course	Lecture	Practical
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	(Hours)	(Hours)
Climate change, Infectious disease and ecology	24	-
Healthcare associated infections and prevention		
Emerging and Reemerging Viral Diseases	14	3
Antimicrobials and Chemotherapy	20	15
Evaluation of a patient with Allergies	60	40
Viral infections in the Fetus and Neonates	6	19
Blood borne Viruses and Needle Stick Injury	4	75

Electives 5th Year Medical Student

Course	Lecture (Hours)	Practical (Hours)
Medical Microbiology Clinical (Farwaniya Hospital)		75

Participation in Electives Sessions (Total hours): 355 hours

IV) Phase III

Course	Lecture (Hours)	Tutorials (Hours)	MSD (Hours)
Respiratory	1	-	1
Musculoskeletal	1	3	4
Obs. & Gynae.		12	3

Surgery			16
CNS			1
G.I. System			2
Skin			2
Medicine			3
Rheumatology			3

a. Total Undergraduate Teaching (hours):	Phase I	524
	Phase II	649
	Phase III	
	Electives	355
	PBL	189
Clinical Skills/ Bedside Training		244
	OSCE/OSPE	63
		<hr/> 2024

b. Graduate Teaching

1. MSc

No. of courses 12 + Thesis

No. of credit hours 26 + 9 CH (Thesis)

2. PhD

No. of courses 18

No. of credit hours 36 + (Dissertation)

Course Coordinators:

A. S. Mustafa, V. O. Rotimi, M. J. Albert, R. Raghupathy, S. Ahmad, N. Al-Sweih, J. Iqbal, W. Jamal, E. E. Udo, W. Chehadeh, , H. Amoudy, W. Al Fouzan

Teachers:

W. Al-Nakib, A. S. Mustafa, V. O. Rotimi, 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:

W. Al-Nakib, V. O. Rotimi, A. S. Mustafa, R. Raghupathy, M. J. Albert, S. Ahmad, E. Mokaddas N. Al-Sweih, R. Al-Attiyah, J. Iqbal, W. Jamal, E. Udo, W. Chehadeh, H. Amoudy, W. Al-Fouzan, N. Madi

3. Pharmacy- PharmaD (1110-662 Advanced Pharmacology 3)

Teachers:

W. Alfouzan

Course	Lecture (Hours)	Tutorial/Seminar/Practical (Hours)	Thesis(CH) (Hours)
PharmaD	12	2	-

c. Postgraduate Training (KIMS)

Course	Lecture (Hours)	Tutorial/Seminar/Practical (Hours)
KIMS- Clin.	430	1361

Micro.		
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(Total No. of hours contributed per year 2349 hours)

Kuwait Board (Clinical Microbiology)

Chairman: V. O. Rotimi

Program Director: E. Mokaddas

Tutors:

V. O. Rotimi, A. S. Mustafa, W. Al-Nakib, M. J. Albert, E. Mokaddas, J. Iqbal, N. Al-Sweih, S. Ahmad, R. Attiyah, R. Raghupathy, W. Jamal, E.E. Udo, W. Chehadeh, , W. Al Fouzan, M. Al Ahmad

Kuwait Board (Virology)

Chairman: Haya Al Tawalah

Program Director: S. Al Qabandi

Tutors:

W. Chehadeh, V. O. Rotimi, J. Iqbal, A. S. Mustafa, W. Jamal, S. Essa, N. Madi, M. Hussain

Kuwait Board (Diagnostic and Investigative Immunology)

Program Director: Prof. R. Raghupathy

Tutors:

R. Al Attiyah, A. S. Mustafa, S. Ahmad, M. Al Ahmad

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	9		9
Course No.351			

(Total teaching hours to students per year 18 hours)

b. Faculty of Pharmacy

Undergraduate Teaching

Course coordinators: H. Amoudy

Course	Lecture	Tutorial/Seminar	Practical
PathoPhysiology	10		
1140-331			

Teachers: A. S. Mustafa, H. Amoudy

(Total teaching hours to students per year 10 hours)

(No. of students in 2017/18 = 50)

c. Faculty of Dentistry

Undergraduate Teaching

Course	Lecture	Tutorial/Seminar	Practical
Nosocomial infection	6		

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Teachers: V. O. Rotimi, Raja'a Al Attiyah

d. University based Graduate Programme

MSc Molecular Biology

Course coordinators: A. S. Mustafa, S. Ahmad

Teachers:

A. S. Mustafa, S. Ahmad, R. Raghupathy, J. Iqbal, W. Chehadeh,
H. Amoudy,

e. 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

f. Faculty based Molecular Biology Course

Teachers:

A. S. Mustafa, S. Ahmad

g. Faculty based Basic Immunology Course

Coordinator: R. Raghupathy

Teachers: R. Raghupathy, R. Al-Attiyah

RESEARCH PROJECTS

Funded

1. Isolation and characterization of emerging and uncommon yeast pathogens from clinical specimens in Kuwait.

MI 01/15

Completed

Prof. Zia U. Khan (Principal Investigator)

Prof. Suhail Ahmad, Prof. Noura Al Sweih (Co-investigator)

2. Detection of viruses causing gastroenteritis using metagenomics approach.

Completed

Prof. Widad Al-Nakib (Principal Investigator)

Dr. Nada Madi (Co investigator)

Hawraa Adel Mohammad (Co-Researcher)) (MSc Student)

3. A Comparative study of polymerase chain reaction-based molecular methods for identification and typing of *Acinetobacter baumannii* isolates

YM07/16

Completed

Prof. Abu Salim Mustafa (Principal investigator)

Kawther A. Darweesh (Co-Researcher) (MSc Student)

4. Vitamin D binding protein gene polymorphisms in Kuwaiti multiple sclerosis patients and healthy subjects

MM02/17

Completed

Dr. Suhail Al-Shammri (Principal investigator)

Prof. AS Mustafa (Co-investigator)

5. Immune response to major antigenic proteins of *Mycobacterium tuberculosis*-specific regions and their role in immunomodulation of asthma in mice

CB17-63MM-03

Completed

Prof. Abu Salim Mustafa (Principal investigator)

Dr. Ahmad El-Hashim and Dr. Hanady A Amoudy (Co-investigators)

6. The prevalence of multidrug resistance *Acinetobacter baumannii* among neonates at Farwaniya hospital in Kuwait.

YM09/19

Ongoing

Dr. Wadha Al-Fouzan (Principal investigator)

Prof. Abu Salim Mustafa (Co-investigator)

Rehab Al Ajmi (Co-researcher) (MSc student)

7. Evaluation of the major outer membrane protein (MOMP (PorA) of *Campylobacter jejuni* as a vaccine in an adult mouse diarrhoea model
MI03/13

Completed

Prof. M. J. Albert (Principal Investigator)

Prof. R. Raghupathy, Prof. I. Khan (Co-investigators)

8. A study of molecular epidemiology of *Acinetobacter baumannii* in the intensive care unit of a Kuwait teaching hospital.

YM03/15

Completed

Prof. M. J. Albert (Principal Investigator)

Prof. V. O. Rotimi (Co-investigator)

Ghayda Al Hashem (Co-Researcher) (PhD student)

9. The Whole genome molecular epidemiology of *Acinetobacter baumannii* colonizing the gut of patients in an adult intensive care unit (ICU) of a Kuwaiti teaching hospital.

PR17-13MI-03 (Project: KFAS)

(May 2019-April 2020)

Ongoing

Prof. MJ Albert (Principal Investigator)

Seemann T, Schultz M, Rotimi VO & Al Hashem G (Co-investigators)

10. Occurrence of resistance to fluoroquinolones and second-line injectable agents among multidrug-resistant *Mycobacterium tuberculosis* isolates in Kuwait.

MI01/18

Ongoing

Prof. Suhail Ahmad (Principal Investigator)

Prof. Eiman Mokaddas (Co-investigator)

11. Molecular basis of antifungal drug resistance in clinical *Candida glabrata* isolates in Kuwait

YM08/17

Completed

Prof. Suhail Ahmad (Principal Investigator)

Prof. Zia U. Khan (Co-investigator)

Zahra Al Baqsami (Co-Researcher) (MSc student)

12. Molecular detection, characterization and epidemiology of drug-susceptible and drug-resistant *Mycobacterium tuberculosis* isolates in Kuwait.

YM 08/14

Ongoing

Prof. Suhail Ahmad (Principal Investigator)

Prof. Eiman Mokaddas (Co- investigator)

Noura Al Mutairi (Co-Researcher) (PhD student)

13. Equipment for Genomics, Proteomics and Cellomics Studies Research Unit at the Health Science Centre.

GM01/15

Ongoing

Prof. R. Al-Attiyah (Principal Investigator)

Prof. W. Shuaib, Prof. A. Dashti, Prof. Y. Luqmani (Co- investigators)

General Facilities Project

14. The Research Unit for Genomics, Proteomics and Cellomics Sciences (OMICS)

SRUL02/13

Ongoing

Prof. R. Al-Attiyah (Principal Investigator)

Prof. W. Shuaib, Prof. Y. Luqmani (Co- investigator)

General Facilities Project

15. Immunophenotyping and antiviral gene expression of innate immune response during SARS-CoV-2 infection

Funding Agency: Kuwait Foundation for the Advancement of Sciences

Ongoing

Prof. Rajaa Al Attiyah (Principal Investigator)

Dr Wassim Chehadeh, Prof Abu Salim Mustafa, Dr Meshal Beidas, Dr Hussain Safar (Co-investigators)

16. The prevalence and molecular characterization of Carbapenem resistance in Enterobacteriaceae from healthy community population of Kuwait

YM07/15

Ongoing

Prof. Noura Al Sweih (Principal Investigator)

Prof. Vincent O. Rotimi (Co-investigator)

Ms. Ola Hasan Moghnai (Co-Researcher) (PhD student)

17. The Underworld's Project: A smart Sewage Infrastructure for Kuwait.

Prevalence of drug-resistant enteric bacteria and drug-resistant genes in sewage

in Kuwait.

P315-75ev-01 (Project: KFAS & KISR)

Ongoing

Prof. Noura Al Sweih (Principal Investigator)

Prof. M. J. Albert (Co-investigator)

18. Determining prevalence and associated risk factors of *Taenia solium* infection and cysticercosis in Kuwait

YM 06/14

Ongoing

Prof. J. Iqbal (Principal Investigator)

Prof. Suhail Ahmad (Co-investigator)

Mr. Mohammad Al Alawadhi (Co-Researcher) (PhD student)

19. Seroprevalence and subtyping of *Toxoplasma gondii* infection in pregnant women in Kuwait.

YM 14/17

Ongoing

Prof. J. Iqbal (Principal Investigator)

Ms. Nourah Al-Shammari (Co-Researcher) (MSc student)

20. Evaluation of CODEHOP-mediate PCR in HIV-1 genotyping and drug resistance testing

YM01/19

Ongoing

Dr. W. Chehadeh (Principal Investigator)

Ms. Horeakh A Sarkhouh (Co-Researcher) (PhD student)

21. Prevalence of SARS-CoV-2 among migrant workers in Kuwait
Ongoing
Funding Agency: Ministry of Health
Dr. W. Al-Ali (Principal Investigator)
Dr H Bastaki, Dr J Longenecker, Dr S Aljunid, Dr M AlSeidan, Dr W Chehadeh, Dr H Vainio (Co-investigators)
22. A study of fecal carriage, epidemiology and molecular characterization
of carbapenem-resistant Enterobacteraceae among patients in the intensive
care unit of the teaching hospitals in Kuwait.
YM 07/17
Ongoing
Prof. Wafaa Jamal (Principle Investigator)
Prof. V. O. Rotimi (Co-investigator)
Amani Al-Fadhli (Co-Researcher) (PhD student)
23. A study of the antibiotic susceptibility and prevalence of enterotoxigenic
extra-intestinal *Bacteroides fragilis* and genes mediating carbapenem
resistance among a 10-year collection of isolates in Kuwait
Project No. MI 01/17
Completed
Prof. Wafaa Jamal (Principle Investigator)
Prof. V. O. Rotimi (Co-investigator)
24. Evaluation of Novel Oxazolidinones as potential antimicrobial agents.
Project No. PC01/09
Ongoing

Prof. O. A. Philips (Principal Investigator)

Dr. E. E. Udo (Co-Investigator)

25. Molecular characterization of methicillin-susceptible *Staphylococcus aureus* (MRSA) in Kuwait hospitals.

PR17-13MI-02

(Project: KFAS)

Ongoing

Dr. Edet E. Udo (Principal Investigator)

Dr. Wadha AlFouzan, Dr. Samar Boswihi (Co-investigators)

26. Immunophenotyping of selected peripheral blood cells in response to infection with the major HCV genotypes before, during and after treatment.

MI 02/13

Completed

Dr. Sahar Essa (Principal Investigator)

Prof. Rajaa' Al-Attiyah, Dr. Iqbal Siddique, Dr. Jaber Al-Ali, Prof.

Widad Al-Nakib (Co-investigator(s))

27. The influence of neutrophils on the production of cytokines associated with different Th cell subsets in chronic HCV-infected patients.

MI 02/16

Ongoing

Dr. Sahar Essa (Principal Investigator)

Prof. Raj Raghupathy, Dr. Iqbal Siddique, Dr. Jaber Al-Ali, Prof.

Widad Al-Nakib (Co-investigators)

28. Cellular Immune responses to human Cytomegalovirus antigens in mice model

MI01/20

Ongoing

Dr. Sahar Essa (Principal investigator)

Prof. Raj Raghupathy (Co-investigator)

29. Assessment of the Immune status against measles, mumps and rubella in young Kuwaiti population: MMR Vaccine efficacy.

PR17-13MI-01
Funded – KFAS

Completed

Dr. Nada Madi (Principal Investigator)
Dr.Haya Altawalrah, Dr Wadha Alfozan, Prof. Widad Al-Nakib (Co-investigators)
Dr Ibtiha! Al-Roumi, Dr Ahlam Jeragh (Contributors)

Unfunded

1. Demonstration of Adventitious Sporulation in *Fusarium Petroliphilum* Onychomycosis

Completed

Khan Z (Principal Investigator)
Ahmad S, Alfouzan W, Joseph L, Varghese (Co-investigators)

2. First isolation of *Ascotricha chart arum* from Broncho alveolar lavage of two patients with pulmonary infections

Completed

Khan Z (Principle Investigator)
Ahmad S, Jeragh A, Alfouzan W, Al Foudri H, Hassan N, Asadzadeh M, Joseph L, Varghese S (Co-investigator)

3. Changing trends in epidemiology and antifungal susceptibility

patterns of six bloodstream *Candida* species isolates over a 12-year period in Kuwait

Completed

Khan Z (Principle Investigator)
Ahmad S, Al-Sweih N, Mokaddas E, Al-Banwan K, Alfouzan W, Al-Obaid I, Al-Obaid K, Asadzadeh M, Jeragh A, Joseph L,

Varghese S, Vayalil S, Al-Musallam O (Co-investigators)

4. Characterization of antibody epitopes of Mycobacterium tuberculosis complex specific proteins Rv2346 and Rv3619.

Completed

Prof. Abu Salim Mustafa (Principal Investigator)

5. Characterization of promiscuous epitopes for cellular immune responses in the major antigenic protein Rv3873 encoded by region of difference 1 of Mycobacterium tuberculosis

Completed

Prof. Abu Salim Mustafa (Principal Investigator)

6. Microbial contaminants in drinking water collected from different regions of Kuwait

Completed

Prof. Abu Salim Mustafa (Principal Investigator)

7. Non-typhoid Salmonella bacteremia in Kuwait

Ongoing

Prof. Albert M J (Principal Investigator)

Dr. Alfouzan W, Dr. Al Obaid K (Co-investigators)

7. Non-typhoid salmonella blood stream infection in Kuwait: clinical and microbiological characteristics

Completed

M. John Albert (Principle Investigator)

Dieter Bulach, Wadha Alfouzan, Hidemasa Izumiya, Glen Carter, Khalid Al Obaid, Fatima Alattar, Abdul Rashid Sheikh (Co-investigators)

9. Evaluation of a new molecular test for the detection of resistance markers from significant bacterial isolates In A Tertiary Hospital In Kuwait.
- Ongoing
- Prof. Eiman Mokaddas (Principal Investigator)
Dr. Aneesa Abdulla, Dr. Ahmed Behbehani, Dr. Shama Shatti
(Co-investigators)
10. In vitro and in vivo detection of chloroquine and mefloquine resistant Plasmodium falciparum infection in Kuwait.
- Ongoing
- Prof. J. Iqbal (Principal Investigator)
11. Molecular Characterization of Methicillin-Resistant Staphylococcus aureus in a Tertiary Care hospital in Kuwait.
- Completed
- Dr. Udo Edet (Principal Investigator)
Alfouzan W, Udo EE, Modhaffer A, Alosaimi A (Co-Investigators)
12. Surgical site infection following cesarean section in a general hospital in Kuwait: trends and risk factors
- Completed
- Alfouzan W (Principle Investigator)
Al Fadhli M, Abdo N, Alali W, Dhar R (Co-investigator)
13. A Rapidly Fatal Case of Lactobacillus Rhamnosus Sepsis Associated with Thyroid Storm in an Immunocompetent Patient: A Diagnostic and Management Challenge.

Completed

AlFouzan W (Principle Investigator)

Dhar R, Al-Rubai'aanm N (Co-investigators)

14. Overview of hepatitis C infection, molecular biology, and new treatment.

Completed

Rabaan AA (Principle Investigator)

Al-Ahmed SH, Bazzi AM, Alfouzan WA, Alsuliman SA, Aldrazi FA, Haque S

15. The rise of pneumonic plague in Madagascar: current plague outbreak breaks usual seasonal mould.

Completed

Rabaan AA (Principle Investigator)

Al-Ahmed SH, Alsuliman SA, Aldrazi FA, Alfouzan WA, Haque S.

(Co-investigator)

16. Prevalence and antifungal susceptibility of *Candida albicans* causing vaginal discharge among pregnant women in Lebanon.

Completed

Ghaddar N (Principle Investigator)

Anastasiadis E, Halimeh R, Ghaddar A, Dhar R, **AlFouzan W**, Yusef H, El Chaar M (Co-investigators)

17. The emerging pathogen *Candida auris*: A focus on the Middle-Eastern countries

Completed

AlFouzan W (Principle Investigator)

Dhar R, Albarrag A, Al-Abdely H (Co-investigators)

18. Cellular immune responses to Parainfluenza virus antigens
Ongoing

Dr. Sahar Essa (Principal investigator)
Prof. Raj Raghupathy (Co-investigator)

19. Prevalence and risk factor of food allergies in Kuwait
Ongoing

Mona S. Al Ahmad (Principal investigator)

20. Real-life efficacy and safety of four-year omalizumab treatment for asthma
Completed

Mona S. Al Ahmad (Principal investigator).

21. Role of nasal challenge and local eosinophilia in indirect exposure to cat in allergic rhinitis patients

Completed

Mona S. Al Ahmad (Principal investigator).

22. Human Bocavirus (HBoV) in respiratory samples from patients with respiratory diseases.

Completed

Nada Madi (Principal investigator).

23. An integrative gene expression microarray meta-analysis identifies host factors and key signatures involved in Hepatitis B Virus infection

Completed

Sayeh Ezzikouri J (Principal Investigator)

Mohcine Elmessaoudi-Idrissi; Marc P Windisch; Anass Kettani; **Haya Altawalah**; Pascal Pineau; Soumaya Benjelloun (Co-investigators)

24. Immuno-informatics-based identification of novel potential B cell and T cell epitopes to fight Zika virus infections
Completed
Ezzemani W (Principal Investigator)
Windisch MP, Kettani A, **Altawalrah H**, Nourlil J, Benjelloun S,
Ezzikouri S (Co-investigators)

PUBLICATIONS

(Only published / accepted for publication articles are included)

1. **Khan Z, Ahmad S, Al-Sweih N, Mokaddas E, Al-Banwan K, Alfouzan W**, Al-Obaid I, Al-Obaid K, Asadzadeh M, Jeragh A, Joseph L, Varghese S, Vayalil S, Al-Musallam O. Changing trends in epidemiology and antifungal susceptibility patterns of six bloodstream *Candida* species isolates over a 12-year period in Kuwait. PLoS One 2019;14: e0216250.
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- multiplex qPCR approach for direct detection of *Candida auris* and its relatives in spiked serum samples. *Future Microbiol.* 2019; 14: 33-45.
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Abstracts/Proceedings:

1. Safar HA, **Mustafa AS**, **Amoudy HA**, El-Hashem A. 2019. Immunization with *Mycobacterium tuberculosis*-specific antigen Rv3619c effectively alleviates allergic asthma in mice. Abstract no. 45 in the abstract book of 7th Kuwait International Pharmacy Conference, March 5-7, 2019, Kuwait.
2. **Mustafa AS**, Al-Shammari SN. 2019. Distribution of Vitamin D Binding Protein Subtypes in Kuwaiti Population. Abstract no. O-24 in the abstract book of 25th ISCB International Conference (ISCBC-2019), January 12 to 14, 2019, Lucknow, India.
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4. Safar HA, El-Hashim A, **Amoudy HA**, **Mustafa AS**. *Mycobacterium tuberculosis*-specific antigen Rv3619c inhibits asthma-like parameters by deviating the immune response in a murine model of asthma. Abstract no. 104 in the abstract book of 24th Health Science Centre Poster Conference, March 12-14, 2019, Kuwait University, Kuwait.
5. **Albert MJ**, Plummer E, Bulach D, Carter G. Gut microbiome of native Arab Kuwaitis. American Society for Microbiology Microbe Annual meeting, Chicago, IL, USA, June 18-22, 2020 (Conference cancelled due to COVID)
6. **Ahmad S**, Al-Mutairi N, Mokaddas EM. Detailed molecular epidemiological studies of multidrug-resistant *Mycobacterium tuberculosis* (MDR-TB) isolates identify local

- transmission of MDR-TB in Kuwait. *Int J Tuberc Lung Dis* 2019; 23 (Suppl 1): S452-S453.
7. Manaf Al Qahtani, Nermin Saeed, Amal Aljabri, Alwarith Alkharusi, Anju Nabi, Zulfa AlDees, **Mokaddas EM, Alfouzan W**, Al Jindan R, Alkatani S, Sameera Al Johani. Carriage of carbapenemase-producing organisms is highly variable in Gulf Cooperation Council Countries. 30th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), April 18-21, 2020, Paris, France.
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 9. **Moghnia O, Rotimi VO, Al-Sweih N**. High prevalence of rectal carriage of *bla* KPC mediated carbapenem resistant Enterobacteriaceae among community food handlers in Kuwait. ID Week 2019; Infectious Diseases Society of America; October 2-6, 2019. Washington, DC, USA
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 11. **Udo EE**, Boswihi SS., **AlFouzan W**, Boloko H, Musalleem W, Verghese T. Investigation of fusidic acid resistance determination in methicillin resistant *Staphylococcus aureus* obtained in Kuwait hospitals. 31st ICC / Gulf Congress of Clinical Microbiology & Infectious Diseases. GCCMID, 6-9 November 2019. Dubai, UAE.
 12. Al-Herz W, **Essa S**. Spectrum of Viral Infections Among Primary Immunodeficient Children: Report from a National Registry. *Front Immunol*. May 2019. 10:1231.
 13. **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. *Journal of Antivirals & Antiretrovirals*, Feb2020, Volume 12, Issue 1.

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-Attiyah	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. Widad Al-Nakib	Consultant, Kuwait Cancer Control Center
Prof. Eiman Mokaddas	Consultant Clinical Microbiologist, MOH Director of Laboratory Department, 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-Tawalrah	Specialist, Clinical Virology, Head of Virology Unit, Kuwait Cancer Control Center

b. Offices held in Professional organizations

Prof. W. Al Nakib

- Chairman, Faculty of Clinical Virology, KIMS (until March 2017)
- Chairman, AIDS Technical Committee, MOH
- Member, Virology Committee, MOH
- Member, AIDS National Committee, MOH

Prof. V. O. Rotimi

- Chairman, Faculty of Clinical Microbiology, KIMS
- Head of FRCPath Training (Medical Microbiology)
- Member, ECCMID Study group on Anaerobic Infections

Prof. A. S. Mustafa

- Member, American Society for Microbiology
- Member, American Association of Immunologists
- Member, International Union of Immunological Societies
- Member, European Immunology Society

- Member, European Mycobacteriology Society
- Member, Scandinavian Immunology Society
- Member, Indian Immunology Society
- Member, International Society for Infectious Diseases
- Member, American Biographical Institute
- Member, International Biographical Centre (Advisory Council)
- Member, Academy for Infection Management
- Member, New York Academy of Sciences
- Member, American Society of Immunology
- Member, National Medical Association, USA
- Member, Federation of American Societies for Experimental Biology
- Member, OMICS Group, USA
- Fellow of the Royal College of Pathologists, UK
- International Research Conference Scientific and Technical Committee

Professor M. 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. R. 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. S. 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. E. Mokaddas

- Member, European Society of Clinical Microbiology and Infectious Diseases
- Member, Infectious Disease Society of America
- Member, American Society of Microbiology
- Member, International Union against Tuberculosis and Lung Disease

Prof. W. 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. W. 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. M. 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, Omani Thoracic Society

Dr. S. 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)

c. Advisory editor services for Professional Journals

Prof. W. Al-Nakib

- Member, Editorial Board: Saudi Medical Journal
- Reviewer for following Journals:
 - Journal of Clinical Virology
 - Kuwait Medical Journal
 - Journal of Infection in Developing Countries

Prof. V. O. Rotimi

- Associate Editor, Anaerobes
- Member, International Advisory Board, Reviews in Medical Microbiology
- Regular reviewer for:
 - Journal of Medical Microbiology (JMM)
 - Journal of Chemotherapy (JC)
 - Journal of Antimicrobial Chemotherapy (JAC)
 - Anaerobes
 - Medical Principles and Practice (MPP)
 - Kuwait Medical Journal (KMJ)
 - African Journal of Clinical and Experimental Microbiology
 - Clinical Microbiology and Infection (CMI)
 - Journal of Pediatrics
 - Journal of Pediatric Infectious Disease
 - Egyptian Journal of Medical Microbiology
 - Saudi Annals of Medicine
 - Journal of Infection in the Developing Countries (JIDC)
 - International Journal of Antimicrobial Agents (IJAA)
 - Southern Medical Journal
 - Journal of Public Health and Infection
 - BMC – Infectious Disease

Prof. A. S. Mustafa

- Editorial Board Member of the following Journal
 - Recent Patents on Anti-Infective Drug Discovery- 2010 onwards
 - Mycobacterial Diseases – 2012 onwards
 - ISRN Preventive Medicine – 2012
 - World Journal of Diabetes-2010 onwards
 - ISRN Preventive Medicine

Vaccines-2012 onwards

- 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

Eastern Mediterranean Health Journal

Prof. M. 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:

International Journal of Systematic and Evolutionary Microbiology

PLOS Neglected Tropical Diseases

Journal of Clinical Microbiology

Medical Principles and Practice

Gut Pathogens

Prof. R. Raghupathy

- Editor-in-Chief, Medical Principles and Practice
- Member, Editorial Board:
 - American Journal of Reproductive Immunology
 - Frontiers in Immunology
- Referee for papers submitted to the following journals:
 - Scientific Reports
 - Frontiers in Immunology
 - International Immunopharmacology
 - American Journal of Reproductive Immunology
 - Molecular Reproduction and Development
 - Journal of Reproductive Immunology

Prof. S. 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. E. 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. R. Al Al-Attiyah

- Reviewer for:

Kuwait Medical Journal, Kuwait

FEMS Immunology & Medical Microbiology

Research Administration, Kuwait University

Prof. J. 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. E. 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

Frontiers in Public Health

European Journal of Clinical Microbiology and Infectious Diseases

Microbial Drug Resistance

Infection and Drug Resistance

Infection, Genetics and Evolution

- **Review of Research grant application**

Ad Hoc reviewer for a grant titled “The effects of mupirocin therapy on patients colonized with methicillin-resistant *Staphylococcus aureus* (MRSA)” submitted Health Research Board of Ireland.

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

- Critical Reviews in Microbiology (Informa Healthcare, England)

- Kuwait Medical Journal (Kuwait Medical Association, Kuwait)

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. 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. Nada Madi

- Journal: Infection and Drug Resistance

d. Active participation in Professional Conferences/Symposium:

Prof. A. S. Mustafa

- Faculty of Medicine Curriculum workshop, March 31– April 3, 2019, Kuwait University, Kuwait.

Moderator of the Session on Discussion with FOM Accreditation Committee

Oral Presentation:

Standard 9 of TEDPAD Self Evaluation Report

- 20th International Conference of Infectious Diseases, April 24-25, 2019, Boston, MA, USA.

Oral Presentation:

Evaluation of four different DNA targets in polymerase chain reaction for detection and genotyping of *Helicobacter pylori*.

- Participated in the KIMS sponsored International Symposium on “Update in Clinical Microbiology and Infectious Diseases, 2019”. April 7-9, 2019.

Keynote lecture:

Whole genome sequencing in Infectious Diseases

Prof. M. J. Albert

- Faculty of Medicine Curriculum Workshop, March 31– April 3 , 2019, Kuwait University, Kuwait.

Oral Presentation:

Standard 4 of TEDPAD Self Evaluation Report

- American Society for Microbiology Virtual Conference, 18-22 June 2020, Chicago, Illinois, USA,

Poster Presentation

- a. Gut microbiome of native Arab Kuwaitis.

Prof. R. Raghupathy

World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases, April 2019, Paris, France.

Poster Presentation:

- a. Circulatory pattern of cytokines, adipokines and bone markers in postmenopausal women with low BMD.

- Annual Conference of the British Society for Rheumatology, May 2019 Birmingham, UK.

Poster Presentation:

- Circulatory levels of RANKL, OPG and oxidative stress markers in postmenopausal women with normal or low BMD.
- 14th World Congress of International Society of Immunology of Reproduction; 34th Annual Conference of the Japanese Society of

Immunology of Reproduction. November 2019, Nara, Japan.

Poster Presentation:

- a. Post-menopausal cytokine profiles suggest a pro-inflammatory bias in osteoporosis.

– All India Congress of Obstetrics and Gynecology, Lucknow, India, February 2020.

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Poster Presentation

- Immunomodulation of early pregnancy loss.

– International Conference on Frailty and Sarcopenia Research, Toulouse, France, March 2020.

Poster Presentation

- Circulatory pattern of cytokines, adipokines and bone markers in postmenopausal women with low BMD.

Prof. S. Ahmad

-50th Union World Conference on Lung Health organized by the International Union Against Tuberculosis and Lung Disease (IUATLD), Oct. 30 - Nov. 2, 2019, Hyderabad, India.

Oral Presentation:

Detailed molecular epidemiological studies of multidrug-resistant Mycobacterium tuberculosis (MDR-TB) isolates identify local transmission of MDR-TB in Kuwait.

- 30th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), European Society of Clinical Microbiology and Infectious Diseases (ESCMID), April 18 - 21, 2020, held in Paris, France,

Oral Presentation:

- a. Emergence of another truly multidrug-resistant yeast pathogen, Candida kefyr, in Kuwait

Prof. E. Mokaddas

- MEDLAB, 17th Annual Laboratory Management and Medicine Conference,

organized by Cleveland Clinic, held in Dubai International Exhibition and Convention Centre, February 5 - 8, 2018, Dubai, UAE.

Oral Presentation:

Pneumocystis Infection: Seeing Beyond the Tip of the Iceberg.

- 30th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), European Society of Clinical Microbiology and Infectious Diseases (ESCMID), April 18 - 21, 2020, held in Paris, France.

Oral Presentation:

- a. Carriage of carbapenemase-producing organisms is highly variable in Gulf Cooperation Council Countries
- .DICID, 25-26 April, 2019, Dubai, UAE

Poster Presentation:

- a. New Advances in the diagnosis and management of Tuberculosis
- MSD symposium on 27th April, 2019, Marina Hotel, Kuwait.

Oral Presentation:

- a. Role of Empiric Antifungal Therapy.

Prof. R. Al-Attiah

- 23rd Health Science Centre Poster Conference, Kuwait University, March 13-15, 2018, Kuwait,.

Welcome Address : Vice Dean Research & Postgraduate Studies

Member, Organizing Committee

Prof. N. Al-Sweih

- IDWeek 2019, organized by IDSA, SHEA, HIVMA and PIDS, Convention Center, October 2-6, 2019, Washington, USA.

Poster Presentation :

- a. High prevalence of rectal carriage of *bla* KPC mediated carbapenem resistant Enterobacteriaceae among community food handlers in Kuwait.
- Attended MEDLAB, Middle East Exhibition and Congress Conference, organized in accordance with Informa's AllSecure health and safety standard, held in Dubai International Exhibition and Convention Centre,

February 3 - 6, 2020, Dubai, UAE.

