



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: DLH688 / Midnapore Medical College)

Batch Name	27th QC, July	Batch Marks	78
Start By Date	15-Jul-2021	Submit By Date	22-Aug-2021

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* 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 45 year old male patient, renal allograft recipient 10 days ago, developed psoas abscess. Smear prepared from pus aspirated from psoas abscess is provided to you. Perform Gram stain & report as below. (Marks: 5)

Answer :

Cells :--plenty of polymorphonuclear cells

Organism :--budding yeast cells with pseudohyphae

Interpretation :--Suggestive of fungal(candida) psoas abscess

1.2 : A 48 year old female patient with perforation of sigmoid colon underwent laparotomy. The smear is prepared from the pus sample collected from peritoneal cavity intra operatively. Perform Gram stain & report as below. (Marks: 5)

Answer :

Cells :--plenty of polymorphonuclear cells

Organism :--Gram positive cocci in pairs, short chains and very few long chains

Interpretation :--Suggestive of Streptococcal infection

1.3 : A 31 year old male presented with high grade fever, head ache, double vision & slurring of speech of 5 days duration. Smear prepared from a positive blood culture bottle is provided. Perform Gram stain & report as below. (Marks: 5)

Answer :

Organism :--short, slender, Gram negative bacilli

Interpretation :--suggestive of septicaemia due to Gram-negative bacilli

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; tick whichever applicable. Attempt only one: Either "A" or "M". Kindly do not report both, even if done. Organism Isolated From Stitch abscess:

2.1 (Marks: 15)

	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)		
Identification of given organism	<i>Staphylococcus</i>	<i>lugdunensis</i>			
Method : A/M	Manual				
Antibiotics	Penicillin (Marks: 2)	Vancomycin (Marks: 2)	Tetracycline (Marks: 2)	Co-trimoxazole (Marks: 2)	Cefoxitin (Marks: 2)
Zone Size (mm) or MIC (ug/ml)	14mm	9	20mm	0mm	19mm
Interpretation (S/MS/R)	R	I	S	R	R
Method	Disc diffusion	E- Test	Disc diffusion	Disc diffusion	Disc diffusion

2.2 (Marks: 15)

	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)		
Identification of given organism	<i>Pseudomonas</i>	<i>aeruginosa</i>			
Method : A/M	Manual				
Antibiotics	Ceftazidime (Marks: 2)	Cefepime (Marks: 2)	Imipenem (Marks: 2)	Amikacin (Marks: 2)	Ciprofloxacin (Marks: 2)
Zone Size (mm) or MIC (ug/ml)	17mm	21mm	29	26mm	32
Interpretation (S/MS/R)	I	S	S	S	S
Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion

2.3 (Marks: 13)

	Genus (Marks: 3)	Species (Marks: 2)	Serotype (if applicable)		
Identification of given organism	<i>Shigella</i>	<i>dysenteriae</i>			
Method : A/M	Manual				
Antibiotics	Ampicillin (Marks: 2)	Ceftriaxone (Marks: 2)	Ciprofloxacin (Marks: 2)	Azithromycin (Marks: 2)	
Zone Size (mm) or MIC (ug/ml)	8mm	34mm	15mm	24mm	
Interpretation (S/MS/R)	R	S	R	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) RA factor (Marks: 4)	(3.1.2) Rubella IgG antibody (Marks: 4)
Result	Negative	Negative
Method	Immunoturbidimetric assay	ELISA
Name of Kit	OTHER	OTHER

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	Non-Reactive	Reactive	Non-Reactive
	Method	Card test	ICT	ICT
	Name of kit	OTHER	OTHER	OTHER
3.2.2	Result	Non-Reactive	Non-Reactive	Non-Reactive
	Method	Card test	ICT	ICT
	Name of kit	OTHER	OTHER	OTHER

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

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