Kuwait University
Health Sciences Center
Vice President Office for Health Sciences

in collaboration with
Al-Essa Medical & Scientific Equipment Company

Medical Waste Management Training Workshop

SESSION A: 29-30/01/2012
SESSION B: 31/01-01/02/2012
Outline

1. Medical Waste Management at HSC: WHY?

2. HSC Medical Waste Management System
   I. System Overview
   II. Operations
   III. Reporting Protocol
   IV. Documentation
Medical Waste Management at HSC: WHY?!

- To enhance environmental health and safety at HSC
- To make HSC a safer and healthier environment for staff, students and visitors

Still, in a plain language what does that mean?
Trash goes out

You go in.
How to stay safe at HSC?!
Medical Waste Management
VPO formed the HSC Laboratory and Environmental Safety Committee in 2009 to be in-charge of the HSC Medical Waste Management System.

The Committee aims to standardize safe laboratory practices and medical waste management practices at HSC.
Who serves in the HSC LES Committee?

FOM Representatives
- Mohamed Sakr: mohsakr@hsc.edu.kw
- T.S. Srikumar: srikumar@hsc.edu.kw

FOAHS Representative
- Leina Ibrahim: leina@hsc.edu.kw

FOP Representative
- Sulaiman Al-Sulaiman: zergi@hsc.edu.kw

FOD Representative
- Subhadra Surana: surana@hsc.edu.kw

VPO Representative & Committee Officer
- Hanan Al-Awadhi: halawadhi@hsc.edu.kw
- ARC
- RCF
- FOM Departments

FOM

- FOAHS Departments

FOAHS

- FOP Departments

FOP

- KU Dental Clinic
- FOD Departments

FOD

- VPO Units
- LES Committee

VPO
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
- FOAHS
- FOP
- FOD (including KU Dental Clinic)
- ARC
- 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
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

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
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
Key Point 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
Operations- Cont.,

- Each scientific department has to identify a waste collection point. If not identified yet, each chief technician has to communicate with his/her faculty representative(s) to identify one.

- The System operator (the Contractor) collects 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.

- Communication with the Contractor is through your faculty representative(s) with the exception to on demand 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.
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.,

**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: ##.##)

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<th>Chemical</th>
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Front Cover
# Documentation- Cont.,

![Image](image-url)

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Department Chief Technician or Department in-Charge Name and Signature

Back Cover
Documentation Cont.,

- The **Form** is available online at
  
  http://www.hsc.edu.kw/vpo/Health_Safety_and_Environment/

- Hard copies are already available with your faculty representative(s).
  Completing this **Form** has been effective across HSC as of **May 01, 2011**
I have attended both the HSC Medical Waste Management orientation and the training workshop. Still, I feel confused a little bit.

What should I do in the following situations??!
Situation 1

How can I protect myself while working in the lab?

<table>
<thead>
<tr>
<th>Required Practice (Section in Part 2 of Manual)</th>
<th>CSL-1</th>
<th>CSL-2</th>
<th>CSL-3</th>
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<td>Pre-Plan Chemical Use (hazards researched &amp; adequate hazard controls &amp; emergency equipment in place) (1.1)</td>
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<td>Categorize and Post Lab or Request Prior Approval (1.1)</td>
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<td>Responsible Chemical Acquisition (small quantities / knowledgeable recipients) (1.3)</td>
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<td>Proper Chemical Labeling (1.4)</td>
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<td>Safe Distribution (1.7)</td>
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<td>Users Knowledgeable of Hazards (1.8.1)</td>
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<td>Users Understand and Use Hazard Controls (1.8.2)</td>
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<td>Users Know Emergency Procedures (1.8.3)</td>
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<td>Avoid Hazardous Chemical Exposure By Any Route (1.8.4)</td>
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<td>Keep Flammables From Ignition Sources (1.9)</td>
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<td>Control Explosive / Implosive Conditions (1.10)</td>
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<td>Proper Waste Containment / Identification / Accumulation / Notification (1.12)</td>
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<td>Validation of Safety Equipment (2.1)</td>
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<td>Laboratory Chemical Safety Self-Inspections (2.2)</td>
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<td>Recordkeeping (4)</td>
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<td>Formally Check-Out Before Leaving University (1.14)</td>
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</table>
Situation 2

I accidently spilled chemicals in my lab, what should I do?

- Contain the spill and clean it up yourself ASAP. Do NOT ask the janitors or the cleaners to do that for you! They are not well informed but you ARE!
- Inform your supervisor.
- Report it in writing in your department log.
Situation 3

I need to learn more about laboratory safe practices, medical waste management, and occupational health. Please help me!

Reference materials and guidance documents on medical waste management, and on health, safety and environment in addition to the training presentations will be available online very shortly at

http://www.hsc.edu.kw/vpo/Health_Safety_and_Environment/
Situation 4

HSC has long-term plans for enhancing HSE at HSC. How can I help?

- Educate yourself.
- Communicate with your faculty representative(s) in the LES Committee about your HSE problems, recommendations & success stories.
- Be ready to volunteer when needed!!
Thank you
Help us make HSC a safer and a healthier environment