



CMCVIROEQAS

(Under the aegis of Indian Association of Medical Microbiologists)

PT Unit, Department of Clinical Virology, Christian Medical College,
Vellore-632004, Tamil Nadu

Email: viroeqas@cmcvellore.ac.in Phone: 0416-2283455

PC - 1034

14th SEROLOGY CMCVIROEQAS EVALUATION FINAL REPORT

PANEL: Dengue Serology

CMCVIROEQAS ID.:

Opening Date: 09-08-2021

Result Receiving Date: 25/8/21

Distribution No:

Specimen #	Intended Result			Your Result		
	IgM	IgG	NSI	Dengue IgM	Dengue IgG	Dengue NSI
S0322145	Positive	Positive	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0322146	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0322147	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0322148	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
Your Score				6/8 (75%)	6/8 (75%)	8/8 (100%)

Scoring System

Qualitative Results	Score
Concordant Result	2
Intermediate/Indeterminate	1
Discordant Result	0



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Cumulative Report of this cycle:

Total Number of specimens you received : 4
Specimen # not used for **Dengue panel analysis** : 0
Number of markers reported as not examined : 0
Number of Specimens Reported Late for analysis : 0
Your cumulative score for the specimens you reported : 20 out of the possible total of 24
Total Number of participants : 272
Total Number of participants who turned in their results : 248

Standard Deviation Index (SDI)

Performance of the participating Laboratories	Dengue IgM	Dengue IgG	Dengue NSI
Mean score of all Laboratories	7.5	7.2	8.0
Standard Deviation	1.0	1.2	0.3
Your Laboratory SDI	-1.5	-1	0

SDI of ± 3 and above indicates possible poor performance



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Mean score of all Laboratories	7.5	7.2	8.0
Standard Deviation	1.0	1.2	0.3
Your Laboratory SDI	-1.5	-1	0

SDI of ± 3 and above indicates possible poor performance



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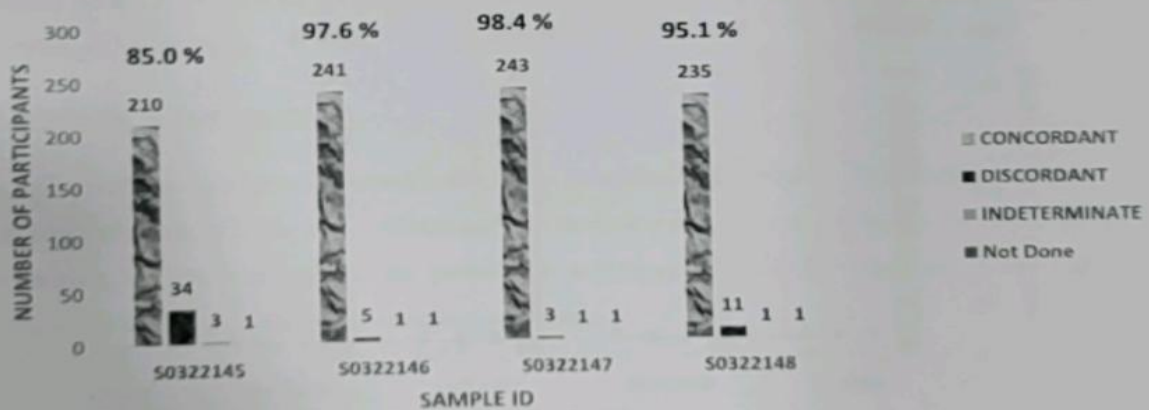
(Under the aegis of Indian Association of Medical Microbiologists)
 PT Unit, Department of Clinical Virology, Christian Medical College,
 Vellore-632004, Tamil Nadu
 Email: viroeqas@cmcvellore.ac.in Phone: 0416-2283455

Participants who reported all analyzed specimens accurately

Marker	Total number of Participants who reported all specimen results	Percentage of Participants with concordant result for all analyzed specimens
Dengue IgM	247	80.2
Dengue IgG	216	63.3
Dengue NS1	244	99.2

