TML\MSH Microbiology Department	Policy # MI\RESP\10\v02	Page 1 of 2
Policy & Procedure Manual		
Section: Respiratory Tract Culture Manual	Subject Title: Sinus/Antral Specimens	
Issued by: LABORATORY MANAGER	Original Date: September 25, 2	000
Approved by: Laboratory Director	Revision Date: April 6, 2005	
	-	

SINUS/ANTRAL SPECIMENS

I. Introduction

Acute sinusitis commonly involves upper respiratory tract organisms such *as S. pneumoniae*, *H. influenzae*, *M. catarrhalis*, *S. aureus*, *B. cepacia*, *P. aeruginosa*, Group A streptococcus and fungus. A moderate to heavy pure growth of other Gram negative bacilli should also be considered significant. Anaerobic culture is done on request only. Nasal and nasopharyngeal specimens are unacceptable for diagnosis of sinusitis since there is a poor correlation with sinusitis and are cultured for MRSA only.

II. Specimen Collection and Transport

See Pre-analytical Procedure - Specimen Collection QPCMI02001

III. Reagents / Materials / Media

See Analytical Process - Bacteriology Reagents Materials Media List QPCMI10001

IV. Procedure

A. Processing of Specimens:

See Specimen Processing Procedure QPCMI06003

- a) Direct examination:
 - i) Gram stain Examine for and quantitate the presence of pus cells and organisms.
 - ii) Fungifluor Forward to Mycology Section for staining and interpretation.

b) Culture:

Media	Incub	ation
Blood Agar (BA) Haemophilus Isolation Medium (HI)	-/	35°C x 48 hours 35°C x 48 hours
MacConkey Agar (MAC)	-/	35°C x 48 hours

PROCEDURE MANUAL TORONTO MEDICAL LABORATORIES / MOUNT SINAI HOSPITAL MICROBIOLOGY DEPARTMENT

TML\MSH Microbiology Department	Policy # MI\RESP\10\v02	Page 2 of 2
Policy & Procedure Manual		
Respiratory Tract Culture Manual		

Media	Incubation
Inhibitory Mold agar (IMA)*	O ₂ , 28°C x 4 weeks
Esculin Base Medium (EBM)*	O_2 , 28° C x 4 weeks
If anaerobic culture requested, add:	
Kanamycin Vancomycin Agar (KV)	AnO_2 , $35^{\circ}C$ x 48 hours
Fastidious Anaerobic Agar (BRUC)	AnO_2 , 35°C x 48 hours
Fastidious Anaerobic Broth (THIO)	O ₂ , 35°C x 48 hours

^{*}Forward inoculated fungal media to Mycology section for incubation and work-up.

B. Interpretation of cultures:

Examine the BA, HI and MAC plates after 24 and 48 hours incubation and the KV, BRUC and THIO after 48 hours incubation.

C. Susceptibility testing:

Refer to Susceptibility Testing Manual.

VII. Reporting

Gram stain: Report with quantitation the presence of pus cells and organisms.

Culture:

Negative report: "Commensal flora" or "No growth".

"No anaerobes isolated" if anaerobic culture is

requested.

Positive report: Quantitate and report significant isolates with

appropriate sensitivities. Report "Commensal flora"

if also present.

Telephone all positive Group A streptococcus isolates to ward/ordering physician.

VI. References

P.R. Murray, E.J. Baron, M.A. Pfaller, R.H. Yolken. 2003. Manual of Clinical Microbiology, 8th ed. ASM Press, Washington, D.C.

H.D. Izenberg. 2003. Nasal Sinus Cultures, 3.11.9.1 in Clinical Microbiology Procedures

PROCEDURE MANUAL

TORONTO MEDICAL LABORATORIES / MOUNT SINAI HOSPITAL MICROBIOLOGY DEPARTMENT

 , 2 nd ed. Vol.	11011110	, · · · · · · · · · · · · · · · · · ·	-5.0, 15.0	•	