



MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiology

IAMM EQAS New Delhi

Department of Clinical Microbiology and Immunology
Sir Ganga Ram Hospital, Rajinder Nagar, New Delhi-110060



Dr. Chand Wattal
Chairman - EQAS

Dr. Jaswinder K. Oberoi
PT Coordinator - EQAS

Dr. Neeraj Goel
PT Coordinator - EQAS

Dr. Sanghamitra Datta
PT Quality Manager - EQAS

Dr. Reena Raveendran
PT Technical Manager - EQAS

Result (Code No: DLH908 / KGMT MULTISPECIALITY HOSPITAL)

Batch Name	30th QC , July	Batch Marks	80
Start By Date	19-Jul-2022	Submit By Date	20-Aug-2022

Q.1. Smear :

1.1 : A 55 year old male, HIV positive presented with fever & headache, 2 weeks duration. Smear prepared from patient's positive blood culture bottle is provided. Perform Gram stain & report on it. (Marks: 5)

Expected Result (Findings):--Many Gram positive (1) yeast cells (1) with narrow angle (1) budding seen. (Marks :3)

Participant's Answer (Findings):--Moderate Gram positive budding yeast cells with surrounding halo around the yeast cell resembling morphology of Cryptococcus species seen in smear. (Marks :2)

Expected Result (Interpretation):--BSI caused by Cryptococcus species. (Marks :2)

Participant's Answer (Interpretation):--Suggestive of Cryptococcal infection in an immunocompromised patient. (Marks :2)

Marks Obtained :-- 4

1.2 : 65 year old male presented with fever & abdominal distension 15 days after laparotomy. Smear prepared from Ascitic fluid is provided. Perform Gram stain & report on it. (Marks: 5)

Expected Result (Cells):--Few PMN cells & degenerated cells seen. (Marks :2)

Participant's Answer (Cells):--Moderate no. of pus cells seen. (Marks :2)

Expected Result (Organism):--Many GNB seen (2). (Marks :2)

Participant's Answer (Organism):--Few pleomorphic Gram negative bacilli seen. (Marks :2)

Expected Result (Interpretation):--Gram negative peritonitis. (Marks :1)

Participant's Answer (Interpretation):--Post operative peritonitis due to pleomorphic Gram negative bacilli, likely Klebsiella or proteus. (Marks :1)

Marks Obtained :-- 5

1.3 : A 35 year old male patient diagnosed to have ureteric calculus presented with fever & dysuria of 3 days duration. Smear prepared from urine sample is provided. Perform Gram stain & report on it. (Marks: 5)

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

Participant's Answer (Cells):--Moderate no. of PMN cells seen. (Marks :2)

Expected Result (Organism):--Few GNB (1) seen (>1/ OIF) suggestive of 10⁵ organism/ ml of urine (1). (Marks :2)

Participant's Answer (Organism):--Mixed bacterial flora consisting of Gram negative bacilli, Gram positive bacilli and few Gram positive cocci. (Marks :1)

Expected Result (Interpretation):--Urinary tract infection caused by GNB. (Marks :1)

Participant's Answer (Interpretation):--Poor quality sample. Advised to repeat test with clean catch, midstream urine sample. (Marks :0)

Marks Obtained :-- 3

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; select whichever applicable. Attempt only one: Either "A" or "M". Kindly do not report both, even if done. Organism Isolated From blood: (Marks: 15)

	Genus	Species	Serotype (if applicable)
Expected Result (Identification of given organism)	<i>Salmonella enterica</i> (Marks: 3)	<i>Enteritidis</i> (Marks: 2)	

Participant's Answer		Salmonella (Marks: 3)	Species (Marks: 0)		
Antibiotics	Ampicillin	Ceftriaxone	Chloramphenicol	Ciprofloxacin	Co-trimoxazole
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	S (Marks: 2)	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)	21 mm	26 mm	22 mm	25 mm	26 mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Participant's Comments:		We do not have serotyping kit available at our laboratory and hence could not confirm the species of the isolate.			
Marks Obtained: 13					

2.2 Organism Isolated From Urine: (Marks: 11)

	Genus	Species	Serotype (if applicable)
Expected Result (Identification of given organism)	<i>Staphylococcus</i> (Marks: 3)	<i>saprophyticus</i> (Marks: 2)	
Participant's Answer	<i>Staphylococcus</i> (Marks: 3)	<i>saprophyticus</i> (Marks: 2)	

Antibiotics	Co-trimoxazole	Nitrofurantoin	Levofloxacin
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	23 mm	20 mm	25 mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)			
Marks Obtained: 11			

2.3 Organism Isolated from Ischio-rectal pus : (Marks: 15)

	Genus	Species	Serotype (if applicable)
Expected Result (Identification of given organism)	<i>Proteus</i> (Marks: 3)	<i>mirabilis</i> (Marks: 2)	
Participant's Answer	<i>Proteus</i> (Marks: 3)	<i>mirabilis</i> (Marks: 2)	

Antibiotics	Piperacillin/Tazobactam	Meropenem	Amikacin	Ceftriaxone	Ciprofloxacin
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	S (Marks: 2)	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)	24 mm	26 mm	21 mm	26 mm	28 mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

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	Anti HBc Total	ASO
Expected Result	Positive (Marks: 4)	Negative (Marks: 4)
Participant's Answer	Not Attempted (Not evaluated.)	Not Attempted (Not evaluated.)
Method	Not Attempted	Not Attempted
Name of Kit	Not Attempted	Not Attempted

Center Comments	We are currently not performing the above tests at our laboratory.
------------------------	---

Marks Obtained :-- (Not evaluated.)

3.2 : Perform the Blood Borne Viral (BBV) serology: HBsAg, HCV and HIV antibody on the given samples (Sample nos. 3.2.1, 3.2.2, 3.2.3 & 3.2.4) (Marks: 24)

Sample		HIV Antibody	HBsAg	HCV Antibody
3.2.1	Expected Result	Non-Reactive (Marks: 2)	Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	Arkary
3.2.2	Expected Result	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Reactive (Marks: 2)
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	Arkary
3.2.3	Expected Result	Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	Arkary
3.2.4	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)
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	Arkary

Marks Obtained :-- 24

Grand Total Marks : 80

Marks Obtained: 75

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

-----End of Report-----