Performance Graphs

DENGUE - IgM

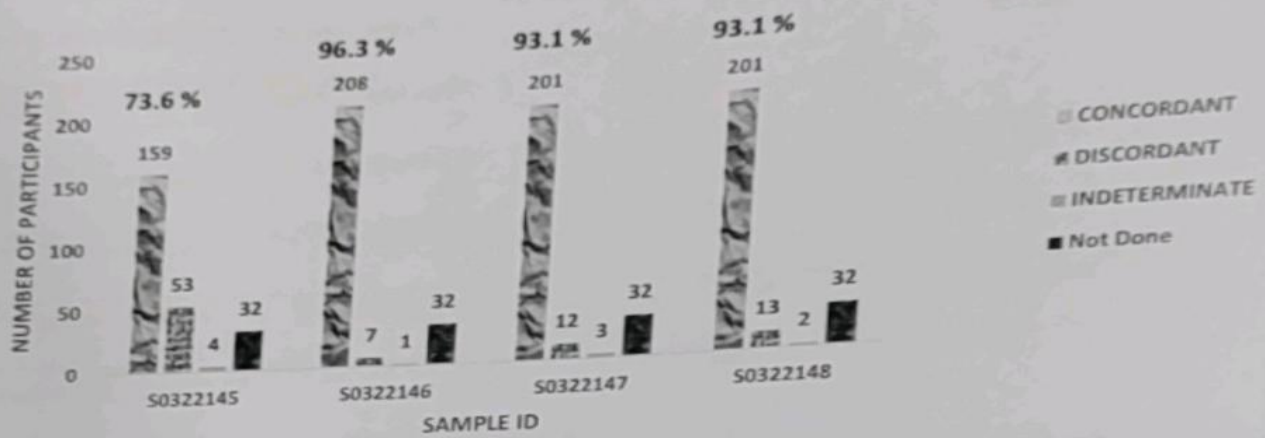




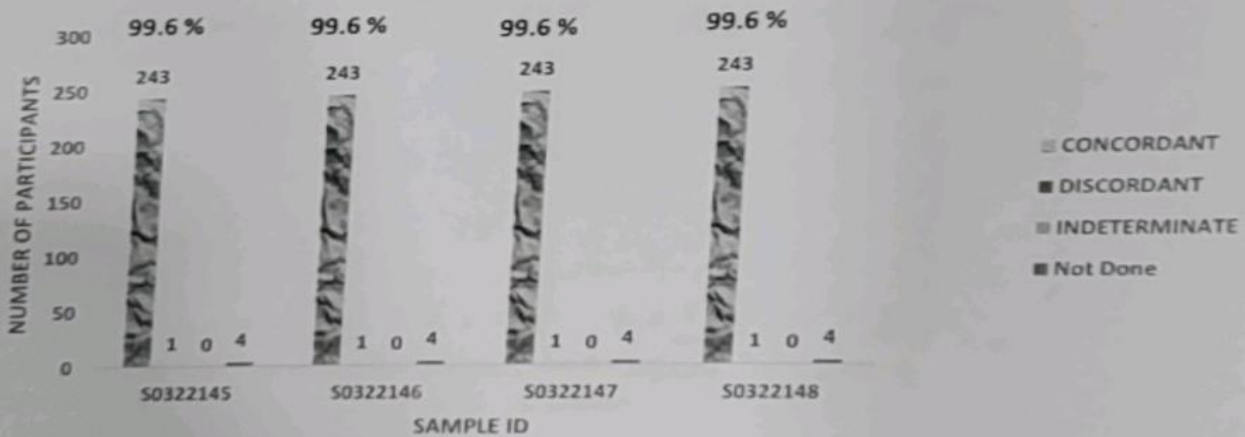
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DENGUE - IgG



DENGUE - NS1





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METHOD SUMMARY

	Dengue IgM		Dengue IgG		Dengue NSI	
	n	Discordant	n	Discordant	n	Discordant
RAPID ASSAY	82	32 (39.0%)	85	57 (67.1%)	95	1 (1.1%)
ELFA	2	0	1	1 (100%)	3	0
ELISA	163	17 (10.4%)	129	22 (17.1%)	146	3 (2.1%)
Outside scope of Lab	1	-	32	-	4	-
No Kit Information	-	-	1	-	-	-

Comments:

This PT program is a simultaneous and continuous scheme. Participants are scored based on qualitative result. If more than 30% of the laboratory report discrepant result that sample will not be considered for analysis.

