




**Kuwait University**  
**Health Sciences Center**  
**Vice President Office for Health Sciences**



# **The HSC Medical Waste Management System**

**Hanan Al-Awadhi**

# Outline

- 1. Health, Safety and Environment Services at HSC**
- 2. HSC Medical Waste Management**
  - I. System Overview**
  - II. Operations**
  - III. Reporting Protocol**
  - IV. Documentation**
- 3. General Remarks**
- 4. Q&A Session**

# Health, Safety and Environment Services at HSC

**HSC serves as KU medical campus that  
consists of:**

- FOM**
- FOAHS**
- FOP**
- FOD**
- VPO**

## HSE at HSC- Cont.,

- ❑ **VPO is collaborating with HSC faculties and KU different departments to:**
  - **Enhance environmental health and safety at HSC**
  - **Make HSC a safer and healthier environment for staff, students and visitors**

# HSE at HSC- Cont.,

**VPO Plans** for HSE services at HSC include:

- Medical Waste Management System**
- Environmental and Occupational Health**
- Facility Safety**
- Laboratory Safety**

## HSE at HSC- Cont.,

- ❑ Currently, VPO provides medical waste management services; other HSE services will be activated in the future
- ❑ VPO formed the **HSC Laboratory and Environmental Safety Committee** in 2009 to be in-charge of the HSC **Medical Waste Management System**

# HSE at HSC- Cont.,

## Who serves in the HSC LES Committee?

<b>FOM Representatives</b>	<b>➤ Mohamed Sakr</b> <b>➤ T.S. Srikumar</b>	<b><u><a href="mailto:mohsagr@hsc.edu.kw">mohsagr@hsc.edu.kw</a></u></b> <b><u><a href="mailto:srikumar@hsc.edu.kw">srikumar@hsc.edu.kw</a></u></b>
<b>FOAHS Representative</b>	<b>➤ Leina Ibrahim</b>	<b><u><a href="mailto:leina@hsc.edu.kw">leina@hsc.edu.kw</a></u></b>
<b>FOP Representative</b>	<b>➤ Sulaiman Al-Sulaiman</b>	<b><u><a href="mailto:zergi@hsc.edu.kw">zergi@hsc.edu.kw</a></u></b>
<b>FOD Representative</b>	<b>➤ Subhadra Surana</b>	<b><u><a href="mailto:surana@hsc.edu.kw">surana@hsc.edu.kw</a></u></b>
<b>VPO Representative &amp; <i>Committee Officer</i></b>	<b>➤ Hanan Al-Awadhi</b>	<b><u><a href="mailto:halawadhi@hsc.edu.kw">halawadhi@hsc.edu.kw</a></u></b>



# HSC Medical Waste Management System

- I. System Overview**
- II. Operations**
- III. Reporting Protocol**
- IV. Documentation**



# I. System Overview

## What is the HSC Medical Waste Management System?

**It is a system that manages hazardous and nonhazardous medical wastes produced within:**

- FOM
- FOP
- ARC
- FOAHS
- FOD (including KU Dental Clinic)
- RCF

# System Overview- Cont.,

## What is the System functionality?

- Collection**
- Treatment either on-site (*when possible*) or off-site**
- Safe Disposal**  
**of all types of medical wastes**

# System Overview- Cont.,

## Where are medical wastes produced?

- HSC clinically-oriented departments
- HSC laboratory-oriented departments
- HSC facilities e.g. RCF, ARC, Dental Clinic

# System Overview- Cont.,

**What are the different types of medical wastes?**

- Chemical**
- Pharmaceutical (Therapeutic Chemical)**
- Biological or Biohazards**
- Animal**
- Dental**

# Cont.,

- Decayed Radioactive**
- Glassware**
- Expired or Dead Dry Cell Batteries**
- Other Wastes**

## NOTE

**The radioactive wastes collected from HSC will be in a decayed stage and are exempted from MOH ACT No. 553 for the Year 2003**

## II. Operations

- Collection of wastes**
  - **On a scheduled basis**
  - **On demand**
- Provision of appropriate waste containers and all necessary items for a safe disposal to each waste type**
- Validation of waste treatment methods**

## Operations- Cont.,

- Proper transport of treated and non-treated wastes from HSC to treatment or disposal areas**
- Safe disposal of all types of waste in designated areas approved by Kuwait EPA and Kuwait PAI**
- Maintaining proper records/ log system**

# Operations- Cont.,

- ❑ **Abiding the regulations and the standards of:**
  - **Kuwait EPA**
  - **Kuwait PAI**
  - **Kuwait MOH**
  - **Kuwait MOI- Department of Transportation and Traffic**
  - **WHO**
  - **Others**



# Operations- Cont.,

## What is your role in the System Operations?

- ❑ You are to
  - Abide to safe laboratory practices
  - Collaborate with your faculty representative(s) to ensure that the System is running as it should be e.g. reporting, documentation, etc