Prof. J. Iqbal

- Faculty Capacity Development Workshops, Center for Medical Education, Faculty of Medicine, Kuwait University
 - a. Clinical Skill Training' for Trainer – 20th September, 2019
 - b. PBL Facilitation: steps and dynamics of PBL – 23rd September, 2019
 - c. Assessment Item Writing & Analysis – 27th September, 2019
 - d. New Curriculum' Centre for Medical Education – 6th October, 2019
 - e. Steps and Dynamics of PBL – 28th January – 2nd February, 2020
 - f. Assessment & Item Writing Strategy – Faculty of Dentistry, 11th & 18th February 2020.
- Training of Staff on MS Teams for online teaching sessions, May-June, 2019
- Training of Technical Staff on entering curriculum on MS Teams, June-July 2020.

Prof. Wafaa Jamal

- COPAN and Gulf Integrated Security Solutions Co, held in Marina Hotel, , September 11, 2019, Kuwait.

Workshop

COPN Fully automated microbiology system and Innovative solutions in pre-analytics.

- Infectious Disease Society of America ID week 2019 Conference, IDSA, SHEA, HIVMA and PIDS, held in the Washington Convention Center, October 2 - 6, 2019, Washington, USA.

Poster presentation:

- a. Multicenter study of the prevalence of rectal colonization by carbapenem - resistant Enterobacteriaceae in patients admitted to the intensive care units of 7 major hospitals in Kuwait.
- Antimicrobial resistance from a hospital based perspective. Advisory Board meeting
organized by Pfizer, Radisson Blu Hotel, October 25, 2019, Kuwait.

Oral Presentation:

“Infections of MDR Gram negative organisms: Challenges and future prospects”

- Scientific meeting organized by Pfizer, Four Seasons Hotel, November 16, 2019, Kuwait.

Oral Presentation:

Management of multi drug resistance organisms from an ICU prospective.

- MEDLAB, 19th Annual Laboratory Management and Medicine Conference, organized by Cleveland Clinic, held in Dubai International Exhibition and Convention Centre, February 3 - 6, 2020, Dubai, UAE.
- 30th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), European Society of Clinical Microbiology and Infectious Diseases (ESCMID), held in IFEMA, Feria de Madrid Convention Center, April 18 – 21, 2020, Paris, France.

Poster presentation:

- a. Whole genome sequence analysis of *Klebsiella pneumoniae* isolates belonging to sequence type 231 harboring rapidly disseminated *bla*_{OXA-232} located on colkp3 plasmid in Kuwait.

Dr. Edet E Udo

- 31st ICC / 4th Gulf Congress of Clinical Microbiology & Infectious Diseases (GCCMID), held in Dubai, UAE, November 6 - 9, 2019.

Poster presentation:

- a. Investigation of fusidic acid resistance determination in methicillin-resistant *Staphylococcus aureus* obtained in Kuwait hospitals.
- The 19th Annual Laboratory Management and Medicine Congress held at the World Trade and Exhibition Centre, Dubai, UAE, 3-6 February 2020.

Oral Presentation:

- a. Molecular methodology for susceptibility testing in Gram positive bacteria
- American Society for Microbiology Virtual conference, 22June- 22 July 2020

Oral Presentation:

- a. Characterization of Methicillin-Resistant *Staphylococcus aureus* belonging to Clonal Complex 22 (CC22-MRSA) from Patients in Kuwait Hospitals.

Dr. Wassim Chehadeh

- 25th Health Science Centre Poster Conference, Kuwait University, Kuwait, March 10-12, 2020.

Poster presentation:

- a. Increase incidence of HIV-1 subtype CRF06_cpx in Kuwait.

Dr. Hanady Amoudy

- None due to COVID-19 pandemic

Dr. Wadha Al Fouzan

- Antimicrobial resistance in Kuwait. 25th October 2019, Kuwait

Speaker:

- a. Infections of MDR Gram negative Organisms: Current Challenges and Future prospect
- 31st ICC / 4th Gulf Congress of Clinical Microbiology & Infectious Diseases (GCCMID), 6-9, November 2019, Dubai, UAE.

Speaker:

- a. Diagnosis of *Candida auris*.

Local Organizing Committee member

- Bahrain Infection prevention and Control conference 6-7 December, 2019, Manama, Bahrain.

Speaker:

- a. Role of MDR screening in ICU
- Management of complicated Skin & Soft Tissue Infections, February 7, 2020, Kuwait.

Speaker:

- a. Complicated SSTI, a focus on Gulf region
- 14th annual conference of Saudi society of medical microbiology and infectious disease (SSMMID), February 12-15, 2020. Jeddah, KSA.

Speaker:

Combating Infectious Disease, help our society community

- 30th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), European Society of Clinical Microbiology and Infectious Diseases (ESCMID), held in Paris, France, April 18 - 21, 2020.

Oral Presentation:

- a. Carriage of carbapenemase-producing organisms is highly variable in Gulf Cooperation Council Countries
- 3rd Poster Day, Farwaniya Hospital, March 4-5, 2020, Kuwait.

Scientific Committee member**Dr. Mona Al Ahmad**

- 3rd Middle East Conference on COPD and Asthma, January 2019, Kuwait.

Scientific Committee member

- European Respiratory Society meeting Sep 2019, Madrid, Spain

Invited Chairperson

- Respiratory Effectiveness Group (REG) meeting 2019, Sep.28-Oct.2, 2019, Athens, Greece

Speaker

- GAL²LEN UCARE Urticaria Conference, 6-7 Dec. 2019, Istanbul, Turkey Dec

2019

Speaker

Dr. Sahar Essa

- International Conference on Infectious and Rare Diseases, August 22-23, 2019, Amsterdam, Netherlands.

Poster Presentation

The influence of neutrophils on the production of cytokines in chronically infected HCV patients. **Won the Best Poster Award**

- Participated in the KIMS sponsored International Symposium on “Update in Clinical Microbiology and Infectious Diseases, 2019”. April 7-9, 2019.
- Attended 1st International-6th GCC Conference on “Occupational Health & Safety”, held in Sheraton, Kuwait, from 15-17 Dec, 2019.

Dr. Nada Madi

- 10th International Virology Congress and Expo. July 02-04, 2018, Vienna Austria.

Oral Presentation

Metagenomic analysis of viral diversity in respiratory Samples from patients with respiratory tract infections in Kuwait

- 24th Health Sciences Center Poster Conference, Kuwait University, Kuwait, March 12-14, 2019.

Poster presentation:

Analysis of Genetic Variability of Respiratory Syncytial Virus Group A and B in Kuwait

- 1st Medical Laboratory and Public Health Conference. 20 - 22, March 2018. Kuwait

Dr. Haya Al Tawalrah

- 31st ICC / 4th Gulf Congress of Clinical Microbiology & Infectious Diseases

(GCCMID), 6-9, November 2019, Dubai, UAE.

Speaker:

- a. Common Viral Infections in Children.

Workshop:

Outbreak Management and control of Hemorrhagic Fever (Ebola): Real- Life Experience.

- 15th Annual Patient Safety Congress. 2019, October, Dubai, UAE.

Speaker:

- b. The current outbreak of measles.

- Kuwait Medical Association. 2019, November, Kuwait.

Speaker:

- a. Needle stick injury management. Integration with medical specialities
- 14th annual conference of Saudi society of medical microbiology and infectious disease (SSMMID), February 12-15, 2020. Jeddah, KSA.

Speaker:

- a. Diagnosis of viral CNS infection.

e. Service as external examiners outside Kuwait

Prof. V. O. Rotimi

- External examiner, MLS University, Khartoum, Sudan
- External examiner, Sudan Medical Postgraduate Board, Khartoum, Sudan
- External examiner, Board of Pathology, Riyadh, Saudi Arabia
- External Examiner, National PG Medical College, Nigeria
- Reviewer of application for promotion to full and Associate Professors:
 - i. Arabian Gulf University, College of Medicine & Medical Sciences, Manama, Bahrain.
 - ii King Saud University, Riyadh, Saudi Arabia
 - iii. College of Medicine, University of Lagos, Nigeria
 - iv. Ghana University Medical School, Accra, Ghana.

f. Contribution to Committees outside the Faculty

Prof. W. Al-Nakib

Important Membership of Committees at University Level

- Member, University Higher Committee on H1N1, 2009- to date

Membership of Committees at Ministry of Health and Hospital Level

- Member, Ministry of Health Higher Committee on Infection
- Member, Ministry of Health National Committee on MERS-coronavirus.
- Member, Ministry of Health Permanent Technical Consultant Committee on Pre-Marital Testing
- Member, AIDS National committee, Ministry of Health
- Chairman, AIDS Technical Committee, Ministry of Health

Prof. V. O. Rotimi

- Head of Clinical Microbiology Unit, Mubarak Al-Kabeer Hospital (until Dec.2017)
- Chairman, Faculty of Clinical Microbiology Board, KIMS
- Head of FRCPath Training Program
- Member, Laboratory Council, Mubarak Hospital (until Dec.2017)
- Member, Dean's Promotion Review Committee, Faculty of Dentistry, HSC, Kuwait University.
- Member, Dean's Promotion Review Committees, Faculty of Pharmacy, HSC, Kuwait University.
- Member, Faculty Promotion Committees, Faculty of Allied Health Sciences, HSC, Kuwait University, 2015-to date
- Member, Faculty Promotion Committee, Faculty of Dentistry, HSC, Kuwait University.

Prof. A. S. Mustafa

- Consultant Immunologist, Ministry of Public Health
- Chairman of Promotion Review Committee for a candidate in the Faculty of Dentistry for promotion to full professor
- Member of Promotion Review Committee for promotion of an applicant from Assistant to Associate Professor in the Faculty of Dentistry, Kuwait University
- Adhoc Reviewer of research projects and progress reports submitted to the Research Sector, Kuwait University

- 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
- Convener of MSc Thesis Examination Committee for a student of Joint MSc
Program in Molecular Biology
- Member of MSc Thesis Examination Committee for a student of 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

Prof. M. J. Albert

- Consultant Enteric Microbiology, Mubarak Al-Kabeer Hospital, MOH
- Member, Health Sciences Center Library Committee

Prof. R. Raghupathy

- Consultant Immunologist, Ministry of Public Health
- Member, Clinical Immunology and Allergy Fellowship Program, Kuwait
Institute of Medical Specialization (KIMS)

Prof. S. Ahmad

- Consultant, Molecular Microbiologist, Ministry of Health
- Member, Health Sciences Center Ethical Committee
- Member, Health Sciences Center Phase I Examination Committee
- Member, Health Sciences Center Library Committee

Prof. E. Mokaddas

- Member, National Kuwait Committee for Vaccines, Ministry of Health
- Member, Ministry National Committee for the Control of Tuberculosis
- Member, Consultant Committee for Emerging Infectious Diseases
- Program Director, Faculty of Clinical Microbiology, KIMS
- Leader, Accreditation Committee Ibn Sina Hospital
- Coordinator, Monthly Microbiology Meeting for all Microbiologists in
Kuwait

Prof. R. Al-Attiyah

- Head, Clinical Immunology Lab, Mubarak Hospital, MPH (till March 2020)
- Chairman, Committee by MOH to scrutinize Immunology orders (2018-ongoing)
- Member, Laboratory Council, Mubarak Hospital)2003- March 2020)
- Offer Clinical services to Ministry of Public Health
- Member, Board of Trustees, Jaber Al-Ahmed for Molecular Imaging Center (2013-Jan 2020)

Prof. N. Al-Sweih

- Chairperson, Infection Control Committee, Maternity Hospital
- Chairperson, Microbiology Committee, Ministry of Health
- Member, Antibiotic Policy Committee, Maternity Hospital
- Member, Premarital Counseling Committee, MOH
- Member, Ministry of Health Ethical and Research Committee
- Member, Laboratory Safety Committee, Maternity Hospital
- Member, KIMS Board of Trustees
- Member, Ministry of Health Certificates equation

Prof. J. 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 3rd & 4th Year Medical/Dental students for the Year 2014-2015
- Assessments for the 3rd & 4th 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 4th year Dental student for the Year 2015-2016

Prof. W. Jamal

- Head of Microbiology Unit, Mubarak Al Kabeer Hospital, MOH
- Chairperson, Antibiotic Policy Committee, Mubarak Hospital, MOH
- Chairperson, Laboratory Safety Committee, Mubarak Hospital, MOH
- Chairperson, Antibiotic Review Committee, Mubarak Hospital
- Chairperson, Infection Control Committee, Mubarak Hospital
- Member, Assistant Program Director and Site Coordinator, Faculty of Clinical Microbiology, KIMS
- Member, Active participant, Infection Control Directorate – Environmental Sampling, Mubarak Hospital (December 2010 till date)
- Member, Quality Control Committee, Mubarak Hospital
- Member, Laboratory Council Committee, Mubarak Hospital
- Member, Safety and Risk assessment Committee, Mubarak Hospital
- Member, National Microbiology Committee, Ministry of Health, Kuwait.

- CEPD officer, member of Examination Committee, Scientific/ Workshop Committee, KIMS Board, Faculty of Clinical Microbiology
- Member, Promotion Review Committee for promotion of an applicant from Assistant to Associate Professor in the Faculty of Dentistry, Kuwait University
- Member of Promotion Review Committee for promotion of an applicant from Assistant to Associate Professor in the Faculty of Medicine, Kuwait University

Dr. E. E. Udo

- Consultant, Quality Control Program in Microbiology
- Consultant, MRSA Reference Laboratory, Ministry of Health.
- Member, Quality Control Committee, MPH
- Member, Curriculum Committee, Faculty of Allied Health, Kuwait University

Dr. Wassim Chehadeh

- Consultant Virologist in the Virology Diagnostic Service of Mubarak Al-Kabeer Hospital, Ministry of Health, Kuwait.
- Member of COVID-19 PCR Development Team, Jaber Al Ahmad Al Sabah Hospital, Ministry of Health, Kuwait
- Member of Kuwaiti Board Postgraduate Committee (PGTC), Kuwaiti

Board of Clinical Virology Faculty of Clinical Virology, Kuwait Institute for Medical Specialization (KIMS), 2010-present

- Member of Kuwaiti Board Examination Committee, Faculty of Clinical Virology, Kuwait Institute for Medical Specialization (KIMS), 2011-present.

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
- Coordinator, Drug Approval for Allergic Asthma at Allergy Centre, MOH
- Member, Research Committee, Al Rashid Allergy Center, MOH

Dr. Sahar Essa

- Contributed in the Public awareness on COVID-19 by conducting 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. Z. U. Khan

- Chairman, Department of Microbiology (since May 2012 till Aug.2019)

- Chairman, Department Appointment and Promotion Committee for Academic Staff (2012-Aug.2019)
- Chairman, Department Budget & Instrumentation Committee (till Aug. 2019)
- Chairman, Department Scholarship Committee (till Jan. 2019)
- Chairman, Department Examination Committee (till Jan. 2019)

Prof. W. Al-Nakib

- Chairman, Academic Accreditation Unit, Faculty of Medicine, Kuwait University
- Chairman, Academic Accreditation Committee, Faculty of Medicine, Kuwait University
- Head, Virology Unit, Department of Microbiology
- Member, Department Budget & Instrumentation Committee
- Member, Department Appointment & Promotion Committee

Prof. V. O. Rotimi

- Member, Dean's Promotion Review Committees for Departments of Medicine, Nuclear Medicine and Pathology, Faculty of Medicine(till Jan. 2020)
- Chairman, Dean's appointed Departmental Promotion Review Committee, Department of Microbiology, FOM (till Jan. 2020)
- Member, Department Appointment and Promotion Committee, FOM (till Jan. 2020)
- Phase III, Department Representative (till Jan. 2020)

Prof. A. S. Mustafa

- Coordinator of Accreditation Committee of the Faculty of Medicine
- Chairman of Departmental Council, Microbiology Department.
- Chairman of Scholarship Committee, Department of Microbiology
- Chairman if Examination Committee, Department of Microbiology
- Chairman of Appointment, Contract Renewal and Promotion Committee, Department of Microbiology
- Chairman of Budget & Instrumentation Committee, Department of Microbiology
- Chairman of the Accreditation Committee, Department of Microbiology
- Chairman of the Sub-Committee on Standard 9 of the Self Evaluation Report for Accreditation of the Faculty of Medicine
- Acting Chairman of the Faculty of Medicine Academic Accreditation Unit from

October to November 2019

- Member of Graduate Program Committee (PhD), Department of Microbiology
- Coordinator of Microbiology Department for the website of Health Science Centre
- Coordinator of the Biology-1 course offered to Preprofessional students of the Health Sciences Centre
- Chief Invigilator of Biology-1 course exam of HSC
- Chairman of the Subcommittee appointed by VDR to prepare a proposal to grant credit to staff for graduate thesis supervision
- Member of Promotion Review Committee of a candidate in the Department of Physiology from Assistant to Associate Professor
- Member of Promotion Review Committee of a candidate in the Department of Pediatrics from Associate to Full Professor
- Liaison Officer between the Department of Microbiology and the Academic Accreditation Unit, Faculty of Medicine
- Member of the Committee to Review the Status of the Faculty of Medicine for Academic Accreditation
- Member of Thesis Supervisory Committee of two MSc students in Microbiology
- Convener of Thesis Examination Committee for a MSc student in Microbiology
- Member of Thesis Examination Committee of a MSc student in Microbiology
- Member of Dissertation Examination Committee of a PhD student in Medical Microbiology

Prof. M. J. Albert

- Director, Departmental Graduate Program (PhD) Committee
- Member, Departmental Promotion and Appointment Committee
for Academic Staff
- Member, Department Examination Committee
- Member, HSC Library Committee
- Member, Faculty of Medicine Promotions Committee
- Member, Faculty of Medicine Accreditation Committee
- Ad-hoc Member, Faculty of Medicine Committee for selection of Young Researcher Award & Distinguished Researcher Award
- Phase II, Department Representative, Endocrine System

Prof. R. Raghupathy

- Editor-in-Chief, Medical Principles and Practice
- Member, Scientific Advisory Committee, Faculty of Medicine
- Member, Foundation Block Examination Committee
- Member, Musculoskeletal Module Coordinating Committee
- Graduate Program (MSc) Director, Department of Microbiology
- Member, Microbiology Department Space and Safety Committee
- Phase II, Department Representative, Musculoskeletal System

Prof. S. Ahmad

- Member, Medical Research Committee
- Member, Radiation Safety Committee
- Member, Phase I and Phase II Strategic Planning Committee
- Chairman, Departmental Research Committee
- Chairman, Department Recruitment Committee for Technical and Support staff
- Member, PhD program Committee, Department of Microbiology

Prof. E. Mokaddas

- Acting Vice Dean Research and Postgraduate Studies, Faculty of Medicine
- Chairperson Graduate Program Area Committee
- Member, Dean Executive Committee, Faculty of Medicine
- Chairperson, Department Safety Committee (till Jan 2020)
- Member, Departmental Examination Committee, Phase II
- Member, Faculty Examination Committee, Phase III
- Member, Department Budget & Instrumentation Committee

Prof. R. Al-Attiah

- Vice Dean for Research and Post Graduate Studies (till Jan. 2020)
- Chairman of the Post-Graduate Area Committee (till Jan. 2020)
- Chairman, Medical Research Committee (till Jan.2020)

- Chairman of the Radiation Safety Committee, Health Sciences Centre
- Supervisor, Health Science Center, Research Core Facility (till Jan. 2020)
- Ex-Officio Member of the Dean's Executive Committee (till Jan. 2020)
- Ex-Officio Member, Faculty Council, Faculty of Medicine (till Jan. 2020)
- Ex-Officio Member, Board of Examiners, Faculty of Medicine (till Jan. 2020)
- Ex-officio Member, Curriculum and Assessment Committee, Faculty of Medicine (2013-till Jan. 2020))
- Chairman of the Animal Ethical Committee (2015- Jan. 2020)
- Chairman of the Postgraduate Students Grievance (2018- Jan. 2020)
- Chairperson, Departmental Review Committee on Curriculum
(2010 – July 2019)
- Member, Departmental Promotion and Appointment Committee
for Academic Staff (2005 – July 2019)

Prof. N. 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. J. 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. W. Jamal

- Member, Academic Portfolio Committee, Faculty of Medicine
- Member, Examination Committee, Phase II (Year 3 and 4) (2011 till date)
- Member of Phase II OSPE Committee (Year 3 and 4)
- Faculty Coordinator for Infection and Immunity module for Year 2
- Phase II, Department Representative, Infection and Immunity module
- Member, Department Safety and Space Committee

- Member, Department Curriculum Committee
- Member, Department Postgraduate Committee (MSc)

Dr. E. E. Udo

- Director, Department Graduate Program Committee (MSc.)
- Member, Instrument Committee, Faculty of Medicine
- Member, Scholarship Committee, Department of Microbiology
- Phase II, Department Representative, Foundation Block I & II

Dr. W. Chehadeh

- Member, Department Accreditation Committee
- Member, Department Curriculum Committee
- Member, Department Research Committee
- Member, Department Examination Committee
- Member, Department Scholarship Committee
- Member, Department Graduate Program Committee (PhD.)
- Phase II, Department Representative, Central Nervous System

Dr. W. Al Fouzan

- Member, Research Committee, Department of Microbiology
- Member, Department Accreditation Committee
- Chairperson, Department Safety and Space Committee
- Phase II, Department Representative, Cardio Vascular module

Dr. M. Al Ahmad

- Member, Department Examination Committee
- Assistant Professor Member of Faculty Council
- Member of Phase II Examination Committee
- Member of PBL Curriculum Review Committee

- Member of the Faculty Academic Accreditation Committee
- Departmental Representative, Renal, Reproduction & Breast module

Dr. H. Amoudy

- Member, Department Space and Safety Committee
- Member, Department Graduate Program Committee (MSc.)
- Member, Department Promotion and Recruitment Committee for Technical Staff
- Member, Department Scholarship Committee

Dr. S. Essa

- Member, Departmental Promotion and Recruitment Committee for Technical Support Staff
- Member, Departmental Graduate Program Committee (MSc.)
- Member, Departmental Scholarship Committee
- Phase II, Department Representative, Blood module

Dr. N. Madi

- Director, Center for Research Support and Conferences
- Secretary, Departmental Council (March 2015- July 2019)
- Member of Health and Safety Committee, Virology Unit
- Member, Accreditation Committee, Virology Unit, (2013- till date)
- Member in Graduate Program Committee (PhD)
- Member in Graduate Program Committee (PhD)
- Member, Department Accreditation Committee

Dr. K. Albenwan

- Member, Department Curriculum Committee
- Member, Departmental Promotion and Recruitment Committee for Technical Support Staff

- Member, Department Scholarship Committee

Dr. H. Tawalah

- Member, Department Accreditation Committee
- Member of the Faculty Academic Accreditation Committee
- Member, Department Examination Committee
- Member, Departmental Promotion and Recruitment Committee
for Technical Support Staff

h. Contribution to Committees in the University

Prof. W. Al-Nakib

- Member of the University Higher Committee on H1N1, 2009 –to date

Prof. R. Al Attiyah

- Member of the Funding Committee, Research Sector, Kuwait University (till Jan. 2020).
- Member of the Faculty Council, College of Graduate Studies, Kuwait University (till Jan. 2020).
- Member, The team working with the Vice President for Planning to follow up the execution of the University Strategic Plan in the Faculty of Medicine (2015 - till Jan. 2020))

Prof. J. 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 applicants of newly developed radiopharmaceuticals particularly utilizing hybrid imaging modalities: PET/CT, SPECT/CT, and PET/MRI.

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. An elective course 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 a general teaching including upscaling an animal SPECT/PET/CT spectrum. During the Covid19 pandemic, the department staff participated in the e-learning programs and started conducting teaching sessions, such as PBLs, using the Microsoft Teams template according to Kuwait University policies.

Objectives:

The objectives of the department in various areas are as following:

Phases II & III teaching and involvement in the coordination and being facilitators of the various courses, modules and 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).

Spend 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 the PhD programs.

Three 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, and World Health Organization.

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 roadmap for near and distant future is to have an academic clinical nuclear medicine facility 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. 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, ANZPANM
Assistant Professor, Nuclear Medicine, Physician

Dr. Shorouk F Dannoos, BSc, PhD
Assistant Professor, Radiopharmaceutical Chemist

Dr. Maryam Yousef Alqabandi, 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

Lab Physicians None

Clinical Tutors

Dr. Iman Al-Shemmeri, Consultant and Head of Unit, Adan Hospital.

Dr. Qaisar Siraj, Consultant, Farwaneya Hospital.

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 Mohammad Alfarhan

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, Lab Technologist, Veterinarian
- Mrs Fatama Alrwaih, BSc, Technologist

Biological Researcher

- Mrs. Samar Almutairi, BSc, Biological Researcher, zoology

Secretaries

-Mrs.Jehan Essam, BSC, Secretary

STAFFING CHANGES

Appointed None

Promotions None

Staff who left the departments

None

TEACHING IN THE DEPARTMENT PROGRAM**I. Faculty of Medicine****a) Undergraduate teaching**

Lectures : **26**

Tutorials/Seminars/PBL : **219**

Practical /CSL : **46**

Total teaching hours given to
Students per year : **291**

II. OTHER FACULTIES

a) Undergraduate teaching in Faculty of Allied Health Sciences

Lectures : 15+12=27 Tutorials:

Practicals :

Post graduate teaching (KIMS/MSc): 253

Clinical teaching: 1114

RESEARCH AND PUBLICATIONS

Researches:

***Funded:**

Title: Preclinical Evaluation of Various Radiopharmaceuticals for Diagnosis Purposes of Heterotopic Bone Formation

Funding: Funded

Status: On going

Name of principal investigator: Shorouk F. Dannoon

Name(s) of co-investigators: Saud Alenezi, Abdelhamid H. Elgazzar, Samar Almutairi

Title: Preclinical Nuclear Medicine and Molecular Imaging Laboratory

Funding: Funded

Status: On going

Name of principal investigator: Rajaa Alatya

Name(s) of co-investigators: Abdelhamid Elgazzar, Mehraj Sheikh, Mabayoje Oriowo, Segun Mojiminiyi

****Unfunded:**

Title: Myocardial perfusion imaging in patients with coronary artery stents

Funding: Funding application in progress

Status: Ongoing

Principal Investigator: Dr Issa Loutfi

Title: Myocardial perfusion imaging for triaging patients for coronary angiography and revascularization

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 Graves 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: Monitoring the effects of immunotherapy of cancer using nuclear medicine and molecular imaging methods

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 : On hold due to Coronavirus Pandemic (Prospective research)

Name of principal investigator: Dr. Ismet Sarikaya

Title : Assessment of malignant and benign bone lesions with Fluoride PET/CT Bone Imaging

Funding: Unfunded.

Status : Ongoing

Name of principal investigator: Dr. Ismet Sarikaya

Title : Evaluating FDG PET/CT images for infectious and inflammatory conditions.

Funding: Unfunded.

Status : Ongoing

Name of principal investigator: Dr. Ismet Sarikaya

Title : Evaluation of Neuroendocrine tumors with Novel Ga-68 DOTATOC PET/CT imaging

Funding: Unfunded.

Status : Ongoing

Name of 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. Indian Journal of Nuclear Medicine (2020)

Funding: none

Status: submitted

Name of principal investigator: Ghanem, M

Name(s) of co-investigators: Rasheed, R, Usmani, S, Alsaïd, A, Ali, R and Francis, I

Title: **MN02/19:** Can glycyrrhizic acid protect tumor cell lines and rat exposed to 7,12 dimethylbenz[a]anthracene dose?

Status: Submitted to KU research sector.

Principal Investigator: Dr. Fatma Al-Saeedi.

Title: Anti-epithelial-mesenchymal transition properties of flavonoids attributed NFB or PI3AKT signaling pathways in breast cancer.

Status: Submitted to KU research sector.

Principal Investigator: Dr. Fatma Al-Saeedi.

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}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}Tc -DTPA and nuclear medicine imaging.

Funding: Unfunded.

Status: On going.

Principal Investigator: Dr. Fatma Al-Saeedi.

Title: ^{99m}Tc Sulfur colloid and ^{99m}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}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: Impact of Obesity on Musculoskeletal Imaging Funding: unfunded

Status: Ongoing

Name of principal investigator: Saud Alenezi

Name(s) of co-investigators: Shorouk Dannoon, Naheel Alnafisi, Abdelhamid Elgazzar

Title: Investigation of a simple protocol to reduce radiation exposure from PET patients

Funding: unfunded

Status: Ongoing

Name of principal investigator: Shorouk F. Dannoon

Name(s) of co-investigators: Saud Alenezi, Naheel Alnafisi, Abdelhamid Elgazzar, Samar Almutairi

Publications:

Original Articles:

1. Alenezi S, Dannoon S, Alnafisi N, Asa'ad S, Osman M, Elgazzar A. Effect of Brown Adipose Tissue Activation on Myocardial [18F]FDG Uptake. *World Journal of Nuclear Medicine* 2020; 19: 41-46.
2. 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.
3. Sarikaya I. ⁶⁸Ga PSMA ligand as a potential alternative to ^{99m}Tc-DMSA. *J Nucl Med*, 2019;60:12N.
4. Sarikaya I, Sarikaya A, Albatineh A, Tastekin E, Atakan YS . Is there a difference in FDG PET findings of invasive ductal carcinoma of the breast with and without coexisting DCIS? *Asia Ocean J Nucl Med Biol. Asia* 2020; 8:27-35.
5. Sarikaya I, Albatineh AN, Sarikaya A. Effect of various blood glucose levels on regional FDG uptake in the brain. *Asia Ocean J Nucl Med Biol.* 2020; 8:46-53.
6. Sarikaya I, Albatineh A, Sarikaya A. Re-visiting SUV-weight and SUV-lean body mass in FDG PET studies. *J Nucl Med Technol.* Accepted for publication 2019.
7. Sarikaya I, Sarikaya A. Assessing PET parameters in oncologic ¹⁸F-FDG studies. *J Nucl Med Technol.* Accepted for publication. 2019.
8. Sarikaya I. Is there a need for pediatric PET/CT camera? *JNMT* April 2020.
9. Sarikaya I, Sarikaya A. PET/CT image artifacts caused by the arms. *J Nucl Med Technol.* Accepted May 2020.
10. Rasheed, R, Al-Kandari, F, Ghanem, M, Marafi, F, & Usmani, S. Significance of ¹⁸F-FDG PET/CT in Characterization of Equivocal Lesions in High-Risk Testicular Carcinoma in Restaging Setting. *Asian Pacific Journal of Cancer Prevention*, 21(2), 511-515 (2020).
11. The ESCRT-III Isoforms CHMP2A And CHMP2B Display Different Effects On Membranes Upon Polymerization. Maryam Alqabandi^{1*}, Nicola De Franceschi^{1*}, Nolwenn Miguët, Sourav Maity, Marta Bally, Wouter H. Roos, Winfried Weissenhorn, Patricia Bassereau, Stephanie Mangenot. *BIORXIV*doi: <https://doi.org/10.1101/756403>, September 03, 2019.
12. Human ESCRT-III polymers assemble on positively curved membranes and induce helical membrane tube formation. 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).

13. Dynamic and Sequential Protein Reconstitution on Negatively Curved Membranes by Giant Vesicles Fusion. Nicola De Franceschi*, Maryam Alqabandi*, Winfried Weissenhorn, Patricia Bassereau. Bio-protocol 9(13): e3294. DOI: 10.21769/BioProtoc.3294. Published Vol 9, Iss 13, 05 July 2019.

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:

Elgazzar AH, Alenezi S: Concise guide to Nuclear Medicine, second edition, Springer, BerlinNew York.

Awards:

Dr. Issa Loutfi received for the third time running the Ralph Blumhardt Award of the ACNM 2020.

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.**

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. Seconded as Nuclear Medicine physicist, at the department of nuclear medicine, Mubarak Al-Kabeer Hospital.
2. 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
2. Nuclear Medicine, Mubarak Al-kabeer Hospital
3. Research coordinator, Department of Nuclear Medicine, Mubarak Al-
4. Kabeer Hospital
5. Member of the staff Orientation Committee, Mubarak Al-Kabeer
6. Hospital
7. Member of the KIMS Nuclear medicine program examination committee

- Dr. Ismet Sarikaya

1. Seconded as a senior consultant to Mubarak Al-kabeer Hospital, MOH
2. Teaching at Nuclear Medicine Residency program, KIMS, MOH

- Dr. Saud Alenezi

1. Seconded as the head of nuclear medicine unit, Farwaneya Hospital, MOH
2. Clinical Tutor, KIMS nuclear medicine program
3. Head of Nuclear Medicine Council, MOH
4. Member of Radiation Protection Committee, MOH
5. Member of Board of Trustees, Jaber Molecular Imaging Center, MOH & KFAS
6. Head of Kuwait National Amyloidosis Program, MOH

- **Dr. Fatma Al-Saeedi**

1. Hospital service and teaching (Radiopharmacy Laboratory Station 4 h/day). Ministry of Health-Mubarak Al-Kabeer Hospital-Nuclear Medicine Department, Kuwait.
2. Established the first tissue culture lab with the use of radioactive materials in the nuclear medicine department.
3. Participated in counseling the design of tissue culture lab work and techniques in the Kuwait Institute for Scientific Research (KISR), Kuwait.