Confidentiality of the results:

The results are kept confidential between the participant and the provider. The results can be revealed to a regulatory body with written consent from the participant. However, in exceptional circumstances, results from a particular participant will be provided to the regulatory body and the participant will be notified of this action in writing.

Assigned Value:

Assigned value is determined using multiple assays/multiple testing of the same analyte.



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The proficiency testing material is a pooled lyophilized plasma sample prepared by following institutional proficiency testing standard operating protocol (PT-SOP) by trained staff. None of the work related to testing, preparation and packaging of sample is subcontracted. The homogeneity of the PT material is determined using multiple testing. The stability of the testing material is determined by assessing the reactivity of the specimen till the closing date. The homogeneity and stability of the materials were found satisfactory as per ISO13528:2015.

Standard Deviation Index (SDI):

Standard deviation index is used to analyze your laboratories performance relative to the other participating laboratories. The SDI is calculated for each parameter or marker separately using the formula

$SDI = (Your\ score - interlaboratory\ mean\ score) / interlaboratory\ standard\ deviation\ of\ the\ score$

Enquiries: For queries, please contact CMCVIROEQAS coordinator at the email
viroeqas@cmcvellore.ac.in

For all communications, please use your CMCVIROEQAS LAB ID and Distribution Number.

Name of CMCVIROEQAS Coordinator

Signature

Dr. Rajesh Kannangai

Department of Clinical Virology

Report Dispatch Date: 21-10-2021

Report authorized by: CMCVIROEQAS Coordinator

END OF REPORT

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PT Unit, Department of Clinical Virology
CHRISTIAN MEDICAL COLLEGE, VELLORE

The data in this CMCVIROEQAS reports are confidential



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14th SEROLOGY CMCVIROEQAS EVALUATION FINAL REPORT**PANEL: BBVS**CMCVIROEQAS ID.

Opening Date: 09-08-2021

Result Receiving Date: 25/8/21

Distribution No:

Specimen #	Intended Result			Your Result		
	HIV	HBsAg	HCV	HIV	HBsAg	HCV
S0122105	Negative	Positive	Negative	NEGATIVE	POSITIVE	NEGATIVE
S0122106	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0122107	Negative	Negative	Negative	NEGATIVE	NEGATIVE	NEGATIVE
S0122108	Positive	Negative	Negative	POSITIVE	NEGATIVE	NEGATIVE
Your Score				8/8 (100%)	8/8 (100%)	8/8 (100%)

Scoring System

Qualitative Results	Score
Concordant Result	2
Intermediate/Indeterminate	1
Discordant Result	0

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PT Unit, Department of Clinical Virology
CHRISTIAN MEDICAL COLLEGE, VELLORE



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Cumulative Report of this cycle:

Total Number of specimens you received	:	4
Number of Specimens reported as not examined	:	0
Specimen # not used for analysis	:	0
Number of Specimens Reported Late for analysis	:	0
Your cumulative score for the specimens you reported:		24 out of the possible total of 24
Total Number of participants for BBVS	:	536
Total Number of Participants who turned in their results	:	485

Standard Deviation Index (SDI)

Performance of the participating Laboratories	HIV Ag/Ab	HBsAg	HCV-Ab
Mean score of all Laboratories	8.0	7.9	8.0
Standard Deviation	0.3	0.5	0.1
Your Laboratory SDI	0	0.2	0

