



MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiology

IAMM EQAS New Delhi

Department of Clinical Microbiology and Immunology
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Result (Code No: DLH688 / Midnapore Medical College)

Batch Name	27th QC, July	Batch Marks	78
Start By Date	15-Jul-2021	Submit By Date	22-Aug-2021

Q.1. Smear :

1.1 : A 45 year old male patient, renal allograft recipient 10 days ago, developed psoas abscess. Smear prepared from pus aspirated from psoas abscess is provided to you. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Moderate PMN cells seen. (Marks :2)

Participant's Answer (Cells):--plenty of polymorphonuclear cells (Marks :2)

Expected Result (Organism):--Moderate budding yeast cells seen. (Marks :2)

Participant's Answer (Organism):--budding yeast cells with pseudohyphae (Marks :2)

Expected Result (Interpretation):--Candida infection. (Marks :1)

Participant's Answer (Interpretation):--Suggestive of fungal(candida) psoas abscess (Marks :1)

Marks Obtained :-- 5

1.2 : A 48 year old female patient with perforation of sigmoid colon underwent laparotomy. The smear is prepared from the pus sample collected from peritoneal cavity intra operatively. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Many PMN cells seen. (Marks :2)

Participant's Answer (Cells):--plenty of polymorphonuclear cells (Marks :2)

Expected Result (Organism):--Many gram positive cocci in pairs & chain (1) & many gram negative bacilli (1) seen. (Marks :2)

Participant's Answer (Organism):--Gram positive cocci in pairs, short chains and very few long chains (Marks :1)

Expected Result (Interpretation):--Mixed bacterial infection. Possibility of anaerobic infection to be ruled out. (Marks :1)

Participant's Answer (Interpretation):--Suggestive of Streptococcal infection (Marks :0)

Marks Obtained :-- 3

1.3 : A 31 year old male presented with high grade fever, head ache, double vision & slurring of speech of 5 days duration. Smear prepared from a positive blood culture bottle is provided. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Organism):--Many gram positive bacilli resembling Listeria monocytogenes in morphology seen. (Marks :2)

Participant's Answer (Organism):--short, slender, Gram negative bacilli (Marks :0)

Expected Result (Interpretation):--Listeria monocytogenes infection. (Marks :3)

Participant's Answer (Interpretation):--suggestive of septicaemia due to Gram-negative bacilli (Marks :0)

Marks Obtained :-- 0

Q.2. Culture/Sensitivity :

2.1 Three freeze dried (lyophilized) cultures of bacteria are provided. Identify and perform the antibiotic sensitivity testing. Use current CLSI guidelines wherever applicable for interpretation of antimicrobial sensitivity. EUCAST guideline can be used wherever CLSI guidelines are not available. A= Automated/M= Manual; tick whichever applicable. Attempt only one: Either "A" or "M". Kindly do not report both, even if done. Organism Isolated From Stitch abscess: (Marks: 15)

	Genus	Species
Expected Result (Identification of given organism)	<i>Staphylococcus</i> (Marks: 3)	<i>epidermidis</i> (Marks: 2)
Participant's Answer	<i>Staphylococcus</i> (Marks: 3)	<i>lugdunensis</i> (Marks: 0)

Antibiotics	Penicillin	Vancomycin	Tetracycline	Co-trimoxazole	Cefoxitin
Expected Result	R(Marks: 2)	S(Marks: 2)	S(Marks: 2)	R(Marks: 2)	R(Marks: 2)
Participant's Answer	R (Marks: 2)	I (Marks: 1)	S (Marks: 2)	R (Marks: 2)	R (Marks: 2)
Participant's Test Method	Disc diffusion	E- Test	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	14mm	9	20mm	0mm	19mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 12					

2.2 Organism Isolated From VAP: (Marks: 15)

	Genus	Species
Expected Result (Identification of given organism)	<i>Pseudomonas</i> (Marks: 3)	<i>aeruginosa</i> (Marks: 2)
Participant's Answer	<i>Pseudomonas</i> (Marks: 3)	<i>aeruginosa</i> (Marks: 2)

Antibiotics	Ceftazidime	Cefepime	Imipenem	Amikacin	Ciprofloxacin
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	I (Marks: 1)	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	17mm	21mm	29	26mm	32
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 14					

2.3 Organism Isolated from Stool : (Marks: 13)

	Genus	Species
Expected Result (Identification of given organism)	<i>Shigella</i> (Marks: 3)	<i>dysenteriae</i> (Marks: 2)
Participant's Answer	<i>Shigella</i> (Marks: 3)	<i>dysenteriae</i> (Marks: 2)

Antibiotics	Ampicillin	Ceftriaxone	Ciprofloxacin	Azithromycin
Expected Result	R(Marks: 2)	S(Marks: 2)	R(Marks: 2)	S(Marks: 2)
Participant's Answer	R (Marks: 2)	S (Marks: 2)	R (Marks: 2)	S (Marks: 2)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	8mm	34mm	15mm	24mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)				
Marks Obtained: 13				

Q.3.: Serology:

3.1 : Please carry out following serological tests on the given samples. (Marks: 8)

Q.No.	3.1.1	3.1.2
Test	RA factor	Rubella IgG antibody
Expected Result	Negative (Marks: 4)	Positive (Marks: 4)
Participant's Answer	Negative (Marks: 4)	Negative (Marks: 0)

Marks Obtained :-- 4

3.2 : Perform the Blood Borne Viral (BBV) serology: HBsAg, HCV and HIV antibody on both the samples (Sample nos. 3.2.1 & 3.2.2) (Marks: 12)

Sample		HIV Antibody	HBsAg	HCV Antibody
3.2.1	Expected Result	Non-Reactive (Marks:	Reactive (Marks: 2)	Non-Reactive (Marks:

		2)		2)
	Participant's Answer	Non-Reactive (Marks: 2)	Reactive (Marks: 2)	Non-Reactive (Marks: 2)
3.2.2	Expected Result	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)

Marks Obtained :-- 12

Grand Total Marks : 78

Marks Obtained: 63

Note : This is computer generated report, does not require signature of the EQAS provider.

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