



# **MGM INSTITUTE OF HEALTH SCIENCES**

(Deemed to be University u/s 3 of UGC Act, 1956)

**Grade 'A' Accredited by NAAC**

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## **Curriculum for Fellowship in Health Care Associated Infections**

**(with effect from 2020-21 Batches)**

Approved as per BOM -62/2020, Dated 16/09/2020

## **Amended History**

1. Approved as per BOM -62/2020 [Resolution No.3.2.2.8], Dated 16/09/2020.

**11.3: Fellowship course in health care associated infections by department of Microbiology**

- 1) TITLE OF THE COURSE: Fellowship course in health care associated infections
- 2) AIMS & OBJECTIVES: The fellowship program in Health Care Associated Infections is organized to provide adequate training and experience in health care associated infections ,as this particular topic is very important and is not covered in depth during PG course & it is need of the hour.
- 3) Duration of fellowship: 1 year (12 months)
- 4) Eligibility Criteria for admission: MD, MSc Microbiology / PhD Medical microbiology  
Selection by interview
- 5) Commencement of Course: From 1<sup>st</sup> June every year (1 Batch/ Year)
- 6) Intake capacity in each batch: 04 per year
- 7) Fees : As decided by MGMIHS
- 8) SYLLABUS / COURSE CONTENTS:

Sr. No	TOPICS
1	Infection Control Program
2	High Risk Areas, High Risk Procedures & Prevention Of Infection In High risk areas
3	Standard Universal Precautions & Transmission Based Precautions
4	Hand Hygiene Guidelines
5	Needle Handling Policy, Safe Injection And Infusion Practices
6	Needle Prick Injury/ Body Fluid Exposure
7	Decontamination Of The Environment, Equipment & management of Spillage
8	Disinfectants Used In Hospital & Methods for testing efficacy of disinfectants
9	Antibiotic Policy
10	Methods For Microbiological Surveillance
11	Monitoring & Validation of Sterilization Activities In CSSD procedure for recall of instruments & equipments

<b>12</b>	Identification & Prevention of Catheter Associated Urinary Tract Infection [CAUTI]
<b>13</b>	Identification & Prevention of Ventilator Associated pneumonia [VAP]
<b>14</b>	Identification & Prevention of Central Line Associated Blood Stream Infections [CLABSI]
<b>15</b>	Identification & Prevention of Surgical Site Infection [SSI]
<b>16</b>	Pre & post exposure Prophylaxis of Health-Care Personnel
<b>17</b>	Identification & Handling of Outbreak Of Hospital Acquired Infection
<b>18</b>	Reprocessing & Reuse of Instruments
<b>19</b>	BMW Management

#### 9) TEACHING SCHEME

- 24 hrs theoretical teaching in 12 month course
- Teaching scheme (Total periods and period allotted to each topic)

Sr. No	TOPICS	No. of Periods allotted
1	Introduction to Health care associated infection (HAI)	1
2	Infection Control Program	1
3	High Risk Areas, High Risk Procedures	1
4	Prevention Of Infection In High risk areas	1
5	Standard Universal Precautions & Transmission Based Precautions	1
6	Hand Hygiene Guidelines	1
7	Needle Handling Policy, Safe Injection And Infusion Practices	1

8	Needle Prick Injury/ Body Fluid Exposure- Protocol	1
9	Sterilization	1
10	Disinfection	1
11	Decontamination Of The Environment, Equipment & management of Spillage	1
12	Disinfectants Used In Hospital & Methods for testing efficacy of disinfectants	1
13	Antibiotic Policy	1
14	Methods For Microbiological Surveillance	1
15	Monitoring & Validation of Sterilization Activities In CSSD procedure for recall of instruments & equipments	1
16	Identification & Prevention of Catheter Associated Urinary Tract Infection [CAUTI]	1
17	Identification & Prevention of Ventilator Associated pneumonia [VAP]	1
18	Identification & Prevention of Central Line Associated Blood Stream Infections [CLABSI]	1
19	Identification & Prevention of Surgical Site Infection [SSI]	1
20	Pre & post exposure Prophylaxis of Health-Care Personnel	1
21	Identification & Handling of Outbreak Of Hospital Acquired Infection	1
22	Reprocessing & Reuse of Instruments	1
23	BMW Management I	1
24	BMW Management II	1