- **Dr. Shorouk Dannoon**

1. Seconded to Mubarak Al-Kabeer Hospital, Ministry of Health, Department of Nuclear Medicine (Radiopharmacy laboratory).
2. Teaching Radiopharmacy, KIMS nuclear medicine program

- **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**

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
2. Secretary, Nuclear Medicine council, MOH
3. Clinical Tutor, KIMS nuclear medicine program

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. Sub chair scientific program, Society of Nuclear Medicine and Molecular Imaging USA.
4. Advisor, Arab Society of Nuclear Medicine

5. Chairman, scientific committee, Kuwait Annual Nuclear Medicine Conference
March 24- 26, 2019

- **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
3. Imaging
4. Fellow Royal Statistical Society

- **Dr. Ismet Sarikaya**

1. Coordinator, Research Committee, Department of Nuclear Medicine
2. Department representative, Respiratory module
3. Society of Nuclear Medicine (USA)
4. 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)
4. President, Kuwait Annual Nuclear Medicine Conference, March 10th till 12th

2020 (Scientific Committee Member and organizingcommittee)/Postponed
due to COVID-19

- **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. Shorouk Dannoon:**

1. Cyclotron & PET Radiopharmaceuticals Current Status and Future
2. Prospects, Kuwait. November 18th 2019 (Organizing Committee and
3. Scientific Committee Member)
4. Annual Nuclear Medicine Conference March 10th till 12th 2020 (Scientific
5. Committee Member and organizing committee)/Postponed due to COVID19

- **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)
5. Kuwait Annual Nuclear Medicine Conference, March 10th till 12th 2020
6. (Organizing and Scientific Committee Member) Postponed due to COVID-19

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.
5. Reviewer Journal of Nuclear Medicine and Molecular Biology.
6. Member, Editorial board journal of case reports of medicine.
7. Member, editorial board, clinics in oncology
8. Regional editor, Gulf Journal of Oncology

- **Dr. Gaber Ziada**

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 &
5. Medical Imaging
6. Weekly contributor to Afaq (Kuwait University Newspaper)

- **Dr. Ismet Sarikaya**
Reviewer, World Journal of Nuclear Medicine
- **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.
- **Dr. Shorouk Dannoon:**
 1. An active editor in the Journal of Radiochimica Acta since November 2014.
 2. An active editor in the World Journal of Nuclear Medicine since January 2019.

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. European congress of Nuclear Medicine, Barcelona, Spain, October 2019
 - Diabetes conference, Tokyo, Japan, February 2020
 2. Jordanian Conference of Nuclear Medicine, August 2019

-Dr. Gaber Ziada

1. Egyptian Nuclear Medicine Congress The 17th International Nuclear Medicine Conference Marriott Hotel - Cairo, Egypt 23rd. – 24th. March 2019.
2. The Faculty of Science Helwan University, Cairo: Advanced medical imaging physics: exchange between Egypt and Japan keynote speaker Helwan 25-28 March 2019

-Dr. Issa Loutfi

Attendance, participation and poster presentation in the Society of Nuclear Medicine and Molecular Imaging Mid-Winter Meeting, Tampa, Florida, USA, 2020. Poster title: Quantitative Analysis of F-18 Fluorodeoxyglucose (FDG) PET/CT Uptake in the Orbit & Ocular Muscles. Loutfi I, Ashkanani H, Aql A.

Received for the third time running the Ralph Blumhardt Award of the ACNM for the presentation of this poster.

Attendance to the 7th Annual Kuwait Society of Nuclear Medicine & Molecular Imaging Conference, Kuwait October 2019

Attendance to the COVID-19 MOH training course, EMS, Kuwait 17/6/2020

Attendance of e-learning presentations/courses, Faculty of Medicine and Kuwait University covering MS Teams, Blackboard and related subjects June-July 2020.

- **Dr. Fatma Al-Saeedi**

1. Black Board E-Learning: 3 parts. July, 2020.
2. Several MICROSOFT TEAMS, Kuwait University, June-August, 2020.
3. Derwent Innovation. Kuwait University-Research Sector- Office of Vice President for Research, 19 Feb, 2020.

- **Dr. Ismet Sarikaya**

1. European Association of Nuclear Medicine (EANM'19), Barcelona, Spain; October 2019: Presented 3 posters:
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. Sarikaya I, et al. DMSA scan versus MR imaging in pyelonephritis: A Metaanalysis. EANM Annual Meeting, October 2019, Barcelona, Spain.
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.
2. Kuwait Annual Nuclear Medicine Conference, Kuwait; March 2019.

- **Dr. Saud Alenezi**

1. Speaker with two sessions at Advances in Tumor Imaging Conference organized by King Fahad Specialist Hospital-Dammam on 8-10 October 2019.
2. Two speeches:
 - A. Ga-68 PSMA PET/CT in prostate cancer.
 - B. PRRT in neuroendocrine tumors.
3. Speaker and Chaired session at the "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. Oral presentation: Effect of Brown Adipose Tissue Activation on Myocardial [18F] FDG Uptake.

- **Dr. Shorouk Dannoon:**

1. "Objective of the workshop & Current status of the cyclotron in Kuwait" Cyclotron & PET Radiopharmaceuticals Current Status and Future Prospects, Kuwait. November 18th 2019

- **Dr. Naheel Alnafisi**

Kuwait Annual Nuclear Medicine Conference, Kuwait; March 2019, session chairman

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, radiation safety committee
5. Coordinator, clinical nuclear medicine course, MSc Program
6. Coordinator, Scientific writing and communication course, graduate program

- **Dr. Gaber Ziada**

1. Graduate Program Director.
2. Member, Department Appointment & Contract Renewal Committee
3. Member Department Scholarships committee

- **Dr. Issa Loutfi**

1. Member Phase II Examination Committee
2. Judge, 25th Health Sciences Center Poster Conference 2020
3. Member departmental Appointment & Contract Renewal Committee
4. Member departmental Scholarships Committee
5. Member Departmental Graduate Program (PhD & MSc) Committee

6. Departmental representative Phase II curriculum review committee for Nervous
7. System
8. Departmental representative Phase II curriculum review committee for the
9. Endocrine System
10. Departmental representative Phase II curriculum review committee for the Renal System

- **Dr. Ismet Sarikaya**

1. Coordinator / Research Committee, Department of Nuclear Medicine
2. Chairman / Health and Safety Committee
3. Department representative, Respiratory module
4. Member of Departmental Graduate Program Committee

- **Dr. Saud Alenezi**

1. Member, Examination Committee, Phase I.
2. Member, Examination Committee, Phase III.
3. Member, PBL coordination group
4. Member, cardiovascular system module committee
5. Member Departmental Graduate Program Committee
6. Member departmental Appointment & Contract Renewal Committee
Departmental recruitment committee
7. Member, Accreditation Human Resources Sub-Committee

- **Dr. Mohammad Ghanem**

1. Member of the Health and Safety committee at Faculty of Medicine, Kuwait University.

- **Dr. Shorouk Dannoos:**

1. Departmental Scholarship Committee
2. Accreditation Human Resources Sub-Committee
3. Student Advisor
4. Departmental Support Staff Interview Committee
5. Department appointment, contract renewal and recruitment 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. Member, chairman search and review committees, faculty of dentistry
5. Member, promotion review committees, faculty of dentistry and pharmacy

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 much anticipated Micro PET/CT in which a general faculty grant was approved. The department has produced 13 original articles and 1 book. 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 department is in need for senior staff in medical physics since the department is hoping to activate the PhD program.

OBSTETRICS AND GYNAECOLOGY

1.0 INTRODUCTION

Through a unique combination of theory, clinical and innovative teaching methods and practitioner interactions, the undergraduate programme of Department of Obstetrics and Gynaecology, Faculty of Medicine, Kuwait University, Kuwait, delivers 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. The Covid-19 pandemic has led to a global crisis where well-established systems, such as healthcare and education, have been disrupted since the beginning of March 2020. It therefore, became imperative to face and tackle the associated challenges, based on principles of disaster management inclusive of mitigation, innovative response and recovery. This platform was created centrally by the administration of Kuwait University and totally embraced by the Faculty of Medicine. The introduction of e-learning and online teaching with Microsoft-Team and Moodle system. In an altruistic manner, the academic and support staff of the department 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 is blessed with an assemblage 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. In recent years, there has apparent underperformance in the students' involvement in labour ward activities. This is an area of the curriculum that needs urgent reshaping. 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, Gynaecology and Urogynaecology. The andrology laboratory of the department has continued with its increased patronage from Maternity and Mubarak Al-Kabeer Hospitals and Private Clinics. The department is happy to welcome back Dr. Waleed Al-Jassar, Assistant Professor in the subspecialty of Gynae Oncology from his one year study leave.

2.4 MANPOWER

2.5 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

2.6 Clinical Tutor

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. Khalid Al-Akkad, Consultant, MD, Adan Hospital.
5. Dr. Nawal Y. Khajah, Consultant, MRCOG, Maternity Hospital.
6. Dr. Mona Taleb Al-Qanae, Consultant, Arab Board, Maternity Hospital.
7. Dr. Iman Shamali, Consultant, FRCOG, Maternity Hospital..
8. Dr. Hatem Mattar, Consultant, MRCOG, Maternity Hospital.
9. Dr. Warqa Al-Shayji, Consultant, FRCS(C), Maternity Hospital.
10. Dr. Maysoun A. Hasan, Senior Specialist, Kuwaiti Board, Maternity Hospital.
11. Dr. Tareq Ali Assem, Senior Specialist, MD, Maternity Hospital.
12. Dr. Mohammed Farghali, Senior Specialist, MD, Maternity Hospital.
13. Dr. Shaima Al-Ragum, Senior Specialist, Kuwaiti Board, Maternity Hospital.
14. Dr. Huda Abdul Hameed, Senior Specialist, MRCOG II, Maternity Hospital.
15. Dr. Fatima Al-Hadood, Specialist, MRCOG (UK), Part 1, Maternity Hospital.
16. Dr. Fatima Al-Ameeri, Specialist, MRCOG 1, Kuwaiti Board,
Maternity Hospital.
17. Dr. Amel A. Abdulla, Specialist, Kuwaiti Board, Maternity Hospital.

18. Dr. Fatima Al-Dehrab, Specialist, MBCHB (Aberdeen) , Maternity Hospital.
19. Dr. Hanan Al-Khatlan, Specialist, Kuwait Board, Maternity Hospital.
20. Dr. Alia Al-Tuhoo, Specialist, Kuwait Board, Maternity Hospital.
21. Dr. Shaikha S. Al-Salem, Senior Registrar, Kuwait Board, Maternity Hospital.
22. Dr. Jameela Al-Qahtani, Senior Registrar, Kuwait Board, Maternity Hospital.

2.7 Visiting Professors and External Examiners

External Examiners

1. Prof. Justin C. Konje
Professor/Honorary Consultant,
Obstetrician & Gynaecologist,
Department of Obstetrics & Gynaecology,
University of Leicester, 13 Weare, UK.
Email: jck4@le.ac.uk, jkonje@sidra.org
Tel: 01162525826/01162596943

2. Prof. Jim Thornton
Professor of Obstetrics and Gynaecology,
Nottingham City Hospital NHS Trust,
Academic Division of Obstetrics and Gynaecology,
Maternity Unit, Hucknall Road, Nottingham, UK.
Email: jim.thornton@nottingham.ac.uk
Tel: +044 (0) 115 82 31889

3. Prof. Mohammed Hisham Al-Sibai
Professor of Obstetrician & Gynaecologist,
The Arab Board of Medical Specialization,
Secretary General, General Secretariat in
Syrian Arab Republic, Amman Office,
Kingdom of Jordan.
Email: hishamalsibai@hotmail.com
Tel: 00963116119742, 932221112

4. Prof. Dilly OC Anumba,
Chair of Obs. & Gyn.,
Dept. of Human Metabolism,
The University of Sheffield,
4th Floor, Jessop Wing, Tree Root Walk,
Sheffield S10 2SF UK.
Tel: 44 1142261075 (Acad.), 44 7833388971 (Mobile)

Email: d.o.c.anumba@sheffield.ac.uk, d.m.swain@sheffield.ac.uk

5. Prof. Asma Khalil,
Fetal Medicine Unit 4th floor,
Lanesborough Wing
St George's Hospital
London SW17 0QT
Tel: 020 8725 1924
Fax: 020 8725 0079
Email: akhalil@sgul.ac.uk, asma.khalil@stgeorges.nhs.uk

All accepted to come to Kuwait as External Examiners in the final exams in Obstetrics and Gynaecology in June 2020. Unfortunately the Covid-19 pandemic aborted the realization. For the first time since the inception of the Department the final examination was carried out without external examiners.

2.8 Ph.D. Students - Nil
Scholarship Students – Nil

2.9 SUPPORT STAFF

Scientific Assistants

1. Susan George, BSc., MSc. Joined 2001

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

Secretaries

1. Alexander Joseph, B.Sc. Joined December, 2009
2. Noor H. R. Tatari, B.Sc. (Information Technology & Computer Science) joined December, 2019.

2.10 STAFFING CHANGES

1. **Promotions:** - Nil
2. **Staff who left the department:** Dr. Nandakumaran Moorkath, Ph.D Professor, joined 1984 resigned on 12th July, 2020.

3. **Academic staff on Sabbatical leave:** - Nil

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 is placed on daily clinical activities from 7.00a.m to 4.00p.m. The students worked hard in the preparation and

submission of their clinical notes during each rotation and some of the clinical notes submitted were of outstanding in 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. In the years ahead, we hope to adapt fully to the new innovative curriculum and we are confident that the student led seminars (SLS) in groups of 4-6 students will continue to emphasize research, team work and presentation in front of their peers.

The Mini-CEX

This is a formative assessment of core clinical skills. It is 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 review the performance of the students for 10 minutes. Two Mini-CEX sessions are carried out 3rd 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 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 coloration, 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 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

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.

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	82 hours per annum

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 |

Total	30 hours per annum
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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 |

Total	174 hours per annum
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PBLs (Problem Based Learning)

30 hours per group x 3 groups	90 hours per annum
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I have participated in all in course and final examinations conducted for our students

Total contact hours	300 hours per annum
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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
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Total	22 hours
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- 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.
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Exam preparations	
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Preparation for exams	30 hours per annum
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Correction of In-course 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 houtsd 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
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Problem based Learning

1. Obstetrics and Gynaecology	:	160 hours per annum
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Conducting of Incourse Exams

1. OSCE/ELoops
2. Essay and Short notes : 80 hours per annum
3. Clinical

Co-ordinator

1. 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

1. **Teaching Activities for Sixth year medical students: 20 hours**

Lectures:

1. Management of normal and abnormal labor
2. Hypertensive disorders of pregnancy
3. Diabetes and pregnancy

Student-led Seminars:

1. Normal and abnormal pureperium
2. Menopause and postmenopausal disorders
3. Endometriosis and adenomyosis
4. Malpresentations

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. Module coordinator for Reproductive/Breast module
2. Preparation of 3 learning topics for Reproductive/Breast module
 - i. Labor initiation
 - ii. Teratogens

- iii. Sexual response cycle
- d. Lectures for 4th year medical students in Reproductive/Breast module:
 - i. Lactation
 - ii. Menopause
 - iii. Introduction to clinical Obstetrics and Gynaecology

Grand Total

369 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 |
| 2. 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 |
| 6. HPV & gynecological disorders (SLS) | 1 hour per annum |
| 7. Examination and discussion | 18 hours per annum |

Total Lecture hours

36 hours per annum

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 |

192 hours per annum

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.

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 6th 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/E-Loops) (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
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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
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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

- | | |
|---|---------|
| 1. Ethics in Obstetrics and Gynecology | 1 hour |
| 2. Journal Clubs | 3 hours |
| 3. Time Management and Priority Setting | 1 hour |
| 4. Leadership Qualities | 1 hour |
| 5. Thyroid Disorders in Pregnancy | 1 hour |

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 and Pediatrics residency programs. Nutrition students Kuwait university)

- | | | |
|---------------------------------------|--|------------------|
| 1. | Hyperandrogenism and PCOS | 1 hour |
| 2. | Amenorrhea and Premature ovarian failure | 2 hours |
| 3. | Clinical/surgical teaching (3 hours per week x 44 weeks) | 132 hours |
| Total contact hours per annum: | | 135 hours |

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. Mini Cex for the clinical evaluation of students in posting
6. Management of preterm labour with Atosiban
7. Significance of Oxytocin receptors in Pregnancy

Poster Conference March 2020 (Cancelled because of the Covid -19 Pandemic)

Confirmed presentations

1. Omu AE et al. Association between Leucocytospermia and IL-17
2. Bello ZOmu AE. Prevalence of Ectopic Pregnancy at Maternity Hospital, Kuwait.

Manuscript in Preparation

1. Reduction of the incidence of Preeclampsia in women with Hyperemesis Gravidarum

Conference paper submitted and accepted for oral presentation for the 24th Annual International Conference on New Trends and Developments in Women's Reproductive Health conducted by the Egyptian Fertility **Society**

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

Research:

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)

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 1st January or 1st 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

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

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

1. **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
2. **Omu AE** A historical cross-over management of hyperprolactinemia with bromocriptine and Cabergoline
3. **Omu AE** Modulation of Apoptosis of Testicular cell sub-population by trace elements- Zn, Se, Cu, Cd and Magnesium

Eyad Al-Saleh

- 1) Nandakumaran M., Foda M, **Al-Saleh E.** Maternal-Fetal Transport Kinetics of O-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)
- 5) 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

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)

Baydaa Al-Sannan

Publications

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.

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

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 and Presentations

1. 72nd Tobacco Science Conference, September 16-19, 2018, Memphis USA, Presented a paper titled: Effect of Smoking on Cytokine Network
2. 3rd **Poster Conference March 13-15, 2019 Health Science Center, Kuwait University.**

I presented Four Posters.

- i. Significance of Oxytocin receptors in Pregnancy. Omu AE, Al-Qahtani J.S, Malalla Y, Mohammed A., George S, Pariyani S, Nair A.
- ii. Tractocile in the management of Preterm Labour in Kuwait. Behbehani A, Al-Malalla Y, Omu AE.

- iii. Bioinflammatory markers in gestational diabetes mellitus (GDM). Omu AE, George S, Pariyani S, Nair A, Mohammed A.
- iv. Determinants of Caesarean Section in Kuwait. Al-Babtain AA, Al-Yahya A, Al-Qahtani J, Mohammed A, Omu AE
3. Update in Clinical Microbiology and Clinical Diseases. April 7-9, 2019, Faculty of Medicine, Kuwait University, Kuwait.
4. Breast Cancer and Women's health Conference. July 3-6 London, UK.

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 1999 till date.
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.

Health Sciences Centre Poster Conference

1. 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 Appointment and Promotion committee
4. Member, Departmental Examination Committee
5. Member, Departmental Scholarship Committee
6. Chairperson, Department Postgraduate Committee
7. Member, Faculty Scientific Affairs Advisory 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.
3. SGS/AUB Course in Advanced Gynecology Surgery, Vienna, Austria. 10-11 October, 2019.

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 Examination Committee
4. Member of the Department Promotion and Appointment Committee.
5. Member of the Department Scholarship Committee
6. Member of the Department Space Committee
7. Member of the Department Postgraduate Committee

Ministry

1. Consultant, Maternity Hospital, Kuwait, Unit 3.
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:

- i. Consultant, Obstetrics and Gynaecology Department, Adan Hospital, Ministry of Kuwait till date. (Under Secondment)
- ii. Associate professor, Obstetrics and Gynaecology department, Faculty of Medicine continued from December 2008 till date.
- iii. Obstetrics and Gynaecology clinics etc. at Adan Tertiary Hospital

Faculty of Medicine

1. Medical Student Advisor- O& G
2. Member, 19th 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 Appointment and Promotion Committee/Renewal of Contract
9. 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. Symposia Medicus Conference on Emergency Medicine January 29 – February 1, 2020 OAHU, HAWAII USA

Jehad Al-Harmi

8.0 CONTRIBUTIONS TO COMMUNITY SERVICE

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
 - Module coordinator for the Reproductive /Breast module
 - 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 5 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

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 Service:

Three weekly sessions in International Quality Clinic till end of October 2019

Scientific Activities

1. Update in breast cancer management symposium (November 2019, Kuwait)
2. Improving VTE management workshop (November 2019, Kuwait)
3. Presented Colposcopy Workshop in KMA Conference (November 2019, Kuwait)

4. KMA conference on integration of medical specialities (November 2019, Kuwait)
5. Twenty fourth annual Kuwait obstetrics and gynecology conference (February 2020, 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
4. Membership in Department of Obstetrics & Gynaecology Committees:
 - a) Member, Examination Committee
 - b) Member, Phase 3 Curriculum Committee
 - c) Member, Phase 2 Curriculum Committee
 - d) Member, Safety Committee
 - e) Member, Space Committee
 - f) Department Postgraduate 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. World Congress of the International Society of Vulvovaginal Disease, Italy, 18-20, September, 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.**

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, 1st 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

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, Postgraduate Committee
7. Department Liaison Officer with Academic Accreditation Unit., Faculty of Medicine.

Scientific Conferences attended

1. 4th International Conference on Obstetrics & Gynecology, Singapore, 14-15 November, 2019
2. SGS/AUB Course in Advanced Gynecologic Surgery, Vienna, Austria, 10-11 October 2019.
3. Attended as Speaker, 23rd Kuwait annual Obstetrics and gynecology, scientific meeting, 3, 4, 5 & 6 Feb 2019
4. Urology club monthly meeting, sept, 2018, Sabah Al-Ahmad urology center
5. Urology club monthly meeting, Nov, 2018, Sabah Al-Ahmad urology center
6. National Prostate Cancer Awareness Campaign Nov 2019, Sabah Al-Ahmad urology center
7. Urology Club monthly meeting, Jan 2019. Marina Hotel

AbdulRahman Al-Serri

Ministry of health:

1. Senior 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.

Scientific conferences attended / invited:

1. ESHRE Annual meeting (online)

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 European Society of Human Reproduction and Embryology (ESHRE).
4. Member of the Middle East Fertility Society (MEFS).

9.0 Concluding Remarks

The team and transformational innovative spirit of a family unit and team togetherness has continued in the department. The state of the undergraduate program is much stronger than ever. The 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 has been of high standard. The Mini-Cex has achieved a high level of popularity. Development into four active clinical and research units namely, Reproductive Medicine, Maternal Fetal Medicine, Gynaecology and Urogynaecology has had some knock-out effect. The department will 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.

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 shouldered 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.

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. And it 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

b. Graduate teaching (M.Sc / Ph.D)

NA

Course coordinators:

NA

c. Postgraduate teaching (KIMS)

Lectures :

Tutorials & Seminars :

Practicals (clinical bedside) :

Total teaching hours : NA

Course Coordinators:

NA

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. **MH Jamal**, A Karam, N Alsharqawi, A Buhamra, I AlBader, J Al-Abbad et al. Laparoscopy in acute care Surgery: Repair of Perforated Duodenal ulcer . Medical Principles and Practice.2019; 28 (5), 442.

Q3 Medicine (miscellaneous)

2. **MH Jamal**, R Almutairi, R Elabd et al. The Safety and Efficacy of Procedureless Gastric Balloon: A Study Examining the Effect of Elipse Intragastric Balloon Safety, Short and Medium Term Effects on Weight Loss with 1-Year Follow-Up Post-removal. Obesity Surgery.2019; 29 (4), 1236-1241

Q1 Surgery

3. Irina AlKhairi ,Preethi Cherian ,Mohamed Abu-Farha ,Ashraf Al Madhoun ,Rasheeba Nizam ,Motasem Melhem ,Mohamed Jamal ,Suleiman Al-Sabah ,Hamad Ali , Jaakko Tuomilehto ,Fahd Al-Mulla and Jehad Abubaker. Increased Expression of Meteorin-Like Hormone in Type 2 Diabetes and Obesity and Its Association with Irisin. Cells. 2019; 8(10), 1283

Q1 Molecular Biology

4. **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

Q1 Surgery

5. 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

Q1 Medicine Misc

6. 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](#)

Q1 Health Informatics

7. **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; Jihad 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; In Press.

Q1 Surgery

8. 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. Under review for publication.

Q1 Medical Education

9. 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.

Q1 Medicine Misc

10. **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; In Press

Q1 Medicine Misc

11. 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.

MedRxiv, Online platform awaiting peer review.

12. 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; In Press.

Q2 Endocrinology, Diabetes and Metabolism

13. 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; In Press

Q1 Public Health, Environmental and Occupational Health

14. 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.

Q1 Medicine Misc

15. 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

Q3 Surgery

16. **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.

Q3 Surgery

17. Rawan Alabd, 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, under review for publication.

Q3 Surgery

18. 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; In Press

Q1 Infectious Diseases

19. **Mohammad Jamal**, Husain AlMahmeed, Mansour AlGhanem, Maen AlMatooq, Mustafa AlMousawi, Hector Vilca Melendez, Nigel Heaton, Wayel Jassem. The Status of Organ Transplantation in Kuwait. Transplantation.2020; under review for publication

Q1 Transplantation

20. **Mohammad H. Jamal**, Ahmad AlHashemi, Nour Al-Kanawati, Mohanned Al-Haddad, Fatema Hamshari, Shehab Akrouf. A Study examining the Orbera365 intragastric balloon safety and short-term effects on weight loss. Obesity Surgery.2020; Under review for publication

Q1 Surgery

Chapter in Book

1. **MH. Jamal**, M. Singh. Gallbladder and Biliary Disease in Bariatric Surgery Patients, in: PR. Schauer, BD. Schirmer, Stacy Brethauer, Minimally Invasive Bariatric Surgery, Second Edition: Springer.
2. K Imrie, D Dath, G Bullock, R Smith, R Fisher, D Frechette, KA Harris, **M Jamal**, M. Kennedy, R Maudsley, A Murhaghan, N Saad and JR Frank. The Resident Dual Role as Learner and Service Provider, in Competence by Design: Reshaping Canadian Medical Education. Royal College of Physicians and Surgeons of Canada.
3. **MH. Jamal**, R AlAbd. Sleeve Gastrectomy in Nash and Liver Cirrhosis. The Complete Book of Laparoscopic Sleeve Gastrectomy. First Edition. Springer.

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

Dr. Mohammed Jamal

1. The effect of pregnancy on weight loss in post bariatric patients.
R. Adlan, N. Alali, H. Alawadhi, K. Alawadhi, A. Alkandari, G. Alkhaledy, Z. Al-Sahhaf, D. Al-Sharaf, A. Hasan, **M. Jamal**, M. Makhseed. Obesity surgery (2019); 29, 12-12 [IFSO conference].
2. Long-term outcomes of primary laparoscopic one-anastomosis gastric bypass surgery: a retrospective study.
A Alhaj, **M Jamal**, R Elabd, R Almutairi. Obesity surgery (2019); 29, 32-32. [IFSO conference].
3. Elipse balloon: a one-year follow-up after balloon removal, a kuwaiti center experience.
R Almutairi, R Elabd, **M Jamal**. Obesity surgery (2019); 29, 30-30. [IFSO conference].
4. Laparoscopic one-anastomosis gastric bypass as a revision surgery; a centre experience.

- R Elabd, R Almutairi, A Alebrahim, H Alkhayat, **M Jamal** obesity surgery (2019); 29, 35-35 [IFSO conference].
5. Post sleeve gastrectomy stenosis.
A Ashraf, **M Jamal**. Obesity surgery (2019); 29, 67-67. [IFSO conference].
 6. Laparoscopic Conversion of Gastric Plication to Roux-en-Y Gastric Bypass.
Aqeel Ashraf, Haytham Alkhayat, Khalid Alsharaf, **Mohammad Jamal**. Obesity surgery (2019);29, 68-68. [IFSO conference].
 7. Laparoscopic conversion of a gastro-gastrostomy to roux-en-y gastric bypass.
A. Ashraf, **M. Jamal**. Obesity surgery (2019); 29, 69-69.
B. [IFSO conference].
 8. Irisin, Meteorin-Like Protein, and Bone Remodeling Markers in T2D and Obesity.
Mohamed Abu-Farha, Preethi Thomas Cherian, Irina Al khairi, **Mohammad Jamal**, Suleiman Al-Sabah, Hamad Ali, Carol Dsouza sr., Fatemah Kulaib Alotaibi, Waleed Al-Ali, Ghanim Mohammad Al-Khaledi, Jehad Abubaker and Fahd Al-Mulla. Diabetes 2019 Jun; 68(Supplement 1). [ADA conference].
 9. Laparoscopic Conversion of Gastric Plication to Roux-en-Y Gastric Bypass. Aqeel Ashraf, Haytham Alkhayat, Khalid Alsharaf, **Mohammad Jamal**. Surg Endosc 2019 33: S414-S483. [SAGES Conference].
 10. Laparoscopic conversion of a gastro-gastrostomy to roux-en-y gastric bypass.
A. Ashraf, **M. Jamal**. Surg endosc (2019) 33: S414-S483.
[SAGES Conference].
 11. The Effect of Sleeve Gastrectomy on The Uncoupling Proteins in Animal Rat Model.
Mohammad Jamal, Mohamed Abu-Farha, Ghanim Al-Khaledi, Suleiman Al-Sabah, Hamad Ali, Fatemah Al-Otaibi, Carol Dsouza, Waleed Al-Ali, Fahd Al-Mulla. Surgery for Obesity and Related Diseases (2019) 15 (10), S171. [ASMBS conference].
 12. Increased Muscle expression of Meteorin and Irisin and reduced in BAT after gastric sleeve in rats.
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; Fahd Al-Mulla. The Obesity Society (2019). [ASMBS conference].
 13. 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).

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 equipment.

PEDIATRICS

INTRODUCTION:

During the academic year 2019-2020, 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.

We continue to make amendments to our curriculum following inputs from staff, students and external examiners. The core of the clinical rotation revolves around bedside teaching (with 6 MiniCex and mock OSCE), problem-based learning (PBL) and the multidisciplinary medical school day (MSD) format. The students' final grade is a composite of End-Block/Course assessment and the final examination scores (OSCE, MCQs, EMQs).

Our students performed very well at the final examinations with 3 distinctions (3 As) and 17 A- while only 1 student had a resit exam in September 2019 and passed. The immediate feedback from the external examiners who attended our orientation session which preceded the final exams was quite positive and they all attested to the high standard of teaching and assessment methods adopted by the department. They believed our students met or exceeded their expectations. There were some suggestions that we shall take into consideration in planning future examinations.

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 but unfortunately, due to Covid-19 pandemic, this year's conference, which was supposed to be held in March 2020, was cancelled. Some of our staff were invited as guest speakers at different international conferences, workshops, symposiums, courses etc during the

year. Currently there are 7 funded research grants (from Kuwait University and KFAS) 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 4 applications for promotion to the rank of a full Professor which are all currently under review.

New Staff:

- One scholar, Dr. Dana Al-Marafie, has joined the department after completing her scholarship in August 2019. However, she applied for a one-year Study Leave immediately after joining which was accepted by the University.
- Mrs. Anita Kumari Kalarikkal joined the department as a new technician in October 2019.
- One Arabic-speaking secretary, Mrs. Jumanah Mubarak Redha was transferred to our department from the Dean's Office in June 2019 but unfortunately, she left us for personal reasons in September 2019.

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.

