

MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956) Grade 'A++' Accredited by NAAC Sector-01, Kamothe, Navi Mumbai -410 209 Tel 022-27432471, 022-27432994, Fax 022 -27431094 E-mail: registrar@mgmuhs.com; Website :www.mgmuhs.com



Amended History

1. Approved as per BOM -44/2022 [Resolution No.5.24], Dated 09/12/2022.

Annexure-27A of AC-44/2022

Annexure 7

<u>Proposed Syllabus for Fellowship course in health care associated infections by</u> <u>department of Microbiology,</u> (Aurangabad and Navi Mumbai)

- 1) TITLE OF THE COURSE: Fellowship course in health care associated infections
- 2) 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: 1year (12 months)
- 4) ELIGIBILITY CRITERIA FOR ADMISSION:MD, MScMedical Microbiology / PhD Medical microbiology. Selection by interview
- 5) COMMENCEMENT OF COURSE: Twice yearly. From August -September /February -March
- 6) INTAKE CAPACITY IN EACH BATCH: 04 per batch. Twice yearly.
- 7) FEES : Rs 1,00,000
- 8) COURSE –COORDINATOR : Dr Shraddha Naik (Aurangabad), Dr Deepashri Naik (Navi Mumbai)
- 9) PROGRAM GUIDE: Dr Manjushree Mulay, Dr Anupama Wyawahare- Aurangabad Dr Anahita V BhesaniaHodiwala, Dr H kar- Navi Mumbai.

10) COURSE OVERVIEW:

Sr. No	TOPICS
1	Organization of Infection Control programme.
2	Standard Precautions I Hand Hygiene
3	Standard Precautions II Personal Protective Equipments
4	Transmission Based Precautions
5	Needle stick injury/Post Exposure Prophylaxis/staff health issues
6	HAI surveillance (common terminologies)
7	Catheter Associated Urinary Tract Infection [CAUTI]
8	Ventilator Associated pneumonia [VAP]

9	Central Line Associated Blood Stream Infections [CLABSI]
10	Surgical Site Infection [SSI]
11	Data collection and analysis of microbiological surveillance
12	Environmental Surveillance
13	Screening of patients/HCWs for MDROs
14	Infection control in High risk areas /special situation
15	Disinfection Policy
16	CSSD
17	Antimicrobial stewardship programme
18	BMW Management
19	Outbreak Management
20	Infection control practices in pandemic situation

11) TEACHING SCHEME

- 35hrs theoretical teaching in 12 month course
- Participation in HCAI surveillance activities
- Participation in departmental academic activities

Teaching scheme (Total periods and period allotted to each topic)

Sr.No.	Name of TOPIC	Sub Topics	Hours
			Alloted
1	Organization of	Organization& Functions of Infection	1
	Infection Control	Control Committee& Infection control team.	
	programme.	Role of infection control officer and	
		infection control Nurses.	
2	Standard Precautions	Indications and technique of hand hygiene	1
	I Hand Hygiene	Steps of hand hygiene	
		Hand hygiene methods	
3	Standard Precautions	Indications of use of PPE. Donning and	1
	II Personal Protective	doffing of PPE	
	Equipments		

4	Transmission Based	Contact precautions/Droplet	1
	Precautions	precautions/Airborne precautions/Other	
		modes of transmission	
5	Needle stick	Precautions during handling needles, needle	2
	injury/Post Exposure	stick injury reporting proforma, post	
	Prophylaxis/staff	exposure management for blood born	
	health issues	viruses. Staff health issues - work	
		restrictions and vaccination	
6	HAI surveillance	HAI surveillance, CDC NHSN Common	1
	(common	Terminologies - DOE (Date of Event), IWP	
	terminologies)	(Infection window period), RIT (Repeat	
		infection time frame), SBAP (Secondary	
		blood stream infection attribution period).	
7	Catheter Associated	CAUTI, its diagnosis, surveillance and	2
	Urinary Tract	bundle care	
	Infection [CAUTI]		
8	Ventilator Associated	VAP, its diagnosis, surveillance and bundle	2
	pneumonia [VAP]	care	
9	Central Line	CLABSI, its diagnosis, surveillance and	2
	Associated Blood	bundle care	
	Stream Infections		
	[CLABSI]		
10	Surgical Site	SSI, its diagnosis, surveillance and bundle	2
	Infection [SSI]	care	
11	Data collection and	Calculation of various device associated	
	analysis of	infection rates	
	microbiological		
	surveillance		
12	Environmental	Air surveillance, water surveillance&	2
	Surveillance	environmental surface surveillance	
13	Screening of	Definitions of MDRO, XDRO, PDRO	2
	patients/HCWs for	(emerging & endemic MDROs)	
	MDROs	MRSA ESBL, AmpC, VRE, CREdetection	
		Screening of health care workers for	
		MDROs	
		Infection control measuresfor MDROs	
14	Infection control in	Infection control in Dialysis Units, Infection	3
	High risk areas	control in Transplant Units, Infection	
	/special situation	control in Intensive care Units, Infection	
		control in Operation Theater, Infection	
		control in TB ward etc.	
15	Disinfection Policy	Commonly used disinfectants in hospital,	2
		Disinfection of various instruments, OT,	

