



MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiology

IAMM EQAS New Delhi

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Answer Sheet (Code No: DLH67 / Dr.khanna's pathcare pvt Ltd C/O sanjeevan medical research centre 24,ANSARI ROAD,DARYAGANJ,NEW DELHI 110002.)

Batch Name	29th QC, March	Batch Marks	90
Start By Date	09-Apr-2022	Submit By Date	08-May-2022

- * Result submission status : Submitted (08-May-2022 09:14 AM)
- * 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 : A 44 year old male, renal allograft recipient on triple immunosuppression presented with fever & dry cough, 4-5 days duration. Smear prepared from bronchoalveolar lavage sample is provided to you. Perform Kinyoun stain & report on it. (Marks: 5)

Answer :

Findings :--Few epithelial cells, several pus cells, few thin beaded filamentous acid fast branching bacilli s/o Nocardia spp.

Interpretation :--Lower respiratory tract infection (Acute Pulmonary Nocardiosis) in a renal transparent patient

Center Comments	BAL culture (aerobic, fungal and mycobacterial) and antibiotic susceptibility testing to confirm microscopic finding
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1.2 : Smear prepared from a pus sample aspirated from a perianal abscess is provided. Perform Gram stain & report on it. (Marks: 5)

Answer :

Cells :--Many polymorphonuclear leucocytes (s/o neutrophils)

Organism :--Many Gram Positive Cocci (GPC) in pairs and chains s/o Enterococcus spp

Interpretation :--Skin and soft tissue infection due to Gram positive bacterial etiology

Center Comments	Pus culture and antibiotic susceptibility testing for confirmation of microscopic findings
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1.3 : Smear prepared from sputum sample of a patient presented with fever & cough for 2 days duration is provided. Perform Gram stain & report on it. (Marks: 5)

Answer :

Cells :-->25 Squamous Epithelial cells/low power field (LPF), 10-25 pus cells/LPF

Organism :--Moderate Gram Positive cocci(GPC) in pairs and chains; few Gram Negative bacilli (GNB), few budding yeast cells

Interpretation :--Salivary contamination of sputum s/o normal oral flora. This sample is not suitable for culture. Kindly repeat, sputum microscopy and culture with a well expectorated repeat sputum sample

Center Comments	Kindly send a repeat sample for microscopy and culture
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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. 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:

2.1 (Marks: 15)

	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)
Identification of given organism	<i>Klebsiella</i>	<i>pneumoniae</i>	
Method : A/M	Manual		

Antibiotics	Piperacillin/ Tazobactam (Marks: 2)	Ceftriaxone (Marks: 2)	Gentamicin (Marks: 2)	Ciprofloxacin (Marks: 2)	Co- trimoxazole (Marks: 2)
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Zone Size (mm) or MIC	22 mm	6 mm	18 mm	6 mm	20 mm
Interpretation (S/MS/R)	S	R	S	R	S
Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion

2.2 (Marks: 15)

Identification of given organism	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)		
	<i>Staphylococcus</i>	<i>aureus</i>			
Method : A/M	Manual				
Antibiotics	Benzyloxyethylpenicillin/ Ampicillin (Marks: 2)	Ciprofloxacin (Marks: 2)	Erythromycin (Marks: 2)	Clindamycin (Marks: 2)	Vancomycin (Marks: 2)
Zone Size (mm) or MIC (ug/ml)	6 mm	6 mm	6 mm	6 mm	1 micro gm/ml
Interpretation (S/MS/R)	R	R	R	R	S
Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	E- Test
Center Comments	Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) isolated				

2.3 (Marks: 13)

Identification of given organism	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)		
	<i>Burkholderia</i>	<i>cepacia</i>			
Method : A/M	Manual				
Antibiotics	Ceftazidime (Marks: 2)	Meropenem (Marks: 2)	Minocycline (Marks: 2)	Co-trimoxazole (Marks: 2)	
Zone Size (mm) or MIC (ug/ml)	24 mm	22 mm	21 mm	20 mm	
Interpretation (S/MS/R)	S	S	S	S	
Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	

Q 3.: Serology:

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

	(3.1.1) Typhidot (IgM) (Marks: 4)	(3.1.2) CRP (Marks: 4)
Result	Negative	Positive
Method	ICT	Latex Agglutination
Name of Kit	OTHER	Tulip

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 (Marks: 8)	HBsAg (Marks: 8)	HCV Antibody (Marks: 8)
3.2.1	Result	Non-Reactive	Non-Reactive	Reactive
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	HCV- TRI-DOT
3.2.2	Result	Non-Reactive	Reactive	Non-Reactive
	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	HCV- TRI-DOT
3.2.3	Result	Non-Reactive	Non-Reactive	Non-Reactive

3.2.4	Method	Card test	Card test	Card test
	Name of kit	HIV- TRI-DOT	Hepacard	HCV- TRI-DOT
	Result	Non-Reactive	Non-Reactive	Non-Reactive
	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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