

Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu 104th IAMM EQAS Microbiology: Bacteriology/ Serology

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NABL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018



MARCH 2020

104th EQAS EVALUATION REPORT

MEMBER ID:

Marks Obtained: 67.5/71 (95.1%)

MARCH 2020 / BACTERIOLOGY SMEARS:

Question: Carry out the appropriate staining procedure and document the relevant observation. Provide the Impression or probable organism seen (AS ASKED)

Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

PLEASE NOTE: The inaccuracies in the participant report resulting in deduction of marks has been underlined in the expected report.

Exercise	Question	Expected Report	Evalu	Evaluation
Number				
SM1	Please carry out a Gram stain on	Presence of host cells & debris (1 mark): Occasional pus cells, Many		7
	the given fixed smear prepared	epithelial cells.	_	
	from a voided URINE specimen	Description of Organism/s (2marks): Many Gram positive spherical cocci		
	of a 63-year old diabetic lady	in pairs, chains, groups. Many Gram negative bacilli (slender and thick).	1.5	2 4.5
	with a history of mild dysuria	Many Gram positive bacilli, Moderate oval budding yeast like organisms.		
	and increased frequency for 2			<u></u>
	days.	Impression/comment (1 mark): Improperly collected specimen. Suggest	u	(-
		Telegraphic principles and a contraction of the con		
SM2	Please carry out a Gram stain on	Presence of host cells & debris (1mark): Many pus cells.	0 0	0.5
	the given fixed smear prepared			
	from an EXUDATE specimen of	Description of Organism/s (2 marks): Many Gram positive spherical cocci	1	2.5
	a 23-year old man presenting	in pairs and chains.	1.3	7
	with an exudative lesion on the			
	right leg associated with high	Possible organism (1 mark): Streptococcus species (<i>Probably S. pyogenes</i>)	 	35 (4
	grade fever, chills and myalgia		,	-
	for 2 days.			

4	3.5	မ			
2.5	2	1.5	Possible organism (1 mark): Probable NFGNB- Acinetobacter spp	year old gentleman admitted in the ICU with worsening saturation	
				ASPIRATE specimen of a 69-	÷
	0.0	-	Description of Organism/s (2 marks): Many Gram negative cocco-bacilli	from an ENDOTRACHEAL	
_	0 /1	•	Please carry out a Gram stain on Presence of host cells & debris (1 mark): Many pus cells.	Please carry out a Gram stain on the given fixed smear prepared	SM3

MARCH 2020 / BACTERIOLOGY CULTURE:

Question: A freeze-dried (lyophilized) culture of an organism isolated from a clinical specimen is given. Carry out the appropriate techniques for each exercise and identify the pathogen. Carry out the antimicrobial susceptibility testing according to the panel given

Please refer the attached evaluation format for details on the criteria for evaluation.

in the evaluation report below. A 'partially correct' or 'incorrect' component of the participant report which has resulted in a deduction of marks has been in indicated

CU1: Isolated from a FECES specimen of a 26year old gentleman with a 2-day history of diarrhea and vomiting associated with abdominal pain. FINAL INDENTIFICATION: Non-agglutinating Vibrio cholerae (Non 01- Non 0139)

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	•	Control of the series	0 0.5 (1)
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	•		1 2 3 4
Final identification	<		0 0.5 1 1.5 (2)

Susceptibility		EXPECTED REPORT	REPORT	PARTICIPANT REPORT	T REPORT	MARK	TYPE OF ERROR
report	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct	Incorrect	10 marks	Error
Ampicillin	≥17	\$	Susceptible	< ·		-1 0 1(2)	mE/ ME/ VME
Tetracycline	≥15	4	Susceptible	<		-1 0 1(2)	mE/ ME/ VME
Co-trimoxazole	≥16	≤2-38	Susceptible	<		-1 0 1(2)	mE/ ME/ VME
Cefotaxmine	≥26	△	Susceptible	<		-1 0 1②	mE/ ME/ VME
Ciprofloxacin	≥21	Δ	Susceptible	~		-1 0 1(2)	mE/ ME/ VME

CU2: Isolated from a URINE specimen of a 35year old gentleman with hemiplegia on a long-term urinary catheter

Final identification	Salient culture and biochemical findings enabling final dentification (Minimum 3 key characteristics)	Microscopy (Gram stain + Motility)	Identification details Reported Not rep	FINAL IDENTIFICATION: Serratia marcescens
			Not reported	
0 0.5 1 1.5 (2)	1 2 3 🕘	0 0.5 (1)	Evaluation (7 marks)	

Susceptibility	EX	EXPECTED REPORT	RT	PARTICIPANT REPORT	NT REPORT	MARK	TYPE OF ERROR
	Zone size (mm) MIC (µg/ml)	MIC (µg/ml)		Correct	Incorrect	8 marks	Error
Cefpodoxime	18-20	4	Caution use		NOT	NOT EVALUATED	
Co-trimoxazole	≥16	≤2-38	Susceptible	•		-1 0 1(2)	mE/ ME/ VME
Amoxicillin-	6	>32	Intrinsic		1	$\bigcirc 012$	mE/ ME/VME
clavulanate			resistance			.5	(
Levofloxacin	/ ≥21	≤0.5	Susceptible			NOT DONE	
Meropenem	≥23	_ ∑	Susceptible	•		-1 0 1(2)	mE/ ME/ VME

CU3: Isolated from an EXUDATE specimen from a 22 year old lady with a history of extensive burns to her right forearm.