1. **Appointment and Contract Renewal Committee:** Dr. Wafa'a Al-Qabandi (Head), Prof. Adekunle D Adekile, Prof. Mohammad Haider, Prof. Amal Al-Eisa and Dr. Waleed Al-Herz
2. **Scholarship Committee:** Dr. Wafa'a Al-Qabandi (Head), Prof. Mohammad Haider, Prof. Khaled Alsaeid, Dr. Mazen Al-Essa and Dr. Majeda Hammoud
3. **Teaching and Curriculum Committee:** Dr. Majeda Hammoud (Head), Dr. Mazen Al-Essa, Dr. Mayra Alsaeid, Dr. Entesar Husain, Dr. Majedah Abdul Rasoul, Dr. Maysoun Al Rushood and Dr. Mohammed Ebrahim
4. **Examinations Committee:** Dr. Abdullah Owayed (Head), Dr. Lulu Abushaban, Dr. Entesar Husain, Dr. Waleed Al-Herz, Dr. Maysoun Al Rushood and Dr. Mohammad Ebrahim
5. **Research Committee:** Dr. Gursev Dhaunsi (Head), Prof. Adekunle D Adekile, Prof. Mohammad Haider, Prof. Khaled Alsaeid and Dr. Waleed Al-Herz
6. **Distinguished Teachers Award:** Dr. Wafa'a Al-Qabandi (Head), Prof. Khaled

Alsaeid, Prof. Amal Al-Eisa and Dr. Lulu Abushaban

7. **Accreditation Committee: Dr. Mayra Alsaeid (Head)**, Dr. Entesar Hussain, Dr. Waleed Al-Herz, and Dr. Maysoun Al-Rushood
8. **Budget and Finance Committee: Dr. Wafa'a Al-Qabandi (Head)**, Prof. Mohammad Haider (Coordinator), Dr. Mayra Alsaeid, Dr. Gursev Dhaunsi, and Mr. Brahm Swaroop Srivastava
9. **Library Affairs: Dr. Maysoun Al-Rushood**
10. **Faculty Scientific Affairs Committee Representative: Dr. Gursev Dhaunsi**
10. **Department Research and Seminars Coordinator: Dr. Waleed Al-Herz**
11. **Social Committee: Dr. Majedah Abdul Rasoul**
12. **Health and Safety Issues: Dr. Gursev Dhaunsi (Head)**, Mr. Brahm Swaroop Srivastava and Ms. Athary A.S. Sulaiman

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, MRCPC, FRCP(UK), FRCPC
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. Majedah Abdul Rasoul, FRCP, DCH, MBBsc
Assistant Professor (Endocrinology)

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 Al-Marafie, B.M.B.Ch., ABP
Assistant Professor (Psychiatry & Neurology)

b) Teaching Assistant

1. Dr. Amina Al-Awadi
2. Mrs. Amani Al-Fadli

c) Lab physicians- None

d) Clinical Tutors

Mubarak Hospital

Dr. Noufoud Fadel Al-Shemmeri (MBBCh, MRCPCH, FRCPCH)
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 & Senior Specialist– 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)

Senior 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 & Head of Neonatal- Dept of Pediatrics

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

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. Othman Ahmed Abou Shanab (M.B.B.Ch, MRCPCH , D.C.H.)

Consultant- Dept of Pediatrics

Dr. Hani Mohamoud Nadi (M.B.B.Ch, MRCPCH, D.C.H)

Consultant- Dept of Pediatrics

Dr. Reema Al-Sawan (M.B.B.Ch, MRCPCH)

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

Maternity Hospital

Dr. Nawal Abdu-Razzaq Al-Kazemi (M.B.B.Ch, MRCPCH , D.C.H.)

Consultant & Chairperson - Dept of Pediatrics

Dr. Mohammed Al-Harbi

Consultant - Dept of Pediatrics

Dr. Muneef Mahrouf Al-Fahad Al-Hathal (M.B.B.Ch (Swedish Board of Pediatrics)

Consultant-Dept of Pediatrics

Dr. Nahla Barakat (MBBCh, MSc, MD)

Consultant – Dept. of Pediatrics

Dr. Mervat F.Mohamed Khalil (MBBCh, MSc, MRCPCH)
Consultant – Dept. of Pediatrics

Dr. Khaled Al-Mannaei- (BSc, MD, MRCPCH)
Consultant – Dept. of Pediatrics

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 **Visiting Professor – None**

External Examiners for Final Exam June 2019:

1. **Professor Lesley Rees**
Consultant Paediatric Nephrologist,
Renal Unit, Gt Ormond St Hospital for Children,
Gt Ormond St, London WC1N3JH
Professor of Paediatric Nephrology,
University College London
Email: Lesley.Rees@gosh.nhs.uk
2. **Prof. Hesham Safouh**
Professor of Pediatrics and Pediatric Nephrology
Center for Pediatric Nephrology and Transplantation (CPNT)
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3. **Prof. Haroon Saloojee**
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4. **Prof. Yasser Ahmed Wali**
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5. **Prof. Peter Graham Davis**
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Australia
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6. **Professor Ronald Laxer**
Professor and Head of Rheumatology DivisionUnit
Hospital for Sick Children
Toronto
Canada
Email: Ronald.laxer@sickkids.ca

SUPPORT STAFF

Mr. Brahm Swaroop Srivastava (B.Sc)
Chief Technician-Chemistry

Scientific Assistants

1. Mr. Marcus Thomas D'Souza (B.Sc, M.Sc)
Scientific Assistant-Organic Chemistry
2. Mrs. Vazhappilly Jalaja Sukumaran (B.Sc, M.Sc)
Scientific Assistant-Biology

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. Martha Bella Noronha
2. Mrs. Bena Andria Rosy Pereira

Others

None

Student help

None

STAFFING CHANGES

1. New Academic Staff appointed- None
2. Promotions: 4 applications submitted, all to the rank of Full Professor.
3. Staff who left the department – None
4. Staff on Sabbatical Leave: Professor Amal Al-Essa resumed work after her one-year sabbatical leave on September 2019. No new staff applied for a sabbatical leave.
5. Staff on Study leave: Dr. Dana Al-Marafie

TEACHING IN THE DEPARTMENT PROGRAM:**I. Faculty of Medicine****a. Undergraduate teaching:**

The undergraduate programme is running well and we are pleased with the overall standards of our students in Pediatrics. The rotation through different hospitals is working well and the student feedback is positive. There is increasing emphasis on PBL in the curriculum. The clinical assessment which is fully in the OSCE format and the E-Loops assessment that was introduced 8 years ago is now well established. These changes have been well-received by the students and the feedback from our external examiners has been positive.

Tutorials, Practicals & Total teaching hours given to students per year:

Undergraduate Teaching: Number of students 116

6th 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 ($64 \times 2 = 128$ hours). The Block rotation is 11 weeks ($128 \times 11 = 1408$ hours per block). We have 3 blocks per year, $1408 \times 3 = 4224$ hours per year.
- Tutorials: 1 hour/day, 4 days per week = 4 hours/week. The block rotation is 10 weeks = $4 \times 10 = 40$ hours per hospital. We have teaching in 4 hospitals = $40 \times 4 = 160$ hours per block. Within each academic year we have 3 blocks = $160 \times 3 = 480$ hours per year

Total hours of teaching per year = 5178 hours

- b. **Phase II teaching:** All our academic staff are involved in Phase II PBL teaching, clinical skills lab teaching, OSCE Exams and exams corrections.
- 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 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 3-4 students per block with a total of 9-10 students per academic year. Mentors are giving performance feed back and advice to their students on a weekly basis during their Pediatrics rotation.

RESEARCH AND PUBLICATIONS

Monthly Departmental Research Meetings:

The seminar series were well organized and attended during the year as shown below:

Date	Presenter	Topic
23/4/2019	Prof. Khaled Alsaeid	“Adalimumab Treatment of Uveitis”
4/11/2019	Dr. Mohammad Ebrahim	“Electrocardiogram interpretation among Pediatricians in Kuwait: Assessing knowledge, attitude and practice”
2/12/2019	Dr. Entesar Husain	“Portfolio in the assessment of students in Pediatrics: Is there a room for improvement”
10/2/2020	Prof. Mohammad Haider	“Genetic susceptibility of type-1 diabetes: role of Vitamin-D receptor gene polymorphisms in Kuwaiti children”

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 (ongoing)

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)
- **Adekile AD** Akbulut N: “Identification of novel polymorphisms driving fetal hemoglobin expression in sickle cell patients with the Arab/India haplotype, using next generation sequencing”
- Saima Ali and **Adekunle Adekile**: The prevalence and characteristics of life-limiting and life-threatening conditions in children and young people in Kuwait

Prof. Mohammed Z. Haider:

Funded projects:

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/-).

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 projects:

Principal Investigator:

- **Haider MZ**, Al-Awadhi AM. “Prevalence of PTPN22 gene functional variant (R620W) in Kuwaiti Arabs with autoimmune diseases (completed July 2020).
- **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:

Principal Investigator:

- Role of Vascular Endothelium-derived growth factor (VEGF) in congenital disorders of glycosylation. Submitted to Research Sector, Kuwait University for funding. Total Budget KD 4000).

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. 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) activity in Omega-3-fatty acids-/Palmitate- and High Glucose-treated primary cultures of human coronary artery smooth muscle cells: Implications for Obesity and Diabetes.
Funding institution: Kuwait University, Project No

Dr. Waleed Al-Herz:

Funded Research:

- 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 (Co-Investigator)
- 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 (Co-Investigator)

Unfunded Research:

- Molecular Studies of Primary Immunodeficiency Syndrome, (Collaborative research with Professor Luigi Notarangelo from The National Institute of Health – USA) (Principle investigator)
- Genetic Characterisation of Congenital Bone Marrow Failure and Immunodeficiency Syndromes. PI: Prof. Dr. med. Christoph Klein (Ludwig-Maximilians-University Munich) (Co-Investigator)
- 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) (Co-Investigator)

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. Majedah Abdul-Rasoul:

Unfunded Research:

- Hypoglycemic incidence in the first year after diagnosis with type 1 diabetes in children and adolescents in Adan Hospital

Dr. Maysoun Al-Rushood:

Funded Research:

- Cytokine Gene Polymorphisms in Children with Idiopathic Nephrotic Syndrome
Funding institution: Kuwait University

Unfunded Research:

- CMPA in Kuwait.
- IL-6 and IL-8 in Children with Urinary Tract Infection: submitted

- PAK-3 related intellectual disability associated with combined immunodeficiency- a case reports.
- Factors Predicting Students' Performance in the Final Pediatrics OSCE: Submitted

Dr. Mohammad Ebrahim:

Funded Research:

- Research Initiation Grant (RIG) – AED (Automated External Defibrillator) use among patients with inherited arrhythmia

Unfunded Research:

- Outcomes for total anomalous pulmonary venous return and predictors of death – Tertiary center experience

PUBLICATIONS:

Papers published:

1. Titilope A. Adeyemo, Ijeoma N. Diaku-Akinwunmi, Oyesola O. Ojewunmi, Abiola B. Bolarinwa & **Adekunle D. Adekile**: Barriers to the use of hydroxyurea in the management of sickle cell disease in Nigeria. Hemoglobin 2019 DOI: 10.1080/03630269.2019.1649278.
2. Olatunya OS, Lanaro C, Longhini AL, Penteado CFF, Fertrin KY, **Adekile A**, Saad STO, Costa FF: Red blood cells microparticles are associated with hemolysis markers may contribute to clinical events among sickle cell disease patients. Annals of Hematology. 2019 DOI10.1007/s00277-019-03792-x.
3. Ojewunmi O, Iwalokun B, Adeyemo T, **Adekile A**; Ayinde O: Current perspectives of Sickle Cell Disease in Nigeria: Changing the narratives. Exp Rev Hemat. 2019 Aug;12(8):609-620.
4. Ndidi US, Adanho SCA, Santiago RP, Yahouédéhou SCMA, Santana SS, Maffili VV, Pitanga TN, Cleverison Alves Fonseca Junia Raquel Dutra Ferreira, Adorno EV, Lyra IM, **Adekile AD**, Barbosa CG, Gonçalves MS: Effect of N(epsilon)-(carboxymethyl)lysine on laboratory parameters and its association with β S haplotype in children with sickle cell anemia. Disease Markers. 2019. doi: 10.1155/2019/1580485.
5. Olatunya OS, de Albuquerque DM, Akanbi GO, Aduayi OS, Taiwo AB, Faboya OA, Kayode TS, Daniela Pinheiro Leonardo DP, **Adekile A**, Costa FF. Uridine Diphosphate Glucuronosyl Transferase 1A (UGT1A1) Promoter Polymorphism in young patients with sickle cell anaemia: report of the first cohort study from Nigeria. BMC Medical Genetics. 2019 Oct 16;20(1):160. doi: 10.1186/s12881-019-0899-3.
6. Asbeutah AM, **Adekile AD**, AlMajran AA, Asbeutah AA, Naief AA, Al-Jafar H. Pattern of renal blood flow and reno-vascular parameters in sickle cell disease adult patients. J Ultra Med. 2019 doi: 10.1002/jum.15158.

7. Hezekiah Isa, Samuel Adegoke, Anazoeze Madu, Abdulaziz Hassan N, Chinatu Ohiaeri, Reuben Chianumba, Biobele Brown, Chide Okocha, Ngozi Ugwu, Ijeoma Diaku-Akinwumi, Titi Adeyemo, Aisha Kuliya-Gwarzo, Livingstone Dogara, Yohanna Tanko, Adama Ladu, Umar Kangiwa, Lilian Ekwem, Seyi Oniyangi, Olaniyi Olanrewaju, Tambi Wakama, Dominic Umoru, Norah Akinola, Uche Nnebe-Agumadu, Samuel Asala, Raphael Zozimus Sangeda, **Adekunle Adekile**, Obiageli Nnodu, John Olaniyi, Haliru Lawal, Victoria Nembaware, Uche Nnebe-Agumadu. Sick Cell Disease Clinical Phenotypes in Nigeria: A Preliminary Analysis of the Sick Pan Africa Research Consortium (SPARCO) -Nigeria Database. Blood Cell Mol Dis. 2019 Sep; 78: 22–28.
8. Olatunya OS, Albuquerque DM, Santos MNN, Kayode TS, **Adekile A**, Costa FF. Haptoglobin Gene Polymorphism in Patients with Sick Cell Anemia: Findings from a Nigerian cohort study. Appl Clin Genet. 2020;13 107–114.
9. Obiageli Eunice Nnodu, Sopekan Alayo, Uchenna Nnebe-Agumadu, Chinatu Ohiaeri, Adeniran Adeyemi, Grace Shedul, Hezekiah Isa, Olumide Owolabi, Reuben Chianumba, Yohana Tanko, Juliet Iyobosah, **Adekunle Adekile**, Olufunmilayo Olopade, Frédéric Piel. Implementing newborn screening for sickle cell disease using point-of-care test- a practical perspective. Lancet Haem. 2020 Jul; 7(7): e534–e540.
10. Dr. Abdulla Kh. Alfraijsi, Dr. Mohammad Alghounaim, Dr. Saadoun Bin-Hasan, Dr. Zaid Al-Harbash, Dr. Khaled Kalandar, Dr. Hashem Al-Hashemi, Dr. Hessa Al-Kandari, **Prof. Khaled Alsaied**. Management of Covid-19 in children. Kuwait, Pediatric task force recommendation; August 10, 2020. Version 1.0.
11. **Mazen Alessa** and **Gursev Dhaunsi**. Selective Receptor-mediated Impairment of Growth Factor Activity in Neonatal- and X-linked Adrenoleukodystrophy Patients. Journal of Pediatric Endocrinology and Metabolism (JPED).
12. **Mazen Alessa** 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 29(4), April 2020.
13. Al-Taiar A, Al-Quood N, **Hammoud MS**, Alanezi F, Aldalmani N, Subhakaran M. World Health Organization Infant and Young Child Feeding Indicators in Relation to Anthropometric Measurements. Public Health Nutr. 2020 Jul; 23(10):1665-1676. doi: 10.1017/S1368980019004634.
14. **Lulu Abushaban**, Babu Uthaman, John Selvan, Mustafa Al-Qabandi, Prem Sharma, Thinakar Vel Mariappa. Long term follow up and outcomes of discrete subaortic stenosis resection in children. Annals of Pediatric Cardiology. 12(3):212-219; 2019.

15. **Lulu Abushaban**, Jebaraj Rathinasamy, Prem N. Sharma, Mariappa Thinakar Vel. Normal reference ranges for the left ventricular mass and left ventricular mass index in preterm infants. *Ann Pediatr Cardiol* 2020; 13(1):25-30.
16. Beaussant-Cohen S, Jaber F, Massaad MJ, Weeks S, Jones J, Alosaimi MF, Wallace J, **Al-Herz W**, Geha RS, Chou J. Combined immunodeficiency in a patient with deficiency of c-Rel. *J Allergy Clin Immunol*. pii: S0091- 6749(19)30614-1, 2019.
17. Bousfiha A, Jeddane L, Picard C, **Al-Herz W**, Ailal F, Chatila T, Cunningham- Rundles C, Etzioni A, Franco JL, Holland SM, Klein C, Morio T, Ochs HD, Oksenhendler E, Puck J, Torgerson TR, Casanova JL, Sullivan KE, Tangye SG. Human Inborn Errors of Immunity: 2019 Update of the IUIS Phenotypical Classification. *J Clin Immunol*. 40(1):66-81, 2020.
18. Tangye SG, **Al-Herz W**, Bousfiha A, Chatila T, Cunningham-Rundles C, Etzioni A, Franco JL, Holland SM, Klein C, Morio T, Ochs HD, Oksenhendler E, Picard C, Puck J, Torgerson TR, Casanova JL, Sullivan KE. Human Inborn Errors of Immunity: 2019 Update on the Classification from the International Union of Immunological Societies Expert Committee. *J Clin Immunol*. 40(1):24-64, 2020.
19. El-Sayed ZA, Abramova I, Aldave JC, **Al-Herz W**, Bezrodnik L, Boukari R, Bousfiha AA, Cancrini C, Condino-Neto A, Dbaiibo G, Derfalvi B, Dogu F, Edgar JDM, Eley B, El-Owaidy RH, Espinosa-Padilla SE, Galal N, Haerynck F, Hanna- Wakim R, Hossny E, Ikinciogullari A, Kamal E, Kanegane H, Kechout N, Lau YL, Morio T, Moschese V, Neves JF, Ouederni M, Paganelli R, Paris K, Pignata C, Plebani A, Qamar FN, Qureshi S, Radhakrishnan N, Rezaei N, Rosario N, Routes J, Sanchez B, Sediva A, Seppanen MR, Serrano EG, Shcherbina A, Singh S, Siniah S, Spadaro G, Tang M, Vinet AM, Volokha A, Sullivan KE. X-linked agammaglobulinemia (XLA): Phenotype, diagnosis, and therapeutic challenges around the world. *World Allergy Organ J*. 22;12(3):100018, 2019.
20. **Al-Herz W**, Essa S. Spectrum of Viral Infections Among Primary Immunodeficient Children: Report from a National Registry. *Front Immunol*. 29;10:1231, 2019.
21. **Al-Herz W**, Al-Ahmad M, Al-Khabaz A, Husain A, Sadek A, Othman Y. The Kuwait National Primary Immunodeficiency Registry 2004-2018. *Front Immunol*. 24;10:1754, 2019.
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25. Mohamed K, **Al-Abdulrazzaq D**, Fayed A, El Busairi E, Al Shawaf F, **Abdul-Rasoul M**, Shaltout AA. J Pediatr Endocrinol Metab. 2019 Aug 27;32(8):843-849. doi: 10.1515/jpem-2019-0009. Fasting during the holy month of Ramadan among older children and adolescents with type 1 diabetes in Kuwait. *J Pediatr Endocrinol Metab*. 2019. PMID: 31318694.
26. Farran B, AlWotayan R, Alkandari H, **Al-Abdulrazzaq D**, Channanath A, Thanaraj TA. Farran B, et al. *Front Endocrinol (Lausanne)*. 2019 Sep 11;10:624. doi: 10.3389/fendo.2019.00624. eCollection 2019. Use of Non-invasive Parameters and Machine-Learning Algorithms for Predicting Future Risk of Type 2 Diabetes: A Retrospective Cohort Study of Health Data from Kuwait. *Front Endocrinol (Lausanne)*. 2019. PMID: 31572303.
27. Hessa Al-Kandari 1, **Dalia Al-Abdulrazzaq**, Lena Davidsson, Prem Sharma, Abeer Al-Tararwa, Fawziya Mandani, Faisal Al-Shawaf , Fatma Al-Hussaini , Mariam Qabazard, Dania Haddad, Maria Al-Mahdi , Fahad Al-Jasser, Ayed Al-Anzi, Hala Al-Sanea, Iman Al-Basari, Afaf Al-Adsani, Azza Shaltout and **Majedah AbdulRasoul**. Incidence of Type 2 Diabetes in Kuwaiti Children and Adolescents: Results From the Childhood-Onset Diabetes Electronic Registry (CODeR). *Frontiers in Endocrinol* 2020; doi:10.3389/fendo.2019.0083.
28. **Rasoul MA**, **Haider MZ**, Al-Mahdi M, Al-Kandari H, Dhaunsi GS (2019). Relationship of four vitamin D receptor gene polymorphisms with type 1 diabetes mellitus susceptibility in Kuwaiti children. *BMC Pediatrics* 19:71 <https://doi.org/10.1186/s12887-019-1448-0>.
29. Electrocardiogram interpretation among pediatricians: Assessing knowledge, attitudes, and practice. **Mohammad A Ebrahim**, Reem K Alsaied, Raghad T Aleinati, Volkan Tuzcu. *Annals in Pediatric Cardiology*.

30. Outcomes of pacemaker implantation in isolated congenital atrioventricular Block. **Mohammad A. Ebrahim**, Haneen O. Alsayegh, Fajer B. Alhamdan, Moustafa A. Elsayed, Vadim G. Lyubomudrov. *Progress in Pediatric Cardiology*.

Papers in Press:

1. **Adekunle Adekile**, Jalaja Sukumaran, Diana Thomas, Thomas D'Souza and Mohammad Haider. Alpha Thalassemia Genotypes in Kuwait. **BMC Medical Genetics**. In Press.
2. 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**. In Press
3. 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**. In Press.
4. **Khaled Alsaeid**, Yosef Uziel, Pamela F. Weiss. Reactive Arthritis. **Pediatrics Rheumatology**. In Press.
5. 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**. In Press.
6. Lena Davidsson, Hessa Al-Kandari, **Dalia Al-Abdulrazzaq**, Fahed Al-Jasser, Fahad Al-Mulla. Rabson-Mendenhall Syndrome in a brother-sister pair in Kuwait Diagnosis and 5 year follow up. In Primary Care Diabetes. In Press.
7. **Maysoun Al-Rushood** & **Amal Al-Eisa**. Factors predicting Students' performance in final Pediatrics OSCE. Accepted in PLOS One, June 2020. In Press.

CONTRIBUTIONS:

Dr. Wafa'a Al Qabandi:

Academic Teaching:

- Teaching 6th year Medical students during their pediatric clinical rotation in Al Amiri Hospital.
- Phase 111 PBL: 6th year Medical students (Block 3: 3 PBLs; Block 2: 3; Block 3: 2).

- MSD: A coordinator of one pediatric medical school day (MSD) for 6th year Medical students in November 5th 2019 (Gastrointestinal problems in children).
- Phase II PBL: 4th year medical students (Digestive Module) on January 26th-February 20th 2020.

Exams:

Students' exams:

- Participated in correcting the final exam of Phase 11 (4th year) Medical students in May 5th, 2019.
- Participated in invigilating the final written exam of Phase 111 (6th year) Medical students in May 30th, 2019.
- Participated in the final OSCE exam of Phase 111 (6th year) Medical students in June 17-18th, 2019.

Post graduate exams:

- Participated as an Examiner for KIMS Pediatric Final Exam on September 23rd, 2019.

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:

- Oral presentation: "Acute liver failure: Update", presented in the 5th Holistic View to the Future Conference on April 12-14th, 2019, Kuwait.

Courses/Workshops attended:

- "EndNote course", held on March 17th, 2019 in the Faculty of Medicine, Kuwait.
- "Curriculum Workshop", held on March 31st-April 3rd, 2019, Faculty of Medicine, Kuwait.
- "Training the MRCPCCH Examiners" Course, held on May 2nd, 2019, Dubai, UAE.
- "Metabolic Made Easy", held on October 12-13th, 2019, Kuwait.
- "2019 Kuwait Gastroenterology Association Master Class: Emergencies in GI, Hepatology and Endoscopy", held on November 30th, 2019, Kuwait.
- "Familial Cholestasis: Past, Present and Future", held on December 12th, 2019, Riyadh, Saudi Arabia.

Missions & Conferences:

- “ESPGHAN Monothematic Conference: Acute Liver Failure”, held on January 30th-February 1st, 2020 in Athens, Greece.

Contribution to Committees/Posts in the Faculty of Medicine:

- The head of the teaching committee in the Department of Pediatrics from April-June 2019.
- A member of the scholarship committee in the Department of Pediatrics from April-June 2019.
- Acting Chairperson of Department of Pediatrics: June 23-26th, 2019
- Chairperson-Department of Pediatrics: starting June 27th, 2019.

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.

Contribution to Committees outside the Faculty:

- 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 Hemochromatosis gene (HFE gene) mutations by multiplex PCR.
- Detection of common mutations in beta-globin gene in Beta-Thal patients.

Teaching

Undergraduate

- Phase-II: (4th year MD students) PBL-Facilitator.
- Phase-III: PBL-Facilitator in “Pediatrics” (6th 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

Participation in conferences

- Pediatric Academic Societies Meeting, USA, 24th April 2019-1st May 2019.
- 8th AfME Hemophilia and Sickle Cell Disease Summit. April 12th & 13th, 2019. Dubai, UAE. Presented paper on SCD Phenotypes in the Gulf. Lessons from the Kuwait National Registry
- 12th SIOP-Asia Conference. Abu Dhabi, UAE. 3rd – 6th April 2019. Presented paper on SCD Phenotypes in the Gulf

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.

Missions:

- Pediatric Academic Societies Meeting. Baltimore, USA, 24th -1st May 2019.
- Neonatal Update 2019, London, 25th - 29th November 2019.
- The American College of Rheumatology's 2019 Annual Meeting, Atlanta-USA, 8th -13th November 2019.

Prof. Mohammad Z. Haider:

Participation in Ministry of Health activities:

None

Teaching

Undergraduate

- Phase-II: (3rd year MD students) PBL-Facilitator.
- Phase-II: (4th year MD students) PBL-Facilitator.
- Phase-III: PBL-Facilitator in "Pediatrics" (6th Year MD students).

Postgraduate

1. 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

2. Member, Examinations Committee: For Course No. 540-562 “Molecular Biology & Biotechnology” (MSc, Medical Biochemistry Program, Faculty of Medicine).

Advisory Editor Services/Membership of Journal Editorial Boards

- Associate Editor (Genetics and congenital disorders): BMC Pediatrics.
- 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.
- Member, Editorial Board: Medical Principles and Practice.

Service as Referee/Reviewer for Journals/Funding bodies

- Served as Reviewer for Research Sector, Kuwait University (for several projects).
- Served as Reviewer: for Kuwait Medical Journal.
- Served as Reviewer: for a 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 Archives of Physiology & Biochemistry.
- Served as Reviewer: for the journal Endocrine connections.
- Served as Reviewer: for the journal Molecular Biology Reports.
- Served as Reviewer: for the journal Annals of Translational Medicine.

Participation in conferences

- Annual Meeting of the American Society of Human Genetics; 15-19 October 2019, Houston, TX, USA.

Abstracts/Posters/Conference papers

- Al-Eisa AA, Al-Rashoud M, **Haider MZ**. “*Interleukin-4 gene polymorphism in Kuwaiti Children with idiopathic nephrotic syndrome*”. Presented at EAP-2019 (European Academy of Pediatrics Congress and MetaCourse – 2019); 19-22 September 2019 at Porto, Portugal.

- **Haider M**, Al-Awadhi AM (2020) Association of protein tyrosine phosphatase non-receptor type 22 gene functional variant (C1858T) with genetic susceptibility of psoriatic arthritis in Kuwaiti Arabs. PgmNr 1967: American Society of Human Genetics Annual Meeting, 15-19 October 2019, Houston, TX, USA.

Services as External Examiner:

- Convener: Two Thesis Examination Committees, for MSc. (Molecular Biology), College of Graduate Studies, Kuwait University (Fall semester 2019 and Spring semester 2020).
- Member: Thesis Examination Committee, MSc. (Molecular Biology), College of Graduate Studies, Kuwait University (Fall semester 2019).

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)

For Faculty of Medicine:

- Member: Medical Research Committee, (MRC, September 2013-date).
- Member: Faculty Committee for Distinguished and Best Young Researcher Awards (December 2019).
- Chairman: Promotion Review Committee, Department of Biochemistry (January 2020)
- Member: Faculty Committee for Appointments and contract renewal of academic staff (2018-2020).

For Faculty of Allied Health Sciences:

- Member: Promotion Review Committee, (2019-2020).

For Department of Pediatrics:

- Coordinator, Committee for Finance and Budget.
- Acting Chairman of the Department, (twice during the academic year).

Membership of Professional Societies:

- Member, American Society of Human Genetics
- Member, Cambridge University Alumni Network
- Member, Kuwait University Faculty Association.

Training Courses attended

- A workshop on the use of online resources conducted for Graduate Program Directors by the College of Graduate Studies (2nd February 2020).
- Attended several training sessions on the use of MS-Teams for Distance/E-Learning, organized by Kuwait University (June/July 2020).
- Attended a workshop organized by Kuwait University on the use of Blackboard for teaching from (June-July 2020).

Prof. Amal Al-Eisa:

Sabbatical leave- 17th September 2018 for 1 year

Teaching activities:

Undergraduate:

- Phase-III: PBL-Facilitator in “Pediatrics” (Three groups of 6th Year medical students).
- Tutorial in Clinical Pediatrics for 6th year students
- Examiner for Undergraduate and Postgraduate students in Pediatrics

Postgraduate:

- Examiner-Membership of the Royal College of Child health and Pediatrics MRCPCH–UK

Advisory review services for professional journals

- Reviewer for Kuwait Medical Journal
- Reviewer for Pediatric Nephrology 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:

- Member of Distinguished Teaching Award Committee-Kuwait University
- Member of Curriculum Committee- Faculty of Allied Health

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

Missions:

- European Academic Pediatric Society meeting, Porto-Portugal, September 14-18th, 2019
- The American Society Nephrology Kidney Week 2019, Washington, DC-USA,

5th -11th November 2019

- 18th Congress of the International Pediatric Nephrology Association, Venice-Italy, 17th – 21st October 2019

Presentations & Publications:

- **Amal Al-Eisa**, Maysoun Al-Rushood & MZ Haider: IL-4 gene polymorphism in Children with Idiopathic Nephrotic Syndrome -European Academic Pediatric Society meeting, Porto-Portugal, Sept 14-18th, 2019.
- Maysoun Al-Rushood, **Amal Al-Eisa** & MZ Haider: IL-13 gene polymorphism in Children with Idiopathic Nephrotic Syndrome in Kuwait -EAACI Digital congress 2020-London, 6-8 June, 2020.

Prof. Gursev Dhaunsi:

Contributions:

As Consultant in Clinical Biochemistry Unit of Muabrak Al-Kabeer Hospital, provided Clinical diagnostic service for various inherited metabolic disorders that include amino acid disorders, lysosomal storage diseases, peroxisomal diseases and congenital disorders of glycosylation.

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:

- Faculty Seminar Coordinator
- Member, Department Committee of Research and Development
- Member, Departmental Budget and Purchasing Committee
- Departmental Research Coordinator and Faculty Scientific Affairs Representative
- Member of the Joint Committee of Health Science Center (HSC) for the Protection of Human Subjects in Research.

Missions:

- PAN Arab Human Genetics Conference, Dubai-UAE, 19th -20th January 2020
- Gordon Research Conference, Galveston, TX, USA, 5th 10th January 2020.
- Inflammasome Therapeutics Summit, Boston, MA, USA, 29th -31st October 2019.
- Human Genetics and Genomics, Gordon Research Conference, Waterville Valley, NH, USA, 7th – 12th July 2019

Dr. Mazen Al-Essa:**Undergraduate Teaching:**

- Phase 2 medical students (PBL)
- Phase 3 medical students, bed side teaching and PBL
- Medical school day for 6th year medical students (Pediatric Emergency).
- Examiner for the Undergraduate Pediatric 6th year students

University and Community Activities:

- Member of the Teaching Committee in the Department of Pediatrics.
- Member of the Kuwait Pediatric Association.
- Member of the editorial board of Kuwait Medical Journal.
- Member of the Scientific and Research committee at Maternity Hospital, Kuwait.
- Member of the Medical Records committee at Maternity Hospital, Kuwait.
- Member of the postgraduate Pediatric scholarship committee of the Faculty of Medicine, Kuwait University.

Missions:

- Miami Neonatology 2019, Miami-USA, 10th -13th November, 2019.
- Pediatric Academic Societies Meeting, 24th April 2019- 1st May 2019.

Services:

I am an attending consultant in the neonatal unit at Maternity Hospital doing 2 clinical rounds every week. In addition, doing an outpatient service at Amiri Hospital as a follow up clinic for the graduates of the preterm infants and follow the asthmatic children in addition to other varieties of cases.

Dr. Majeda Hammoud:**Teaching:**

- Having a full teaching load (Clinical, Bedside teaching and Didactic lectures together with the PBL sessions and the MSD).