# Operations- Cont.,

## What are the waste collection times?

### Scheduled Waste Collection

*per your faculty representative's recommendations*

- FOM**                    ➤ **Daily at 11:00 AM; except Department of Microbiology at 03:00 PM**
- FOAHS**                ➤ **Daily at 08:30 AM**
- FOP**                     ➤ **Weekly on Thursday at 09:00 AM**
- FOD**                    ➤ **Daily at 05:00 PM for KU Dental Clinic**  
                                 ➤ **Twice a week for FOD laboratories**
- RCF**                    ➤ **Daily at 12:00 NOON**

## Operations- Cont.,

- To request a change in the scheduled waste collection times, please communicate with your faculty representative(s)
- For on-call waste collection requests, please call the **System Operator** directly at 66829485

# Operations- Cont.,

## Key Points in Operations

- ❑ **HSC Medical Waste Management System is not a system of waste treatment equipment but rather a managerial system that aims to properly manage medical wastes in HSC starting from waste segregation at production points to safe disposal**

# Operations- Cont.,

Examples of waste bags and containers that will be delivered to HSC



## Operations- Cont.,

- ❑ Each scientific department has to identify a waste collection point. If not identified yet, then each chief technician has to communicate with his/her faculty representative(s) to identify one.
- ❑ The System operator **(the Contractor)** will collect wastes from the predefined WCPs

## Operations- Cont.,

- ❑ **Al-Essa Company for Medical and Scientific Equipment Company** is the HSC contractor to carry out the required services for a contract period from 01/02/2011-31/01/2013
- ❑ The **Contractor** team has 4, pre-approved laborers stationed in HSC LG

## Operations- Cont.,

- ❑ Communication with the **Contractor** is through your faculty representative(s) with the exception to *per call waste collection requests*
- ❑ The **Response Time** is 20 minutes. Failure to respond promptly will lead penalty application.

### NOTE

**Date and time of each call should be recorded in a special departmental log**



## Operations- Cont.,

### **Breach of contract means *PENALTIES***

- KD 100 per day for delay in service delivery**
- KD 50 per case for failure to respond**
- KD 50 per working day for failure to deliver proper health records for substitute laborers**
- KD 100 per laborer if not qualified**

## Operations- Cont.,

- ❑ In case of service dissatisfaction, 3 complaints count towards 1 warning; 3 warnings and failure to correct the situation lead to heavier penalties e.g. 20% of contract value penalty, contract termination, etc**

## III. Reporting Protocol

### How and to whom to report?

- ❑ Reporting of breach of contract incidents, complaints or recommendations should be addressed directly in writing *via e-mail* to your faculty representative(s) in the HSC Laboratory and Environmental Safety Committee

## IV. Documentation

- ❑ Every department chief technician or in-charge has to complete the **Medical Waste Manifest Form** on a daily basis. The signed, completed **Form** should be forwarded to your faculty representative(s) on a monthly basis

# Documentation- Cont.,



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## Medical Waste Manifest Form

Select your HSC Faculty or Facility

FOM

FOAHS

FOP

FOD

RCF

Department

Month/Year

Waste Production in L or Kg (Number Format: ##.##)

Day	Chemical		Pharmaceutical		Biological		Decayed Radioactive		Dental		Animal (Kg)	Glassware (Kg)	Expired Cell Batteries (Kg)	Others	
	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)				Solid (Kg)	Liquid (L)
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Front Cover

# Documentation- Cont.,



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Day	Chemical		Pharmaceutical		Biological		Decayed Radioactive		Dental		Animal	Glassware	Expired Cell Batteries	Others	
	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)	Solid (Kg)	Liquid (L)	(Kg)	(Kg)	(Kg)	Solid (Kg)	Liquid (L)
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<b>TOTAL</b>															

Department Chief Technician or Department in-Charge Name and Signature .....

Back Cover

## Documentation Cont.,

- The **Form** will be available online after this orientation on the VPO page

<http://www.hsc.edu.kw/vpo/>

Hard copies are already available with your faculty representative(s).

Completing this **Form** will be effective across HSC as of

**May 01, 2011**

## Documentation- Cont.,

- ❑ Reference materials and guidance documents on medical/healthcare waste management, and on health, safety and environment along with this presentation will be available online as well very shortly



# General Remarks

- ❑ An structured training session on medical waste management by experts will take place during the mid year break i.e. between **22/01-04/02/2012**
- ❑ All HSC staff working in laboratories for both teaching and research purposes must attend the training  
**So, make sure that you are around!!**

## General Remarks- Cont.,

- Announcements will be sent to you via the HSC E-mail Announcement System. Thus, make sure that you check your HSC e-mail frequently**
- Contract copies were sent to your faculty dean for distribution on 22/03/2011**

# Q&A Session



**Thank you**



*Help us make HSC a safer and a healthier environment*