FINAL IDENTIFICATION: Staphylococcus aureus (MRSA)

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	•		0 0.5(1)
Salient culture and biochemical findings enabling final Identification (Minimum 3 key characteristics)	•		1 2 3(4)
Final identification	<		0 0.5 1 1.5 (2)

Susceptibility		EXPECTED REPORT	REPORT	PARTICIPANT REPORT	T REPORT	MARK	TYPE OF ERROR
report	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct	Incorrect	10 marks	Error
Cefoxitin	≤21	\%	Resistant	·		-1 0 1(2)	mE/ ME/ VME
Erythromycin	≥23	≤0.5	Susceptible	<		-1 0 12	mE/ ME/ VME
Co-trimoxazole	≥16	≤2-38	Susceptible	4		-1 0 1(2)	mE/ ME/ VME
Clindamycin	≥21	≤0.5	Susceptible	<	2	-1 0 12	mE/ ME/ VME
Linezolid	≥21	21	Susceptible	4		-1 0 12	mE/ ME/ VME

MARCH 2020 / SEROLOGY

Test method employed for detection C-reactive protein (CRP) at your lab: Turbidimetry Peer group (n) = 320
Please refer the attached evaluation format for details on the criteria for evaluation

	ì	0.2	0.22 to 241.8	2.9648	10.8659	Positive	11.55	Positive	CRP	253
2	3	3								
	2	0.0	0.0 to 39.65	1.4239	2.1770	Negative	2.12	Negative	CRP	SE2
)									()	
1		0.7	1 to 312	8.8178	36.7014	Positive	42.68	Positive	CRP	CE1
.	•	1					(1118/11)	Kesuit		The second second
Score	Marks	score	(mg/L)	SD	Mean	Intended	Your Value	Your	Parameter	
Your	Max	Z & Z'	Range	Dahmet						

MARCH 2020 / SEROLOGY

Test method employed for detection Rheumatoid Factor (RF) at your lab: Turbidimetry Peer group (n) = 237 Please refer the attached evaluation format for details on the criteria for evaluation

0.0	0.0 to 268.8	10.2638	45.2702	Positive	51.6	Positive	RF	SE3
)						(1
96	-2.70 to 389.96	4.9366	6.8716	Negative	<20.0	Negative	RF	SF2
						(
30	0.0 to 230	5.3985	11.5177	Negative	<20.0	Negative	RF	SE1
					(TO/III/O)	Kesuit	Trail	
	Range (IU/mL)	Robust SD	Robust	Intended Result	Your Value	Your	Parameter	
	THE STATE OF THE S							

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MEMBER ID:

	4	4	4	17	13	17	4	4	4
67.5	4	3.5	4	17	10	17	4	4	4
Marks obtained	SE3	SE2	SE1	CU3	CU2	CUI	SM3	SM2	SM1

JUNE BUND

Scientific Co-ordinator Dr. Rani Diana Sahni

Report Dispatch Date: 15.09.2020

Quality Manager Dr. John A Jude Prakash

4. Baran Dr. V. Balaji PT Co-ordinator

EROLOGY

chod employed for detection C - reactive protein at your lab: Turbidimetry

eer group (n) = 339

Please refer the attached evaluation format for details on the criteria for evaluation

201100000000000000000000000000000000000			
Your Score	7	7	7
Max Marks	7	7	2
Z/Z,	-0.1	0.1	0.3
Range (mg/L)	2.9013 1.2276 0.0 - 43.92	0.0 - 50.65	0.76 - 145
Robust SD	1.2276	1.2641	14.8079
Robust Robust Mean SD	2.9013	2.3069	62.1031 14.8079
Intended Result	Negative	Negative	Positive
Your Value In (mg/L)	2.8	2.4	99
Your Result	Negative	Negative	Positive
Parameter	CRP	CRP	CRP
	SE1	SE2	SE3

Test method employed for detection Antistreptolysin O (ASO) your lab: <u>Turbidimetry</u>

Peer group (n) = 177

Please refer the attached evaluation format for details on the criteria for evaluation

	Parameter	Your Result	Your Value (IU/mL)	Intended Robust Result Mean	Robust Mean	Robust SD	Range (IU/mL)	Z/Z,	Max Marks	Your Score
SE1	ASO	Negative	8.98	Negative	94.8569	32.0891	w		7	7
SE2	ASO	Negative	91.8	Negative	87.4985	29.2287	87.4985 29.2287 0.32 – 254.3	0.1	2	7
SE3	ASO	Negative	107.4	Negative	138.059	138.059 45.1067	33 – 374.2	-0.7	2	7