



Wound-ID Case Review

Patient History:

- o 68yr old
- Male
- Chronic wound

• Disease State:

- Wound has progressed over months
- Prior Failed treatment

Why This Test was Ordered:

- Patient was geriatric
- Provider ran out of options
- Viable candidate for Wound-ID

Outcome:

- Staphylococcus aureus, enterotoxins A/B 10^6
- o Proteus mirabilis 10^6
- Morganella morganii 10^5
- Enterococcus faecalis, faecium 10⁴
- ARG: Beta-lactams, Macrolides, Methicillin, Tetracycline, Ampicillin, Aminoglycosides, Bactrim
- They were able to treat the patient's wound by utilizing the PharmD guidance given, and the patient's wound finally healed
- Provider said Vikor's Wound-ID panel is the best she has ever used, and has been treating wound's for over 20 years.

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SAMPLE REPORT





Molecular Pathogen Report

22 WestEdge Street 8th Floor Charleston, SC 29403 Ph# (854) 429-1069* Fx# (833) 247-4091 www.vikorscientific.com





Patient Name

ate of Birth

XX-XX-1952

M

Nace

UNDISCLOSED

Facility Information Specime

Ordering Provider: AC

Facility:

Facility Phone:

Facility Fax:

Specimen Information

ACC:

Collection Date: 02-26-2021 Report Date: 03-03-2021 Received Date: 03-01-2021 Sample Type: Wound Swab

Notes:

PATHOGENS DETECTED				
Staphylococcus aureus, enterotoxins A/B	1 x 10^6	47.366%		
Proteus mirabilis	Cells/mL 1 x 10^6			
Floteus Illiabilis	Cells/ml	47.366%		
Morganella morganii	1 x 10^5 Cells/mL	4.737%		
Enterococcus faecalis, faecium	1 x 10^4 Cells/mL	0.474%		
Corynebacterium jeikeium, striatum	1 x 10^3 Cells/mL	0.047%		
Peptoniphilus harei, ivorii	1 x 10^2 Cells/mL	0.005%		
Peptostreptococcus prevotii, anaerobius, asaccharolyticus,	1 x 10^2			
magnus	Cells/mL	0.005%		

RESISTANCE GENES DETECTED & POTENTIAL MED CLASS AFFECTED

VEB, blaNDM-1, OXA-1, GES	Beta-lactams	
ermB	Macrolides	
mecA	Methicillin	
tetM	Tetracycline	
ampC, ACC, DHA, ACT/MIR	Ampicillin	
aac6-1b/aacA4, ant(3), aph(A6), aac6-1b-cr	Aminoglycosides	
SULL, DFRA	Bactrim	

ABXAssist™

Pharmacy Guidance

Electronically approved on 03-03-2021 by: Robin Ritter • Email: pharmconsult@vikorscientific.com • Phone: 1.888.964.2141

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Patient Name

Drug Allergies:

Notes from Pharmacist:

Notes from Ordering Physician:

Antibiotic therapy is recommended per IDSA guidelines beginning at moderate loads in adults.

The bacteria identified in this patient carries a gene that confers resistance to methicillin. Due to the potential seriousness of methicillin resistance, this infection should be treated aggressively. and with close and vigilant monitoring of treatment effectiveness. MRSA can be treated with SMZ-TMP, clindamycin, and doxycycline orally and vancomycin, linezolid, and daptomycin intravenously. Clindamycin dosed at 300mg q8h is considered best to reduce possibility of C difficile. Corynebacterium is part of the normal human skin flora and is

generally recognized as a contaminant in wound samples. Peptoniphilus/Peptostreptococcus at lower loads is normal flora of the skin.

recommended to overcome potential resistance detected)

Considerations: (Proteus, Morganella, Enterococcus) Adjust dose with renal impairment, avoid use with penicillin allergy, take with food

FIRST LINE

MEDICATION

Medication	Route	Dose
sulfamethoxazole / trimethoprim	oral	1-2 DS tabs bid x5-14 days
		Considerations: (MRSA) most CA-MRSA are susceptible, resistance to sulfa is not tested for Staph; avoid use with sulfa allergy, CrCl 15-30 reduce dose 50%, CrCl<15 avoid use, avoid use in asthma patients and pregnancy, avoid use with warfarin.
AND		
levofloxacin	oral	500-750mg PO/IV qd x7-14 days
		Considerations: (Proteus, Morganella, Enterococcus) Black box warning for tendinitis and tendon rupture, peripheral neuropathy, and CNS effects such as anxiety, confusion, depression, hallucinations, may cause blood glucose disturbances, especially in elderly and renal impaired, adjust dose with renal impairment.
OR		
amoxidillin / davulanate	oral	875/125mg bid x7-14 days PLUS ceftriaxone 1g IM/IV q24h (combo

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#42D2150400

Patient Name

Date of Birth XX-XX-1952

G M

Gender

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ALTERNATIVE

linezolid

oral

600mg PO/IV q12h x10 days (PLUS levofloxacin or Augmentin; see above)