University and Community activities:

- 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.
- Member of the Teaching Committee in the Faculty of Medicine, Department of Pediatrics
- Year 6 Coordinator for the clinical rotation in Pediatrics, Phase 111 Faculty of Medicine, Kuwait University
- Reviewer for Kuwait Medical Journal(KMJ) to revise the papers related to Pediatrics (Neonatology)
- Coordinator of the Pediatrics PBL Program in the Department of Pediatric, Faculty of Medicine
- Coordinator of the Medical school days of Phase 111 of the new Curriculum in the Department of Pediatric, Faculty of Medicine
- Facilitating PBL sessions “Phase II” “new curriculum”
- Member of the organizers for 25th HSC Poster Conference 2019-2020.

Conferences Attended:

- 27th International Conference on Clinical Pediatrics, Berlin-Germany, 10-12th June 2019.
- Global summit on Health care and Nutrition, Melbourne, Australia 7th-8th November 2019.

Peer review services:

- Infection and Drug Resistance
- BMC Pediatrics
- Journal of Neonatal care (JNC)
- Medical Principles and Practice (MPP)
- Kuwait Medical Journal (KMJ)
- Journal of Clinical Epidemiology
- Sultan Qaboos University Medical Journal
- Member of the Editorial Board of Pediatrics & Neonatal Biology Journal

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.

Missions:

- BSC and Mayo Clinic Cardiology Review Course 2020. London-UK, 2nd -6th March 2020.
- 4th Annual Advances in Pediatric and Congenital Heart Summit. Ohio- USA, 17th -19th October 2019.

- Heart Rhythm Congress, Birmingham-UK, 6th -9th October 2019.

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 6th 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 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.

Community Level:

Committee membership:

- 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

- 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

For Health Science Center, Kuwait University

- Teaching Course, Medical Education Postgraduate Course, Certificate. Diploma, Centre for Medical Education-Dundee University (UK) held in Kuwait University, Kuwait.
Statistics Course. FOM, Kuwait.
- Teaching Excellence Workshops, organized by the Center for Teaching Excellence (CTE), Kuwait University.
- Second Medical Educational Workshop
Live Simulation and its role in Teaching and Assessment

Missions:

- International Conference on Pediatric Allergy and Clinical Immunology, London-United Kingdom, 20th -21st January 2020.
- American Academy of Pediatrics 2019 National Conference, New Orleans-USA, 25th -29th October 2019.
- The American Conference on Advanced Treatments in Rare Diseases, 13th -14th June 2019.

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 6th 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

Missions:

- Updates in Clinical Endocrinology 2019. 11th -12th April 2019, New York-USA.

Dr. Entesar Husain: From 1st April 2019-September 2019 on Medical leave

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

Faculty Seminar, Faculty of Medicine:

- The Kuwait National Primary Immunodeficiency Registry.

Active participation conferences:

- International Primary Immunodeficiencies Congress. 6th -8th November 2019, Madrid, Spain.
- 1st Immunology Symposium & Workshops Targeting Primary Immunodeficiency. 8th -12th December 2019, Dammam, KSA.

Dr. Dalia Al-Abdulrazzaq

Participation in Ministry/Government activities

- Teaching
- KIMS Pediatrics Board Academic half day lecture on growth
- Service Diagnostic
- Clinical: Seconded to Pediatric Department at Mubarak Al-Kabeer Hospital.

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

Contribution to committees outside the Faculty:

- MOH committee on Adolescent care

Dr. Majedah Abdul Rasoul

Participation in Ministry/Government activities:

- The department Council, Department of Pediatrics, Adan hospital: Member
- Ethical Board Committee at Dasman Diabetes Institute: Member
- Insulin Pump Committee: Member

Teaching

Undergraduate:

- Phase III teaching: Facilitator PBL modules (6th year BMBSc students)
- Tutorials: 6th year students

Postgraduate:

- KIMS Pediatric Board students
- Lectures
- Small group clinical teaching

Services as referee/ reviewer:

- Reviewer of 40 abstracts for the ISPAD and ESPE Conference, September 2019

Active participation conferences and posters:

- Novo Nordisk, Global Obesity Paediatric Advisory Board meeting. 19th – 20th November 2019, Copenhagen, Denmark.

Contribution to committees outside the Faculty:

- Ethical Review Committee member: Dasman Diabetes Institute
- Insulin Pump Committee member: Ministry of Health

Guest Editor:

- International Journal of diabetes

Membership of Professional Societies:

- International Society for Pediatric and Adolescent Diabetes – ISPAD
- European Society for Pediatric Endocrinology – ESPE
- Reviewing Abstracts for the Annual Scientific Meeting 2014
- Kuwait Medical Society – KMS
- Kuwait Diabetes Society – KDS

Services:

- Consultant Pediatric Endocrinology in the Department of Pediatrics in Adan Hospital. I do daily clinical rounds for our in-patients, run 2 clinics /week (diabetes) at the hospital. I take on call duties 7-10 nights per month.

Dr. Maysoun Al-Rushood:**Participation in Ministry of Health services:****Service Diagnosis:**

- Consultation Allergist and Clinical Immunologist in Mubarak Al Kabir Hospital
- Inpatient Consultation
- PICU Patient Consultation
- Allergy and Clinical Immunology Outpatient Clinic Service.

Undergraduate Medical students Teaching:

- Bedside Teaching for 6th year Medical Students

- PBL facilitator: 6th year Medical Students
- MSD Organizer: 6th year Medical students
- Exam Questions Preparation: 6th Year
- Exam maker: Phase II and III
- Coordinator of Pediatric Orientation day: History taking for Clinicians
- PBL facilitator (phase II): Infection and Immunity Module

Postgraduate Teaching:

- Kuwait Board of Pediatrics (clinical tutor/invited examiner)

Service as a Reviewer:

- Invited Reviewer:
- Cytokine
- Annals of Allergy, Asthma & Immunology
- BMC Pediatrics
- BMC Medical Education
- Dubai Medical Journal

Contribution to Committees in The Faculty of Medicine:

The following committees in the department of Pediatrics:

- Staff-Student Co-ordination Faculty Committee: member

Contribution to Committees outside the Faculty of Medicine:

Member of the following committees in Mubarak Al-Kabir Hospital

- Antibiotic Policy Review Committee
- Myths and facts in Allergy: Presented to the Pediatric department in Mubarak Al-Kabir Hospital

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.
- Head of Pediatric Stress Lab

Teaching:**Undergraduate:**

- Phase-III: PBL-Facilitator in “Pediatrics” (6th Year MD students).
- In hospital teaching for 6th year Medical students.

Postgraduate:

- Teaching ECG sessions for KIMS Pediatric residents.
- Teaching pediatric cardiology physicians at Chest Disease Hospital including online sessions and post recorded conferences on YouTube channel.

Participation in conferences:

- Abbott IEPC Pediatric and Congenital Module for Arrhythmia Conference: Barcelona Experience, 06-07 June 2019.
- Young Electrophysiology Academy: Hamburg, November 13-15, 2019
- Cardioneuroablation workshop: Turkey, February 11-13, 2020

Contribution to committees outside the Faculty:

- Chest Disease Hospital Safety and Risk management

Note:

Kuwait University was officially locked down including Faculty of Medicine in March 2020 due to Covid-19 Pandemic. Therefore, no academic or non academic services were conducted during that month.

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

Professor and Chairman [Till February 2020]

Dr. Olusegun Ademola Mojiminiyi, MBBS, D.Phil, FRCPATH; EuSpLM; FACB
[Clinical Biochemistry] [Resigned]

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, FRCPath, FAMS, FICPath

[Cytopathology]

Associate Professors

Dr. Dilip K. Das, MBBS, MD, PhD, D.Sc, FRCPath, MIAC, MAMS, FICPath

[Cytopathology] [Resigned]

Dr. Mohamed A. Elfawal, MBCh, 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, EBPPath

[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. Sheikha Muharab, BM BCh, FRCPath

[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. Mrinmay Kumar Mallik, MBBS, MD

[Cytopathology]

Dr. Nabeel Al-Brahim, BM BCh, FRCP(C), FCAP

[Histopathology]

Dr. Rana Abdulghani

[Histopathology]

Dr. Mohamed EssamEldin Abdul-Aziz El-Sheikh, MD

[Forensic Medicine]

Dr. Dr. Noura Ali Al-Omar

[Forensic Medicine]

Dr. Tawfik Hassan Tawfik
[Forensic Medicine]

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. Reem Al-Shammari – Failed the Qualifying Exam Twice
2. 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. Leela Kurian, B.Sc.
[Chief Technician] [Resigned]
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]
Ms. Sheela Harish Chandran , B.Sc.

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

1. Prof. Olusegun Ademola Mojiminiyi – [Clinical Chemistry]
2. Dr. Dilip K. Das – [Cytopathology]

Non-Academic

Ms. Leela Suresh Kurian., BSc – [Chief Technician]

4. Sabbatical
Dr. Salah Al-Humood [1-3-2019-13.2.20)
Prof. Fahd Al-Mulla [Scientific academic leave]
Dr. Abeer Adballah [Leave of Absence]

TEACHING IN THE DEPARTMENT PROGRAM

Faculty of Medicine

a. **Phase II (2nd, 3rd & 4th) teaching:**

Lectures	:	112
Tutorial	:	20
Practical	:	<u>80</u>

Total hours given to
Students per year : 209

No. of Students : 149- 2nd: 142- 3rd: 141- 4th:

Overall Coordinator : Dr. Issam Francis

b. **Phase III (5th, 6th & 7th):**

Total hours given to

Students per year : 58

Course Coordinator : Dr. Dilip K. Das

c. **Graduate Teaching (M.Sc)**

Lectures : 68 hours

Practicals : 68 hours

Total teaching hours per year: 136 hours

Program Director : Prof. Kusum Kapila

Course Coordinators:

Basic Laboratory Medicine 502 : Dr. Rabeah Al-Temaimi

Immunopathology 506 : Dr. Salah Al-Waheeb

Diagnostic Cancer Research 507 : Dr. Rola Ali

Biology of Disease 501 : Dr. Dilip K. Das

Experimental Cancer Research 508 : Dr. Dilip K. Das

Advanced Lab Medicine III 505 : Dr. Rajaa Marouf

Applied Cell Biology 522 : Dr. Maamoun Al-Aynati

Systemic Pathology 521 : Prof. Kusum Kapila

Advanced Lab Medicine I 503 : Dr. Issam Francis

Study and Diagnosis of Human
Pathologies with Primary Genetic

Techniques 511 : Dr. Rabeah Al-Temaimi

Recent Advances in Related

Research Topics 516 : Thesis Supervisor

Thesis Supervision : Dr. O.A. Mojiminiyi
Dr. Abeer El Abdullah

d. **Postgraduate teaching (PhD):**

Molecular Pathology of Cancer	:	Dr. Bushra Al-Ayadhy
Molecular Pathology	:	Dr. Bushra Al-Ayadhy
Experimental Pathology	:	Dr. Issam Francis
Clinical Chemistry at the Extremes of Life:		Prof. O. A. Mojiminiyi
Metabolic Diseases	:	Prof. O. A. Mojiminiyi
Program Director	:	Prof. Kusum Kapila

e. Postgraduate teaching (FRCPath)

Training Units	Seminars/tutorials	Practicals/bedside teaching
Histopathology	200 hrs/year	800 hrs/year
Clinical Chemistry	200 „	800 „
Haematology	200 „	800 „

Heads of Training Unit:

Dr. Rajaa Marouf : Haematology

II. Other Faculties

Nil

III. Student Advisors

Student Advisors	No. of Students
Dr. K. Kapila	5
Dr. D.K. Das	5
Dr. Issam Francis	5
Dr. O.A. Mojiminiyi	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-Taiaar
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 : Ongoing
P.I : Dr. Abeer Al-Abdullah
CoI : Dr. Kusum Kapila

Dr. Rajaa Marouf

Title : Biomarkers of Sick 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 : Ongoing
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 : The Associations of Genetic Variants in the Vitamin D Metabolic Pathway with Vitamin D Deficiency and Peripheral Neuropathy in Subjects with Type 2 Diabetes Mellitus

Funding: Funded

Status : Terminated

P.I : O. A. Mojiminiyi

Co-I : Rabeah Al-Temaimi, Dia Shehab, Ahmed Al-Serri, Nabila Abdella

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

Dr. Ahmad Al-Serri

Title : The Associations of Genetic Variants in the Vitamin D Metabolic Pathway with Vitamin D Deficiency and Peripheral Neuropathy in Subjects with Type 2 Diabetes Mellitus

Funding: Funded

Status : Terminated

P.I : O. A. Mojiminiyi

Co-I : Rabeah Al-Temaimi, Dia Shehab, Ahmed Al-Serri, Nabila Abdella

Duration: 2018-2021

Dr Abeer Al-Abdallah

MSc research project- Supervisor: Micro-RNA-146b-5p modulation of the cellular stress response in papillary thyroid cancer. Funded by research sector, project # YM 03/18, and the college of graduate studies.

MSc student: Miss Bashayer Mohsen

Supervisor/Co-supervisor: Dr Abeer Al-Abdallah/ Prof Kusum Kapila

Dr. Dalal Al-Mutairi

Title : Studying the genetics of congenital thoracic anomalies in consanguineous Kuwaiti families caused by cilia dysfunction
Funding: Funded
Status : Ongoing
P.I : Dr. Dalal Al-Mutairi
Co-I : Dr. Basel Al-Sabah, Dr. Bushar Al-Khaldi

Un-Funded

Dr. Kusum Kapila

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 : Endoscopic ultrasound guided fine needle aspiration cytology of Pancreatic Adenocarcinoma

Funding : Unfunded

Status : Ongoing

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 : 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

Dr. Dalal Mulla Ali:

Funding: Unfunded

Status : On going

P.I : Dalal Mulla-Ali

Co- I : Hanan Al Wazan

2. Publications

Dr. Kusum Kapila

1. Qadan L, Ahmad A, **Kapila K**. Thyroid Ultrasound Reports: Deficiencies and Recommendations. Med Princ Pract. 2019; 28:280-283.
2. Francis IM, AlTemaime RA, Al-Ayadhy B, Alath P, Jaragh M, Mothafar FJ, **Kapila K**. hormone receptors and human epidermal growth factor (HER2) expression in fine-needle aspirates from metastatic breast carcinoma-Role in patient management. J Cytol 2019; 36:94-100.
3. Francis I, Alabdali N, **Kapila K**, John B, Al-Temaime RA. Vitamin D pathway related polymorphisms and vitamin D receptor expression in breast cancer. Int J Vitam Nutr Res 2019, 1-9.
4. Mallik MK, Qadan LR, Al Naseer A, AlAli A, Al Ansari T, Naquib SAI, Das DK, **Kapila K**. 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. Cytopathology. 2020; 00:1-8.

Dr. O. A. Mojiminiyi

- Al-Abdallah A, Jahanbani I, Mehdawi H, Ali RH, Al-Brahim N, **Mojiminiyi O**, Junaid TA. Downregulation of the human major histocompatibility complex class I chain-related gene A (MICA) and its receptor is mediated by microRNA-146b-5p and is a potential mechanism of immunoediting in papillary thyroid carcinoma. Exp Mol Pathol. 2020 Apr;113:104379. doi: 10.1016/j.yexmp.2020.104379.
- Al-Abdallah A, Jahanbani I, Mehdawi H, Ali RH, Al-Brahim N, **Mojiminiyi O**. The stress-activated protein kinase pathway and the expression of stanniocalcin-1 are regulated by miR-146b-5p in papillary thyroid carcinogenesis. Cancer Biol Ther. 2020 May 3;21(5):412-423. doi: 10.1080/15384047.2020.1721250.

- Rajaa Marouf, Adekunle Adekile, Hadeel El Muzaini, Rasha Abdulla and **Olusegun Mojimini**. Neutrophil gelatinase- associated lipocalin (NGAL) as a marker of crisis nephropathy in sickle cell disease. Submitted for publication in 2020.

Dr. Issam Francis

- Slava Malatiali, **Issam Francis**, Musleeha Chesor, Gavin Welsh, Moin Saleem, Mario BaracNieto1. Immune Reactive Ezrin Surface Area Increases in Glomerular Podocytes of STZ Diabetic Rats Precede Their Detachment, Is Prevented by Phlorizin But Not by Insulin. January 2020, Journal of Diabetes Mellitus, 10(02):27-40 2.
- **Issam Francis**, Noora AlAbdali, KusumKapila, Bency John, Rabeah Abbas AlTemaimi. Vitamin D pathway related polymorphisms and vitamin D receptor expression in breast cancer.
- **Francis IM**, Altemaimi RA, Al-Ayadhy B, Alath P, Jaragh M, Mothafar FJ, Kapila K.J Hormone Receptors and Human Epidermal Growth Factor (HER2) Expression in Fine-Needle Aspirates from Metastatic Breast Carcinoma - Role in Patient Management. Cytol. 2019 Apr-Jun;36(2):94100. doi: 10.4103/JOC.JOC_117_18.
- Balakrishnan M, George SA, Haji BE, **Francis I**. Fine-needle Aspiration Cytology of Mammary Analog Secretory Carcinoma of the Parotid Gland: A Diagnostic Cytol. 2019 Oct-Dec;36(4):215216.
- George SA, **Francis I**. Pathology of Resin-Induced Gastrointestinal Damage: Report of 15 Cases and Review of Literature. Turk Patoloji Derg. 2019;35(3):221-227.

Dr. Rajaa Marouf

- **Rajaa Marouf**, Adekunle Adekile, Hadeel El Muzaini, Rasha Abdulla and Olusegun Mojimini. Neutrophil gelatinase- associated lipocalin (NGAL) as a marker of crisis nephropathy in sickle cell disease. Submitted for publication in 2020.
- Anwar Al Awadhi, Adekunle, **Rajaa Marouf**. The relationship of thrombospondin-1 to von Willebrand Factor and ADAMTS-13 in sickle cell disease patients of Arab ethnicity. Accepted for publication in Acta Hematologica
- Adekile A, **Marouf R**: The Sub-Phenotypes of Sickle Cell Disease in Kuwait. Accepted in Hemoglobin 2019.

Dr. Rola Ali

- Al-Abdallah A, Jahanbani I, Mehdawi H, **Ali RH**, Al-Brahim N, Mojiminiyi O, Junaid TA. Downregulation of the human major histocompatibility complex class I chain-related gene A (MICA) and its receptor is mediated by microRNA-146b-5p and is a potential mechanism of immunoediting in papillary thyroid carcinoma. Exp Mol Pathol. 2020 Apr;113:104379. doi: 10.1016/j.yexmp.2020.104379.
- Schaumberg AJ, Juarez-Nicanor WC, Choudhury SJ, Pastroán 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.

- Al-Abdallah A, Jahanbani I, Mehdawi H, **Ali RH**, Al-Brahim N, Mojiminiyi O. The stress-activated protein kinase pathway and the expression of stanniocalcin-1 are regulated by miR-146b-5p in papillary thyroid carcinogenesis. *Cancer Biol Ther*. 2020 May 3;21(5):412-423. doi: 10.1080/15384047.2020.1721250.

Dr. Salah Al-Waheeb

- Patterns of Suicide in Kuwait from 2014-2018. *Public health* . 2020 Aug 28;187:1-7. doi: 10.1016/j.puhe.2020.07.032. Online ahead of print.

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
- Al-Kandari F, **Al-Temaimi R**, van Vilet AHM, Woodward MJ. Thymol tolerance in *Escherichia coli* induces morphological, metabolic and genetic changes. *BMC Microbiology*. 19:294, 2019. PMID: 31842755
- Al-Serri A, Alroughani R, **Al-Temaimi R**. The FTO gene polymorphism rs9939609 is associated with obesity and disability in multiple sclerosis patients. *Scientific Reports*. 2019 Dec 13;9(1):19071. PMID: 31836807
- Dashti M, Alroughani R, Jacob S, **Al-Temaimi R**. Leptin rs7799039 polymorphism is associated with multiple sclerosis risk in Kuwait. *Multiple Sclerosis and Related Disorders*. 2019 Sep 24;36:101409. PMID: 31563075
- 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
- Francis I, AlAbdali N, Kapila K, John B, **Al-Temaimi RA**. Vitamin D pathway related polymorphisms and vitamin D receptor expression in breast cancer. *International Journal of Vitamin and Nutrition Research*. 2019 Oct 18;1-9. PMID: 31623531

Dr. Ahmad Al-Serri

- Al-Serri A, Alroughani R, **Al-Temaimi R**. The FTO gene polymorphism rs9939609 is associated with obesity and disability in multiple sclerosis patients. *Scientific Reports*. 2019 Dec 13;9(1):19071. PMID: 31836807

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. O. A. Mojiminiyi

- Head of Unit, Clinical Biochemistry Laboratory, Mubarak Hospital
- Consultant in Clinical Biochemistry and Metabolism, Mubarak Hospital
- Consultant in the Lipid Clinic, Mubarak Hospital.
- Lectures and tutorials to Residents in Clinical Biochemistry, and Ministry of Health
- I teach the FRCPath/KIMS Board trainees in Clinical Biochemistry, Haematology and Immunology

Dr. Issam Francis

- Head of Histopathology Unit, Mubarak Al Kabeer H.
- Consultant Histopathology Kuwait Institute for Medical Specialization (KIMS)
- Tutor, Pathology Residency Program

Dr. Dilip K. Das

- Teaching of undergraduate and graduate students in the Faculty of Medicine, Kuwait University and Mubarak Al-Kabeer Hospital, Kuwait.
- Diagnostic services as consultant cytopathologist in Mubarak Al-Kabeer Hospital.

Dr. Rajaa Marouf

- Head of Hematology Unit, Mubarak Al Kabeer Hospital
- Member of Laboratory Council Committee, Medical Laboratories, Mubarak Al Kabeer Hospital (2006-Date).
- Participant in the training program that is run by the ministry for technical staff.

Dr. Rola Ali

- Secondment to the Cytogenetics Laboratory at Kuwait Cancer Control Center
- Faculty of Postgraduate Residency Program for Anatomic Pathology, Kuwait Institute for Medical Specialization (KIMS)

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. 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

- Member, Editorial Advisory Board of Cytopathology (Official Journal of British Society for Clinical Cytology)
- Member, Editorial Advisory Board of Acta Cytologica
- 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. Rola Ali

- Peer review for Medical Principles and Practice journal and occasionally 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. Dalal Al-Mutairi

- Scientific advisory board member of World Pathology Conference (WPC)

d. Participation in Professional Conferences

Dr. Kusum Kapila

- Scientific Symposium for Prof. Torill Sauer, Akershus University Hospital, University of Oslo, Oslo, Norway, August 20-22, 2019.
- Beijing Hospital Cytopathology Forum and Training Course, Dong Cheng District, Beijing 100730, China, October 18-23, 2019.

Dr. Rajaa Marouf

- Hemostasis conference, Kuwait, Jan 2019. Chaired a session.
- Hemophilia conference, Kuwait, Jan 2020. Chaired a session.

Dr. Salah Al-Waheeb

- Participated in KCCC-Cleveland Clinic pathology conference January 2020 as session chair.

Dr. Rabeah Al-Temaimi

- Oral presentation/workshop “How to write a research paper.” KUMSA Research and Innovation Conference, January 30-31, 2020. Kuwait.

Dr. Dalal Al-Mutairi

- Poster presentation – “Identification of a novel mutation in C11orf70 gene in Muliplex Kuwaiti family with severe chronic respiratory symptoms and randomization of

left/right body asymmetry”. Association for Molecular Pathology (AMP) Europe 2020 Congree; In conjunction with the 35th Congress of the Italian Society of Pathology and Translational Medicine (SIPMeT), 11-13 May 2020, NH Milano Congress Centre, Milan, Italy.

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

- Chairperson, 24th HSC Poster Conference 2019.
- 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.
- Member, Departmental Appointment and Contract Renewal Committee
- Member, Departmental Scholarship Committee
- Acting Chairperson, Department of Pathology on several occasions.

Dr. O. A. Mojiminiyi

- Chairman, Department of Pathology, Faculty of Medicine
- Convener, Appointments, Promotions and Contract renewal and Scholarship Committee
- Member of Mentoring Committee
- **Contributions to Teaching :** I gave several undergraduate and postgraduate lectures and tutorials. I also teach the FRCPath/KIMS Board trainees in Clinical Biochemistry, Haematology and Immunology.

Dr. Issam Francis

Faculty of Medicine

- Member, Examination committee, Phase III Teaching Program
- Head of the Electron Microscopy Unit
- Member, PBL Coordination Group

Kuwait University:

- Academic teacher, College of Graduate Studies

Pathology Department:

- Acting Chairman, Department of Pathology
- Head of Histopathology Unit
- Member, Appointment and Promotion Committee
- Member, Graduate Programme Committee
- Member, Academic Staff) 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)
- **Outside Kuwait: Arab Board of Medical Specialization:**
- Chairman, Examination Committee, Arab Board of Pathology
- Member, Evaluation and Standardization Committee

Dr. Rajaa Marouf

- MSc Hematology course coordinator
- Appointments, Promotions and Contract Renewal (Academic & Non-Academic Staff) and Scholarship committee.
- Mentoring and New Staff Orientation Committee
- Convener, Resources and Appropriation committee

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 :** I gave several undergraduate and postgraduate lectures.

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)
- Coordinator, PBL for phase II, starting 2019-2020 (issued 18.6.2019 by Vice Dean Academic)
- Chairperson, Staff-Student Consultative Committee, starting 2018-2019 (issued by Dean's Executive Committee)
- Member, Examination Committee for Phase II, Sep 2016 to present (issued by Dean's Executive Committee)
- Academic Accreditation Liaison Officer, starting 2019-2020
- PBL Facilitator, Nervous Module, 8.9.2019 to 7.11.2019
- PBL Facilitator, Renal Module, 11.11.2019 to 12.12.2019
- Convenor, Pathology Department Accreditation Committee
- Convenor, Library and Museum Committee
- Assistant 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.

Dr. Bushra Al-Ayadhy

- Member of departmental Academic Affairs Committee
- 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

Dr. Rabeah Al-Temaimi

- Tenders and equipment maintenance committee (Member)
- Scientific affairs and research projects review committee (Member)
- Shared Facilities Laboratories Management Committee (Director/Convener)

Dr. Ahmad Al-Serri

- Faculty council member representing Assistant Professors, MSc and PhD programs in Pathology.
- Member Graduate program committee

Dr. Salah Al-Waheeb

- Member of Library and Museum Committee, Department of Pathology
- Member of Tenders and Equipment Maintenance Committee

Dr. Lama Al-Faris

- Academic Affairs Committee (Assistance OSPE Co-ordinator)
- 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
- Academic secretary, Pathology department

g. Contributions to committees outside the Faculty

Dr. Kusum Kapila

- Member of FAHS Faculty promotion committee.
- Member, Postgraduate Education Committee, KIMS-Residency Training Programme in Anatomic Pathology and Cytopathology, Kuwait.

- Editor of CytoPaths. A communication of the International Academy of Cytology. Issue 100, Summer 2016. www.cytology-iac.com.

Dr. O. A. Mojiminiyi

- I teach the FRCPath/KIMS Board trainees in Clinical Biochemistry, Haematology and Immunology.

Dr. Rajaa Marouf

- Member, Kuwait Hematology Board, Kuwait Institute for Medical Specialization (KIMS), MOH, Kuwait.

Dr. Suad Abdeen

- Kuwait board in Pathology residents training at Mubarak Al-Kabeer Hospital – Histopathology Laboratory

Dr. Salah Al-Waheeb

- Cross appointed to MOH, maternity hospital , cytology lab.

h. Presentations at Conferences

Dr. Kusum Kapila

Invited speaker:

- “Cytological diagnosis of Parasitic and Bacterial infections” in Scientific Symposium for Prof. Torill Sauer, Akershus University Hospital, University of Oslo, Oslo, Norway, August 20 -22, 2019.
- “Cytology of Parasitic and Mycobacterial infections”, Beijing Hospital Cytopathology Forum and Training Course, Dong Cheng District, Beijing, China, October 18-23, 2019.
- “Diagnostic pitfalls in Gynecological Cytology”, Beijing Hospital Cytopathology Forum and Training Course, Dong Cheng District, Beijing, China, October 18-23, 2019

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 equipments, 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

This year we were able to recruit a Professor in Cardiovascular Pharmacology and one Biological Researcher.

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.

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 third year and one in the second year. No new students were admitted for the next academic year. In the M.Sc. program, no candidates are enrolled since two students withdrew from the program during the first semester of this academic year. No new students have been recommended for admission for the next academic year. The Department also undertook the teaching of the M.Sc. Molecular Pharmacology Course 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 Phase II-year four students had 3 topics this year. This resulted in 14 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. 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 (<i>New Appointment</i>) 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

Lab Physicians

Dr. Ghanim Al-Khaledi, M.D.

Clinical Tutors

Nil

External Examiner

Nil

Visiting Professor

Prof. Allison D Fryer

Associate Dean Graduate Studies in the School of Medicine,
Professor Pulmonary and Critical Care Medicine
Professor Physiology and Pharmacology
University of Oregon Health Science, USA
(Evaluator for the M.Sc. Program in Pharmacology)

M.Sc. Students

- Ms. Hussa E. Al-Shahwn (Graduated)
- Dr. Moudhi SKH Al Roomi (Withdrawn)
- Ms. Noor KH AKH Al-Oliyan (withdrawn)

Ph.D. Students

- Ms. Bashaier Al-Zaid
- Ms. Dina 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
Ms. Lobna Adi, M.Sc., Senior. Research Assistant on project no. MR 01/15. (Completed)
Ms. Susha Shaji George, B. Tech, Research Technician, Project No. MR 01/16 (Completed)

Technicians

Dr. Saju Abraham, M.Sc, Ph.D, Chief Technician
Mr. A. Cherian, B.Sc., Senior Technician (*Resignation effective January 3rd 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 (*New Appointment*)
Mr. Samsudin Mahaboob Ali, Lab Attendant

Administrative Coordinator

Ms. Hessa N. H. Alanbie

Secretaries

Ms. Bincy A. John

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

Acting Chairman

Dr. Suleiman Al-Sabah was appointed Acting Chairman of the Department effective 8th December, 2019.

Sabbatical Leave

Prof. Mariam Yousif (one year)

New Staff appointed

Academic Staff

Prof. Mahmoud M. El-Mas joined as Professor of Cardiovascular Pharmacology in June 2020

Support Staff

Ms. Esra Atef F. Ramadan, joined the Department as a Senior Biological Researcher in February 2020.

Staff who resigned/left the Department

Research Assistants

Ms. Lobna Adi, M.Sc., Senior. Research Assistant on project no. MR 01/15 (completed the project).

Ms. Sussha Shaji George, B. Tech, Research Technician, Project No. MR 01/16 (completed the project).

On-going Staff Recruitment Exercise

Academic Staff

Prof. Mohamed El-Mas was appointed as full Professor of Cardiovascular Pharmacology.

Academic Support Staff

1. Teaching Assistant (recommended)
2. Clinical Instructor (advertised)

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 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	:	40 hrs (4 hrs per week for 5 weeks * 2)

Total teaching hours given	-----
to students per year	: 43 hours

- Lectures and Learning Topics given by Dr. S. Al-Sabah and Dr. S. M. Karam
- PBL sessions facilitated by Drs. S. M. Karam and M. Al-Fulaij
- Departmental Module Coordinator: Dr. S. Al-Sabah

2. Infection and Immunology System Module

Lectures	:	2 hrs
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PBL Sessions : 8 hrs (4 hrs per week for 2 weeks)

Total teaching hours given
to students per year : 10 hours

- Lectures given by Dr. Suleiman Al-Sabah and Dr. S. M. Karam
- Departmental Module Coordinator: Dr. S. M. Karam
- PBL sessions facilitated by Dr. M. Ansari

3. **Endocrine Module**

Lectures : 7 hrs

PBL Sessions : 28 hrs (4 hrs per week for 7 weeks)

Total teaching hours given
to students per year : 35 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 : 32 hrs (4 * 8 weeks)

Total teaching hours given
to students per year : 36 hours

- Lectures and Learning Topics given by Drs. M. Al-Fulaj, J. Al-Jaber, & M. Ansari
- PBL sessions facilitated by Dr. S. Al-Sabah
- 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. C. I. Ezeamuzie, Prof. M.A. Oriowo, Prof. M.S. Bitar, Dr., S. M. Karam, Dr. S. Al-Sabah, Dr. M. Al-Fulaij and Dr. J. Al-Jaber
- Departmental Module Coordinator: Dr. S. Al-Sabah

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. S. Al-Sabah and M. Al-Fulaij
- Departmental Module Coordinator: Dr. M. Al-Fulaij

7. Renal System Module (RRB)

Lectures : 1 hr
Learning Topic : 1hr

Total teaching hours given
to students per year : 2 hours

- Lectures and Learning Topics given by Prof. M.A. Oriowo and Dr. M. Ansari
- Departmental Module Coordinator: Dr. M. Ansari

8. Reproductive System Module (RRB)

Lectures : 1hr

Total teaching hours given
to students per year : 1 hour

- Lecture given Dr S. Al-Sabah
- Departmental Module Coordinator: Prof. M.S. Bitar

9. Cardiovascular System Module

Lectures : 6 hrs

Total teaching hours given
to students per year : 6 hours

- Lectures given by Prof. M. A. Oriowo
- Departmental Module Coordinator: Prof. M. A. Oriowo

10. Nervous System Module

Lectures	:	10 hrs
Learning Topics	:	2 hrs

Total teaching hours given to students per year	:	12 hours
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- 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	:	16 hrs (4 hrs per week for 4 weeks)

Total teaching hours given to students per year	:	18 hours
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- Lectures given by Prof. M.A. Oriowo and Dr. J. Al-Jaber
- PBL Session facilitated by Prof. M.A. Oriowo
- Departmental Module Coordinator: Dr. J. Al-Jaber

12. **Phase II Elective Courses for the current academic year**

1. Drug Treatment of Allergic Diseases
2. Defining Drug Efficacy.
3. Drug Repositioning / Drug Repurposing

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.