SDI of ± 3 and above indicates possible poor performance



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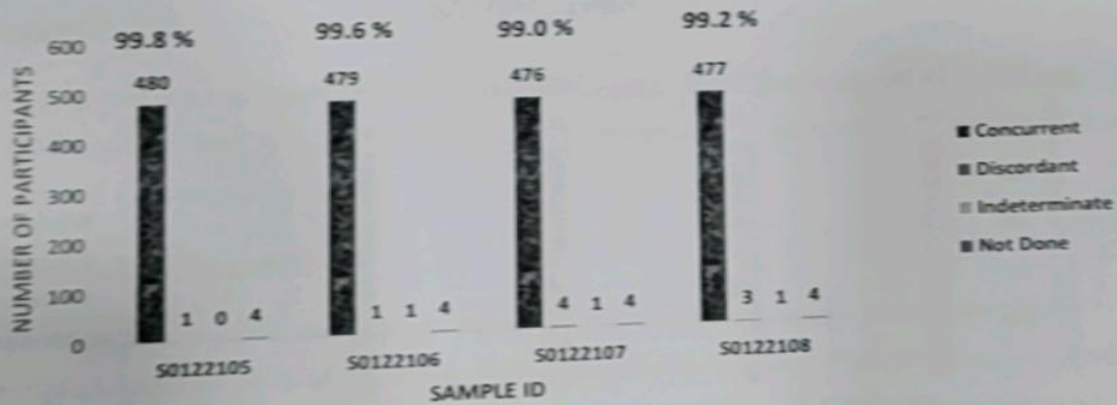
PC - 1034

Participants who reported all analyzed specimens accurately

Marker	Number of Participants with all four specimen's results	Percentage of Participants with concordant result from all four specimens
HIV	481	97.9
HBsAg	485	98.1
HCV-Ab	481	99.8

Performance Graph

BBVS - HIV Ag/Ab

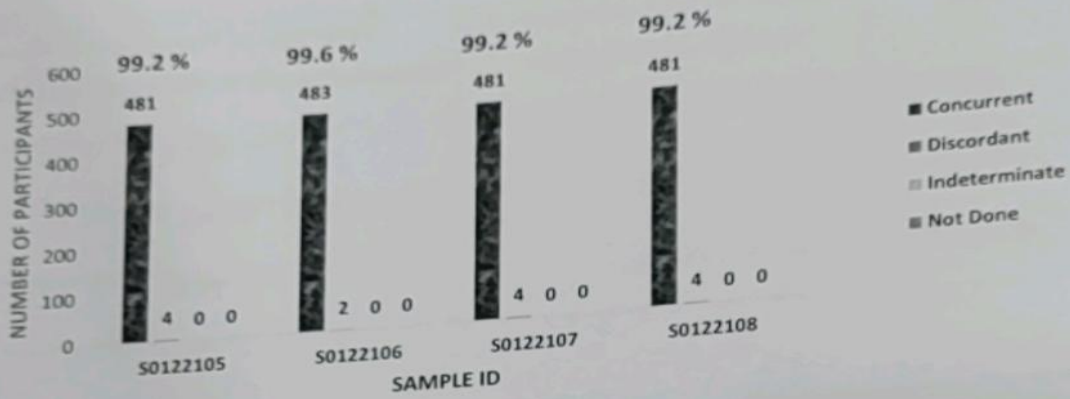




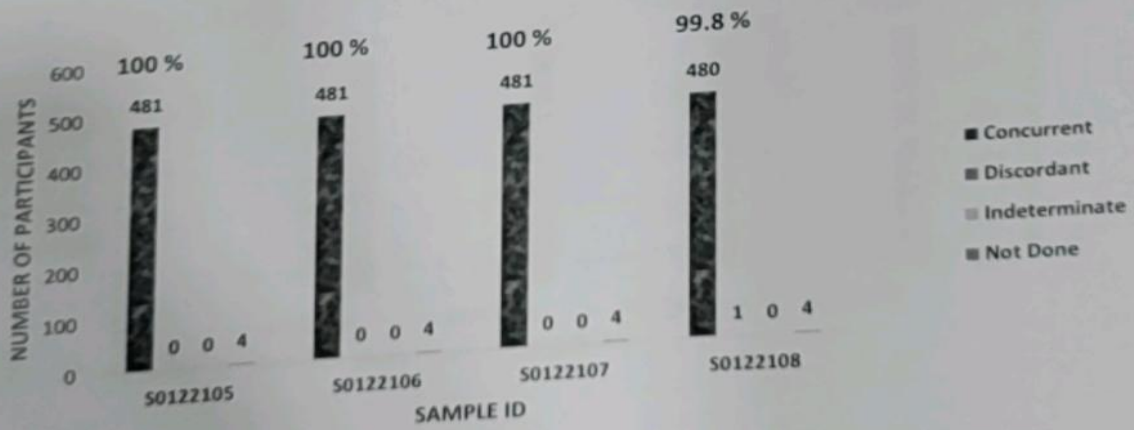
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BBVS - HBsAg



