Outline

- Overview of Kuwait University Health Sciences Center
- The Safety Concept
- Health, Safety & Environment Services
Kuwait University Health Sciences Center

HSC serves as the medical campus for KU. It includes KU health sciences related faculties in addition to administrative and services facilities:

- Faculty of Medicine
- Faculty of Allied Health Sciences
- Faculty of Pharmacy
- Faculty of Dentistry
- Vice President Office for Health Sciences (VPO, HSCLA, TSA, MPP, ELU)
HSC has long-standing commitments to quality of research and education in health sciences. These commitments can only be honored when our staff, students and visitors are kept safe and healthy every day during their pursuit of knowledge breakthroughs.
Safety Matters!!
The Safety Concept

Snapshot of Environmental Health & Safety at HSC prior to 2009:

- No proper records of medical waste streams production
- No clear environmental health & safety guidelines and services
- No proper records of occupational injuries
- Individual efforts at departmental level and/or faculty level to enhance safety
- Safety as an occupational health concept was missing
2009 Onwards

- The Vice President for Health Sciences formed the HSC Laboratory & Environmental Safety Committee in January 2009 to:
  - Provide systematic solutions for medical waste management
  - Unify laboratory safety and environmental health guidelines across HSC
  - Enhance environmental health & safety at HSC

- The Committee has representation of all HSC faculties and reports directly to the Vice President for Health Sciences

- From 2009–2011, the Committee was working on setting the foundations for a comprehensive medical waste management services at HSC
Cont.,

- Up to January 2011, medical waste management services at HSC were limited to collection and on-site treatment of biological waste before disposing them in Shuaiba landfills.

- In February 2011, the HSC Medical Waste Management System became effective.
The HSE services, current and future, are based on 3 principles:

- Education
- Communication
- Mechanism
**Mechanism**

- HSC Medical Waste Management
- Incident Report
- Medical Waste Manifest
- Safety Audit
- E-Services
- Code of Conduct *(FUTURE)*

**Education**

- HSE Training Programs
- HSE Lecture Series
- E-Services
- Online Certification *(FUTURE)*
- HSE Awareness Campaign *(FUTURE)*

**Communication**

- Incident Report
- Open Communication
- E-Services
- HSE Awareness Campaign *(FUTURE)*
Examples of Mechanism:
HSC Medical Waste Management System

- It is a system that manages hazardous and nonhazardous medical wastes produced within the HSC faculties and facilities.

- Medical waste streams that are covered by the System include:
  - Biohazardous/Biological
  - Chemical
  - Pharmaceutical
  - Decayed Radioactive
  - Animal
  - Dental
  - Glassware (& Plasticware)
  - Expired Dry-cell Batteries
  - Others
## The System Functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containment Provision</td>
<td>Provide HSC staff &amp; students with color-coded waste bags &amp; containers</td>
</tr>
<tr>
<td>Collection</td>
<td>Wastes are collected on scheduled basis and on demand</td>
</tr>
<tr>
<td>Treatment</td>
<td>Wastes are treated either on-site where applicable and off-site</td>
</tr>
<tr>
<td>Validation</td>
<td>Treatment methods are validated</td>
</tr>
<tr>
<td>Transport</td>
<td>Proper transport of treated and non-treated wastes from HSC to treatment facilities and/or safe disposal</td>
</tr>
<tr>
<td>Safe Disposal</td>
<td>Safe disposal of all waste streams in designated areas approved by local authorities (MOH, EPA &amp; PAI)</td>
</tr>
<tr>
<td>Records Keeping</td>
<td>Maintaining proper records/log system</td>
</tr>
</tbody>
</table>
A Closer Look on Operations

- The producer of medical wastes (i.e. staff or student) places segregated waste streams in designated color-coded containers

- The System operator (i.e. contractor) then collects wastes from pre-defined waste collection points either on scheduled basis or on demand

- Operations are supervised by the HSC Laboratory & Environmental Safety Committee
Everyday and on a monthly basis, each chief technician fills out the Medical Waste Manifest recording his/her department production of each stream of medical waste by weight or volume. Completed manifests are then forwarded to the Committee.
Why Manifest?
Medical Waste Production at HSC

