



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: DLH911 / All India Institute of Medical Sciences, Rajkot)

Batch Name	31st QC , November	Batch Marks	82
Start By Date	21-Nov-2022	Submit By Date	21-Dec-2022

Q 1. Smear :

1.1 : A 2 year old child presented with fever & sore throat of 3 days duration. Smear prepared from throat swab of the patient is provided. Perform Albert's stain & report on it. (Marks: 5)

Expected Result (Findings):--Many bacilli are seen with green cytoplasm & metachromatic granules arranged in cuneiform pattern. (Marks :3)

Participant's Answer (Findings):--Evidence of bluish green bacilli with bluish black metachromatic granules arranged in cuneiform/chinese letter (v and L forms) resembling like Corynebacterium diphtheriae seen (Marks :3)

Expected Result (Interpretation):--Suggestive of Corynebacterium diphtheriae. (Marks :2)

Participant's Answer (Interpretation):--Upper respiratory tract infection most probably due to Corynebacterium diphtheriae. (Marks :2)

Marks Obtained :-- 5

1.2 : Pus collected during laparotomy from peritoneal cavity of a 55 yr old male patient presented with signs & symptoms of intestinal perforation. Smear prepared from pus sample is provided. Perform Gram stain & report on it. (Marks: 5)

Expected Result (Cells):--Moderate no. of PMN cells & few degenerated cells seen. (Marks :1)

Participant's Answer (Cells):--Moderate polymorphonuclear cells, few epithelial cells and debris (Marks :1)

Expected Result (Organism):--Many GNB (1) & GPC (1) seen. (Marks :2)

Participant's Answer (Organism):--Many gram positive cocci in pairs and short chains, few gram negative bacilli (Marks :2)

Expected Result (Interpretation):--Mixed bacterial infection, possibility of anaerobic infection. (Marks :2)

Participant's Answer (Interpretation):--Peritonitis due to polymicrobial flora (Marks :2)

Marks Obtained :-- 5

1.3 : A 45 year old female presented with fever & cough of 2 weeks duration. Smear prepared from the sputum sample is provided. Perform ZN stain & report on it along with RNTCP grading. (Marks: 5)

Expected Result (Findings):--Many acid fast bacilli which are slender & beaded seen. (Marks :3)

Participant's Answer (Findings):--Evidence of slender slightly curved uniformly beaded acid fast bacilli arranged singly and in small groups seen (Marks :3)

Expected Result (Interpretation):--RNTCP grading 2+. (Marks :2)

Participant's Answer (Interpretation):--As per RNTCP (NTEP) grading acid fast bacilli seen (grade 2+) (Marks :2)

Marks Obtained :-- 5

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 Urine: (Marks: 15)

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

Antibiotics	Piperacillin/ Tazobactam	Meropenem	Amikacin	Co-trimoxazole	Levofloxacin
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	(Not evaluated.)
Participant's Answer	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)	(Not evaluated.)
Participant's Test Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	(Not evaluated.)
Participant's Zone Size (mm) or MIC (ug/ml)	<=4 ug/ml	<=0.25 ug/ml	2 ug/ml	<=20 ug/ml	(Not evaluated.)

Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)

Participant's Comments: ESBL (CTX-M like) producer

Examiner Comments: This antibiotic (Levofloxacin) has been withdrawn from evaluation

Marks Obtained: 13

2.2 Organism Isolated From Endotracheal Tube: (Marks: 11)

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

Antibiotics	Levofloxacin	Minocycline	Co-trimoxazole
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	Vitek -2
Participant's Zone Size (mm) or MIC (ug/ml)	34 mm	28 mm	<= 20 ug/ml

Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)

Marks Obtained: 11

2.3 Organism Isolated From Pus : (Marks: 15)

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

Antibiotics	Cefoxitin	Erythromycin	Clindamycin	Vancomycin	Tetracycline
Expected Result	R(Marks: 2)	R(Marks: 2)	R(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	R (Marks: 2)	R (Marks: 2)	R (Marks: 2)	S (Marks: 2)	S (Marks: 2)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	E- Test	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	15 mm	0 mm	0 mm	1 ug/ml	25 mm

Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)

Participant's Comments: Methicillin-resistant *Staphylococcus aureus* (MRSA), D test positive (Inducible clindamycin resistance ,MLSB (iMLSB) phenotype

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	Rubella IgG antibody	RA factor
Expected Result	Positive (Marks: 4)	Negative (Marks: 4)
Participant's Answer	Not Attempted (Not evaluated.)	Negative (Marks: 4)
Method	Not Attempted	Latex Agglutination
Name of Kit	Not Attempted	RF- Rhexax

Marks Obtained :-- 4

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)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)

	Participant's Answer	Non-Reactive (Marks: 2)	Negative (Marks: 2)	Negative (Marks: 2)
	Method	ICT	ICT	ICT
	Name of kit	S D Bioline	OTHER	OTHER
3.2.2	Expected Result	Non-Reactive (Marks: 2)	Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Positive (Marks: 2)	Negative (Marks: 2)
	Method	ICT	ICT	ICT
	Name of kit	S D Bioline	OTHER	OTHER
3.2.3	Expected Result	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Negative (Marks: 2)	Negative (Marks: 2)
	Method	ICT	ICT	ICT
	Name of kit	S D Bioline	OTHER	OTHER
3.2.4	Expected Result	Non-Reactive (Marks: 2)	Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Positive (Marks: 2)	Negative (Marks: 2)
	Method	ICT	ICT	ICT
	Name of kit	S D Bioline	OTHER	OTHER

Marks Obtained :-- 24

Grand Total Marks : 82
Marks Obtained: 82

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

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