BBVS - HCV Ab





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	HIV Ag/Ab		HBsAg		HCV-Ab	
	n	Discordant	n	Discordant	n	Discordant
Chemiluminescence	210	4 (1.9%)	212	2 (0.9%)	211	0
ELFA	11	0	11	0	12	0
ELISA	80	2 (2.5%)	68	2 (2.9%)	78	1 (1.3%)
Rapid Assay	180	4 (2.2%)	194	5 (2.6%)	180	0
Not Done	4	-	0	-	4	-

Comments:

This PT program is a simultaneous and continuous scheme. Participants are scored based on qualitative result. If more than 30% of the laboratory report discrepant result that sample will not be considered for analysis.

Confidentiality of the results:

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Assigned Value:

Assigned value is determined using multiple assays/multiple testing of the same analyte. The proficiency testing material is a pooled lyophilized plasma sample prepared by following institutional proficiency testing standard operating protocol (PT-SOP) by trained staff. None of the work related to testing, preparation and packaging of sample is subcontracted. The homogeneity of the PT material is determined using multiple testing. The stability of the testing material is determined by assessing the reactivity of the specimen till the closing date. The homogeneity and stability of the materials were found satisfactory as per ISO13528:2015.

Standard Deviation Index (SDI):

Standard deviation index is used to analyze your laboratories performance relative to the other participating laboratories. The SDI is calculated for each parameter or marker separately using the formula

$SDI = (\text{Your score} - \text{interlaboratory mean score}) / \text{interlaboratory standard deviation of the score}$

Enquiries: For queries, please contact CMCVIROEQAS coordinator at the email viroeqas@cmcvellore.ac.in For all communications, please use your **CMCVIROEQAS LAB ID and Distribution Number.**

Name of CMCVIROEQAS Coordinator

Signature

Dr. Rajesh Kannangai

Department of Clinical Virology

Report Dispatch Date: 18-10-2021

Report authorized by: CMCVIROEQAS Coordinator

END OF REPORT

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PT Unit, Department of Clinical Virology
CHRISTIAN MEDICAL COLLEGE, VELLORE

JUNE 2021 / SEROLOGY

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

Parameter	Your Result	Your Value	Intended Result	Method	Robust Mean	Robust SD	Range	Z & T' score	Max Marks	Your Score
SE1	RA	Negative	Negative	Turbidimetry (n-271)	10.7787	4.3006	0.09 to 133	-1.5	2	2
SE2	CRP	Positive	Positive	Turbidimetry (n-406)	70.5501	12.1574	0.76 to 822	0.2	2	2

SE3	Parameter	Your Result	Intended result	correct	Incorrect	Max Marks	Your Score
SE3	RPR/VDRL	Non-Reactive	Non-Reactive	✓		2	2
	TPHA						
	Syphilis ELISA						
NOT DONE							

Disclaimer:

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

MEMBER ID: **M 0 3 7 9**

SM1	SM2	SM3	CU1	CU2	CU3	SE1	SE2	SE3	Marks obtained
4	4	3.5	19	14	17	2	2	2	67.5
4	4	4	19	17	17	2	2	2	Maximum marks = 71

Vibhakar

Dr. Rani Diana Sahni
Scientific Co-ordinator
Report Dispatch Date:30.10.2021

John

Dr. John A Jude Prakash
Quality Manager

V. Balaji

Dr. V. Balaji
PT Co-ordinator

..... End of Report

FEBRUARY 2021 / SEROLOGY

Test method employed for detection C-reactive protein (CRP) at your lab: Turbidimetry

