# MANAGING CHEMICALS IN HOSPITALS

#### **Team Members**

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#### Reviewed by:

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#### **TARGET AUDIENCE**

- Laboratory staff
- Housekeeping staff
- Nursing staff
- Radiology staff
- Doctors
- Pharmacy
- Purchase and Store
- CSSD
- Front office staff

### **DEFINITION**

Chemical hazard is a type of occupational hazard caused by exposure to chemicals or its derivative substances in hospital sector and can cause acute or long term health effects.



#### **TOPICS**

- Definition
- Types of chemicals
- Hazardous effect of chemicals
- Protecting from hazardous chemicals
- Control methods for hazardous chemicals
- Chemical spill kits
- Incident reporting SOP
- Spillage management SOP

## **TOPIC CONTENTS**

### **TYPE OF CHEMICALS**

- Corrosive & irritant
- Highly flammable
- > Toxic
- > Harmful to the environment
- Explosive
- Carcinogen



#### HAZARDOUS EFFECT OF CHEMICALS

- Damage skin or eyes if they come into contact
- ▶ Could cause harm if ingested or vapours are breathed in.
- Can easily catch fire and explode
- ▶ Will cause harm to living organisms if released into the environment.
- Carcinogenic

#### PROTECTING FROM HAZARDOUS CHEMICALS

- Keeping lids, doors or covers closed
- Do not use mouth suctioning
- Use the smallest amount of a chemical to the job
- ▶ Using available ventilation to reduce amounts of chemicals in the air.
- If exposed to a chemical and feel sick,
  - Inform supervisor
  - Follow the first aid directions in the MSDS
  - Record incident, RCA, CAPA

- ► **SOP** for Storage, Usage and Disposal
- Use of **PPE** to protect from direct exposure
- Trainings
- Signages
- MSDS
- Safety programme

Identify hazards

Assess the risks

Control exposure

#### **□** SAFE STORAGE:

- Separate incompatible chemicals.
- Store chemicals properly in the cabinets/shelves provided.
- Install smoke and heat detectors and fire extinguishers.
- Do not over crowd or overload shelves.
- ► Keep storage facilities locked.
- ► Labelling.
- Do not overstock





- **PPE**
- ► Eye wash



- Chemical waste: All waste must be segregated into categories and stored in leak-proof containers.
- Spillage kit
- ► First aid kit

#### **CHEMICAL SPILL KITS**

- The following equipment must be maintained in hospitals for dealing with chemical spills:
  - Personal protective equipment
  - Scoops and dustpans
  - Dry sand
  - Deactivator



## **INCIDENT REPORTING SOP**

- ► As laid down by the organization
- ► RCA and CAPA to be done

#### SPILLAGE MANAGEMENT SOP

► As laid down by the organisation

### FREQUENCY OF TRAINING

- ► As laid down by the organization
- ► Monthly training calendar
- Induction training

## Thank you