		floor, surfaces	
		Reuse of single use instrument/ equipment	
16	CSSD	Objectives, work flow, types of sterilizers	
		&its uses, monitoring efficacy of	
		sterilization by physical, chemical &	
		biological methods	
		Recall of instruments	
17	Antimicrobial	Antimicrobial stewardship programme	
	stewardship	(AMSP)- Introduction, objective &	
	programme	implementation of AMSP, Role of	
		Microbiology in AMSP, Formulation of	
		Antibiotic Policy, Monitoring AMSP.	
18	BMW Management	Definition, segregation, treatment &	2
		disposal methods, ETP plant, BMW	
		management rules & BMW audit	
19	OutbreakManagement	Identification of outbreak & outbreak	1
		management	
20	Infection control	Infection prevention & control measures at	1
	practices in pandemic	health care facility & general public,	
	situation	measures by government.	

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

Section	Duration
Hospital infection control section of microbiology dept.	06months
Hospital infection control posting and visit to different wards ,OT ,CSSD & ICUs to see infection control practices & rational use of antibiotics.	06 months

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

Fellow should maintain logbook of all activities.

11) EVALUATION

Eligibility criteria for appearing internal examination: Eighty percent attendance

FINAL EVALUATION [UNIVERSITY EXAMINATION]: in September/ March Month

A] THEORY EXAMINATION

PAPER I [100 MARKS]

LAQS : Answer any 10 out of 11 [10X10 Marks]

B] PRACTICAL EXAMINATION [100 MARKS]

Grand viva: 50 marks

Calculation of surveillance rates (02) 50 Marks

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

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

If fellow is not scored 50% marks then supplementary exam will be conducted 1 month later

12) FACILITIES AND RESOURCES

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

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
Essentials of Hospital Infection Control	Apurba SShastry,
	Deepashree R
Damani N. Nizam damani's manual of infection prevention &	Dr. Nizam Damani
control, 3 rd edi. Oxford : Oxford University Press; 2011	
Infection Control Manual	
Hospital Associated Infections : Epidemiology, Prevention	Nita Patawardhan, :
&Control	
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 parija
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.	Sanjieev 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 th edition	Mackie and McCartney, Collee, Fraser, Marimion, Simmons.

EXISTING FELLOWSHIP COURSE	PROPOSED FELLOWSHIP COURSE
1)COMMENCEMENT OF COURSE:	COMMENCEMENT OF COURSE: Twice
From 1 st June every year (1 Batch/ Year)	yearly. From August -September
	February -March
2)Fees : As decided by MGMIHS	Fees :Rs 1,00,000
3) COURSE –COORDINATOR :Not	COURSE -COORDINATOR : Dr Shraddha
appointed	Naik
4)PROGRAM GUIDE: Not appointed	PROGRAM GUIDE: Dr Manjushree Mulay,
, II	Dr Anupama Wyawahare.

5) TEACHING SCHEME	TEACHING SCHEME
 24 hrs theoretical teaching in 12 month course logbook not proposed 	 35hrs theoretical and skill orientedteaching in 12 month course Participation in HCAI surveillance reporting Participation in departmental academic activities logbook proposed
6)EVALUATION	EVALUATION
FINAL EVALUATION [INTERNAL EXAMINATION] in first week of May AJ THEORY EXAMINATION PAPER I [50 MARKS] LAQS : Answer any 5 out of 6 [5X10 Marks] BJ PRACTICAL EXAMINATION [50 MARKS] Grand viva: 50 marks	 FINAL EVALUATION [UNIVERSITY EXAMINATION]: in September/ March Month A] THEORY EXAMINATION PAPER I [100 MARKS] LAQS : Answer any 10 out of 11 [10X10 Marks]B] PRACTICAL EXAMINATION [100 MARKS] Grand viva: 50 marks Calculation of surveillance rates (02) 50 Marks For every university exam the convener should be appointed in rotation from given faculty list. For practical exam the externalexaminer should be appointed by university from submitted panel list.



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