Peer group (n) = 392

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

Parameter	Your Result	Your Value (mg/L)	Intended Result	Robust Mean	Robust SD	Range (mg/L)	Z & Z'	Max Marks	Your Score	
SE1	CRP	Negative	4.12	Negative	2.3108	1.1367	0.0 to 70.50	1.6	2	2
SE2	CRP	Negative	3.99	Negative	2.5183	1.0460	0.0 to 55.04	1.4	2	2
SE3	CRP	Positive	74.19	Positive	58.3223	11.0118	1.0 to 739.1	1.4	2	2

Disclaimer:

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

MEMBER ID:

M 0 3 7 9

SMI*	SM2	SM3	CU1	CU2	CU3	SE1	SE2	SE3	Marks obtained
4	NE	3	13	17	16.5	2	2	2	59.5
4	NE	4	13	17	17	2	2	2	97.5%
									Maximum marks = 61

NE- Not Evaluated

SMI*: Species level identification cannot be determined based on smear findings.



108th TAMM EQAS Bacteriology
 Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu
 Email: egas@cmcvcllore.ac.in Phone: 0416-2282588
 NAHL ACCREDITED ISO / IEC 17043:2010, PC-1033 / 27.12.2018



JUNE 2021

108th EQAS EVALUATION REPORT

MEMBER ID:

M 0 3 7 9

Marks Obtained: 67.5/71 (95.1%)

JUNE 2021 / 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 Number	Question	Expected Report	Evaluation			
			0	0.5	1	
SM1	Please carry out a Gram stain on the given fixed smear prepared from a CSF specimen obtained from a 3-year old child presenting at a rural hospital facility with high grade fever and altered sensorium. Mother has defaulted on child's vaccinations.	Presence of host cells & debris (1mark): Many pus cells Description of Organism/s (2marks): Many (0.5) pleomorphic (0.5) Gram negative bacilli (1) Probable organism (1 mark): <i>Hemophilus</i> spp	0	0.5	1	
			1.5	2	2.5	
			3	3.5	4	
SM2	Please carry out a Gram stain on the given fixed smear prepared from an endotracheal aspirate of a 43-year old man admitted in ICU for 5 days with SARS-CoV2.	Presence of host cells & debris (1mark): Moderate pus cells Description of Organism/s (2marks): Many (0.5) Gram negative (1) coeco-bacilli (0.5) Probable organism (1 mark): <i>Acinetobacter</i> spp	0	0.5	1	
			1.5	2	2.5	
			3	3.5	4	



106th IAMM EQAS Microbiology: Bacteriology/Serology
Department of Clinical Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu
Email: eqas@cmvellore.ac.in Phone: 0416-2282588



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

DECEMBER 2020

106th EQAS EVALUATION REPORT

MEMBER ID:

M 0 3 7 9

Marks Obtained: 66/67(98.5%)

DECEMBER 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 Number	Question	Expected Report	Evaluation		
SM1	Please carry out a Gram stain on the given fixed smear prepared from a CSF specimen of a 72-year-old gentleman presenting with high grade fever, headache and vomiting for one day.	Presence of host cells & debris (1 mark): Few pus cells Description of Organisms/ (2marks): Many (0.5) Gram positive (0.5) lanceolate shaped diplococci (1) Probable organism (1 mark): <i>Streptococcus pneumoniae</i>	0	0.5	1
			1.5	2	2.5
			3	3.5	4
SM2	Please carry out a Gram stain on the given fixed smear prepared from a THROAT specimen of a 6-year old child presenting with a sore throat and fever and malaise for 2 days.	Presence of host cells & debris (1mark): No pus cells Description of Organisms/ (2 marks): Many (0.5) Gram positive (0.5) slender club bacilli arranged Chinese letter pattern (1) along with few Gram positive bacilli in palisade arrangement. Possible organism (1 mark): <i>Corynebacterium spp</i>	0	0.5	1
			1.5	2	2.5
			3	3.5	4

CU3: Isolated as the predominant organism from an EXUDATE specimen of a left lower limb ulcer from a 63-year-old diabetic woman.
FINAL IDENTIFICATION: *Proteus mirabilis*

