

## **VIKOR**SCIENTIFIC

# KORPATH

## **Wound-ID Case Review**

#### • Patient History:

- Patient diagnosed with autoimmune disease
- Chief complaint: two wounds not healing, two failed treatments and getting worse
- Patient was currently taking *Tetracycline* for infection with no avail
- Patient was two days away from admittance to hospital wound clinic

#### • Disease State:

- Due to infection getting worse daily and symptoms persisting slight pain, smell of wound and discoloring
- With autoimmune disease, flare ups may drastically reduce the healing of wounds, paired with detecting ARG's may pose problematic in this case review

#### • Why This Test was Ordered:

- Physician agreed this patient is a viable candidate for Wound-ID, considered current treatment didn't seem to be effective and progression of wound
- Physician uses **C/S**, his way of giving back to local private hospital in small town, he partakes in a form of philanthropy and wants to be known for "giving back"

#### • Outcome:

- Wound-ID report detected three pathogens: A.) Enterococcus faecalis, faecium 10<sup>6</sup> (Bacteria)
  B.) Staphylococcus haemolyticus, lugdunensis 10<sup>3</sup> (Bacteria) C.) Enterobacter spp. 1 x 10<sup>2</sup> (Bacteria)
- Antibiotic Resistant Genes detected: A.) *Macrolides B.*) *Tetracycline*
- As noted, prior, *Tetracycline* was used for treatment and failed, now we know why
- Therapy recommendations listed in First Line and Second Line target detected bacterial organisms, Notes from Provider also helped guide treatment (see report pg.2)
- Patient outcome post Vikor recommended treatment: 24 hours after PharmD recommended treatment the smell of the infection was gone, day 2 a noticeable difference in the wound, day 3 drastic difference. Patient was never checked into the hospital's wound clinic.
- By doing a follow up with provider on the efficacy of our Wound-ID reporting and basing it off the patient outcome, the provider said this: "More than I want to be known for being a philanthropist, I want to be known as a good thorough doctor. There are things that I am missing by not using you more and that changes today."

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	A	Medication	Route	Dose
FIRST LINE		levofloxacin	oral	500-750mg (PO/IV) QD x 7-14 days
				Considerations: BBW: Fluoroquinolones have been associated with serious and possible irreversible reactions; tendonitis/tendon rupture, peripheral neuropathy, CNS effects. These may occur all together or months after tx. Increased risk in patients over 60 and pt on corticosteroids. Avoid in Myasthenia Gravis. Adjust dose for CrCl <50ml/min.
SECOND LINE		moxifloxacin	oral	400mg (PO/IV) QD x 7-14 days
				Considerations: E. faecalis, E. faecium: No renal dose adjustments required; otherwise, same BBW as Levaquin.

**MEDICATION** 



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.



## VIKORSCIENTIFIC

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### Wound-ID<sup>™</sup>

Molecular Pathogen Report



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
Corynebacterium jeikeium, striatum
Enterohemorrhagic E. coli (0157)
Enteroinvasive E. coli
Enteropathogenic E. coli
Enterotoxigenic E. coli
Escherichia coli
Fusobacterium nucleatum, necrophorum
HPV 16
HPV 18
Haemophilus influenzae
Herpes zoster virus (Varicella zoster virus)
Klebsiella oxytoca, pneumoniae
Listeria monocytogenes
Morganella morganii
Mycobacterium abscessus
Mycobacterium fortuitum, chelonae
Mycobacterium kansasii
Mycobacterium marinum
Mycobacterium tuberculosis
Mycobacterium ulcerans
Mycoplasma genitalium, hominis
Pasteurella multocida
Peptoniphilus harei, ivorii
Peptostreptococcus prevotii, anaerobius, asaccharolyticus, magnus
Prevotella spp.
Proteus mirabilis
Pseudomonas aeruginosa
Salmonella enterica
Serratia marcescens
Staphylococcus aureus, enterotoxins A/B
Stenotrophomonas maltophilia
Streptococcus agalactiae
Streptococcus pneumoniae
Streptococcus pyogenes
Trichophyton rubrum
Trichophyton soudanense, violaceum
Trichophyton tonsurans, interdigitale
Vibrio cholerae, parahaemolyticus, vulnificus
Yersinia enterocolitica

NEGATIVE RESISTANCE GENES	ANTIBIOTIC CLASS
aac6-1b/aacA4, ant(3), aph(A6), aac6-1b-cr	Aminoglycosides
ampC, ACC, DHA, ACT/MIR	AmpC beta lactamase
SULL, DFRA	Bactrim
PER-1, PER-2, VEB, blaNDM-1, OXA-1, GES, BlaSHV	Beta-lactams
OXA-23, OXA-40, OXA-58, OXA-72, IMP-16, NDM, blaOXA-48, OXA-48, KPC, VIM, IMP-7	Carbapenems
TEM, TEM E102K, TEM R162S, TEM G238S	Class A Beta-lactams
CTX-M	ClassA Beta-lactamases
ermA	Macrolides
*mecA	Methicillin
mcr-1	Polymyxins
QnrB, Gyrase A D87N_GTT, Gyrase A S83L_TGG, QnrA	Quinolones
VanB, VanA1, VanA2	Vancomycin