14 students registered for 3 courses this academic year (3 weeks duration) and all the students passed the same.

Total teaching hours for 3 weeks this academic year for 2 hrs each twice a week

Prof. C.I. Ezeamuzie	:	3 * 4hrs = 12 hrs	(5 students)
Dr. S. Al-Sabah	:	3 * 4 hrs = 12 hrs	(5 students)

Dr. M. Al-Fulaij : 3 * 4 hrs = 12 hrs (4 students)

Total contact hours = 36 hrs

Course Coordinators: Dr. Suleiman Al-Sabah , Dr. C. I. Ezeamuzie and M. Al-Fulaij

Phase III Medical School Day (MSD)

Dr. Suleiman Al-Sabah participated in the MSD activities of the Department of Medicine in the 5th year MSD Respiratory.

Dr. Suleiman Al-Sabah participated in the MSD activities of the Department of Medicine in the 6th year MSD Rheumatology.

Dr. S.M. Karam participated in the MSD activities for the Department of Psychiatry for two lectures entitled, 'Use of psychotropic drugs in pregnancy' and 'Hypnotics'.

Dr. Jaber Al-Jaber participated in the MSD activities of the Department of Medicine in the Dermatology Day.

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 started the academic year with 2 MSc students. However, one withdrew because she couldn't cope while the other withdrew because her study leave application was not approved by the ministry of Health.

Prof. Allison D Fryer, Professor of Physiology and Pharmacology, University of Oregon Health Science, USA visited the Department in February 2020 at the invitation of the College of Graduate Studies to evaluate our MSc program and make necessary recommendations. This exercise is usually carried out every 5 years. However, this was the first in the past 10 years. Prof. Fryer has since submitted her report to the CGS.

New admissions

This year, the admission exercise included a written test as advised by the CGS. The pass mark was set at 80%. We received 5 applications for the 2020/21 academic year. Unfortunately, none of them were recommended for admission because of their poor performance (scored less than 80%) in the written test as well as the oral interview. There will be no new admissions into the PhD program because the program has been suspended for another year.

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. Nothing has been done basically since the end of February 2020 because of Covid-19 pandemic.

& Prof. M.A. Oriowo was re-appointed as the Graduate Program Director (for both M.Sc. Ph.D. Programs) for the 2019/2020 academic year.

Teaching Hours (M.Sc.)

Lectures + Practical	:	81 hours	
Thesis Supervision	:	300 hours	(180 + 60 * 3)

Total teaching hours given to : 441 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	PHTX 500	Principles of Pharmacology I
Dr. S. Al-Sabah	PHTX 505	Molecular Pharmacology

Thesis supervision

Ms. Hussa E. Al-Shahwn	M.Sc. (Pharmacology)	Prof. M. Yousif (Main Supervisor)
Ms. Sara Salem	M.Sc. (Anatomy)	Prof. M. Yousif (Co-Supervisor)
Mr. Ali Ismael	M.Sc. (Biomedical Sciences)	Dr. S. Al-Sabah (Co-Supervisor)
Mrs. Sara Al-Kanderi	M.Sc. (Nutrition)	Dr. S. Al-Sabah (Co-Supervisor)

Thesis supervision (Ph.D.)

<u>Student</u>	<u>Degree</u>	<u>Thesis Supervisor</u>
Ms. Bashaier Al-Zaid	PhD (Pharmacology)	Dr. S. Al-Sabah (Main Supervisor) Prof. C.I. Ezeamuzie (Co-Supervisor)
Ms. Dina Jragh	PhD (Pharmacology)	Prof. M. Yousif (Main Supervisor) Prof. M.A. Oriowo (Co-Supervisor)
Ms. Neha Munawar	PhD (Pharmacology)	Prof. M.S. Bitar (Main Supervisor)

Teaching Hours (Ph.D.)

Thesis Supervision : 660 hours $(180 * 3) + (60 * 2)$

Total teaching hours given to : 660 hours
students this academic year (Ph.D.)

Teaching contributions to M.Sc./Ph.D. Programs outside the Department

Dr. Shaima M. Karam participated in teaching the Anatomy M.Sc. course – Neurobiology of pain 0560-541, 2 lectures for 2 hours each.

II. OTHER FACULTIES

The Department continued to contribute to teaching of General Pharmacology course to students of the Faculty of Allied Health Sciences. This year the classes were held online for both the PT and HIA students through the MS Teams platform due to the Covid 19 pandemic. The details of staff participation and teaching hours are as follows:

- a) Undergraduate Teaching in the Faculty of Allied Health Sciences
General Pharmacology Course 0550-420

Total teaching hours given to : 6 hours
Students

Drs., S. M. Karam, M. Al-Fulaij, J. Al-Jaber and M. Ansari contributed to teaching in this course.

The Faculty of Allied Health Sciences has been coordinating this course since academic year 2013-2014.

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 2019/2020. Staff members were involved in 13 funded research grants either as PI or Co-I.

This academic year, Prof. Mariam Yousif was nominated by the GCC patents office to represent the State of Kuwait in the 12th International Invention Fair in the Middle East (IIFME), held in Kuwait City, (16-19/ February 2020). Their invention won the Gold Medal with the Compliments of the Jury and they also won the Kuwait Science Club Best Invention Reward. Her contribution was with their U.S. registered patent "Antitussive and bronchodilator uses for Enaminone Ester". The Research team included Prof. Mariam Yousif (Faculty of Medicine), Prof. Ahmed El-Hashem, Prof. Samuel Kombian and Prof. Ivan Edafiogho (Faculty of Pharmacy).

Prof. Milad S. Bitar was also awarded a patent this academic year. His contribution was in "Methods of Treating Delayed Healing of a Wound Associated with Diabetes". Patent No US 10,206,869 B2.

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. Perivascular adipose tissue dysfunction in hypertension: effect of losartan.

Funding : Kuwait University Research Administration
 (Project No. MR 01/16)

- Status : Completed
Principal investigator : **Prof. M.A. Oriowo**
7. A study of the oxazolidinone Hydroxamic Acid Derivatives as Novel Inhibitors of leukotriene Biosynthesis
Funding : Kuwait University Research administration.
Project number: MR01/14
Status : On-going
Principal Investigator : **Prof. C. I. Ezeamuzie**
Co-Investigator : Dr. Oludotun Philip (Faculty of Pharmacy)
8. Investigation of the signaling pathways that contribute to vasodilator effects induced by the hydrogen sulfide donor GYY4137 in the mesenteric bed of STZ-diabetic rats.”
Funding : Kuwait University Research Administration
M.Sc. student project No. YM06/18
Status : Completed
Principle Investigator : **Prof. Mariam Yousif**
Co- investigator : Dr. Bedoor Qabzard (Faculty of Pharmacy)
Graduate student : Ms. Hussa E. Y. M. AlShahwan (M.Sc. Pharmacology)
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. A study of the effect of chronic hydrogen sulfide treatment in the corpus cavernosum of type-1 diabetic rat model.
Funding : Kuwait University Research Administration
Project No. (RP 03/16)
Status : on-going.
Principal investigator : Dr. Bedoor Qabzard (Faculty of Pharmacy)
Co- investigator : **Prof. Mariam Yousif**
11. 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**

12. Effect of Ginkgo biloba extract on Neuropathic Pain in Streptozotocin induced diabetic rats: Involvement of Microglia activation

Status : Ongoing
Principle Investigator : Dr. Alyaa Mousa (Dept. of Anatomy)
Co-investigator : **Prof. Mariam Yousif**
Graduate student : Ms. Sara Salem (MSc. Anatomy)

13. Y-Chromosomal Single-Nucleotide Polymorphism (SNP) Analysis of Kuwaiti males for forensic applications.

Funding : Kuwait University Research Administration
Project (MR01/18)
Status : on-going
Principle investigator : **Dr. J. Al-Jaber**

14. Exploring a novel direct circulating biomarker assay for the screening and diagnosis of pre-diabetes, gestational and type 2 diabetes.

Principle Investigator-Milad S. Bitar
(Under consideration).

Publications

1. Al-Zamel, N., **Al-Sabah, S.**, Luqmani, Y., Adi, L., Chacko, S., Schneider, T.D., Krasel, C., 2019. A Dual GLP-1/GIP Receptor Agonist Does Not Antagonize Glucagon at Its Receptor but May Act as a Biased Agonist at the GLP-1 Receptor. IJMS 20, 3532. <https://doi.org/10.3390/ijms20143532>
2. AlKhairi, Cherian, Abu-Farha, Madhoun, Nizam, Melhem, Jamal, **Al-Sabah, Ali**, Tuomilehto, Al-Mulla, Abubaker, 2019. Increased Expression of Meteorin-Like Hormone in Type 2 Diabetes and Obesity and Its Association with Irisin. Cells 8, 1283. <https://doi.org/10.3390/cells8101283>
3. **Al-Sabah, S.**, Adi, L., Bünemann, M., Krasel, C., 2020. The Effect of Cell Surface Expression and Linker Sequence on the Recruitment of Arrestin to the GIP Receptor. Front. Pharmacol. 11, 1271. <https://doi.org/10.3389/fphar.2020.01271>
4. 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., 2020. 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* S1550728920304251. <https://doi.org/10.1016/j.soard.2020.07.022>

5. **Bitar MS**. Diabetes impairs angiogenesis and induces cellular senescence by up-regulating thrombospondin-1-CD47-dependent signaling. *Int J Mol Sci* 20: 673, 2019.
6. 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*. Plasma Levels of Adenylate Cyclase 8 and cAMP Are Associated with Obesity and Type 2 Diabetes: Results from a Cross-Sectional Study. *Biology (Basel)*. 2020 Aug 24;9(9): E244. doi: 10.3390/biology9090244. PMID: 32847122. * Co-senior authors
7. Phillips OA, Bosso MA and **Ezeamuzie CI** (2020). Synthesis and structure-activity relationships of novel 5-(hydroxamic acid) methyl oxazolidinone derivatives as 5-lipoxygenase inhibitors. *J. Enzy. Inhib. Med. Chem.* 35: 1471-1482.
8. Al-Jarallah A, Oommen E, Varghese LC and **Oriowo MA** (2019). Role of extracellular calcium and calcium sensitization in the anti-contractile effect of perivascular adipose tissue in pregnant rat aorta. *Pharmacology* 104; 359-367

Departmental Seminar (Journal Club)

No seminars were held during this academic year due to the pandemic.

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 January to December, 2019 was 2145. 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 followings are the main updates:

The 7 Fume hoods in our Department are still under maintenance contract and are working properly.

There were only a few logs in the Chemical Smell log Book this year 2019-2020 compared to the previous years. Due to the Covid -19 situation, the work in the Department resumed with 30 % staff as per University regulations on 30th June, 2020. All the Departmental staff are adhering to the University regulations by wearing masks, social distancing, avoiding gatherings etc.

CONTRIBUTIONS TO COMMUNITY SERVICE

a) Participation in Ministry/Government Activities

1. Toxicology Service Committee Members:

Dr. S. Al-Sabah (Co-ordinator) (since 8th December, 2019, Acting Chairman)

Prof C. I. Ezeamuzie (Co-ordinator) (Chairman until 7th December 2019)

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

Nil

c) Advisory editor services for professional journals

1. Prof. C. 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

d) Active participation in professional conferences

Nil

e) Service as external examiners outside Kuwait

Nil

f) Contribution to Committees in the Faculty of Medicine

1. Dr. S. Al-Sabah (Acting Chairman of Dept. since Dec. 8th, 2019)
 - Member, Departmental Graduate Program Committee
 - Acting Chairman or Member, Departmental Appointment Committee
 - Acting Chairman or Member, Medical Pharmacology Exam Committee
 - Acting Chairman or Member, Department Scholarship Committee
 - Coordinator, Toxicology Service Committee
 - Member of the Editorial Board, Medical Principles and Practice
2. Prof. C. I. Ezeamuzie (Chairman of Dept. until December 7th, 2019)
 - Chairman or Member Medical Pharmacology Exam Committee
 - Chairman or Member Department Appointment Committee
 - Coordinator, Toxicology Service Committee
 - Chairman, Department Scholarship Committee
3. Prof. M.A. Oriowo
 - Program Director, Departmental Graduate Program Committee (M.Sc. & Ph.D.)
 - Member, Medical Pharmacology Exam Committee
 - Member, Department Appointment Committee
 - Member, Department Scholarship Committee
4. Prof. M.S. Bitar
 - Member, Departmental Graduate Program Committee
 - Member, Medical Pharmacology Exam Committee
 - Member, Department Appointment Committee
 - Co-ordinator, Department Research Committee
5. Dr. A. Shihab-Eldeen
 - Member, Department Budget Committee
6. Dr. S. M. Karam
 - Medical Pharmacology Chief Invigilator
 - Member, Department Budget Committee
 - Member, Department Scholarship Committee
7. Dr. M. Al-Fulaij
 - Member, Phase III Examination Committee
 - Member, Department Research Committee
 - Coordinator, Department Budget Committee

- Member, Department Scholarship Committee
 - Departmental Council Secretary
9. Dr. Jaber Al-Jaber
- Member, Toxicology Service Committee
 - Coordinator, Dept. Seminars and Journal Club
 - Coordinator of Medical Pharmacology Course/Exams
 - Department Safety Officer
10. Dr. Mubeen Ansari
- Member, Department Research Committee
 - Department Library Representative
- g) Contribution to committees outside the Faculty

Prof. C.I. Ezeamuzie

Member Departmental Promotion Committee, Dept. of Pharmacology and
Therapeutics, Faculty of Pharmacy.

Dr. Jaber Al-Jaber

Arab Society for Forensic Sciences and Forensic Medicine (ASFSSFM) (Forensic
toxicology scientific committee member)

CONCLUSION

Overall, during the academic year 2019-2020, 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:

- a) To continue to support the administration in order to implement the vision of the Faculty of Medicine.
- b) 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.
- c) Encourage staff to increase funded research projects and international collaborations.

- d) To improve our TDM/Clinical Toxicology service by developing new and unique clinical assays.
- e) To start providing toxicological screening service.
- f) 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 1st year HSC students;
2. Biophysics course to 1st year HSC students;
3. Foundation block, which is offered to 2nd year medical and dental students;
4. Eight Phase II System Modules (for the 3rd and 4th 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 2nd 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 8 students enrolled in the M.Sc. program and 6 in the Ph.D. program. We offer more than 10 graduate courses to these 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 3rd and 4th 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 (3rd and 4th 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 8 students in this program, of which three students have completed MSc program and defended theses during this academic year and 5 remained in the program for the next academic year. 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. This academic year two student was enrolled in addition to three senior students.

C. Research.

At present, there are 30 funded ongoing research projects in the department. In addition to that there are 6 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. In addition to that one book chapter has been published during this academic year. Academic staff members and graduate students presented communications in international or local scientific conferences.

The department has also an active scientific seminars/journal club program. These seminars are a place where junior staff members and graduate students present their research ideas, which are then discussed by all members of staff. During this academic year seven scientific seminars and six journal clubs were presented covering a variety of areas in contemporary research by staff and graduate students during the current year.

D. Conclusion.

This academic year was successful for the department. However, Department still faces severe problems due to a rigid and bureaucratic regulations in Kuwait University in regard to equipment purchase, research grants implementations and graduate students' admissions. New regulations are being introduced every now and then, impeding the ability to use funds that are pre-approved for a particular research and making procedures unnecessarily complicated and not transparent.

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 largely 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 and Metabolism

Vice President for Academic Support Services, Kuwait University.

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. Andreas W. Henkel, B.Sc., Ph.D.
Associate Professor, Neurophysiology

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,
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.
Ms. Maryam Mohammed A. Al-Awadi, M.Sc.
Ms. Shirin S. Mohammadi, M.Sc.
Ms. Aseel A. El-Farra, M.Sc.
Ms. Maryam Al-Quryyan, 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. Fara M. Nejad
Scientific Assistant

Ms. Ruqayyah Al-Hashem, B.E.
Biomedical Engineer

Ms. Grace Gejo, B. Tech.
Engineer, Biomedical Engineering Unit

Ms. Anju Devassy, B. Tech.
Engineer

2. **Technicians.**

Mr. Shaji Joseph, B.Sc., M.Sc.
Chief Technician

Ms. Susan Cherian, B. Sc., M.Sc., B.Ed.
Senior 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. Deepa Varghese, B.Sc. M.Sc.
Technician

Ms. Bini Sreenesh, M.Sc.
Technician, Biological Researcher.

Ms. Amal Thomas, M.Sc.
Technician, Biological Researcher.

Ms. Sajida Tappa, B.Sc.
Technician, Biological Researcher

Ms. Cijy Thomas.
Junior Laboratory Analyst.

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.**
Ms. Cijy Thomas, Junior Laboratory Analyst.
Ms. Amal Thomas, Biological Researcher.
3. **Promotions.**
Nill.
4. **Staff leaving the department.**
Dr. Andreas Henkel, Associate Professor, Neurophysiology (Resigned).

GRADUATE STUDENTS:

M. Sc. Students:

Thesis supervision

1) Mr. Hamed Hatem Al-Sadoun:

Dr. Hameed A. AlSarraf, 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. Wafaa Bent Matar Al-Fadhli:

Prof. Maie Al-Bader, Supervisor

Prof. Narayana K., Co-Supervisor

Research Thesis title: “Notch signaling in intrauterine growth restriction in Rats: Is there a modulatory role for melatonin?”

Funding:

Kuwait University

Status:

Submitted

3) Ms. Faten Abdulla Abu Al-Hous:

Prof. Maie Al-Bader, Supervisor
Dr. Slava Malatiali, Co-

Supervisor

Research Thesis title: “The role of sodium transporters in dexamethasone-induced programmed hypertension and the effect of melatonin.”

Funding:

Kuwait University

Status:

Submitted

4) 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

5) Mr. Ali Fouad

v) Biomedical Science Program (Part-time) M.Sc. students:

i) Mr. Mohammed Ismail Mohd. Heyba:

Prof. Zoran B. Redzic

Research Title: Effects of erythropoietin signaling on viability of rat brain pericytes during oxygen glucose deprivation and recovery.

Funding:

College of Graduate Studies

Status:

Thesis submitted for evaluation.

Project No:

YM 05/16

ii) Ms. Rana Fahel:

Dr. Slava Malatiali

Research Title: The effect of oxygen glucose deprivation on epithelial sodium channels in cortical collecting duct cells: possible role of neural precursor cell-expressed developmentally down-regulated protein (Nedd4-2).

Funding:	College of Graduate Studies
Status:	Thesis submitted for evaluation.
Project No:	YM 05/16

7. Ph. D. Students.

- i) Ms. Mariam Mohamed Awadhi: **Prof. Maie Al-Bader, Supervisor**
Dr. Abdeslam Mouihate, Co-supervisor

Research Title: “The effect of progesterone on placental Nutrient Transporters in Dexamethasone-Induced Intrauterine Growth Restriction”.

Funding:	College of Graduate Studies, Kuwait University YM/11/15
Status:	Thesis Defended.

- ii) Ms. Samah Ahmed Kalakh: **Supervisor: Dr. Abdeslam Mouihate**
Co-supervisor: Prof. Maie Al-Bader

Research Title: “Impact of neuroactive steroids on remyelination during peripartum period in rats.”

Funding:	College of Graduate studies, Kuwait University.
Project No.	YM02/16
Status:	Completed, thesis defended.

- iii) 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

iv) 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.

v) Mr. Hamad Al-Rajhi
Sarraf

Supervisor, Dr. Hameed A. Al-

Research Title: Investigating the effect of resistance Exercise on Inflammation and Trauma Recovery.

Funding:

College of Graduate studies

Status:

Suspended due to insufficient engagement of the student.

vi) 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.

vii) 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	:	104 hours
(b) Problem Based Learning (PBL)	:	208 hours
(c) Tutorials	:	53 hours
(d) Practicals	:	12 hours
(e) Elective course (Hormones and Behavior)	:	18 hours

ii) Biophysics Course for Phase I - Course No. 1400141

Total teaching hours	-	48 hours
Coordinator:	-	Dr. Ali K. Bourisly

Total undergraduate teaching hours to Faculty of Medicine students: 395 hours

2. Other faculties of the Health Sciences Centre

i) Physiology for Faculty of Pharmacy students course no 530- 152

Lectures	-	33 Hours
Tutorials	-	Nil
Practicals	-	Nil
Course Coordinator	-	Dr. Slava A. Malatiali

ii) Physiology for Allied Health Sciences students Course no 530- 152

Lectures	-	28 Hours
Practicals	-	8
Course Coordinator	-	Dr. Hameed A. Al-Sarraf

c. Neurosciences for Allied Health students Course no 530- 310

Lectures	-	12 Hours
Practicals	-	Nil
Course Co-ordinator	-	Dr. Andreas W. Henkel

E. Faculty of Dentistry.

Lectures	: 28 hours
Tutorials	: 9 hours
Practicals	: 0 hours
PBLs	: 48 hours

Total teaching hours to other faculties this year: 154 hours.

II. Graduate teaching

A) M. Sc. program

Program Director:	Dr. Abdeslam Mouihate
Program Committee:	Prof. Zoran Redzic
	Dr. Hameed A. Al-Sarraf
	Dr. Andreas Henkel
	Dr. Ali Bourisly

Lectures	:166
Tutorials/Seminars	:24
Practicals	:28

Total teaching hours given to Students per year	:218

B) Ph.D. program

Program Director:	Prof. Waleed B. Shuaib
Program Committee:	Prof. Maie Al-Bader
	Dr. Fawzi Babiker
	Dr. Abdeslam Mouihate
	Dr. Hameed Al-Sarraf

Compulsory	-	13	Credit Hours.
Electives	-	3	Credit Hours.
Total Course Credits	-	16	Credit Hours.

Total teaching hours in graduate programs: 32 hours of didactic teaching and theses supervision.

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: Molecular pathogenesis of papillary thyroid cancer: the role of thyroiditis.

Funding: Research Administration Kuwait University
Grant Number: MG 02/13
Status: On going
Principal Investigator: Dr. Abeer Al-Abdallah -Dept. of Pathology, FOM,
Co-investigator: Prof. Maie Al-Bader, Dept. of Physiology

3. Title: The Effect of Progesterone on Placental Nutrient Transporters in Dexamethasone-Induced Intrauterine Growth Restriction

Funding: Research Administration Kuwait University
Grant Number: YM 11/15
Principal Investigator: Prof. Maie Al-Bader, Dept. of Physiology

4. 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,
Ms. Faten Abdullah Abu-Alhous - MSc Student –
5. Title: Notch Signaling in Intrauterine Growth Restriction in Rats:
Is There a Modulatory Role for Melatonin?
- Funding: Research Administration Kuwait University
- Grant Number: YM 03/17
- Principal Investigator: Prof. Maie Al-Bader, Dept. of Physiology
- Co-investigators: Prof. Narayana Kilarkaje - Dept. of Anatomy,
Ms. Wafa Matar Alfadhli - MSc Student - Dept. of Physiology
6. 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: Ms. Mariam Al-Awadi - Dept. of Physiology –
7. Title: Diabetes-induced alterations in DNA damage repair pathways
and its modulation in the testis
- Funding: Research Administration Kuwait University
- Grant Number: RM01/12
- Principal Investigator: Prof. Kilarkaje Narayana - Dept. of Anatomy,
- Co-investigators: Prof. Maie Al-Bader, Dept. of Physiology
8. 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
Ms. Mariam Al-Awadhi – PhD student

9. 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.

10. Title: Role of the Angiotensin II/ Angiotensin 1-7 Axis in Hyperthyroidism-induced Renal Hypertrophy

Funding: Funded

Status: Ongoing

Principal Investigator: Slava Malatiali

Co-investigator(s): Mabayoje A Oriowo

11. 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

Status: Pending

Principal Investigator: Prof. Maie Al-Bader

12. 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

13. 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

14. 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

15. 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

16. Title: Effects of estradiol signaling on secretion of cytokines and growth
 factors and cell death in the rat brain during middle cerebral artery
 occlusion.
 Funding: funded
 Status : on going
 Principal investigator: Prof. Zoran Redzic
 Co-investigators: Prof. Maie Al-Bader, Ms. Zeinab Sayed

b. Projects - Unfunded

Title: Mechanism of electro-mechanical coupling in the Kv1.1 channel
 Funding: unfunded
 Status : completed
 Principal investigator: Sonia Hasan Alhashimi
 Co-investigators: D'Adamo MC, Pessia M

B. PUBLICATIONS.

a. Research papers: Full paper Publications

1. 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 as a PI).
2. Henkel A.W., Mouihate A., Welzel O. (2019). Differential release of exocytosis marker dyes indicates stimulation-dependent regulation of synaptic activity. *Frontiers in Neuroscience*, 13:1047, doi: 10.3389/fnins.2019.01047.
3. Ghadhanfar E, Pavlik A, Turcani M. Effect of thermal preconditioning on Hsp70 expression in the medulla oblongata and on hemodynamics during passive hyperthermia. *Brain Res.* 2019 Nov 15;1723:146404. doi: 10.1016/j.brainres.2019.
4. Hasan S, Megaro A, Cenciarini M, Coretti L, Botti FM, Imbrici P, Steinbusch HWM, Hunter T, Hunter G, Pessia M, D'Adamo MC. [Electromechanical coupling of the Kv1.1 voltage-gated K⁺ channel is fine-tuned by the simplest amino acid residue in the S4-S5 linker.](#) *Pflugers Arch.* 2020 Jul;472(7):899-909.
5. Imbrici P, Nematian-Ardestani E, Hasan S, Pessia M, Tucker SJ, D'Adamo MC.. [Altered functional properties of a missense variant in the TRESK K⁺ channel \(KCNK18\) associated with migraine and intellectual disability.](#) *Pflugers Arch.* 2020 Jul;472(7):923-930.
6. Heyba M, Al-Abdullah L, Henkel AW, Sayed Z, Malatiali SA, Redzic ZB. Viability and Contractility of Rat Brain Pericytes in Conditions That Mimic Stroke; an in vitro Study. *Front Neurosci.* 2019 Dec 5;13:1306.
7. Chodobski A, Ghersi-Egea JF, Preston-Kennedy J, Redzic Z, Strazielle N, Szmydynger-Chodobska J, Thorne RG. The legacy of Malcolm Beverley Segal (1937-2019) on the science and fields concerned with choroid plexus and cerebrospinal fluid physiology. *Fluids Barriers CNS.* 2019 Dec 19;16(1):41.
8. Henkel AW, Al-Abdullah LAAD, Al-Qallaf MS, Redzic ZB. Quantitative Determination of Cellular-and Neurite Motility Speed in Dense Cell Cultures. *Front Neuroinform.* 2019 Mar 12;13:15.

b. Communications at scientific conferences (posters or oral):

2020

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; 16th IEEE Colloquium on Signal Processing and its Applications. (Conference paper)

2020

Ali Shuaib, Ali Bourisly, Eman Alazmi; Photobiomodulation Therapy (PBMT): The Effect of Rat's Weight on the Delivered Fluence in Spinal Cord Injury Rat Model: Computational Study; SPIE Photonics Europe. (Conference Paper)

2019

Ali Shuaib, Eman Al-Azmi, Ali K. Bourisly; The Effect of Weight of Rat on the Delivered Fluence Spinal Cord Injury Rad Model-Computational Study; HSC Poster Conference (12 March 2019). (Poster Presentation)

2019

Ali K. Bourisly, Ali Shuaib, Abrar Hayat, Fatima Dashti, Lamia Alsarraf; Volumetric Data Analytics Of Brain Ratio Trajectories From Young Adulthood To Non-Senile Elders: Towards Quantitative Standardization Of The Aging Brain For Machine Learning Algorithms; Southern Data Science Conference (April 11-12). (Poster Presentation)

2019

Ali Shuaib, Ali K. Bourisly; Effects of probe parameters on photobiomodulation therapy for spinal cord injury: a numerical algorithm modelling study; The International Society for Optics and Photonics (SPIE). (Oral Presentation)

Contributions:

a) **Participation in Ministry/Government activities.**

-

b) **Professional organizations.**

Waleed B. Shuaib

Society for Neuroscience

International Brain Research Organization.

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

Andreas W. Henkel

Member, Society for Neuroscience, USA.

Member of the Biophysical Society, USA.

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

- c) **Advisory editor services (editors / editorial board members) for professional journals.**

Zoran B. Redzic

Associate editor, Fluids and Barriers of the CNS

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:

- Scientific Reports.
- Brain Research Bulletin.
- International Immunopharmacology.

d) **Active participation in professional conferences.**

Zoran B. Redzic

- Society for Neurosciences Annual meeting, Washington DC, 11-15. 11. 2017.
- Cerebrovascular Biology Conference, Melbourne, 28.11-2.12. 2017.

Waleed B. Shuaib

- 3rd World Congress on Neurology and Therapeutics, Madrid, Spain, 7-8 October 2019

Fatemah Safar

- Participated in Confocal Microscopy and UVP-Bio imaging system workshop held at Faculty of Medicine, from 11th to 12th of December 2019.
- Participated in Cell Culture and Flow Cytometry Workshop, held at Faculty of Medicine, Kuwait University, from 25th to 26th November 2019.
- Participated in Electron Microscopy Principles and Sample Perpetration Techniques Seminar and Workshop held at Faculty of Medicine, Kuwait University, from 19th to 20 of November 2019.

e) **Service as external examiners outside Kuwait.**

Nil

f) **Contribution to Faculty and University.**

Waleed B. Shuaib

2014 - Present : Chairman, Departmental Research Committee,
 Physiology Dept., Faculty of Medicine,
 Kuwait University.

2014 - Present : Member, Scholarship Committee,
 Physiology Dept., Faculty of Medicine,

Kuwait University.

2016 – Present	:	Member, Scientific Affairs Advisory Committee, Faculty of Medicine, Kuwait University.
2017 – Present	:	Member, Departmental Appointment and Contract Committee, Department of Psychiatry, Faculty of Medicine, Kuwait University.
2017 – Present	:	Member, Faculty Appointment & Contract Committee Faculty of Medicine, Kuwait University.
2018 – Present	:	Chairman, Faculty Promotions Committee Faculty of Medicine, Kuwait University
2019 – 2020		Chairman, Promotions Review Committee Faculty of Allied Health Sciences, Kuwait University

Abdeslam Mouihate

- Director of the MSc. Program/Physiology
- Member of the MRC committee/FOM
- Member, PhD Program, Physiology
- 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
- Member of the examining committee of two M.Sc. theses in the Department of Pharmacology and Therapeutics/Faculty of Pharmacy and one M.Sc. thesis in the Department of Physiology/Faculty of Medicine.

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

- Vice Dean Administration & Finance, September 2012 – till now
- Chairperson, Service Contract Committee.
- Member, Faculty of Medicine Accreditation Unit Committee.
- Member, Committee to implement the MOH cadre for technical staff in HSC.
- Member, Ph.D. Program Committee
- Member, Committee for Academic Staff Appointment and Contract Renewal 2010-present
- Member of Departmental Research Committee 2014 – till now
- Departmental Representative for Phase II Curriculum – Endocrine system module
- Departmental Representative for Phase II Curriculum – Reproductive system module
- Member, Dean's Executive Committee 2012 – till now

Zoran B. Redzic

- Curriculum development committee
- Faculty Scholarship committee

Slava A. Malatiali

- Member of the faculty's phase II examination committee, year 3&4.
- Member of the faculty's RRB module committee.
- Chair and member of the purchasing committee at the Department of Physiology.

