

116th IAMM EQAS Microbiology: Bacteriology/ Serology CMC MICRO EQAS

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FEBRUARY 2024

116th EQAS EVALUATION REPORT

MEMBER ID:

Marks Obtained: 72/72 (100%)

FEBRUARY 2024 / 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 smear report.

			SM1	Number	Exercise
	presenting with fever and dysuria.	the given fixed smear prepared from a URINE specimen obtained from a 58-vear-old ladv	Please carry out a Gram stain on		Question
* Interpretation (1 mark): Probable case of urinary tract infection.	Many (0.5) Gram negative (0.5) long, thick and short, slender bacilli (1)	Description of Organism/s (2 mark):	Presence and grading of Host cells (1 mark): Many pus cells		Expected Report
w	1.5	0			Ev
33. 35.	12	0.5			Evaluation
(-)	2.5	,			n

		SM3			SM2
	diabetic man with osteomyelitis.	Please carry out a Gram stain on the given fixed smear prepared from an EXUDATE specimen collected from a 69-year-old		with fever and rapid breathing with cyanosis.	Please carry out a Gram stain on the given fixed smear prepared from a BLOOD culture specimen
Staphylococcus species.	* Probable organism (1 mark):	Presence and grading of Host cells (1 mark): Many pus cells Description of Organism/s (2marks):	Streptococcus species probably Group B Streptococcus (Streptococcus agalactiae)	* Probable organism (1 mark):	Description of Organism/s (2 mark): Gram positive spherical cocci arranged in pairs & chains. (Few oval Gram positive pairs & chains). Scattered forms and few groups.
w	1.5	0		1.5	0
3.5	2	0.5	\bigcirc	2	0.5
4	2.5	1		2.5	_

FEBRUARY 2024 / BACTERIOLOGY CULTURE:

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

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

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 in the

statistics and the EQAS explained documents. "REMOVED FROM EVALUATION" refers to a test that has not been evaluated for ALL participants. The explanation can be found in the EQAS

CU 1: Isolated from an EXUDATE specimen of a 66-year-old gentleman, post-RTA, presenting with an infected skin graft.

FINAL INDENTIFICATION: Pseudomonas aeruginosa

Renorted	Not reported	Evaluation (7 marks)
1000000	•	
<		0 0.5 (1)
*		
•		0.5 1 1.5 (2)
	Reported	Reported Not reported

= F/ME/VME	-1 6 10		<		1		
mE/ME/VME	-1 0 1(2)		<	Susceptible	I∧ %	≥18	Ceftazidime 30µg
Error	10 marks	Incorrect	Correct	Interpretation CLSI	MIC (μg/ml)	Zone size (mm)	BD, Etest, BMD
TYPE OF ERROR	MARK	IPANT REPORT	PARTICIPA	Г	EXPECTED REPORT	EXPEC	Susceptibility report

^{*}Not to be reported for samples other than urine. Refer CLSI M-100 Ed 33 guidelines page no 78

CU 2: Isolated from an EXUDATE specimen collected from a 69-year-old diabetic man with osteomyelitis.

FINAL IDENTIFICATION: Staphylococcus haemolyticus

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: Staphylococcus haemolyticus	<		0.5 1 1.5(2)

Susceptibility Report	EXI	EXPECTED REPORT	ORT	PARTICIPANT REPORT	T REPORT	MARK	TYPE OF ERROR
Confirmed Manual, Vitek, BD, Etest, BMD	Zone size (mm)	MIC (µg/ml)	Interpretation CLSI	Correct	Incorrect	10 marks	Error
Cefoxitin 30µg	≥ 22 (cefoxitin)	≤ 0.5 (oxacillin)	Susceptible	<		-1 0 1 2	mE/ME/VME
Clindamycin 2µg	≥21	≤ 0.5	D zone – Negative Susceptible	<		-1 0 1 2	mE/ME/VME
Erythromycin 15µg	≤13	≥8	Resistant	<		-1 0 1 2	mE/ME/VME
Linezolid 30µg	≥ 26	۱۸ 4	Susceptible	<		-1 0 1 2	mE/ME/VME
Vancomycin 30µg	NOT APPLICABLE	14	Susceptible	<		-1 0 1 2	mE/ME/VME

<u>Comments:</u>
Only oxacillin MIC recommended for *S.haemolyticus*.

Vancomycin MIC recommended for testing.

Isolates that are erythromycin resistant but clindamycin sensitive or intermediate are to be reported based on D-test. Refer CLSI M-100 Ed 34 guidelines page no 98 to 104

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CU 3: Isolated from a BLOOD culture of a 58-year-old lady with fever and dysuria for 2 days with renal angle tenderness.

FINAL IDENTIFICATION: Escherichia coli

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

Susceptibility report		EXPECTED REPORT	ORT	PARTICIPANT REPORT	NT REPORT	MARK	TYPE OF ERROR
Vitek, BD, Etest, BMD	Zone size (mm)	MIC (μg/ml)	Interpretation CLSI	Correct	Incorrect	12 marks	Error
Levofloxacin 5µg	≥21	≤0.5	Susceptible	<		-1 0 1 2	mE/ME/VME
Cefotaxime 30µg	≥26	\triangle	Susceptible	<	1	-1 0 12	mE/ME/VME
Cefepime 30µg	≥25	≤2	Susceptible	<		-1 0 12	mE/ME/VME
Piperacillin-tazobactam 100/10µg	≥25	≤8/4	Susceptible	<		-1 0 12	mE/ME/VME
Amikacin 30µg	_ ≥20	4	Susceptible	<		-1 0 12	mE/ME/VME
Meropenem 10μg	≥23	<u>\</u>	Susceptible	<	2	-1 0 1(2)	mE/ME/VME

FEBRUARY 2024 / SEROLOGY

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

SEI	CF1	-
ТРНА	RPR	Parameter
	Non-Reactive	Your Result
	Non-Reactive	Intended result
NOT DONE	•	Correct
		Incorrect
	2	Max Marks
	2	Your Score

SE2 Wida	I at affict	Doromotor
idal	2	Y
4	Correct	Your Interpretation
	Incorrect	retation
Negative	STO	
Negative	STH	Intended
Not Suggestive of Enteric Fever / Typhoid Fever	Interpretation	ed Result
2	STO STH	Max Marks
2	STH	Marks
4	Score	Your

SE3: Test method employed for detection C-reactive protein (CRP) at your lab: Turbidimetry Peer group (n) = 526

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

SE3	Par
CRP	Parameter
34.8	Your Value (mg/L)
44.69	Robust Mean
8.72	Robust SD
0.20 to 545.8	Range (mg/L)
0.47	Uncertainty of Assigned value
-1.1	Z & Z'
12	Max Marks
2	Your Score

Disclaimer:

This is a confidential document and subject to the rules of confidentiality as described by the ISO 17043:2010 standard.

MEMBER ID:

M 1 4	_
1 4	_
4	_
	%

Maximum marks = 72	Maximum	2	4	2	19	17	17	4	သ	4
100%	72	2	4	2	19	17	17	4	ယ	4
Marks obtained	Marks	SE3	SE2	SE1	CU3	CU2	CU1	SM3	SM2	SM1

Dr. Rani Diana Sahni * Townwood

Scientific Co-ordinator

Report Dispatch Date: 31.05.2024

Quality Manager

K. Barara Dr. V. Balaji

Dr. John A Jude Prakash

PT Co-ordinator

***************** End of Report ***********