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|-------------------|--|------------------|--------|------------------|--|
| PATIENT | | SPECIMEN | URINE | PHYSICIAN | |
| DOB | | RECEIVED | | PHONE | |
| PATIENT ID | | COMPLETED | | FAX | |
| GENDER | | ACCESSION | 316681 | COLLECTED | |

RESISTANCE GENES DETECTED

Methicillin, Beta-lactam, Quinolone, Bactrim

LEVEL 2 NGS REPORT

COMPREHENSIVE IDENTIFICATION
 NEXT-GEN DNA SEQUENCING
 RESULTS with PRIOR PCR RESULTS.

ANTIMICROBIALS FOR CONSIDERATION

| COMPLETE (NGS & PCR RESULTS) | DNA copies per mL | NGS % | Gram Stain | Respiration | Carbapenems e.g. Merrem | Aminoglycosides e.g. Amikacin | Fosfomycin | Nitrofurantoin e.g. Macrobid | Clindamycin | Metronidazole (Flagyl) | Tetracyclines e.g. Doxycycline | Aztreonam | Colistin | Glycopeptides e.g. Vancomycin | Linezolid (Zyvox) | Lipopeptides e.g. Cubicin | Aminoglycosides+Aminopenicillins e.g. Ampicillin/Gentamicin | Ampicillin/Amoxicillin | Antifolates e.g. Bactrim | |
|------------------------------|-------------------|------------------------|------------|----------------------------------|-------------------------|-------------------------------|------------|------------------------------|-------------|------------------------|--------------------------------|-----------|----------|-------------------------------|-------------------|---------------------------|---|------------------------|--------------------------|---|
| | | | | | | | | | | | | | | | | | | | | |
| BACTERIAL LOAD | High | > 10 ⁷ | | | | IV | | PO | PO | PO | PO | | | IV | PO | IV | IV | R | R | R |
| Escherichia coli | | 57% | - | FAn | √ | √ | √ | √ | | | | | | | | | | | | |
| Bacteroides fragilis | | 28% | - | An | √ | | | | √ | √ | √ | | | | | | | | | |
| Enterobacter ludwigii | | 8% | - | FAn | √ | √ | | | | | | √ | √ | | | | | | | |
| Pseudomonas aeruginosa | | 1.17 x 10 ⁶ | - | Ae | | √ | √ | | | | | | | | | | | | | |
| Enterococcus faecalis | | 3.42 x 10 ³ | + | FAn | | | √ | √ | | | | | | √ | √ | √ | | | | |
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| FUNGI DETECTED | | | % | ANTIFUNGAL RECOMMENDATION | | | | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | | | | | | | | |
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LAB REPORT KEY

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| DNA copies per g: [NGS] = Detected by Next-Gen Seq. Only Bacterial Load: < 10 ⁵ = LOW 10 ⁵ to 10 ⁷ = MED > 10 ⁷ = HIGH | Gram Stain: [+] = Positive [-] = Negative [V] = Variable [N] = Not Applicable [U] = Unknown | Respiration: [Ae] = Aerobic [An] = Anaerobic [Fan] = Facultative anaerobic [Unk] = Unknown | Antimicrobial: [V] = Proven to be effective. [R] = Resistance genes detected. [] = Empty Fields denote Unknown. [PO] = Available in Oral formulations. [IV] = Intravenous; [TP] = Topical. |
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