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 report	EXPECTED REPORT		PARTICIPANT REPORT		MARK	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Correct	Incorrect		
Co-trimoxazole	≥16	≤2/38	✓		-1 0 1 2	mE/ ME/ VME
Levofloxacin	≥21	≤0.5	✓		-1 0 1 2	mE/ ME/ VME
Piperacillin-Tazobactam	≥21	≤16	✓		-1 0 1 2	mE/ ME/ VME
Ertapenem	≥22	≤0.5	✓		-1 0 1 2	mE/ ME/ VME
Meropenem	≥23	≤1.0	✓		-1 0 1 2	mE/ ME/ VME

DECEMBER 2020 / SEROLOGY

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

Parameter	Your Result	Your Value	Intended Result			Method	Robust Mean	Robust SD	Range (mg/L)	Z & Z' score	Max Marks	Your Score
SE1 RA	Negative	2.8 IU/mL	Negative			Turbidimetry (n-245)	8.5538	4.1086	0.0 to 31.260	-1.4	2	2
SE2 WIDAL*	Correct	Correct	STO Negative	STH Negative	Interpretation Negative	Slide agglutination	Not Applicable				2	2
SE3 CRP	Positive	52.56 mg/L	Positive			Turbidimetry (n-330)	60.0593	10.4966	0.08 to 199.9	-0.7	2	2

RA: Rheumatoid Factor, CRP: C-reactive Protein. NA: Not Applicable. *Expected value is determined by the Proficiency Testing Provider (PTP).



Department of Clinical Microbiology, Bacteriology, Serology

IAMM EQAS Microbiology, Christian Medical College, Vellore-632004, Tamil Nadu

Email: egas@cmvcllore.ac.in Phone: 0416-2282588

MICROBIOLOGY EXTERNAL QUALITY ASSESSMENT SCHEME

Under the aegis of Indian Association of Medical Microbiologists

JUNE 2019

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

102nd EQAS EVALUATION REPORT

MEMBER ID:

M	0	3	7	9
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Marks Obtained: 74.5 / 77 (96.8%)

JUNE 2019 / 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 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 Number	Question	Expected Report	Evaluation			
			0	0.5	1	
SMI	Please carry out a Gram stain on the given fixed smear prepared from a BLOOD culture of a 45year old gentleman with a history of low grade intermittent fever for 3 weeks and worsening breathlessness.	Organism: Gram positive spherical cocci arranged in pairs, short chains and predominantly long chains. (2) Impression and probable organism: <u>Case of PUO- Probable case of infective endocarditis. Probably caused by Streptococcus spp - Viridans Streptococcus. (2)</u>	0	0.5	1	
			1.5	2	2.5	
			3	3.5	4	
I2	Please carry out a Gram stain on the given fixed smear prepared from a CSF specimen of a 2 year old child with a history of high grade fever, irritability and vomiting.	Presence of host cells & debris: Many pus cells (1) Organism: Many Gram negative coccobacilli, short slender bacilli and long slender bacilli. [Pleomorphism seen] (2) Possible organism: Probably Hemophilus species (1)	0	0.5	1	
			1.5	2	2.5	
			3	3.5	4	

Method employed for detection C - reactive protein at your lab: Turbidimetry
 group (n) = 339

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

Parameter	Your Result	Your Value (mg/L)	Intended Result	Robust Mean	Robust SD	Range (mg/L)	Z/Z' score	Max Marks	Your Score	
SE1	CRP	Negative	2.39	Negative	2.9013	1.2276	0.0 - 43.92	-0.4	2	2
SE2	CRP	Negative	3.73	Negative	2.3069	1.2641	0.0 - 50.65	1.1	2	2
SE3	CRP	Positive	103.5	Positive	62.1031	14.8079	0.76 - 145	2.8	2	1.5

Test method employed for detection Antistreptolysin O (ASO) your lab: Latex Agglutination

Peer group (n) = 396

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

Parameter	Your Result	Your Value (IU/mL)	Intended Result	Robust Mean	Robust SD	Range (IU/mL)	Z/Z' score	Max Marks	Your Score	
SE1	ASO	Negative	<200	Negative	NA	NA	NA	NA	2	2
SE2	ASO	Negative	<200	Negative	NA	NA	NA	NA	2	2
SE3	ASO	Negative	<200	Negative	NA	NA	NA	NA	2	2