

# **Certificate course in Hospital Infection Control**

## **COURSE CONTENTS**

- **Routes of transmission and their prevention**

- Contact Transmission (most common mode of transmission)

- Droplet transmission

- Airborne transmission

- Prevention**

- 1. Patient placement

- 2. Precaution for HCWs and patients

- 3. Patient transport

- Contact precaution (most common mode of transmission)

- Droplet precaution

- Airborne precaution

- **Surveillance**

- Definition of health care associated infections

- Central line associated blood stream infections (CLABSI)

- Ventilator associated Pneumonia

- Catheter associated urinary tract infections (CA-UTI)

- Surgical site infections (SSI-Clean wound)

- Bedsore

- **Needle stick injury and post exposure prophylaxis**

- What to do

- Steps of managing occupational exposure

- Category of exposure

- Source assessment

- **Sterilization and disinfection**

- Specific learning objective

- Disinfection

- High level disinfections (HLD)

- Intermediate level disinfections (ILD)

- Low level disinfections (LLD)

- Disinfection of various materials used in the hospital

- Clinic/ sterilization

- **Personal protective equipment and standard precautions**

- Gowns & Aprons

- Characteristics of aprons/ gowns

Gloves  
Face & eye protective  
Masks  
Respiratory protection  
Goggles  
Face shields  
Key points of PPE  
Sequence of wearing PPE- Donning & Doffing

- **Biomedical Medical Waste Management**

Rationale of hospital waste management  
Segregation of waste  
Classification of BM waste based on type of waste with colour coding  
Treatment & Disposal  
Segregation, packaging, transportation & storage  
Label for BM waste containers or bags  
Safety measures  
Management & administration

- **Device associated infections**

Catheter associated infection prevention bundle  
Catheter associated urinary tract infection bundle  
VAP prevention bundle, CRBSI prevention bundle

- **Antibiotic policy**

Attributes of antibiotic policy  
Requirements  
Audit  
Antibiotic stewardship

- **Vaccination, Blood spill and Hand hygiene**

Spill management  
Hepatitis B virus  
Hepatitis C virus  
Human Immunodeficiency virus  
Hand hygiene  
    Why, How & When?  
    Who  
    How  
        Alcohol based hand rub  
        Soap & water  
    Methods of hand hygiene  
    5 moments for hand hygiene

Hand care

4. **Duration of the course- 30 hours**
5. **Eligibility criteria-1<sup>st</sup> MBBS to final MBBS & Interns.**
6. **No. of Students- 25**
7. **Fee structure: Needs to be discussed with university**

### **Program schedule**

Time	Topics	Teaching Method	Resource persons
Day 1			
9-9.30	Pre-test	Self-administered	-
9.30-10.00	Background	PowerPoint	
10.00-11.45	Routes of transmission and their prevention	Power point	
11.45-12.00	Tea and snacks		
12.00- 01.00	Infection control program organization	Power point	
1.00-2.00	Lunch break		
2.00-4.00	Hand hygiene	Hands-on	
Day 2			
09.00 -09.30	Re-Cap of day – 1	Interaction	
09.30 – 10.15	Needle stick injury and post exposure prophylaxis	Interactive lecture with PowerPoint	
10.15-10.30	Tea and snacks		
10.30-12.00	Sterilization and disinfection	Interactive lecture	
12.00-01.00	Personal protective equipment and standard precautions	Interactive lecture with PowerPoint Group activity	
1.00-2.00	Lunch break		
2.00-4.00	Biomedical Medical Waste Management	Individual or group activity to check the understanding	

Day 3			
9.00-9.15	Recap of Day 2	Interaction	
9.15- 10.30	Device associated infections		
10.30-11.45	Antibiotic policy		Dr. Sangeetha S
<b>11.45-12.00</b>	<b>Tea and snacks</b>		
12.00-1.00	Vaccination, Blood spill	Interactive lecture with PowerPoint	
1.00-2.00	<b>Lunch break</b>		
2.00- 4.00	Observation of Biomedical Waste Management (Visit to ward, OPD , lab)	Field visit	
Day 4			
9.00-9.15	Recap of Day 3	Interaction	
9.15-11.00	Isolation protocols	PowerPoint	
<b>11.45-12.00</b>	<b>Tea and snacks</b>		
<b>12.00-1</b>	Environmental Surveillance Activity		
1.00-2.00	<b>Lunch break</b>		
2.00-4.00	Central Sterile Services Department (CSSD)	Field visit	
Day 5			
9.00-9.15	Recap of Day 4	Interaction	
9.15-11.00	Group Presentation and Discussion	-	
11.00-11.15	<b>Tea and snacks</b>		
11.15-1.00	Group Presentation and Discussion		
1.00-2.00	<b>Lunch break</b>		
2.00-3.00	Group Presentation and Discussion		
3.00-4.00	Feedback with valedictory function		

**Course co-ordinator**

**Dr.Yashaswini.M.K**