Microbiology Department

Hamdard Institute of Medical Sciences & Research & HAHC Hospital

Name of the block	Block 1 (Microbiology 1A)					
Name of elective						
	Basics and advances in Mycobacteriology Laboratory					
Location of Hospital lab or	Microbiology Laboratory, Room no 47-51, Basement,					
Research facility	Old building, HAHC Hospital					
	DMC (Designated Microscopy centre) Room no 10,					
	Ground floor, Old building, HAHC Hospital.					
	Molecular Laboratory, Room no 223, college					
	Building, 2 nd floor, HIMSR.					
Name of Internal Preceptor(s)	Dr Jayanthi G					
	Dr Stuti Kaushik					
Name of External preceptor if	-					
applicable						
Number of students that can be	4					
accommodated in this elective	· ·					
Components						
	Sample collection for diagnosis of Tuberculosis					
	2. Sample processing for Staining and culture					
	3. Ziehl Neelsen staining					
	4. Fluorescent staining					
	5. Digestion and Decontamination of sample for					
	culture					
	6. Conventional culture					
	7. Automated culture					
	8. Anti-tubercular drug susceptibility testing					
	9. CBNAAT					
	10. Line Probe assay					
	11. NTEP					
	12. NIKSHAY ID creation and Reporting					
Learning objectives of the	To provide directions and information in relation to					
elective	1. Facilities, equipment, and procedures necessary for					
	the diagnosis and treatment of Tuberculosis patients.					
	2. To know about NTEP and about SDGs					
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List of activities of student	1. Work daily with laboratory technician in observing,					
participation	assisting and performing all test in the laboratory 2.					
	Involved in creating Nikshay ID 3. Present at least one					
	seminar- as a work up					
Learning resources	Mycobacteriology SOP					
Portfolio entries required	1. Daily Documentation of activities, training records in					
To Deal of	form of a log book					
Log Book entry required	Completion of posting signed by preceptor signed by meets					
A 4	expectation (M) grade					
Assessment	Formative: Attendance, day to day participation in					
	departmental activities, performance of assigned tasks and					
Other comments	presentation of worked up activity					
Other comments	NA					

Microbiology Department

Hamdard Institute of Medical Sciences & Research & HAHC Hospital

Name of the block	HIMSR					
Name of elective	Basics in Molecular Diagnosis of infections					
Location of Hospital lab or	BSL2 Laboratory, HIMSR					
Research facility						
Name of Internal	Dr Ayan Kumar Das					
Preceptor(s)	Dr Sarita Yadav					
Name of External preceptor	-					
if applicable						
Number of students that	4					
can be accommodated in						
this elective						
Learning objectives of the	A. Basics of Molecular Biology:					
elective	1. Structure of DNA and RNA					
	2. Transcription and translation					
	3. Prokaryotic, eukaryotic and Viral genome					
	B. Methods of DNA/ RNA extraction					
	1. Manual methods					
	2. Kit based methods					
	C. Gene amplification					
	1. PCR					
	2. Real time PCR					
	D. Post amplification analysis					
	1. Gel electrophoresis					
	2. Fluorescence signal amplification					
	3. Reverse hybridization					
List of activities of student	1. Work daily with a supervisor in observing, assisting and					
participation	performing all tests 2. Participate in departmental education					
	activities 3. Present at least one seminar- as a work up					
Learning resources	SOP of Lab					
Portfolio entries required	1. Documentation of worked up cases/tests 2. Documentation of					
	tests put/assisted					
Log Book entry required	Completion of posting signed by preceptor signed by meets					
	expectation (M) grade					
Assessment	Formative: Attendance, day to day participation in departmental					
	activities, performance of assigned tasks and presentation of worked up case/tests in departments					
Other comments	NA					
Other comments	INA					