**10. TECHNICAL SKILLS – During departmental posting**

1. Collection & Transport of specimens for infection control activity

2. Laboratory Methods for microbiological surveillance and hospital infection control
3. Identification of multidrug resistant [MDR] isolate

Fellow will undergo following posting in rotation under fellowship program

<b>Section</b>	<b>Duration</b>
Hospital infection control section of microbiology dept.	05months
Hospital infection control posting and visits in various high risk areas of hospital	06 months

Fellow should participate in PG activities like seminars, journal club and group discussions

### **11) EVALUATION**

Eligibility criteria for appearing internal examination: Eighty percent attendance

FINAL EVALUATION [INTERNAL EXAMINATION] in first week of May

#### **A] THEORY EXAMINATION**

PAPER I [50 MARKS ]

LAQS : Answer any 5 out of 6 [5X10 Marks]

#### **B] PRACTICAL EXAMINATION [50 MARKS]**

Grand viva: 50 marks

Passing Criteria: 50 % marks in theory and practical examination separately

Fellowship will be awarded only when 50% marks are scored in examination

### **12) FACILITIES AND RESOURCES**

Modern facilities to cover all aspects of educational program and Qualified staff are available in Microbiology Department Aurangabad.

<b>Sr No</b>	<b>Name of faculty</b>	<b>Designation</b>	<b>Experience</b>
1	DrMulay M.V	Professor & Head and Secretary Infection Control Committee	22 years
2	DrWyawahare A S	Professor & Incharge infection control Team	24 years
3	DrGhogare H S	Associate Professor	21 years

4	Dr Bansal V P	Associate Professor, & member Infection control Team	26 years
5	Dr Smitakulkarni	Lecturer	3.5 years
6	Dr Shraddha	Assistant lecturer	1 . 5 year

**13) Achievements after completion of course: Student undertaking this course**

- 1) Can able to identify , control & prevent health care associated infections
- 2) Can formulate antibiotic policy
- 3) Can independently work as Infection control officer or member infection control team in any hospital setup
- 4) Can provide consultancy services in hospital infection control for hospital setups.

**REFERENCES**

Title	Author /Editor
Infection Control Manual	---
Hospital Associated Infections : Epidemiology , Prevention & Control	Nita Patawardhan , :
Ayliffe' s Control of Heath Care associated infections	Fraise & Bradley
Textbook of microbiology	Ananthnarayan
Gradwohl's clinical lab Methods and diagnosis	A.C. Sonnenwirth And Jarett
Topley and Wilson's Microbiology and Microbial infection	Topley & Wilson
Mackie & McCartney Practical medical Microbiology	Mackie McCartney
Text book of microbiology and Immunology	Subhash Chandra pariya
Text book of microbiology	Surinderkumar
Medical microbiology	Jawetz, melnick&adelberg's
Medical Microbiology	Boyd Greenwood , Micheal Barer, Richard slack, Peutherer
District laboratory practice in Tropical countries Part I & II	Monica cheesbrough
Baily & scott's Diagnostic microbiology	Patrica M fille

Hospital Infection Control Guidelines Principle and Practice.	Sanjeev Singh, Shakti Kumar Gupta Sunil Kant.
Hospital Sterilization	PremAnandNagaraja
Manual of laboratory safety (Chemical radioactive and biosafety with biocides)	Mansour Ali-Zarouni (forrword), Najat Rashid, Ramniksood
Practical Medical Microbiology 14 <sup>th</sup> edition	Mackie and McCartney , Collee, Fraser, Marimion, Simmons.
Essentials of Hospital Infection Control	Apurba S Shastry , Deepashree R





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