

# Microbiology Dx

LABORATORY  
REPORT

19A CROSBY DRIVE SUITE 215  
BEDFORD, MA 01730  
Tel: (781)276-4956 \* Fax: (781)275-6236

Dr. J.D. MUSTO, DABB  
PRESIDENT & LAB DIRECTOR  
CLIA ID# 22D2089996

PATIENT: DOE, JANE  
111 MAIN STREET  
ANYWHERE, USA  
D.O.B. /SEX: 01/01/1953 68Y F  
DATE COLLECTED: 10/01/2021  
TIME COLLECTED:  
DATE RECEIVED: 10/04/2021  
LAB NUMBER: 87654321

CLIENT: MICROBIOLOGY DX  
19A CROSBY DRIVE, SUITE 215  
BEDFORD, MA 01730  
100000  
DOCTOR: J MUSTO  
DATE REPORTED: 10/06/2021  
DATE PRINTED: 10/06/2021  
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PAGE: 1  
\*\* FINAL REPORT \*\*

## RESULTS

### NARES CULTURE

SOURCE NARES  
ORGANISM #1 STAPH COAG NEGATIVE-LARGE AMOUNT

#### MARCONS POSITIVE

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MARCoNS is a multiple antibiotic resistant coag neg staph that reside in the deep nasal passages, is common in biotoxin illness, is a marker of low MSH and produce biofilms which form a barrier to immune defenses and anti-infection therapy. Biofilm production in bacteria, mold or yeast may account for some cases of chronic nasal and sinus congestion and inflammation. MARCoNS releases exotoxins which lead to increased inflammation (decreased MSH) and hemolysins which disrupt RBCs and endothelial cells. It may be colonized or cause infection. If test results indicate coag neg staph is present with two or more antibiotics from different classes showing Resistant or Intermediate, these results are classified as MARCoNS whether there is a large amount or small amount.

(Ref: Dr. Ritchie Shoemaker, 05/09/14)

SUSCEPTIBILITY #1	ANTIBIOTIC NAME	INTERPRETATION
	=====	=====
	CIPROFLOXACIN	S
	CLINDAMYCIN	R
	ERYTHROMYCIN	R
	GENTAMICIN	I
	LEVOFLOXACIN	S
	LINEZOLID(ZYVOX)	S
	MOXIFLOXACIN	S
	OXACILLIN(METHICILLIN)	R
	PENICILLIN-G	R
	QUINUP/DALFO(SYNERCID)	S
	RIFAMPICIN	S
	TETRACYCLINE(DOXYCYCLINE)	R
	TIGECYCLINE	S
	TRIMETH/SULFA(BACTRIM)	S
	VANCOMYCIN	S

S=Sensitive I=Intermediate R=Resistant

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PAGE: 2  
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## RESULTS

ORGANISM #2 E.COLI-LARGE AMOUNT

### GRAM NEGATIVE ENTERIC RODS

SUSCEPTIBILITY #2	ANTIBIOTIC NAME	INTERPRETATION
	=====	=====
	AMPICILLIN	R
	AMPICILLIN/SULBACTAM	S
	PIPERACILLIN/TAZOBACTAM	S
	CEFAZOLIN	R
	CEFTAZIDIME	S
	CEFTRIAXONE	S
	CEFEPIME	S
	IMIPENEM	S
	GENTAMICIN	S
	TOBRAMYCIN	S
	CIPROFLOXACIN	S
	LEVOFLOXACIN	S
	TRIMETH/SULFA (BACTRIM)	S

S=Sensitive I=Intermediate R=Resistant

ORGANISM #3 BACILLUS SPS - MODERATE AMOUNT

OPPORTUNISTIC INFECTIONS IN IMMUNOCOMPROMIZED PATIENTS.  
VIRULANCE FACTOR UNKNOWN-NO DEFINITIVE GUIDELINES FOR  
SUSCEPTIBILITY TESTING. VANCOMYCIN, CIPROFLOXACIN, IMIPENEM  
AND AMINOGLYCOSIDES MAY BE EFFECTIVE.

## FUNGAL

SOURCE NARES

ORGANISM #1 PENICILLIUM SPS- LARGE AMOUNT

MOST PENICILLIUM SPECIES ARE ENCOUNTERED IN IMMUNE-  
COMPROMISED HOSTS. THIS MOLD PRODUCES MYCOTOXINS AND  
IS AN OCCASIONAL CAUSE OF INFECTIONS IN HUMANS. MODE  
OF TRANSMISSION IS USUALLY VIA AIRBORNE ROUTE. THIS MOLD  
IS THE 2ND MOST COMMON FUNGI ISOLATED AT MICROBIOLOGY DX.

ORGANISM #2 CANDIDA ALBICANS-LARGE AMOUNT

THIS YEAST LIKE FUNGI IS THE MOST COMMON CAUSE OF  
CANDIDIASIS. CANDIDIASIS IS AN ACUTE, SUBACUTE OR

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PAGE: 3  
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## RESULTS

CHRONIC INFECTION INVOLVING ANY PART OF THE BODY. THIS YEAST MAY ALSO BE FOUND AS NORMAL FLORA OF THE SKIN, MOUTH, VAGINAL MEMBRANES AND STOOL. IT IS KNOWN TO PRODUCE MYCOTOXINS.

-  
Fungal cultures are held for 1 month.  
If any yeast or mold is isolated within the first 2 weeks it will be reported. The culture will be held for an additional 2 weeks for any other growth of yeast or mold.

**BIOFILM ANALYSIS**  
ORGANISM-MARCONS

**STRONG 3 +**

STRONG, MODERATE, OR WEAK IS THE LEVEL OF BIOFILM PRODUCTION BY THE ORGANISM.

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A bacterial biofilm is defined as a structural community of bacterial cells enclosed in a self-produced polymeric matrix adherent to an inert or living surface. Biofilm producing organisms are far more resistant to antimicrobial agents than organisms which do not produce biofilm. (Indian J. Crit. Care Med. 2013 Jul-Aug;17(4): (214-218)  
MARCoNS biofilm testing is a continuation of work started by Dr. R. Shoemaker in 2011.

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