Microbiology Department

Hamdard Institute of Medical Sciences & Research & HAHC Hospital

Name of the block	Block 1 (Microbiology 1A)			
Name of elective	Basics in Hospital infection Control			
Location of Hospital lab or				
Research facility	Microbiology Laboratory, Room no 47-51, Basement, Old			
Name of Internal	building, HAHC Hospital			
	Dr Neetu Shree			
Preceptor(s)	Dr. Midhat Ali Khan			
Name of External preceptor	-			
if applicable				
Number of students that	4			
can be accommodated in				
this elective				
Components	Basics of HIC			
	Components of HIC program			
	13. Basic measure for infection control – Standard and			
	additional precaution			
	14. Hand hygiene			
	15. Biomedical waste management			
	16. Needle stick injury & management			
	17. Spill management			
	18. PPEs			
	19. Healthcare associated infections			
	20. Aseptic techniques			
	21. Antimicrobial stewardship			
	22. Surveillance			
	23. Outbreak investigation/surveillance monitoring			
Learning objectives of the elective	To provide directions and information in relation to Facilities, equipment, and procedures necessary to			
elective	implement standard and additional (transmission-based) precautions for control of infections			
	3. Cleaning, disinfection & sterilization techniques4. Waste management			
	5. Protection of health care workers from transmissible infections			
	6. Prevention of HAI in patients			
	7. Infection control practices in special situations			
That of out the second live	1 Work doily with a synamican in shearning assisting and			
List of activities of student	1. Work daily with a supervisor in observing, assisting and			
participation	performing all HIC activities 2. Participate in HIC trainings 3.			
T coming page and	Present at least one seminar- as a work up			
Learning resources	HIC SOP			
Portfolio entries required	1. Daily Documentation of activities, training/audit records in form of a log book			
Log Book entry required	Completion of posting signed by preceptor signed by meets expectation (M) grade			
Assessment	Formative: Attendance, day to day participation in departmental			
	activities, performance of assigned tasks and presentation of			
	worked up activity			
Other comments	NA			

Microbiology Department Hamdard Institute of Medical Sciences & Research & HAHC Hospital

