



**PRAVARA INSTITUTE OF MEDICAL SCIENCES  
(DEEMED TO BE UNIVERSITY)**

**Loni, Tal. Rahata, Dist. Ahmednagar 413736  
NAAC Re-accredited with 'A' Grade**

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**SYLLABUS**

**Fellowship Programme- Healthcare Associated Infections: Prevention & Control  
(Dept. of Microbiology)  
(Academic Council Meeting Dated 20<sup>th</sup> March, 2019)**

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**Title: Healthcare Associated Infections: Prevention & Control**

**Duration Course- Six month**

**Objectives**

- To study the epidemiology and the risk factors for developing healthcare-associated colonization and infection
- To know the principles of surveillance and identifying healthcare associated infections, organisms resistant to antimicrobial agents, or epidemiologically important organisms.
- To study the data supporting important infection control and antibiotic management strategies
- To be able to effectively respond to issues about exposure to infectious diseases and appropriate prevention and control strategies for hospital acquired infections.
- To have awareness of the impact that healthcare associated infections on health of patients.
- To understand a wide variety of specific topics: Basics of epidemiological methods, outbreak investigations, microbiology labs, case studies, antimicrobial management, UTI, VAP, SSI, BSI, MRSA/ VRE, C. difficile, patient safety, occupational exposure and vaccination

**COURSE CONTENTS**

1. Introduction to HAIPC
2. Basic Epidemiology
3. Healthcare associated infections and their prevention
4. Organization of Infection control programme
5. Surveillance of Hospital Acquired Infections in hospitals
6. Standard Isolation Precautions
7. Cleaning, Disinfection and Sterilization
8. Infections in ICUs and their prevention
9. Operation theatres
10. Catheter associated Urinary tract Infection
11. Hospital acquired pneumonia
12. Catheter-related blood stream infections
13. Resistant and emerging pathogens and Bioterrorism agents

14. Central sterile supply department
  15. Role of HAI team in Laundry
  16. Food services
  17. Biomedical Waste Management (BMW)
  18. Post exposure management
  19. Infections in traumatized patients
  20. Infections in Immunocompromised host and their prevention
  21. Clinical microbiology laboratory standards relating to Infection control
  22. Antimicrobial resistance & stewardship
  23. Management of disease outbreak
  24. Economics in Healthcare associated infections
- **TEACHING STRATEGIES**
    - A total of 144 working days (approximately) will be available for teaching, learning and evaluation in six months. It is further divided in to 20% teaching hours and 80% of the hours will be assigned for outside classroom sessions (Daily rounds in critical/ non-critical areas, surveillance, audits, BMW rounds, laboratory work, CSSD visits, Infection control Meetings etc)
    - **Each candidate have to go through arotatory posting in following areas**
      - a) Microbiology laboratory (Bacteriology, Virology, Serology, Mycology, Parasitology etc)
      - b) Daily rounds with infection control team (ICT) in critical care areas (MICU, SICU, CCU, HDU, RICU)
      - c) Daily rounds with infection control team in wards, OPD/ casualty, laundry, food services
      - d) Sterilization & Disinfection (in OTs, CSSD & Laboratory)
      - e) Biomedical waste management rounds with BMW team
    - Candidates have to participate & observe in all activities of Infection control team during posting.
    - **ASSESSMENT PROCEDURE-**
      1. Each candidate has to complete atleast one project under guidance of Microbiology faculty and have to submit & certify it before completion of the course. Certificate of Fellowship will be given to each candidate on completion of course.
  - **FEE STRUCTURE-**
    - Rs 50,000 for entire course
  - **ELIGIBILITY CRITERIA FOR INDIAN/ FOREIGN STUDENT:** Applying candidate should have completed MBBS/MSc in Medical Microbiology/ PhD in Medical Microbiology/ Postgraduate Medical degree in the concerned specialty from a recognized Indian/ Foreign university.
  - **INTAKE CAPACITY-** Maximum 5 per course.

**EXPENDITURE STATEMENT FOR ONE ACADEMIC YEAR FOR  
FELLOWSHIP IN HEALTHCARE  
ASSOCIATED INFECTIONS: PREVENTION & CONTROL  
UNDER DEPARTMENT OF MICROBIOLOGY, RMC, PIMS, DU**

For Indian Students:

Income	Expenditure
Tuition Fees:Rs50000 per candidate.	Honorarium for resource person Rs 1000 per lecture (in-house faculty) and Rs 2000 per Guest lecture
Registration Fees:Rs1000 Admission Fee: Rs4000	Administrative expenditure Rs 5000 per candidate
<p>Note</p> <ol style="list-style-type: none"> <li>1. Leaves of 6 days/ course will be sanctioned by the institute.</li> <li>2. Fellow will bear all expenditures</li> <li>3. Paid Accommodation will be available as per PIMS(DU) rules.</li> </ol>	

For Foreign Students:

Income	Expenditure
Tuition Fees:\$1000 per candidate.	Honorarium for resource person Rs 1000 per lecture (in-house faculty) and Rs 2000 per Guest lecture
Registration Fees: \$ 20 Admission Fee: \$100	Administrative expenditure Rs 5000 per candidate

Note

1. Leaves of 6 days/ course will be sanctioned by the institute.
2. Fellow will bear all expenditures
3. Paid Accommodation will be available as per PIMS(DU) rules.



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