

# Diploma in **HOSPITAL INFECTION PREVENTION & CONTROL**



*"We Should learn to make Bridges not Barriers"*

# **Diploma in Hospital Infection Prevention and Control (DHIPC) Online**

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## **Infection control Vision and mission:**

### **Vision**

**“Infection free Pakistan”**

### **Mission**

“To provide the safest health care system in Pakistan through creating a zero tolerance approach to avoidable infections and delivering safe, effective and patient centered care through continuous education, improvement and control of health care associated infections”.

### **Values Statements**

Honorable, ethical, respectful, Collaborative, Innovation, Leadership.

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# **Hospital Infection Prevention and Control**

## **Introduction:**

Infection Control (IC) is an essential component of quality healthcare and patient safety. The implementation of IC programs necessitates the existence of the qualified IC professionals who are guided by sound principles and current information. Each healthcare institution is unique and its specific needs must be considered when developing or reorganizing an IC program. The modern concept of IC includes also areas other than healthcare associated infections including occupational safety, maintenance of physical environment and the use of increasingly complex medical devices. The purpose of this diploma is to ensure that trainees are fully prepared to lead IC services and they are capable of developing, implementing, supervising and auditing a comprehensive IC program in the different Health organizations. This also guarantees that IC professionals are alert to changing recommendations, scientific literature and evidence based guidelines and they are capable of working within the integrated programs of quality assurance and accreditation.

## **Objectives:**

- Enhance understanding of the world of microbiology, which will then enable the candidate to formulate a management strategy to care for infectious patients and prevent further spread of disease.
- Ensure that candidates are fully prepared to lead infection prevention and control services and are capable of developing, implementing, supervising and auditing a comprehensive infection prevention and control program in different healthcare facilities.
- Ensure that IC professionals are capable of working within the integrated programs of quality assurance and accreditation.

## **Course Duration:**

Duration: online one year (three semesters each semester 16 weeks/ 450 contact hrs, 33 credit hrs.)

Theory: 32 weeks

Hands on: 16 weeks

Exam: after each semester and final exam

Classes: Two classes in week =3hours each class

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## **Residential Training:**

Candidate's onsite and own site residential training program at Indus Health network hospitals Karachi or Lahore.

## **Course topics:**

1. Basic concept of infection prevention & control
2. Microbiology & Immunology
3. Epidemiological aspect.
4. Universal infection control guidelines
5. Computer Application
6. IC measures for infectious diseases.
7. Advance concept of infection prevention & control
8. IC for therapeutic devices and occupational health
9. Budget and Finance
10. Statistic & Surveillance
11. Research
12. Administrative and essential issues

## **The eligibility criteria:**

- ✓ Diploma in RN or RN and RM / 4 years bachelor in nursing degree with minimum of 2- 3 years of clinical experience
- Valid / Active PNC license
- ✓ MBBS, MDS with one year clinical experience
- Valid PMDC license
- Age limit: Open
- Female male ratio: Open

## **Methods of Learning/Teaching**

### **Physical attendance/ on line**

1. Formal didactic Lectures including PPT, handouts, articles, videos and others as per need.
2. Practical sessions.
3. Interactive workshops like group discussion on Moodle.
4. Supervised field visits and hands-on training.
5. Assignments and project work.

## **6. Research /surveillance work**

### **Methods and Weight of Assessment**

1. Final summative written exam or Project (60%)
2. Periodical written assignments (10%)
3. Periodical quizzes (10%)
4. Attendance (10%)
5. Participation in formal teaching sessions and field work activities (5%)
6. Research work submission (5%)

### **Assessment Methods**

- a. Accurate and systematic observation by faculty.
- b. Correctly maintained and up-to-date logbook and portfolio.
- c. Satisfactory trainer's report.
- d. Presentation at a seminar/lecture, journal club (keep record of presentation handouts in portfolio).
- e. Written assignments.
- f. Project report & Presentation

### **Final Exam:**

- a. Written examinations
- b. Practical examinations
- c. Oral examinations

### **Learning Outcomes**

At the end of this course learner will be able to:

- Know the concept of infection control and prevention in health care settings.
- Recognize the role of pathogenic microorganisms, their virulence and mode of transmission in relation to source of infection, including health care associated infections.
- Understanding the purpose of prevention or minimizing healthcare-associated infections in the healthcare setting.
- Understand the role of and implement the use of personal protective equipment to prevent or reduce the risk of occupational exposure.

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- Understand the role and implement appropriate hand hygiene.
- Understand the role of and incorporate engineering and work practice controls to eliminate or isolate the hazard in the workplace.
- Understand the role of and implement environmental infection control to provide a safer work environment.
- Understand the importance of post-exposure follow-up and associated policies and practices to reduce the risk of post-exposure infection.
- Understand the principles of and implement transmission-based precautions to prevent the potential spread of specific diseases (e.g., TB disease, Covid-19).
- Understand the principles of and implement respiratory hygiene/cough etiquette, i.e., basic source control measures with patients, visitors, and health care personnel with signs and symptoms of respiratory tract infection.
- Understand the Surveillance strategies of nosocomial infections and Antimicrobial stewardship and how to combat resistance.
- Know the outbreak situation and investigation.
- Understand and implement strategies and evidence based guidelines for standard and general IC measures.
- Use of statistics in infection control.
- Perform communication skills.

### **Field Projects (hands on)**

- Candidates will conduct a field project, and will present their findings, conclusions and recommendations at the end of a course.
- A variety of topics will be targeted for conducting field projects; e.g.:
  - Surveillance studies in different settings
  - Intervention studies in some critical care units.
  - Outbreak investigation (MRSA, VRSA, Multidrug resistant Gram negative bacilli, etc.)
  - Developing and implementing an IC program and measuring the impact.
  - Developing an educational program

### **The semester system (4 months duration)**

Classes 14 weeks + exam 2week

- Clinical Practicum at Indus hospital = 4 weeks
- Clinical Practicum at their own setting = 4 week
- Surveillance/ audit/ interventional study their own sittings= 4 week
- Exam preparation and final exam = 4 week

### **Learning objectives:**

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At the end of this session you should be able to:

- Enhance the clinical confidence to handle oversee and monitor the different IC issues in hospital setting.
- Learn & recognize the benefit to patients and healthcare workers of adhering to scientifically accepted principles and practices of infection prevention and control in health setting.
- Able to recognize the professional's responsibility to monitor infection prevention and control practices of those medical and ancillary personnel for whom he or she is responsible and intervene as necessary to assure compliance and safety.
- Able to identify the factors which influence the outcome of an exposure to pathogenic organisms in healthcare settings.
- Able to list strategies for preventing transmission of pathogenic organisms and describe how infection control concepts are applied in professional practice.

### **Course starts from:**

- Course application start from month of June.
- Aptitude test in month of July.
- Start Year from August.
- End Year July.

### **Fee Structure:**

#### **National Students Fee Structure**

- **Course fee: -----PKR**
- **Admission fee:-----PKR**

#### **International Students Fee Structure**

- **Course Fee:-----\$**
- **Admission Fee:-----\$**

### **Team of Course:**

- Ms Arifa Khatoon.  
RN, RM, DPON, MSN\*

Manager Infection Control Clinical and Education department Indus Health Network

- Ms. Shabnam Bilal.  
RN,MS Microbiology

Deputy Manager Infection Control department, The Indus Hospital.

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- Ms Aisha Maroof  
MSc

Research Associate Infection Department Control Department The Indus Hospital.

- Mr Farhan Zaffar

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