Name of the block Name of elective Diagnosis of infectious diseases: From basic microscopy, to culture & sensitivity Name of Internal Preceptor(s) Dr Sulmaz Reshi Preceptor(s) Dr Sarita Yadav Name of External preceptor if applicable Number of students that can be accommodated in this elective Learning objectives of the elective B. Microscopy: 4. Gram's staining 5. Motility 6. Wet Mount 7. Albert staining C. Microbial cultures and Culture Medias 3. Aerobic & 4. anaerobic methods 5. Different culture medias D. Bacterial identification 3. Biochemical tests 4. Automated methods (VITEK 2) E. Antimicrobial sensitivity 4. Conventional methods 5. Automated methods Topics / Components Topics / Components 1) Lab diagnosis of Blood stream infection 2) Lab diagnosis of Urinary tract infections and agents causing UTIs 3) Lab diagnosis of Urinary tract infections and agents causing UTIs 4) Lab diagnosis of GIT infections and agents causing GIT infections 5) Lab diagnosis of Fespiratory tract infections and agents causing SSTIs 6) Lab diagnosis of Fespiratory tract infections and agents causing RTIs 7) Methods of performing antimicrobial sensitivity and Interpretation of antibiotic sensitivity report 8) Antimicrobial stewardship List of activities of student participation List of activities of student participation Log Book entry required Log Book entry required Completion of posting signed by preceptor signed by meets expectation (M) grade	Hamdard Institute of	Medical Sciences & Research & HAHC Hospital			
to culture & sensitivity Basement, old hospital block A, room no 47 Research facility Name of Internal Preceptor(s) Number of students that as a be accommodated in this elective Learning objectives of the elective B. Microscopy: 4. Gram's staining 5. Motility 6. Wet Mount 7. Albert staining C. Microbial cultures and Culture Medias 3. Aerobic & 4. anaerobic methods 5. Different culture medias D. Bacterial identification 3. Biochemical tests 4. Automated methods (VITEK 2) E. Antimicrobial sensitivity 4. Conventional methods 5. Automated methods Topics / Components 1) Lab diagnosis of Blood stream infection 2) Lab diagnosis of Urinary tract infections and agents causing UTIs 3) Lab diagnosis of CNS infections and agents causing UTIs 4) Lab diagnosis of GIT infections and agents causing GIT infections 5) Lab diagnosis of skin and soft tissue infections and agents causing STIs 6) Lab diagnosis of respiratory tract infections and agents causing RTIs 7) Methods of performing antimicrobial sensitivity and Interpretation of antibiotic sensitivity report 8) Antimicrobial stewardship List of activities of student participation List of activities of student participation Learning resources Portfolio entries required Completion of posting signed by preceptor signed by meets	Name of the block	HAHC Hospital A block (Bacteriology lab)			
Basement, old hospital block A, room no 47 Research facility Dr Sulmaz Reshi Dr Sarita Yadav	Name of elective	Diagnosis of infectious diseases: From basic microscopy,			
Basement, old hospital block A, room no 47 Research facility Dr Sulmaz Reshi Dr Sarita Yadav					
Research facility Name of Internal Preceptor(s) Name of External preceptor if applicable Number of students that can be accommodated in this elective Learning objectives of the elective B. Microscopy: 4. Gram's staining 5. Motility 6. Wet Mount 7. Albert staining C. Microbial cultures and Culture Medias 3. Aerobic & 4. anaerobic methods 5. Different culture medias D. Bacterial identification 3. Biochemical tests 4. Automated methods (VITEK 2) E. Antimicrobial sensitivity 4. Conventional methods 5. Automated methods Topics / Components 1) Lab diagnosis of CNS infections and agents causing UTIs 3) Lab diagnosis of GT infections and agents causing GTT infections 5) Lab diagnosis of Skin and soft tissue infections and agents causing SSTIs 6) Lab diagnosis of respiratory tract infections and agents causing STTs 7) Methods of performing antimicrobial sensitivity and Interpretation of antibiotic sensitivity report 8) Antimicrobial stewardship Turnet and performing all tests 2. Participate in departmental education activities 3. Present at least one sentinar- as a work up Earning resources Portfolio entries required Log Book entry required Completion of posting signed by preceptor signed by meets	Location of Hospital lab or				
Dr Sulmaz Reshi Dr Sarita Yadav	_	Dasement, old hospital block 11, 100m no 47			
Preceptor(s) Dr Sarita Yadav		Dr Sulmaz Reshi			
Name of External preceptor if applicable Number of students that can be accommodated in this elective Learning objectives of the elective B. Microscopy: 4. Gram's staining 5. Motility 6. Wet Mount 7. Albert staining C. Microbial cultures and Culture Medias 3. Aerobic & 4. anaerobic methods 5. Different culture medias D. Bacterial identification 3. Biochemical tests 4. Automated methods (VITEK 2) E. Antimicrobial sensitivity 4. Conventional methods 5. Automated methods 5. Automated methods 6. Automated methods 7. Automated methods 8. Automated methods 9. Automated methods 1. Lab diagnosis of Blood stream infection 2. Lab diagnosis of Urinary tract infections and agents causing UTIs 3. Jab diagnosis of CNS infections and agents causing Progenic meningitis 4. Lab diagnosis of GIT infections and agents causing GIT infections 5. Lab diagnosis of fir infections and agents causing SSTIs 6. Lab diagnosis of respiratory tract infections and agents causing RTIs 7. Methods of performing antimicrobial sensitivity and Interpretation of antibiotic sensitivity report 8. Antimicrobial stewardship 1. Work daily with a supervisor in observing, assisting and performing all tests 2. Participate in departmental education activities 3. Present at least one seminar- as a work up Learning resources Portfolio entries required Log Book entry required Completion of posting signed by preceptor signed by meets					
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Other comments NA	Other comments				