Fatemah Safar

- Technical Staff Affairs Committee
- Safety officer (physiology department)

Sonia Alhashimi

- Course co-ordinator for Medical Physiology Foundation Block 1 course no: 05-60-201
- Member of Examination Committee for medical course year 2 phase 2.
- Member of Physiology Department Safety Committee.

g) Contribution to committees outside the Faculty (University Level)**Maie Al-Bader**

- Member, Recruitment Committee for Support Academic Staff 2012 – present.

Waleed B. Shuaib

- Member, Specialized Research Units Committee, Kuwait University 2016 – present.

h) **Community Level**

Maie Al-Bader

- Member, Environmental Safety Committee 2016 – present.

PSYCHIATRY

INTRODUCTION

The Department of Psychiatry consists of one Professor, One Associate Professor, three Assistant Professors, one Chief Technician, and three Technicians/biological researchers and an Executive secretary. The Department provides Problem-based learning (PBL)-driven teaching to the 7th under-graduate students, electives to the 5th year medical students and overseas under-graduate students. The Academic Staff members provide clinical service to the different hospitals and makes substantial contribution to the Kuwait Institute of Medical Specialization (KIMS) administered Kuwait Psychiatry Board program.,

A.Objectives of the department program

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.

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.

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 7th year medical students and offers Electives to the 5th year medical students. The 7th 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 8 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 1st 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 original research articles and another review were published during the academic year.

a) Obstacles to meeting these objectives

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.

1. Limitation of the Psychiatric rotation to the KCMH is another difficulty the Department is facing in exposing the students to the commonest psychiatric disorders at the community level. Since the students are more likely to encounter such cases in their practice, the Department misses out in training them to identify and possibly manage them at primary, or even, secondary care (general hospitals) level.
2. The acute shortage of the academic staff members, especially the senior staff members, coupled with excessive teaching workload on the existing staff members, has seriously compromised the Department research activities. As a result, there has been a noticeable drop in the number of research publications during the last few years.

B. Current Developments

1. The Department has succeeded in recruiting some support staff including a Psychological researcher and Research assistant but continues to articulate 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.

C. Program achievements and success

Student engagement and success

The small group teaching plays a pivotal role in any PBL curriculum. The same applies to the once weekly Medical School Day (MSD) teaching activities. The limited number of students ensures closer student-instructor interaction and facilitates pro-active student engagement in the different teaching activities. The students select different topics in the Student-led activity and, under the supervision of their MSD program coordinators, thoroughly prepare these topics for subsequent presentation in the Student-led activity component of the Medical School Day (MSD) program. Similarly, in the daily case conferences and under the supervision of their respective clinical tutors, students demonstrate Interviewing and Communication skills which promotes development of clinical skills and professional competency.

Curriculum enhancement and development

- The course weekly learning objectives (WLO's) are covered with a variety of different activities including twin PBL sessions; patient clerking sessions, and the once daily one-hour Case conferences. The different student learning activities including the PBL cases, the Patient clerking sessions, and the daily Case conferences, are synchronized to address the given WLO's. This exercise facilitates critical the elaboration process of respective learning topics. Just as the PBL facilitators and clinical tutors are evaluated by their respective group-students at the end of rotation, the students' involvement in the PBL group meetings and commitment towards the Patient clerking sessions and Case conferences are evaluated by their respective clinical tutors. The resultant two-way feedback helps instructors sharpen their teaching skills on the one hand, and encourages growth as independent learners, on the other.
- The review of the curriculum activities is an ongoing process. Based on students' performance coupled with mutual instructor-student feedback, the curriculum reform process continues.
- The Course objectives, Weekly leaning objectives (WLO's), Medical School Day (MSD) program, the main Learning topics (LT's), students' Minimal Clinical skills and Competency level, the log-books, have all been deposited with the Accreditation unit. The Department organized a series of workshops aimed at training the instructors for the Problem-based learning (PBL) and the Objective Structured Clinical Assessment (OSCE) at the time of introduction of the PBL model and the OSCE assessment method. Lastly, the academic staff actively participated in the Curriculum review workshop organized by the Faculty administration during March 31st -April 3rd 2019.
- The Department continues to strive for the state of the art delivery, and evaluation, of the curriculum. However, due to the shortage of academic staff and the consequent over-reliance on the Ministry of Health clinical tutors, standardization of the various teaching activities at the small group level continues to obstruct achievement of the rotation objectives. Non-availability of a teaching hospital is another factor where the Department has encountered challenges in aligning the patient-centered learning to the given WLO's.

MANPOWER

1. Dr. M.A. Zahid, MB.BS., MRCPsych., Professor and Chairman
2. Dr. Sulaiman Al-Khadhari, MBBCh, FRCPC, Associate Professor
3. Dr. Mariam Al-Awadhi, MBBCh, FRCPC, Assistant Professor
4. Dr. Mohammad Alsuwaidan, MD, MPH, FRCPC, Dip ABPN, FAPA, Assistant Professor
5. Dr. Abdullah Al-Ozairi MBChB. MSc MHPE FRCP (C), Dip ABPN Dip UCNS, Assistant Professor

Teaching Assistants

None.

Lab Physicians

None.

Clinical Tutors

- | | |
|-------------------------------|--------------------------|
| 1. Dr. Adel Al-Zayed | Director and Consultant. |
| 2. Dr. Ammar Al-Sayegh | Chairman, Specialist |
| 3. Dr. Abdullah Al-Hammadi | Consultant |
| 4. Dr. Khalid Al-Shafi | Consultant |
| 5. Dr. Bibi Alamiri | Consultant |
| 6. Dr. Mohammad Moustafa | Consultant |
| 7. Dr. Mohammad Abu Zaid | Consultant |
| 8. Dr. Mumdoth Elgammal | Consultant |
| 9. Dr. Ashraf Al-Shazli | Sr. Specialist |
| 10. Dr. Francis Kostas | Sr. Specialist |
| 11. Dr. Tarik Shoukri | Consultant |
| 12. Dr. Sherene Abdelmawella | Sr. Specialist |
| 13. Dr. Mai Al'asy | Specialist |
| 14. Dr. Talal A. M. Sayed | Sr. Specialist |
| 16. Dr. Mustafa Ibrahim | Specialist |
| 17. Dr. Abdulmohsen Al-Hamoud | Specialist |
| 18. Dr. Hussain Al-Shatty | Sr. Registrar |

Visiting Professor

None

External Examiners

None

M.Sc. Students

None

Ph.D. students

None

SUPPORT STAFF

Research Assistants and Scientific Assistants

None.

Chief Technician

- Ramani Varghese, MSc, B. Edu.

Technicians

- Najlaa Fathi Al-Hoby, Bachelor degree in Medical technology.
- Nouf Al-Shatty, Bachelor degree in Biology
- Badria Al-Faqaan, Bachelor degree in Psychology

Executive Secretary

Sara Adel Sami – Bachelor Degree in English literature.

STAFFING CHANGES

- **New Staff appointed**

Promotions

None

Staff who left the department

- Samia Al-Otaibi
- Runa Abraham

TEACHING LOAD

Undergraduate teaching (7th year)

Lectures	: 79 hours X 3 groups= 237 hours
Practical	: Three rotations of 8 weeks each. 84 hours X 3 groups= 252 hours.

Undergraduate teaching (5th year) Elective:

Lectures	: 20 hours.
Practical	: 56 hours.

Renal, Reproduction & Breast System Module (4th year)

Learning topic: sexual orientation ID #3449

Student Advisors

None

RESEARCH AND PUBLICATIONS

FUNDED PROJECTS

A. Dr. Abdullah Al-Ozairi

Title: A qualitative study of professionalism dilemmas: personal incident narrative of medical practitioners.

Funding: Kuwait University

Budget: 2000 KD

Status: Ongoing

Principal Investigator: Abdullah Al-Ozairi

UNFUNDED PROJECTS

A. Dr. Mohammad Al-Suwaidan

1. Title: The Feasibility and Effectiveness of Group Family Psychoeducation for Relative Caregivers of Individuals with Mood Disorders in Kuwait.

Principal Investigator: Alsuwaidan MT

Status: Ongoing

2. Title: Societal-level Stigma Reduction Through Mental Health Movie Nights in Kuwait.

Principal Investigator: Alsuwaidan MT

Status: Ongoing

3. Title: Design and Implementation of a Electronic Research Database for Outpatient Visits in a Specialty Mood & Anxiety Disorders Unit in Kuwait.

Principal**Investigator:** Alsuwaidan MT**Status:** Ongoing

- 4. Title:** Effectiveness of a Unified Hospital Clinical Form in Increasing Awareness and Enhancing Intervention of Metabolic Monitoring of Mood Disorder Patients in Kuwait.

Principal**Investigator:** Alsuwaidan MT**Status:** Ongoing**Publications****a) Dr. M.A. Zahid**

1. Alkhadhari S, Aseel AO, Mohammad IHA, Amina Abdullah Atwan AA, Alqudaihi F, Zahid MA. Mental and physical comorbidity in an Arab national primary health care setting. BMC Psychiatry, 2018; 18: 313. <http://doi.org/10.1186/s12888-018-1903-1908>
2. Alhumoud AQ, Zahid MA, Alkhadhari S. Forensic Mental Health in Kuwait: Between Western Laws and Conservative Society Lays a Challenge. J Forensic Sci & Criminal Inves 2018; 11 (2): 555806 DOI 10.19080/JFSCI.2018.11.555806
3. Alhumoud A, Zahid M, Ibrahim S, Syed T, Naguy A. Forensic psychiatry in Kuwait- characteristics of forensic psychiatry patients evaluated over one-year duration in the only available forensic psychiatry unit. Int J Law & Psychiatry, 2018; 60: 12-16.

Abstract presentation:

Mental and physical comorbidity in an Arab national primary health care setting. 7th Annual Congress on Primary care, Nursing, and Neonatal screening. Vancouver, Canada. July 27-28, 2018.

b) Dr. Sulaiman Al-Khadhari

1. Alkhadhari S, Aseel AO, Mohammad IHA, Amina Abdullah Atwan AA, Alqudaihi F, Zahid MA. Mental and physical comorbidity in an Arab national primary health care setting. BMC Psychiatry, 2018; 18: 313. <http://doi.org/10.1186/s12888-018-1903-1908>
2. Alhumoud AQ, Zahid MA, Alkhadhari S. Forensic Mental Health in Kuwait: Between Western Laws and Conservative Society Lays a Challenge. J Forensic Sci & Criminal Inves 2018; 11 (2): 555806 DOI 10.19080/JFSCI.2018.11.555806

c) Dr. Abdullah Al- Ozairi

1. Ebaa Al-Ozairi,^{1,2} Abdulla Al Ozairi,³ Clare Blythe,⁴ Etab Taghadom,¹ and Khalida Ismail⁴
The Epidemiology of Depression and Diabetes Distress in Type 2 Diabetes in Kuwait
<https://www.hindawi.com/journals/jdr/2020/7414050/> .
2. EbaaAl-Ozairi^{ab}Manar M.AlAwadhi^{ac}AbdullaAl-Ozairi^dEtabTaghadom^bKhalidaIsmail^e
A prospective study of the effect of fasting during the month of Ramadan on depression and diabetes distress in people with type 2 diabetes
<https://www.sciencedirect.com/science/article/abs/pii/S0168822719302426>

Collaborative research:

a) Prof. M A Zahid

1. State M, Kostas F, Zahid MA, Khalil RM, Identifying Genes causing Autism using consanguineous families.

CONTRIBUTIONS

a) Participation in Ministry/Government Activities

	Name	Organization	Position
1	Dr. M.A. Zahid	• ACU-4 Kuwait Center for Mental Health.	Unit Head
		• Council of Department of Psychiatry, Kuwait Center for Mental Health.	Member
		• Medical Board for Psychiatric Assessment of Medico- legal Patients	Chairman
		• Mortality and Morbidity Committee, KCMH.	Chairman
		• Drugs and Therapeutics Committee, KCMH.	Member
2	Dr. Sulaiman Al-Khadhari	• Psychogeriatrician, Mubarak Al-Kabeer Hospital	
		• The National Committee for the Geriatric Health at the Ministry of Health, Kuwait.	Member
		• The General and Geriatric Psychiatry Units at the Kuwait Center for Mental Health	Head
3	Dr. Mariam Al-Awadhi	• Psycho-social oncology services at Kuwait Center for Mental Health.	Head
		• Women's mental health at maternity hospital, Sabah Area.	Head
		• Associate Director – Residency Program – Kuwait Board of Psychiatry	Member
4	Dr. M. Alsuwaidan	• Mental Health Unit – Mubarak Al-Kabeer Hospital	Founding Head of Unit
		• Kuwait Institute of Medical Specialization -Kuwait Board of Psychiatry	Program Director
		• Kuwait Institute of Medical Specialization KIMS/Royal College Collaborative Faculty development committee	Member
		• Ministry of Health – Global Health Office	Focal Point Representative of the State of Kuwait to the World Health Organization for Mental Health and for Violence
5	Dr. Abdullah Al-Ozairi	• 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	Dr. M.A. Zahid	• The Royal College of Psychiatrists (UK)	Member
		• American Psychiatric Association	Member
		• Society for Mentally Handicapped Children, Lahore, Pakistan	Executive member
2	Dr. Mariam Al-Awadhi	• 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
3	Dr. Sulaiman AlKhadhari	• Kuwait peritoneal Cancer Society.	Member
		• The first 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 Specializations	Chairman
		• 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
4	Dr. M. Alsuwaidan	• New Chapter Development and Membership Committee International Society for Bipolar Disorders	Chairman
		• Scientific Program Committee, International Society for Bipolar Disorders	Member
		• Executive Committee, International Society for Affective Disorders	Elected Member
		• American Psychiatric Association	Fellow
		• Canadian Psychiatric Association	Member
		• International Society for Bipolar Disorders	Member
		• International Society of Affective Disorders	Fellow
5	Dr. Abdullah Al-Ozairi	• University Health network, Toronto, Canada	Neuropsychiatrist
		• Harvard Macy Institute, Boston, USA	Faculty

**c) Advisory editor services for professional journals:
Journals' Review**

	Name	Journal
1	Dr. M.A. Zahid	<ul style="list-style-type: none"> • Annals of Saudi Medicine • Kuwait Medical Journal • Academic Psychiatry • Psychiatria Danubina • International Journal of Social Psychiatry • International Scholarly Research Network (ISRN) Family Medicine • Family Medicine & Medical Science Research • Saudi Journal of Medicine and Medical Sciences
2	Dr. M. Alsuwaidan	<ul style="list-style-type: none"> • Journal of Affective Disorders. • Journal of Clinical Psychiatry the Primary Care Companion. • CNS Spectrums. • Transcultural Psychiatry. • Academic Psychiatry. • Revista Brasileira de Psiquiatria
3	Dr. Abdullah Al-Ozairi	<ul style="list-style-type: none"> • Psychosomatics • Journal of Head Trauma Rehabilitation • University of Toronto Journal

d) Active Participation in Professional Conferences:

	Name	Title	Date	Venue
1	Dr. M.A. Zahid	• Primary health care nursing & neonatal screening	27/7/18 to 28/7/2018	Vancouver, Canada
		• 9 th World Congress on Nursing & Health Care-2020	18/02/2020 - 23/02/2020	Philadelphia-USA
2	Dr. Mariam Al-Awadhi	• American Psychiatric Association Annual meeting	May 5-9, 2018	New York
		• 8 th World Congress on Women's Mental Health	5-8 March, 2019	Paris, France
3	Dr. Mohammad Al Suwaidan	• American Psychiatric Association annual meeting	17/5/19 to 23/5/19	UAE
		• Workshop on LEAP techniques	28/4/19 to 2/5/19	UAE
		• Attendance of the American Psychiatric Association Annual Meeting	17/5/2019 to 23/5/2019	USA
4	Dr. Abdullah Al-Ozairi	• AMIEE 2019	25-29 Aug. 2018	Switzerland
		• Maudsley Forum	11-14 Sept, 2019	UK
		• The Seventh Annual Clinical Congress	09/10/2019 to 12/10/2019	Muscat- Oman

	<ul style="list-style-type: none"> • Mentalization –Based Treatment: Basic Training in Los Angeles 	05/11/2019-10/11/2019	Los Angeles , USA
	<ul style="list-style-type: none"> • Consultation – Liaison Psychiatry 	11/11/2019 – 18/11/2019	San Diego , USA

e) Service as External Examiner Outside Kuwait:

None

e) Contribution to Committees in the Faculty of Medicine

	Name	Committee	Position
1	Dr. M.A. Zahid	• Curriculum Assessment and Admission Committee	Member
		• Promotion Review Committee	Member
		• Faculty Council	Member
		• Scholarship Committee	Member
		• Departmental Research Committee (Psychiatry Department)	Chairman
		• Departmental Council (Psychiatry Department)	Chairman
		• Departmental Recruitment and Contract Renewal Committee (Psychiatry Department)	Chairman
2	Dr. M. Alsuwaidan	• Dean's Faculty Development Committee	Member
		• Phase III Examination Committee, Department of Psychiatry, F.O.M.	Head
3	Dr. Abdullah Al-Ozairi	• Interprofessional Committee Education (IPE), Rep from FOM	Member
		• Dean's Faculty Development Committee	Member
		• Curriculum Review Taskforce, Tasked by Dean	Member

f) Contribution to Committees Outside the Faculty

	Name	Committee	Position
1	Dr. M.A. Zahid	• Board for Psychiatric Assessment Medico Legal Patients	Chairman
		• Mortality and morbidity committee	Chairman
		• Council of Department of Psychiatry, MOPH.	Member
2	Dr. Sulaiman Al-Khadhari	• Kuwait Psychiatric Association	President
		• Gulf Mental Health Society	Executive Board member

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. To this end, a series of conferences and workshops were organized by the Department to familiarize the Ministry of Health tutors staff with the new teaching methods. 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 5th year medical students as per the set objectives.
- b) To evaluate, review and reform the curriculum 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 academic staff particularly at the Assistant Professor level. 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. We are receiving ‘Excellent’ reports on our sponsored candidate undergoing training in the University of Toronto, Canada.

D) Program achievements:

1. Curriculum enhancement and development.

The activities of the department during the academic year went smoothly inspite of the prevailing challenges, especially the Covid pandemic. Because of the current situation, our teaching commitments had to be rescheduled and somewhat reorganized, but we fulfilled all our commitments in line with our stated objectives of providing quality education to our students in the Health Sciences Center. The elective courses for the 5th year students had to be shortened to 2 weeks instead of the 4 weeks because of the time constraint due to the pandemic. All the staff undertook the necessary ‘MS Teams’ training for the online teaching and successfully conducted the necessary teaching ‘online’. The department/interdepartmental consultation and necessary interactions with module coordinators are held at regularly for the 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.

Due to the ongoing Covid pandemic, CME activities have been stopped. However, efforts are ongoing to attend online CME programs.

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. Tariq Sinan, FFR., FRCR, Interventional Radiology |
| 5. Associate Professor | Dr. Adel Ahmed, Am. B. Rad., Interventional Radiology |

2. Clinical Tutors Seconded from the Ministry of Public Health:

1. Dr. Refa'a Al Ajmi
2. Dr. Abdullah Khayat
3. Dr. Faiza Al Hajri

SUPPORT STAFF

- | | |
|---|----------------------|
| 1. Senior Technician | Ms. Liji George |
| 2. Computer Specialist Engineer | Ms. Lekha Jacob |
| 3. Administrative Transactions Specialist | Ms. Dalal Al-Muttar |
| 4. Senior Applied Systems Analyst | Ms. Reena Biju Jacob |

STAFFING CHANGES

None

TEACHING IN THE DEPARTMENT PROGRAM

1. Faculty of Medicine:

(a) Undergraduate teaching

2nd Year

Lectures	1 hr
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3rd Year

Seminars	5 hrs
Clinical skills	1 hr

4th Year

Seminars	10 hrs
Clinical skills & GI rotation	12 hrs

5th Year

Seminars	18 hrs
Lectures	4 hrs

6th Year

Seminars	13 hrs
Pediatrics Clinical Rotation	24 hrs

7th Year

Lectures	2 hrs
Seminars	3 hrs
Interventional Radiology Rotation	44 hrs

PBL

CVS:	11 hrs
MSK:	20 hrs
Reproductive & Breast	20 hrs
Blood	15 hrs
Renal	14 hrs

Total 212 hrs

Course Coordinators

Name	Module
Prof. Mehraj Sheikh	Respiratory system, Digestive system
Prof. Renu Gupta	Renal, Reproductive & Breast, Endocrinology
Prof. Osama Al-Saeed	Infection & Immunology, Musculoskeletal system
Dr. Adel Ahmed	Cardiovascular system, Blood system
Dr. Tariq Sinan	Nervous system

(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:

Unfortunately, our research activities slowed down because of restricted patient recruitment due to the pandemic ‘lockdowns’

- | | | |
|------------------|---|--|
| 1. Grant no. | : | EO02/18 |
| Title of Project | : | Computer Aided Diagnosis Systems to Detect Breast Cancer by Segmentation-based and Deep Learning- based Techniques using Mammogram |
| Funding Agency | : | Kuwait University |
| Status | : | Ongoing |
| PI | : | Alshayeji M. |
| Co- investigator | : | Gupta R. |
- | | | |
|------------------|---|--|
| 2. Grant no. | : | KFAS Project CR17-13MM-01 |
| Title of Project | : | Comparative Study of Sickle Cell Disease Phenotypes in Kuwait and Oman: Cytokine and Bone Morphogenic Gene Polymorphisms Associated with Osteonecrosis |
| Funding Agency | : | KFAS |
| Status | : | Ongoing |
| PI | : | Adekile A. |
| Contributor | : | Gupta R. |
- | | | |
|------------------|---|---|
| 3. Grant no. | : | PR1713MM02 |
| Title of Project | : | Polycystic ovary syndrome and subclinical hypothyroidism. |
| Funding Agency | : | Funded |
| Status | : | Ongoing |
| PI | : | Al Qudhaiby M. |
| Co- investigator | : | Sheikh M., Mojiminiyi S. |

Publications:

1. Azizieh F Y, Shehab D, Jarallah K, Mojiminiyi O, **Gupta R**, Raghupathy R. Circulatory levels of RANKL, OPG and oxidative stress markers in postmenopausal women with normal or low bone mineral density. Biomarker Insights. 2019;14:1177271919843825.
2. **Ahmed A.**, Kang A, Hyung-Joon J. Fluoroscopically guided interlaminar needle for lumbar disc herniation: Our Experience of Treating 43 Patients. Ann Saudi Med 2019; 39(6):417-421.

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. T. Sinan

Consultant Radiologist, Interventional Radiology, Adan 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 :

Dr. Tariq Sinan

Chief Speaker, Guided IT Administration for SMA patients, Oct 30, 2019, Adan Hospital, Kuwait

c) Participation in International Meetings :

Dr. M. Sheikh

1. Attended Arab Health Congress at Dubai, UAE from 27th – 30th Jan 2020.

Dr. R. Gupta

1. Presented a paper on “Mammographic BIRADS 3 category: a radiologist dilemma” at IRIA 2020 held at India from 23rd to 26th Jan 2020.

2. Attended Arab Health Congress at Dubai, UAE from 28th Jan – 30th Jan 2020.

Dr. Adel Ahmed

1. Attended Arab Health Congress at Dubai, UAE from 27th – 30th Jan 2020.
2. Lecture on Uterine Fibroid embolization in MENA PI Summit 2019 in Debrovnik, on 4th to 5th 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 5th 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 and Reproductive system, Phase II for the Department of Radiology

Course Coordinator for clinical rotation of Phase II Nephrology Block for the Department of Radiology

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
Department Coordinator of 6th year medical students' teaching

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 7th 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 and challenges due to the Covid pandemic. 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 5th, 6th and 7th year medical students. The Department comprises of 5 full professors, 7 associate professors and 9 assistant professors. This constitutes the academic staff. They are supported by 3 technicians, 1 Departmental Scientific Assistant, 1 teaching assistant and 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 108 such tutors ranging from senior registrars to senior specialists.

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 Specialisation (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 1st 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. Dashti Hussein, 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. Ayed Adel Khader, B.M.,B.Ch., F.R.C.S.(C), F.C.C.P., F.A.C.S.

Professor and Dean

Thoracic Surgery

Dr. Behbehani Abdullah, 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. Al-Hunayan Adel Abdel Razzaq, B.M., B.Ch., F.R.C.S.

Professor

Urology

Dr. Al-Sebeih Khalid, B.M., B.Ch., F.R.C.S.(C), A.B.O

Professor

ENT

Dr. Al-Saleh Mervat Saud Mohamed, 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. Al-Asfar Fahad, B.M.,B.Ch., F.R.C.S(C)

Associate Professor

General Surgery

Dr. Behbehani Abdul Mutalib, M.B.,B.Ch., B.A.O., L.R.C.S.I., F.R.C.S.C.

Associate Professor

Ophthalmology

Dr. Abul Fawzi T., M.B.,B.Ch., F.R.C.S., B.A.O., L.R.C.S., L.R.C.P.I.

Associate Professor

Urology

Dr. Al-Kandari Ahmed, B.M., B.Ch., F.R.C.S(C)

Associate Professor

Urology

Dr. Jamal Mohammed, M.B.B.S, F.R.C.S (C)
Associate Professor
Hepatopancreatic biliary and transplant surgery

Dr. Al Sabah Salman BM., B.Ch, MBA, FRCS(C), FACS
Associate Professor
General Surgery

Dr. Al-Bader Ibtisam B.M., B.Ch., F.R.C.S (C), F.R.C.S
Assistant Professor
General Surgery with interest in Breast Surgery

Dr. Al-Abbad Jasim, B.M., B.Ch., F.R.C.S (C)
Assistant Professor
General Surgery with interest in colon and rectal surgery

Dr. Abulhasan Yasser B, M.B.B.S, F.R.C.S (C)
Assistant Professor
Anesthesia and intensive care

Dr. Sa'ad Al Dosari MD, FRCS (C)
Assistant Professor
Urology

Dr. Ali Jarragh B.M, B.Ch, FRCS (C)
Assistant Professor
Orthopedic Trauma Surgery

Dr. Alnaqi Amar B.M, B.Ch, FRCS (C).
Assistant Professor
Pediatric Surgery

Dr. AlZaid Saud MB, BCM, BAO (NUI), LRCSI, FRCSC
Assistant Professor
General Surgery

Dr. Ahmed AL-Khamis MBChB (Hon.), MSc (Epi), FRCSC
Assistant Professor

Dr. Salman Al Safran 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. Al-Otaibi Fatimah

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. Zahraa Ahmad Ismail	Consultant
10	Dr. Maher Mouris Iskandar	Consultant
11	Dr. Sulaiman Jawad Al-Hadher	Senior Specialist
12	Dr. Bader Mustafa Marafi	Senior Specialist
13	Dr. Ahmad Ali Taqi	Specialist
14	Dr. Ibrahim Mustafa Hanbal	Specialist
15	Dr. Ismiel Jazzaf	Specialist
16	Dr. Bashayar Al Shatty	Specialist

17	Dr. Abdulla Abdulrasool	Specialist
18	Dr. Khalid Al Hammad	Specialist
19	Dr. Yaser Salah Sadeq	Specialist
20	Dr. Dhari Al Wugyan	Specialist
21	Dr. Mohammad Abdulfattah AlBader	Specialist
22	Dr. Khalid Al Qalaf	Specialist
23	Dr. Bader Jassim Ashkanani	Senior Registrar
24	Dr. Mohammed Ibrahim	Senior Registrar
25	Dr. Yousef AlHassan	Senior Registrar
26	Dr. Ali Abdulsamad Basha	Senior Registrar
27	Dr. Ahmad Alsalam	Senior Registrar
28	Dr. Khalifa Alyatama	Senior Registrar
29	Dr. Abdullah Dia Ahmed Behbehani	Senior Registrar
30	Dr. Mohammad Alghanim	Senior Registrar
31	Dr. Yousef Mohammad Ali	Consultant
32	Dr. Hamdy Abdul Haleem	Consultant
33	Dr. Said Yaiesh	Senior Registrar
34	Dr. Najat Dehrab	Consultant/Head
35	Dr. Kamal Eldin Hussein	Senior Specialist
36	Dr. Varghese Parel	Specialist
37	Dr. Joshua Brainard Muddu	Specialist
38	Dr. Saleh AlKhaldi	Specialist / Head
39	Dr. Fathi Khalaf	Consultant
40	Dr. Mohammed Abu AlNas	Senior Specialist
41	Dr. Hani Wadie Philips Rizkalla	Specialist

42	Dr. Taleb Hashem Juma	Consultant / Chairman
43	Dr. Abdulsamad Mustafa Samad	Consultant
44	Dr. Wael Fathi Hasaniah	Consultant
45	Dr. Ali Hamad Al Juaied	Senior Specialist
46	Dr. Ahmed Murad	Senior Specialist
47	Dr. Shehab A. Groof	Senior Specialist
48	Dr. Suad Al-Subaie	Senior Specialist
49	Dr. Bader Al Bader	Specialist
50	Dr. Asma Al-Rashid	Specialist
51	Dr. Fatma Ibrahim	Specialist
52	Dr. Mohammed Alzanki	Senior Registrar
53	Dr. Sara Wood	Senior Registrar
54	Dr. Kefaya Abdulla Abdulmalek	Consultant/Head
55	Dr. Manal Hussein Taqi	Senior Specialist
56	Dr. Nadia Akbar	Senior Specialist
57	Dr. Arun Narayanaswamy	Consultant
58	Dr. Duleim Al Hajri	Senior Specialist
59	Dr. Ali Rashidi	Specialist
60	Dr. Mustafa Dashti	Consultant/Chairman
61	Dr. Rasheed Fadel	Consultant
62	Dr. Obaid Al-Harbi	Consultant
63	Dr. Hamad Al-Ajmi	Consultant
64	Dr. Abdulla Sultan	Consultant
65	Dr. Mahmoud Abdelmoneam	Consultant
66	Dr. Naser Al Humaidi	Senior Specialist

67	Dr. Mohammed Ahab Saad	Specialist
68	Dr. Khalid Al Bassam	Specialist
69	Dr. Musaad Al Wadaani	Specialist
70	Dr. Faisal Al Hajery	Senior Specialist/Head
71	Dr. Ahmed Harraz	Specialist
72	Dr. Shady Mohamed Salem	Specialist
73	Dr. Talal Alanzi	Senior Registrar
74	Dr. Owayed Almutairi	Specialist/Head
75	Dr. Wieslaw Pospula	Consultant
76	Dr. Abdulsalam Othman	Consultant
77	Dr. Ayman H. Fuad	Senior Registrar
78	Dr. Ouz Al Osairi	Consultant/Chairman
79	Dr. Hosni Mustafa	Consultant
80	Dr. P. M. Dhar	Senior Specialist
81	Dr. Hamid Labeeb	Senior Specialist
82	Dr. Nael Muttar SalmanAl-Shammari	Specialist
83	Dr. Mohammed Asad Al Kandari	Specialist
84	Dr. Nawaf Al Khalifah	Specialist
85	Dr. Ahmed Sarab	Specialist
86	Dr. Ahmad Sulaiman	Senior Registrar
87	Dr. Khaleel Mohammed	Senior Registrar
88	Dr. Khalid Al Shammari	Senior Registrar
89	Dr. Huda Al Foudari	Consultant/Chairperson
90	Dr. Mohammed Shamsah	Consultant
91	Dr. Meshal Ahmad Alhadhoud	Specialist/Head

92	Dr. Farid Abdelmalak	Consultant
93	Dr. Mohammad Hesham	Consultant
94	Dr. Raja Mohammed Sherief	Senior Specialist
95	Dr. Ahmed M. Zamzam	Consultant
96	Dr. Raed Behbehani	Consultant
97	Dr. Adel Al Jazzaf	Consultant
98	Dr. Talal Alabdul Jaleel	Senior Specialist
99	Dr. Nadia Abul	Consultant
100	Dr. Mutlaq Al Sihan	Consultant/Head
101	Dr. Amr Ali Sobieh	Consultant
102	Dr. Khairy Alhaj Abu Shara	Consultant
103	Dr. Abdulla Khaled AlBader	Senior Registrar
104	Dr. Maha Al-Gilani	Senior Registrar
105	Dr. Saleh Alseifi	Specialist/Chairman
106	Dr. Mokhtar Elsayed Abdel Azeem	Senior Specialist
107	Dr. Abdul Aziz Mohamed AbduAziz	Senior Specialist
108	Dr. Mohammad Mufeed Khalid Eid	Specialist
109	Dr. Faisal.T.Sayer	Consultant
110	Dr. Yousef Al Awadi	Consultant
111	Dr. Esmaeel Taqi	Consultant
112	Dr. Abdullah Rajab	Consultant
113	Dr. Mohammad Khalaf	Consultant
114	Dr. Hassan Aziz	Specialist
115	Dr. Dherar Shehab	Consultant

Visiting Professors

Nil

External Examiners for the year 2019

- 1) Dr. Malcon Reed - UK
- 2) Dr. Peter Brennan - UK
- 3) Dr. Edward Davies - Canada
- 4) Dr. Kosar Khwaja - Canada

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. Mathew Ani, B.Sc., M.A., Senior Technician

Mrs. Shaisha Meeralayam, B.Sc., MSc, Technician

Secretaries

Mrs. Anju Jijin, B Com. MBA (Finance)

Administrator

Nil

Others

Mr. Erfan Shaikh

Student help

Nil

STAFFING CHANGES

Prof. Sami Asfar's contract was not renewed

Prof. Adel K.Ayed is on Sabbatical leave from September 2019 till September, 2020.