Considerations: (MRSA, Enterococcus) For severe infections only, Use caution with patients taking SSRI; monitor for serotonin syndrome, Limit tyramine food content <100mg/meal, Will likely require PA, Lowers seizure threshold, Monitor blood pressure if uncontrolled HTN, No dose adjustment for renal or hepatic failure Use Tedizolid for lower risk of serotonin drug interactions

OR

vancomycin

intravenous

15-20mg/kg IV q8-48h depending on renal function and vancomycin trough levels (PLUS Augmentin or levofloxacin; see above)

Considerations: Dosing dependent on renal function, goal trough 15-20mcg/ml, Caution in elderly, hearing impaired, renal impairment, No oral absorption

Methodology

Limitations

Disclaimer

The infectious disease and antibiotic resistance detection panels are tested utilizing Real-time PCR technology to detect the presence of genes associated with pathogens and antibiotic resistance via amplification of genomic DNA. Amplification and detection are performed using the Applied Biosystems™ QuantStudio™ 12K Flex Real-time PCR system, which includes the QuantStudio™ 12k Software v1.3 and Thermo Fisher Scientific TaqMan™ assays. The assays are preloaded onto TaqMan™ OpenArray plates.

This test only detects microorganisms and antibiotic resistance (ABR) genes specified in the panel. ABR genes are detected in the specimen and are not specific to a detected pathogen. ABR genes may be detected in bacterial strains not tested for in the panel.

The resistance genes for Ampicillin, selected Extended-Spectrum-Betalactamases, Vancomycin, Carbapenems, Sulfonamide, Trimethoprim, Aminoglycosides and the Quinolone gyrase groupings are assays customized by pooling the individual genes listed in the associated group. If listed as positive, this indicates that at least one of the genes in the group was detected and the class of medication could have potential resistance.

This test was developed and its performance characteristics determined by Vikor Scientific™. It has not been cleared or approved by the FDA. The laboratory is regulated under CLIA as qualified to perform high complexity testing. This test is used for clinical purposes. It should not be regarded as investigational or for research.

The treatment guidance listed in the report is based on infectious disease treatment references, the organisms detected, and genes known to contribute to medication resistance. Important clinical information such as comorbidities, renal function, patient weight, platelet count, microbiology results, etc. may influence the overall appropriateness of therapy. The provided guidance only takes drug allergies into account when they are provided and available to the pharmacist making the recommendation. The overall appropriateness of therapy must be determined by the physician treating the patient. The provider has all the patient information necessary to make that determination and should take the entire clinical presentation into account when making treatment decisions. Should the treating physician wish to discuss the provided guidance, the pharmacist is available for consult at the email and phone number provided.

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Enteroinvasive E. coli Enteropathogenic E. coli Enterotoxigenic E. coli Escherichia coli

Haemophilus influenzae

Mycobacterium kansasii Mycobacterium marinum Mycobacterium tuberculosis Mycobacterium ulcerans Mycoplasma genitalium, hominis

Pasteurella multocida Prevotella spp.

Pseudomonas aeruginosa Salmonella enterica Serratia marcescens

Stenotrophomonas maltophilia Streptococcus agalactiae Streptococcus pneumoniae Streptococcus pyogenes Trichophyton rubrum

Trichophyton soudanense, violaceum Trichophyton tonsurans, interdigitale Vibrio cholerae, parahaemolyticus, vulnificus

Staphylococcus haemolyticus, lugdunensis

Klebsiella oxytoca, pneumoniae Listeria monocytogenes Mycobacterium abscessus Mycobacterium fortuitum, chelonae

HPV 16 HPV 18

Fusobacterium nucleatum, necrophorum

Herpes zoster virus (Varicella zoster virus)

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XX-XX-1952





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NEGATIVE PATHOGENS
Acinetobacter baumannii
Anaerococcus vaginalis
Bacteroides fragilis
Bartonella henselae
Campylobacter coli, jejuni
Candida albicans, glabrata, tropicalis, parapsilosis
Candida auris
Citrobacter freundii
Clostridium botulinum
Clostridium difficile Toxin A/B
Clostridium perfringens
Enterobacter spp.
Enterohemorrhagic E. coli (0157)

NEGATIVE RESISTANCE GENES	ANTIBIOTIC CLASS
CTX-M, TEM, TEM E102K, TEM R162S, TEM G238S, PER-1, PER-2, BIaSHV	Beta-lactams
OXA-23, OXA-40, OXA-58, OXA-72, IMP-16, NDM, blaOXA-48, OXA-48, KPC, VIM, IMP-7	Carbapenems
ermC, ermA	Macrolides
mcr-1	Polymyxins
QnrB, Gyrase A D87N_GTT, Gyrase A S83L_TGG, QnrA	Quinolones
VanB, VanA1, VanA2	Vancomycin

Yersinia enterocolitica