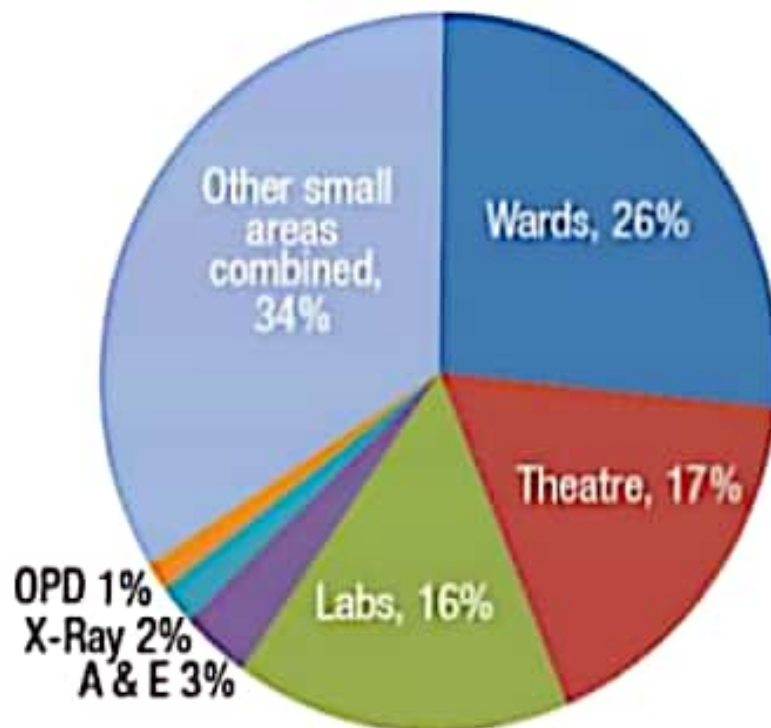


# Sources of Hospital Waste

## Main sources of healthcare risk waste



## Health Risks from Poor Hospital Waste Management

Injuries from sharps leading to infection to all categories of hospital personnel and waste handler.

Risk of infection outside hospital for waste handlers and scavengers and at time general public living in the vicinity of hospitals.

Risk associated with hazardous chemicals, drugs to persons handling wastes at all levels

## WHO ARE AT RISK?

- Doctors
- Nursing staff
- Ward staff
- Housekeepers
- Patients & visitors
- Community
- Environment



# Health Hazards:

## 1. Infection

## 2. Genotoxicity and Cytotoxicity

In genetics, **Genotoxicity** describes the property of chemical agents that damages the genetic information within a cell causing mutations, which may lead to cancer.

**Cytotoxicity** is the quality of being toxic to cells.

## 3. Chemical toxicity

## 4. Radioactivity hazards.

## 5. Physical injuries

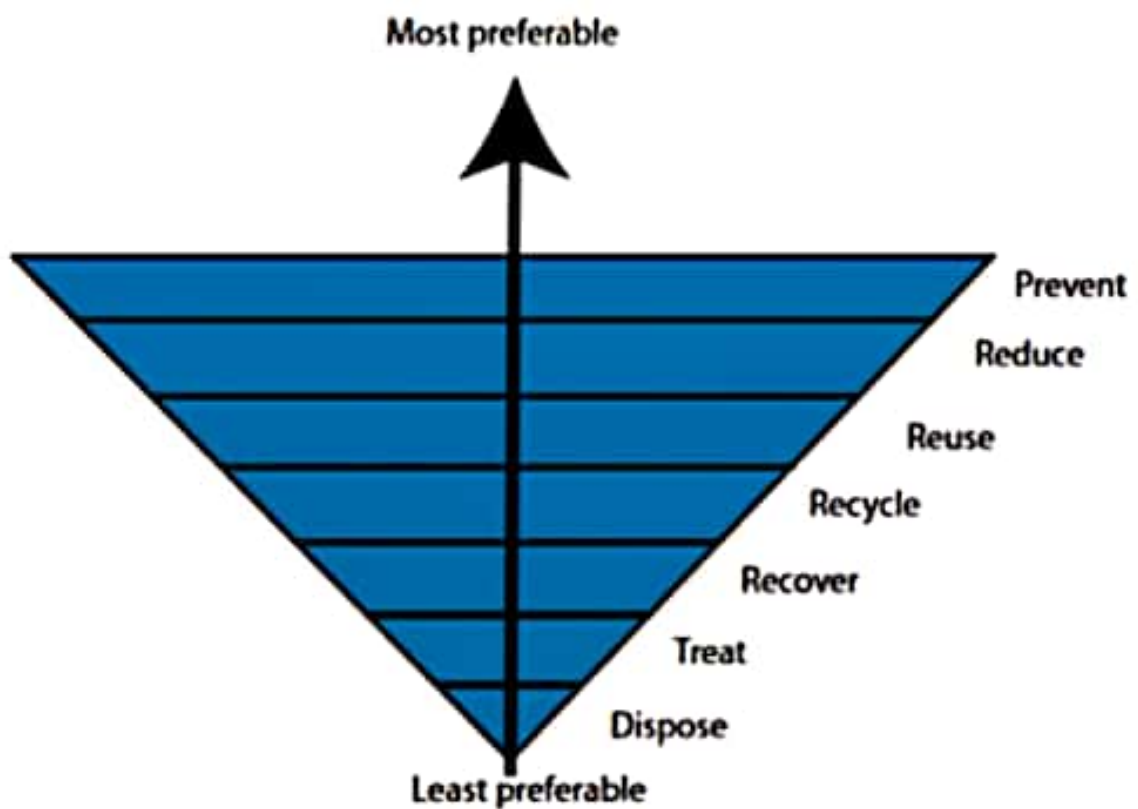
## 6. Public sensitivity.

# Management of Healthcare Waste

## Effective Waste Management needs:

- National Policy, Strategy, Plan, Guidelines and SOP
- Legislation/ Rules for waste management
- Political commitment
- Committed manpower
- Good Management
- Proper budgetary allocation

# Waste Management Hierarchy



The waste-management hierarchy

**Most favoured option**

**Reduce** lowering the amount of waste produced

↳ **Reuse** using materials repeatedly

↳ **Recycle** using materials to make new products

↳ **Recovery** recovering energy from waste

Treatment Disinfecting, detoxicating, turning inert  
↳ **Landfill** safe disposal of waste to landfill

**Least favoured option**

## WHO Hospital Waste Management Cycle