Dr. Abdullah Alfawaz our scholarship candidates have returned and joined the Department, and he is on study leave starting from 15th October 2019 and will join in October 2020.

Dr. Talal Alabduljalil is joined in the Department in November 2019.

TEACHING IN THE DEPARTMENT PROGRAM

I. FACULTY OF MEDICINE

a. Undergraduate teaching

Lectures	:	288	hours
Tutorials & Seminars	:	--	hours
Practicals / Clinical	:	1,218	hours

Total teaching hours given to students per year.		1,506	hours

Coordinators:

Name of Staff: **Dr. Al Haddad Ali Jerragh**

Name of Course/s: 5th Year Phase III Coordinator

Name of Staff: **Dr. Talal Alabduljalil**

Name of Course/s: 6th year Phase III Coordinator

Name of Staff: **Dr. Alnaqi Amar**

Name of Course/s: 7th year Phase III Coordinator

c. 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) T. C. Mathew, S. M. Abdeen, **H. Dashti**, S. Asfar. Green tea induced cellular proliferation and expression of Transforming Growth Factor- β 1 in the jejunal mucosa of fasting rats. (*In print MPP*)
- 2) Thazhumpal C. Mathew, Suad M Abdeen, **Hussain Dashti**, Sami Asfar. Green Tea Induced Cellular Proliferation and the Expression of Transforming Growth Factor – b1 in the Jejunal Mucosa of Fasting Rats. ,MPP. March 07, 2017, Pages 1-8.
- 3) Sohn S, Larson DW, Habermann EB, Naessens JM, **Alabbad JY**, Liu H. Detection of clinically important colorectal surgical site infection using Bayesian network. J Surg Res. 2017 Mar; 209: 168 – 173.
- 4) Clinical presentation and outcomes of acute diverticulitis in a Middle Eastern population. Arab J Gastroenterol. 2019 Jun 4. pii: S1687-1979(19)30044-9. **Alabbad J**, Abdul Raheem F, Al-Saddah S, Al-Mubarak A.
- 5) Retrospective Clinical and Microbiologic Analysis of Patients with Anorectal Abscess. **Alabbad J**, Abdul Raheem F, Alkhalifa F, Hassan Y, Al-Banoun A, Alfouzan W. Surg Infect (Larchmt). 2018 Sep 20
- 6) The effects of tranexamic acid on blood loss and transfusion rate in colorectal surgery. Grass F, Braafladt S, **Alabbad J**, Lovely JK, Kelley SR, Mathis KL, Huebner M, Larson DW. Am J Surg. 2019 Mar 15. pii: S0002-9610(19)30173-4
- 7) Laparoscopy First Approach in Acute Care Surgery. Jamal MH, Karam A, Alsharqawi N, Buhamra A, AlBader I, **Al-Abbad J**, Dashti M, Abulhasan Y, Almahmeed H, AlSabah S. Med Princ Pract. 2019 Apr 16. doi: 10.1159/000500107. [Epub ahead of print]

- 8) **Mohammed H Jamal**, Suhail A R Doi, A James Moser, Sinziana Dumitra, Jad about Khalil, Eve Simoneau, Prosanto Chaudhury, Adedayo A Onitilo, Peter Metrakos, Jeffrey S Barkun. McGill Brisbane Symptom Score for patients with resectable pancreatic head adenocarcinoma. *World Journal of Gastroenterology* 2014; 20 (34): 12226 – 12232.
- 9) **Mohammad H. Jamal**, Ricard Corcelles, Hideharu Shimizu, Mathew Kroh, Fernando M. Safdie, Raul Rosental, Stacy A. Brethauer, Philip R Schauer. Thromboembolic events in bariatric surgery: a large multi-institutional referral center experience. *Surg Endosc* (2015) 29: 376 – 380.
- 10) **S Al Sabah**, E Al Haddad. Endoscopic management of post-laparoscopic sleeve gastrectomy stenosis. *Surgical Endoscopy*, 1-5, 2016.
- 11) **S Al Sabah**, F Al-Marri, JD Vaz. Intra-gastric balloon as a bridge procedure in patients with high body mass index. *Surgery for Obesity and Related Diseases* 12 (10), 1900-1901, 2016
- 12) A Al Sabah, **S Al Sabah**, S Al Sabah, A Al Serri, E Al Haddad, WM Renno. Investigating Factor involved in Post Laparoscopic Sleeve Gastrectomy (LSG) Neuropathy. *Obesity Surgery*, 1-6, 2016.
- 13) E Chouillard, A Younan, M Alkandari, R Daher, B Dejonghe, **S Al Sabah**. Roux-en-Y fistula-jejunostomy as a salvage procedure in patients with post-sleeve gastrectomy fistula: mid-term results. *Surgical endoscopy* 30 (10), 4200 – 4204, 2016.
- 14) **S Al Sabah**, N Alsharqawi A Almulla, S Akrof, K Alenezi, W Buhaimed, Approach to poor weight loss after laparoscopic sleeve gastrectomy: re-sleeve vs. gastric bypass. *Obesity surgery* 26 (10), 2302 – 2307, 2016.
- 15) E Chouillard, N Schoucair, **S Al Sabah**, B Alkandari, L Montana. Laparoscopic gastric plication (LGP) as an alternative to laparoscopic sleeve gastrectomy (LSG) in Patients with morbid obesity: A Preliminary, Short-Term Case-Control Study. *Obesity Surgery* 26 (6), 1167-1172, 2016.
- 16) E Chouillard, **S Al Sabah**, R Daher, A Younan, VJ Greco, E Chahine. Single-Incision Laparoscopy Could Be Better than Standard Laparoscopy in Right Colectomy for Cancer. *Journal of Laparoendoscopic & Advanced Surgical Techniques* 26 (5), 371 – 378, 2016.
- 17) A Algooneh, S Almazeedi, **S Al Sabah**, M Ahmed, F Othman. Non-alcoholic fatty liver disease resolution following sleeve gastrectomy. *Surgical endoscopy* 30 (5), 1983-1987, 2016.
- 21) **S Al Sabah**, F Al-Ghareeb, DAM Ali, A Al Adwani. Efficacy of intra-gastric balloon for the management of obesity: experience from Kuwait. *Surgical endoscopy* 30 (2) 50 – 54, 2016.

- 22 Abdul-Rasoul M, **AlOtaibi F**, Abdulla A, Rahme Z, Alshawaf F (2013). "Quality of life in children with type 1 diabetes in Kuwait. *Medical Principle and Practice: International Journal of the Kuwait University Health Sciences Centre*, DOI:10.1159/000347052.
- 23 Abdul-Rasoul M, **AlOtaibi F**, AlMahdi M, AlKandari H. (2012) Reliability and validity of the Arabic version of the PedsQLTM 4.0 generic ore scales and PedsQLTM 3.0 diabetes module. *International Journal of Diabetes Mellitus (IJDM)*, Vol.2, No.3, 301-307.
- 24 Al Otaibi F, **Abdul-Rasool M**, **Yaiesh R**, **AlOtaibi N**. (2017) Dyslipidemia in Kuwaiti Adolescents with Type 1 Diabetes. *Journal of Diabetes Mellitus*, Vol. 7, No.03, 96-107.
- 25 Ghannam S, Al Otabi FK, Frank K, Cotofana S. (2017) Efficacy of Low-Fluence Nd:YAG 1064 nm Laser for the Treatment of Post-Inflammatory Hyperpigmentation in the Axillary Area. J Drugs Dermatol. 2017 Nov 1;16(11):1118-1123.
- 26 Asfar S, Shuaib A, **Al-Otaibi F**, Asfar S, Kilarkaje N. (2018) A New Technique to Induce Experimental Myointimal Hyperplasia. Med Princ Pract, 2018 Jul.31; DOI: 10.1159/000492575: 1-5
- 27 Fatima Ibrahim Al-Yatama, **Fatemah AlOtaibi**, Maie Dawoud Al-Bader, and Kamal A. Al-Shoumer. (2019) The Effect of Clothing on Vitamin D Status, Bone Turnover Markers, and Bone Mineral Density in Young Kuwaiti Females. *International Journal of Endocrinology*, Volume 2019, Article ID 6794837, 10 pages.

Chapter in Book

Nil

CONTRIBUTIONS

b. Participation in Ministry / Government Activities

Dr. Ayed Adel Khader

- 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.

Dr. Behbehani Abdulla

- 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

Dr. Hunayan Adel

- 1) Consultant Surgeon, Department of Surgery, Mubarak Al-Kabeer Hospital, Ministry of Health
- 2) Head of Urology Unit, Mubarak Al-Kabeer Hospital.

Dr. Al-Saleh Mervat

- 1) Consultant Surgeon, Department of Surgery, Mubarak Al-Kabeer Hospital, Ministry of Health.
- 2) Member – KIMS promotion committee.

Dr. Al Bader Ibtisam

- 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. Jassim Al Abbad

- 1) Chairman, Department of Surgery, Mubarak Al Kabeer Hospital

b. Offices held in professional organizations

Dr. Ayed Adel Khader

- 1) Editor, Kuwait Medical Journal
- 2) Chairman, Faculty of Surgery, KIMS
- 3) Director, Postgraduate Surgical Training Programme, KIMS

Dr. Behbehani Abdulla

- 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.

Dr. Dashti Hussein

- 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. Al-Saleh Mervat

- 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

Dr. Ayed Adel Khader

- 1) Editor, Kuwait Medical Journal
- 2) Reviewer of Manuscripts for European Journal of Cardiothoracic Surgery

Dr. Dashti Hussein

- 1) Referee, Kuwait Medical Journal
- 2) Reviewer of Medical Principles and Practice
- 3) Reviewer of Nutrition Journal

Dr. Al-Saleh Mervat

- 1) Referee for Kuwait Medical Journal
- 2) Referee for Medical Principles and Practice

Dr. Behbehani Abdul Mutalib

- 1) Referee for Kuwait Medical Journal

Dr. Al-Sebeih Khalid

- 1) Referee, Kuwait Medical Journal

d. Active participation in professional conferences

Dr. Behbehani Abdulla

- 1) 4th 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. Behbehani Abdulla

- 1) External Examiner, Arab Board of Health Specialization, Basra, Iraq, February 2017

f. Contribution to committees in the Faculty of Medicine

Dr. Dashti Hussein

- 1) Chairman, Departmental Academic Staff Recruitment / Contract Renewal Committee.
- 2) Chairman, Departmental Scholarship Committee

Dr. Ayed Adel Khader

- 1) Ex-officio Examination Committee of Phase II Programme
- 2) Member, Faculty Council, Faculty of Medicine.

Dr. Hunayan Adel

- 1) Acting Vice President.

Dr. Al-Saleh Mervat

- 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. Behbehani Abdul Mutalib

- 1) Chairman, Departmental Handicap Assessment Committee
- 2) Chairman, Departmental Safety Committee
- 3) Member, Departmental Academic Staff Recruitment /Contract Renewal Committee

Dr. Abul Fawzi

- 1) Chairman, Departmental Instrument Committee
- 2) Chairman, Departmental Research Committee
- 3) Member, Departmental Academic Staff Recruitment/Contract Renewal Committee
- 4) Member, Departmental Curriculum and Examination Committee
- 5) Member, Clinical Tutors Committee

Dr. Khalid Al Sebeih

- 1) Member, Departmental Instrument Committee

Dr. Al-Kandari Ahmed

- 1) Member, Departmental Handicap Assessment Committee
- 2) Member, Departmental Instrument Committee
- 3) Departmental Curriculum and Examination Committee

Dr. Mohammed Jamal

- 3) Member, Departmental Research Committee

Dr. Al-Asfar Fahad

- 1) Departmental Research Coordinator
- 2) Member, Departmental Research Committee

Dr. Al Bader Ibtisam

- 1) Member, Departmental Curriculum and Examinations Committee.
- 2) Member, Clinical Tutor Committee.

Dr. Jassim Al Abbad

- 1) Member, Departmental Academic Staff Recruitment / Contract Renewal Committee.
- 2) Member, Departmental Curriculum and Examinations Committee.
- 3) Member, Departmental Scholarship Committee
- 4) Member, Clinical Tutors Committee

Dr. Saad Al dosari

- 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) 5th Year Phase III Co-ordinator
- 2) Member, Departmental Curriculum and Examinations Committee.
- 3) Member, Instrument Committee
- 4) Member, Departmental Handicap Assessment Committee
- 5) Member, Clinical Tutors Committee

Dr. Amar Alnaqi

- 1) 7th Year Phase III Co-ordinator
- 2) 7th Year Chief invigilator
- 3) Member, Clinical Tutor Committee.
- 4) Member, Departmental Curriculum and Examinations Committee.
- 5) Member, Departmental Research Committee
- 6) Member, Departmental Handicap Assessment Committee
- 7) Member, Departmental Safety Committee

Dr. Saud Al Zaid

- 1) Member, Departmental Curriculum and Examinations Committee.
- 2) Member, Departmental Instrument Committee
- 3) Member, Departmental Handicap Assessment Committee
- 4) Member, Departmental Safety Committee
- 5) Member, Clinical Tutor Committee.

Dr. Salman Al Sabah

- 1) Member, Departmental Research Committee
- 2) Member, Clinical Tutors Committee

Dr. Ahmed Al-Khamis

- 1) Member, Departmental Curriculum and Examinations Committee.
- 2) Member, Departmental Handicap Assessment Committee
- 3) Member, Clinical Tutors Committee
- 4) Exam Coordinator

Dr. Salman Alsafran

- 1) Member, Departmental Curriculum and Examination Committee
- 2) Member, Clinical Tutors Committee

Dr. Talal Alabduljalil

- 1) 6th Year Phase III Co-ordinator
- 2) Member, Departmental Curriculum and Examinations Committee

g. Contribution to committees outside the Faculty

Dr. Ayed Adel Khader

- 1) 1) Represent Faculty of Medicine in University Scholarship Committee
- 2) 2) Represent the Faculty of Medicine in University Scientific Council.

Dr. Behbehani Abdulla

- 3) Consultant – Court medical cases.
- 4) Member of Kuwait Association for the Care of Children in Hospital (KACCH)

Dr. Al-Sebeih Khalid

- 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 99 students that appeared for the 5th year examination all passed with 2 getting A grade. Out of 114 students appeared for the 6th year examination all passed with 2 getting A- grade. Out of 101 students that appeared for the 7th year examinations all passed with 6 students getting A grade. We had no failures for the 5th 6th and 7th years.

Grades	5th Year	6th Year	7th Year
A	3	-	6
A-	15	2	14
B+	30	24	50
B	34	49	27
B-	15	32	4
C+	2	6	-
C	-	1	-
F	-	-	-
Total	99	114	101

We had four external examiners, two from UK and two from Canada. All of them were pleased with the way the examinations were arranged and conducted. They reviewed our MCQs and said that the questions were fair and at par with the type of questions they used.

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 five doctors applying for scholarship training. After interviewing them, four were accepted by the Department and later by the Faculty Scholarship Screening Committee. We hope the four would be accepted by the University. With these four, 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

- Mrs. Grace Gejo

Engineer

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.

CENTRE FOR MEDICAL EDUCATION

I. INTRODUCTION

The Centre for Medical Education (CME) provides oversight for the development, direction and coordination of all curricular and continuing medical education activities of the Faculty of Medicine in accordance with the overall mission and objectives of the faculty of medicine. The Centre works closely with the appointed Faculty who coordinate and direct all phases and components of the program, including module coordinators, phase committees, assessment committees, clinical skill coordinators, PBL coordination group and ad-hoc planning groups.

The CME also coordinates actively with the Faculty Academic Accreditation Committee to follow through accreditation policies and procedures and ongoing status of the CME program. The main working load by the members is administrative related to every module, theoretical test, OSCE/OSPE, and module and staff evaluations. The teaching load though is limited to remedial classes and coordination of clinical skills training sessions. However, the Director of the Unit is actively involved in teaching both at the Undergraduate and Post graduate level. The research component is getting active within the unit and in cooperation with other departments.

Mission:

The overall mission of the Centre is to provide leadership for the Faculty of Medicine's undergraduate program and support its educational mission.

The Centre provides the following services:

- Support the planning and review of all the three phases of the new curriculum
- Assist the delivery of scheduled teaching, learning resources and associated programs
- Hold training workshops under the theme 'Faculty Capacity Development' to enhance faculty development with new educational skills i.e. PBLs, clinical skills teaching
- Hold training workshops for simulated patients used during the clinical skill sessions and structured clinical examinations (OSCEs)
- Organize quality assurance indicators for all aspects of the new curriculum
- Enhance the delivery of comprehensive high quality student assessment
- Quality assurance of student assessments and maintain the central question bank
- Provide immediate detailed electronic graphic feedback to students on their academic
- Suggest remedial courses/support to students
- Develop an environment of continuous quality improvement through faculty and student feedback
- Develop innovations to support the delivery of a world class educational experience
- Introduce and encourage Faculty in the use of Best Evidence Medical Education
- Promote the Faculty of Medicine as a centre of excellence in Medical Education
- Initiate scholarship and research in the field of Medical Education

- The Faculty Assessment Office established to deliver such services as formatting test questions as per the in-house style, scoring, analysis of students and questions performance, standard setting, and administration of Faculty of medicine Question Bank.

The CME works under the direct supervision of the Vice Dean Academic (VDA) in managing the medical education program.

MANPOWER

Director

Prof. Jamshaid Iqbal

Teaching Assistants

Mr. Ahmed M Mohammed, B.Sc., M.Sc., NMBC, MHPE,	<i>Assessment Officer</i>
Dr. Annie Pothen, MBBS., MS, DLO,	<i>Clinical Skills Coordinator</i>
Dr. Julie Jacob Varghese MBBS, MD (Physiology),	<i>Clinical Skills Coordinator</i>

SUPPORT STAFF

Technicians

<i>Mrs. Preethi John, Laboratory technician</i>	<i>2nd Year Modules Administrator</i>
Mrs. Sumitha Satheesh, M.Sc., BEd, PGDCA,	<i>3rd Year Modules and Phase III Administrator</i>
Mrs. Preetha Merin Thomas, B. Tech (Eng.)	<i>4th Year Modules and Phase III Administrator</i>

Annual report is based on the following activities by the CME:

- I. Academic and Training activities by the CME
 - a. Faculty Capacity Development Workshops
- II. Quality assurance & Review of Curriculum
- III. Assessment Office
- IV. Students Guidance
- V. Academic accreditation activities
- VI. Academic & Research Activities by the CME Director
- VII. Major concerns and areas of improvements

I. Academic Training Activities undertaken by the Centre

Training Courses & Workshops Organized & Conducted

A. Faculty Capacity Development Workshops:

1. Faculty Development Workshop on 'Clinical Skill Training' for Trainers' Centre for Medical Education, Faculty of Medicine, Kuwait University, Jabriya, Kuwait. 20th September, 2019.
2. Faculty Development Workshop on 'PBL Facilitation: steps and dynamics of PBL' Centre for Medical Education, Faculty of Medicine, Kuwait University, Jabriya, Kuwait. 23rd September, 2019.
3. Faculty Development Workshop on 'Assessment Item Writing & Analysis'
4. Centre for Medical Education, Faculty of Medicine, Kuwait University, Jabriya, Kuwait. 27th September, 2019
 - a. 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
 - b. ii, A 1-hour practice session on analysis of sample questions, editing fixing the flaws of sample questions by the participants.
5. Faculty Development Workshop on 'New Curriculum' Centre for Medical Education, Faculty of Medicine, Kuwait University, Jabriya, Kuwait. 6th October, 2019
6. Steps and Dynamics of PBL
7. Faculty Development Workshop, Faculty of Medicine, Kuwait University
 - a. 28th January & 2nd February, 2020
8. Assessment & Item Writing Strategy. Faculty Development Workshop – Faculty of Dentistry, Kuwait University. 11th & 18th February, 2020.
9. Training of Staff on MS Teams for online teaching sessions May-June 2020
10. Training of Technical Staff on entering curriculum on MS Teams June-July 2020

B. CPR Training Course for Phase II 4th Year Students

A basic CPR training program was organized for 4th Year students February 2020

C. Training Programs for Standardized Patients (SPs):

Phase II

4. SPs for history givers & Communication skills -Revisit

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

Dates: 4 Training workshops during 2019-2020

Target Group: 12 Teaching Assistants & 9 Scientific Assistants

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

5. SPs for history givers & Communication skills – Scientific Assistants

Objective: Train New SPs to present case History in response to questioning by students
Date: 3 Training sessions in 2019-20

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.

6. SPs for Physical Examinations

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

Date: 5 Training sessions in 2019-20

Target Group: 10 SPs

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

Each training session included detailed briefing, preparation for the Physical examination and Demo of the Physical Examination.

B. Contribution to other Faculties & Committees

1. Assisting KIMS in improving their scoring system and item analysis.
2. Assisting the Department of Microbiology Curriculum Committee in reviewing the Microbiology content contribution in Foundation Block II and I & I Module for the Years 2019-2020
3. Assisting the Phase II OSPE Committee in review, coordination and conduction of OSPE I & OSPE Assessments for the 3rd & 4th Year Medical/Dental students for the Year 2019-2020
4. Providing the Examination Committee with detailed reports on the performance of both the students and the questions in every exam paper.

Faculty of Pharmacy

A 4-week Basic Clinical Skill Program was conducted for Pharm D students

Coordinator: Dr. Saud Al-Enezi

II. Quality Assurance and Review of Curriculum (2019-2020):

CME is actively engaged in quality assurance and review of the curriculum following feedback from the Faculty Staff, External Examiners and students. Important changes are made in the Lecture topics, PBL cases, clinical skill sessions and hospital visits in coordination with respective Module coordinators.

All changes are discussed and approved by the Module Coordination Committee and Vice Dean Academic and the major changes are endorsed by the Faculty Curriculum Committee.

The following review were undertaken during the academic year 2019-20:

1. Framework for Phase III clinical Rotations

A plan to develop a common framework for Phase III clinical rotations is initiated with the following points:

- 1, Clinical Rotation Educational Outcomes
- 2, Specific Rotation Outcomes/Objectives for Year 7 (Graduating Year)
- 3, Curriculum mapping of Fundamental skills or Competencies
- 4, Outline of Clinical Rotation Program/Course Description
 - Rotation Objectives and Description

2. Development of a new Module Report by Module Coordinators

3. Review of Phase II Modules:

a, CVS and Digestive Modules

An extensive review of CVS and Digestive modules was undertaken in coordination with respective Module coordinators following feedback from the Faculty Staff, External Examiners and students. Important changes were made in the Lecture topics, PBL cases and hospital visits.

b, Review of Radiology teaching

An in-depth review of Radiology teaching sessions esp in Respiratory and Digestive modules was undertaken following student's feedback and concerns. Appropriate changes were suggested for the Respiratory module teaching the sessions in small group of students during the Clinical Skill Sessions.

c, Review of Clinical Skill Sessions (continue ...):

An ongoing review is being undertaken following feedback from the Staff and introduction of recent Faculty regulation declaring clinical skill assessments a non-compensatory assessment component. Appropriate changes in clinical skill sessions were made to align the related clinical skills to the respective modules and to introduce two weeks of 'supervised practice sessions' for students at the end of each module.

i, Renal Clinical Skill Reviewers: Dr. Wael El-Reshaid, Dr. Fatima K. Ali, Dr. J. Iqbal

iii. Review of Musculoskeletal (MSK) Clinical Skill sessions

Clinical skill sessions were reviewed and modified to more practical approach at the skill level 1 & 2. New stations were also introduced on knee and shoulder joints

Reviewers: Dr. Ali, MSK Module coordinator, Dr. Saud Al-Enezi, Dr. Jamshaid Iqbal

iv, Practice & Formative OSCE sessions: This year, these sessions were cancelled due Corona pandemic.

v. Review of History Transcripts for SPs in Clinical Skill sessions:

A detailed review of history transcripts was continued to be undertaken after SPs training sessions following SP's feedback on their experiences with students' questions. A total of 4 transcripts were revised and finalized for training & assessment.

Reviewer: Prof. Jamshaid Iqbal

III. Assessment Office:

1. Review of Phase II Assessments Questions:

Being the Chairman, Phase II Examination Committee, Question-mapping and Review of the following assessments were done with members of the Exam Committee:

A, Review of all Year 3 & Year 4 End-of-Module Assessment Questions 2019-20

B, Review of Year 3 & Year 4 End-of-Year Final Examination Questions 2019-20

C, Review of Year 3 & 4 OSPE & Final OSCE online stations September 2020

2. Item analysis & Approval of Phase II Assessments Exams:

All Phase II Module end-of-module assessments, OSPEs and OSCEs were reviewed with item analysis and feedback sent to students and the concerned departments:

[Blood, CVS, Respiratory system, Endocrine, Nervous system, Renal Module, Reproductive, Breast Module, Digestive system].

3. Maintenance of Question Bank

All itemized questions with their respective ID are stored in the questions bank for safe record and review. All items are stored in encrypted form for safe keeping. The items are open for use by the module coordinators under supervision.

IV. Student Guidance:

The students, in need, are counselled on their Academic Performance by detailed review of their Assessment record following each Module Assessment. The students are referred by the VDA Office for guidance.

The students are guided on their performance and Effective time management.

V. Academic Accreditation activities

The Director, CME is a member of the Faculty Academic Accreditation Committee and is actively in the preparation of Self-evaluation accreditation document.

Consultant, Microbiology, Mubarak Al-Kabir Hospital, Kuwait

VI. Phase I & Phase II Curriculum Strategic Planning Committee for online Teaching

As Chairman of the Committee, to review and plan for online teaching sessions in Phase I & Phase II, including assessment during the ongoing Corona pandemic.

- VIII.** Coordinate with Faculty Safety Committee to formulate safety guidelines for in-person written and OSCE exams during the ongoing Corona pandemic

VI. Academic & Research Activities by the CME Director

Prof. Jamshaid Iqbal

I. Teaching

Faculty of Medicine

Teaching:	Semester I	Semester II	Total
Undergraduate Teaching:	114	100	214 Hours
Graduate Teaching:			
MSc	83	106	189 Hours
PhD		60	60 Hours
KIMS Board	34	--	34 Hours
[Detail in the department of Microbiology annual report]			

II. Research Activities

i, Dissertation Supervision of MSc

Dissertation Supervision of MSc student Miss Nourah Al-Shammari, Department of Microbiology entitled ‘Seroprevalence and subtyping of *Toxoplasma gondii* infection in pregnant women in Kuwait’ in collaboration with Prof. Suhail Ahmen, Department of Microbiology, Faculty of Medicine.

ii, Dissertation Supervision of PhD

Dissertation Supervision of PhD student Mohammad Al-Awadi, Department of Microbiology entitled ‘*Detection of Taeniasis & Cysticercosis in Kuwait and determination of High risk factors*’ is continued.

iii, Medical Education Pilot Studies by Students:

- i, Evaluation of Student’s feedback on Medical Curriculum- their Experience – *Graduating Students*
- ii, Social & cultural impact on learning clinical skills- myth or a fact - *Phase II Student group*

Publications & Technical Reports

I. Technical reports (*submitted to the Dean & Vice Dean Academic, Faculty of Medicine*)

1. Updated Feedback forms

- a. Electronic feedback on Written Assessments
- b. Electronic feedback on CPR performance

- c. Electronic feedback on Departmental performance
- d. Phase II Module Evaluation by students
- e. Phase II PBL Performance Evaluation by Facilitators
- f. Hospital visit objectives for Clinical Tutors
- g. Student Evaluation by Clinical Tutors
- h. Clinical Evaluation by Students

II. Scientific Papers Presented & Attended:

a) *Invited Speaker for Oral Presentation & Chairmanship*

1. Assessment & Item Writing Strategy. Faculty Development Workshop – Faculty of Dentistry, Kuwait University. 11th & 18th February, 2020.

b) *Poster Presentation*

1. Seroprevalence of *Toxoplasma gondii* infection among pregnant women in Kuwait. 458th International Conference on Medical & Health Sciences ICMHS 2019; Miami, USA. July 23rd - 24th 2019.
2. Seroprevalence of *T. solium* taeniasis among expatriate domestic helpers and food handlers arriving from endemic countries in Kuwait: a potential public health concern. 458th International Conference on Medical & Health Sciences ICMHS 2019; Miami, USA. July 23rd - 24th 2019.

Participation in Administration & Committees

Kuwait University Committees

Kuwait University Faculty Association, Academic-subcommittee

Faculty of Medicine

Administrative Positions:

Director, Centre for Medical Education, Faculty of Medicine

Director, Clinical skill Laboratory

Chairman, Phase II Examination Committee

Faculty Committees

1. Chairman, Phase II Examination Committee
2. Coordinator, Phase II Clinical Skill
3. Chairman, Clinical Skill Review Committee
4. Member, Phase III Curriculum Review Committee
5. Member, Faculty Accreditation Committee

Department of Microbiology

Appointment & Promotion Committee

Committees outside the Faculty

- Member, Kuwaiti Board in Clinical Microbiology, KIMS
- Member, faculty of Allied Health Curriculum Review Committee

Advisory Editor services for Professional Journals

Reviewer:

1. American Journal of Tropical Medicine and Hygiene, USA
2. The Journal of Medical Microbiology, UK
3. Kuwait Medical Journal (KMJ), Kuwait
4. Eastern Mediterranean Health Journal (EMRO/WHO)
5. Journal of Medical Science Monitor (MSM), USA
6. Journal of Tropical Medicine and International Health, UK

Community Services

Consultant Clinical Microbiologist, Mubarak Al-Kabeer Hospital

VII. Concerns & Areas of Improvement

The Center for Medication is an important component of Faculty of Medicine that provides oversight for the development, direction and coordination of all curricular and continuing medical education activities of the Faculty. However, the current somewhat *ad hoc status* severely compromises its capacity to function both administratively and academically to fulfill its desired activities. The designation of Center for Medical Education as a independent Center/department under Vice Dean Academic by the Faculty and the University is strongly suggested as is envisaged by the Academic Curriculum Accreditation Standards.

**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 (May 2019-Sep 2020) of the Academic year 2019-2020.

IMAGES	=	6284
PRINTS	=	334
SCANNINGS	=	411
POSTERS	=	89
VIDEO SESSIONS	=	226 hours

In addition, the unit assisted in different workshops, seminars, examinations, training and conferences for the coverage of videography and Media Presentation, Clinical and Surgical documentation from hospital for Teaching and Research purpose. This activity is gradually

increasing. Due to the limited staff and equipment we provide these services to other faculties of HSC depending upon availability of staff /time.

Equipments:

We have two A4 table top color printers for printing different sizes of prints. One large Format Poster printer purchased in 2011. This printer has been used too much and need to be replaced with new one. For making posters for 25th 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 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 in 2016, two Panasonic digital video cameras 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 as early as possible to continue this service from our unit.

We have four digital Photographic cameras for still photography, out of it two cameras are almost 13 years old have completed their life because of their too much use.

We have one Photograph printing machine which is more than 14 years old and out of maintenance for 6 years due to denial for maintenance from manufacturer because model is very old and spare parts are not available.

PRESENT SITUATION IN THE UNIT.

At the time, when this unit was providing service only for faculty of Medicine, the unit had 5 technical staff members. At present the unit has 1 chief technician, one technician. We are only two (including me) persons for five faculties. The unit is also providing its services at some time for seminars, lectures and workshops held by the KIMS and organized by faculty of medicine academic staff in this campus.

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 continue 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

To cope with the service demands, budget should be increased for this unit. We must purchase a new poster printer because present printer is more than 9 years old. We need to buy one new photographic camera, one video editing computer with editing software and 32 inch LCD, one 1000 GB external hard disk. We must have two trained staff in this field as soon as possible.

CURRENT STAFF.

- | | |
|-------------------------|------------------------------|
| 1. Mohammad Siddique | Chief Technician & In-charge |
| 2. H Zakir Hussain | Printing Lab. Technician |
| 3. Ms. Dana Al-Jarallah | Media researcher |