



MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiologists

IAMM EQAS New Delhi

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Answer Sheet (Code No: DLH611 / AYURSUNDRA SUPERSPECIALITY HOSPITAL)

Batch Name	20th QC(March)	Batch Marks	80
Start By Date	30-Mar-2019	Submit By Date	08-May-2019

* Result submission status : Not Submitted

* Kindly refer to evaluation scheme as www.iammeqasdelhi.com before filling in the results.

* Results filled in this sheet will only be evaluated.

Q 1. Smear :

1.1 : BAL sample. A 65 year old male patient presents with a history of fever & persistent cough since 3 days. Chest X-ray shows left lower consolidation. A smear from BAL sample is provided. Perform Gram Stain & interpret as below. (Marks: 5)

Answer :

Cells :--Plenty of polymorphonuclear neutrophils/low power field

Organism :--Plenty of gram positive capsulated lanceolate cocci in pairs/oil immersion field

Interpretation :--Pneumococcal pneumonia caused by *Streptococcus pneumoniae*

1.2 : Sputum sample. A 4 year old child presents with history of fever and breathlessness since 5 days. A smear from sputum sample is provided. Perform Gram stain & interpret as below. (Marks: 5)

Answer :

Cells :-->25 Polymorphonuclear neutrophils ,<10 epithelial cells per low power field

Organism :--Plenty of pleomorphic gram negative coccobacilli per oil immersion field

Interpretation :--*Haemophilus influenzae* infection

1.3 : CSF sample. A newborn male presents with fever, lethargy & poor feeding since 1 day. A smear from CSF specimen is provided. Perform Gram stain & interpret as below. (Marks: 5)

Answer :

Cells :--Plenty of polymorphonuclear neutrophils per low power field

Organism :--Moderate number of gram positive cocci in short chains (both intracellular and extracellular forms)

Interpretation :--Meningitis due to *Streptococcus agalactiae* (GBS)

Q 2. 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. A= Automated/M= Manual; tick whichever applicable. Attempt only one: Either "A" or "M". Kindly do not report Both, even if done. Organism Isolated From Blood:

2.1 (Marks: 15)

	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)
Identification of given organism	<i>Enterobacter</i>	<i>cloacae</i>	
Method : A/M	Vitek -2		

Antibiotics	Ceftriaxone (Marks: 2)	Piperacillin/ Tazobactam (Marks: 2)	Imipenem (Marks: 2)	Gentamicin (Marks: 2)	Levofloxacin (Marks: 2)
Zone Size (mm) or MIC (ug/ml)	>=64	>=128	>=16	<=1	>=8
Interpretation (S/MS/R)	R	R	R	S	R
Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2

2.2 (Marks: 15)

	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)
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Identification of given organism	<i>Escherichia</i>	<i>coli</i>			
Method : A/M	Vitek -2				
Antibiotics	Ceftriaxone (Marks: 2)	Piperacillin/ Tazobactam (Marks: 2)	Amikacin (Marks: 2)	Co-trimoxazole (Marks: 2)	Nitrofurantoin (Marks: 2)
Zone Size (mm) or MIC (ug/ml)	<=1	<=4	<=2	>=320	<=16
Interpretation (S/MS/R)	S	S	S	R	S
Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2

2.3 (Marks: 15)

	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)		
Identification of given organism	<i>Staphylococcus</i>	<i>aureus</i>			
Method : A/M	Vitek -2				
Antibiotics	Cefoxitin (Marks: 2)	Erythromycin (Marks: 2)	Clindamycin (Marks: 2)	Co-trimoxazole (Marks: 2)	Vancomycin (Marks: 2)
Zone Size (mm) or MIC (ug/ml)	<=4	>=8	0.25	<=10	<=0.5
Interpretation (S/MS/R)	S	R	R	S	S
Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2

Q 3. : Serology:

3.1 : Please carry out following serological tests on the given samples. (Marks: 8)

	(3.1.1) RA factor (Marks: 4)	(3.1.2) Rubella IgG antibody (Marks: 4)
Result	Negative	Not Attempted
Method	Immunoturbidimetric assay	Not Attempted
Name of Kit	ROCHE	Not Attempted

3.2 : Perform the Blood Borne Viral (BBV) serology: HBsAg, HCV and HIV antibody on both the samples(Sample nos. 3.2.1 & 3.2.2)
(Marks: 12)

Sample		HIV Antibody (Marks: 4)	HBsAg (Marks: 4)	HCV Antibody (Marks: 4)
3.2.1	Result	Negative	Positive	Negative
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepa Card	HCV- TRI-DOT
3.2.2	Result	Negative	Negative	Negative
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	HCV- TRI-DOT

Note : This is center password protected answer sheet does not need signature of the participating laboratory.

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