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Pharmaceutical</th>
<th>Biological</th>
<th>Decayed Radioactive</th>
<th>Dental</th>
<th>Animal</th>
<th>Glass</th>
<th>Battery</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>S (Kg)</td>
<td>L (L)</td>
<td>S (Kg)</td>
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<td>S (Kg)</td>
<td>L (L)</td>
<td>S (Kg)</td>
</tr>
<tr>
<td>2011</td>
<td>803.0</td>
<td>3,035.2</td>
<td>89.3</td>
<td>6,614.7</td>
<td>84.0</td>
<td>0.0</td>
<td>0.0</td>
<td>168.3</td>
</tr>
<tr>
<td>2012</td>
<td>1,134.1</td>
<td>2,421.3</td>
<td>40.0</td>
<td>10,656.2</td>
<td>514.0</td>
<td>10.0</td>
<td>60.0</td>
<td>176.0</td>
</tr>
</tbody>
</table>
Examples of Education: HSE Trainings

- Orientation on the System operations, 2011
- Medical Waste Management Training Workshop, 2012
- Health, Safety & Environment Webpage, 2012
- Laboratory Safety Training Workshop, 2013
- HSE Lecture Series, Academic Year 2013/2014
Training on Medical Waste Management
in Collaboration with
Al-Essa Medical & Scientific Equipment Co. W.L.L
Environmental Health & Safety Issues

Kuwait University
Health Science Center
29 January – 1 February, 2012

Training Workshop on
Medical Waste Management

DATE:
and
SESSION B Tuesday-Wednesday Jan. 31-Feb.

TIME: 08:30 AM - 01:00 PM

VENUE: HSC Auditorium
All is cordially invited

Refreshments are served

NOTE:
• Attendance, in either session, of all chief technicians, senior technicians, assistant technicians, scientific assistants, research technicians, researchers and graduate students in HSC in OBLA sessions are identical.
• For queries, please contact 24986620.

The HSE Laboratory & Environmental Safety Committee invites you to attend

The HSE Lecture Series

October 2013

LECTURE No. 1
Risk Assessment of Chemicals in Laboratories
Monday October 07, 2013
12:30 PM – 01:30 PM

LECTURE No. 2
Occupational Hazards in Laboratories
Tuesday October 08, 2013
12:00 NOON – 01:00 PM

VENUE
HSC Auditorium

TARGET AUDIENCE
• HSC Staff, Academic; Supporting Academic, Technical
• HSC Students. MS & PhD

QUERIES
hse@hsc.edu.kw

Refreshments are served
Examples of Communication

- E-Announcements
- E-Newsletter (Monthly Safety Tips)
- Continuous Education
- E-mail
- Webpage
- Plasma TVs
- Official & Verbal Communication
- Brochures & Leaflets
The *Incident Report* provides a mechanism for our staff, students and visitors to communicate and address risk.

The input we receive from our staff and students help us design training and education programs that fit their needs.
Started in September 2012, the monthly e-newsletter “HSC Safety Tips” is a means to educate our staff and students about safety practices in academic health centers. The newsletter is sent electronically to all HSC staff and students and is available online too.
Health, Safety & Environment Webpage
http://www.hsc.edu.kw/vpo/Health_Safety_and_Environment/
Future Services

- Online Certification *(EDUCATION)*
- HSC Safe Laboratory Practices Code of Conduct *(MECHANISM)*
- Health, Safety & Environment Awareness Campaign *(EDUCATION & COMMUNICATION)*
THANK YOU!

You are welcome to reach us at:

Postal Address: The HSC Laboratory and Environmental Safety Committee
              Vice President Office for Health Sciences
              Health Sciences Center– KUWAIT UNIVERSITY
              P.O. Box 24923
              Safat 13110, KUWAIT

e-Mail Address: hse@hsc.edu.kw

URL: http://www.hsc.edu.kw/vpo/Health_Safety_and_Environment/