

Lima Memorial Health System Empiric BioFire Recommendations (per the 2021 antibiogram)

| PCR Target “Detected” | Interpretation | Recommendation |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gram Positive Bacteria | | |
| Enterococcus VAN A/B NOT detected | Will detect <i>E. faecium</i> , <i>E. faecalis</i> , <i>E. avium</i> , <i>E. casseliflavus</i> , <i>E. durans</i> , <i>E. gallinarum</i> , <i>E. hirae</i> | Vancomycin (100% susceptible) If reveals that organism is <i>E. faecalis</i> : switch to ampicillin (100% susceptible for <i>E. faecalis</i>) |
| Enterococcus VAN A/B detected | Vancomycin-resistant <i>Enterococcus</i> spp. (VRE) | Daptomycin (needs ID consult) or Linezolid (100% susceptible) |
| <i>Listeria monocytogenes</i> | <i>Listeria monocytogenes</i> | Ampicillin |
| Staphylococcus | | |
| NOT <i>S. aureus</i> , <i>mecA</i> NOT detected | Methicillin-Sensitive Coagulase-negative <i>Staphylococcus</i> | Consider holding therapy unless severely ill or positive cultures in 2 of 2 sets. Recommended to repeat blood cultures. If treating: Cefazolin |
| NOT <i>S. aureus</i> , <i>mecA</i> detected | Methicillin-Resistant Coagulase-negative <i>Staphylococcus</i> | Consider holding therapy unless severely ill or positive cultures in 2 of 2 sets. Recommended to repeat blood cultures. If treating: Vancomycin |
| <i>S. aureus</i> DETECTED, <i>mecA</i> NOT detected | Methicillin-Sensitive <i>S. aureus</i> (MSSA) | Cefazolin |
| <i>S. aureus</i> DETECTED, <i>mecA</i> detected | Methicillin-Resistant <i>S. aureus</i> (MRSA) | Vancomycin |
| Streptococcus | | |
| <i>Streptococcus</i> spp. | <i>Streptococcus</i> spp. (not otherwise specified) | Ceftriaxone |
| <i>Streptococcus agalactiae</i> | <i>Streptococcus agalactiae</i> | |
| <i>Streptococcus pyogenes</i> | <i>Streptococcus pyogenes</i> | |
| <i>Streptococcus pneumoniae</i> | <i>Streptococcus pneumoniae</i> | |
| Gram Negative Bacteria | | |
| <i>Acinetobacter baumannii</i> | <i>Acinetobacter baumannii</i> | Unasyn or Meropenem |
| Enterobacteriaceae* AND KPC NOT DETECTED | | |
| Enterobacteriaceae spp. | Enterobacteriaceae spp. (not otherwise specified) | Cefepime |
| <i>Enterobacter cloacae</i> complex | <i>Enterobacter cloacae</i> | Cefepime |
| <i>Escherichia coli</i> | <i>Escherichia coli</i> | Ceftriaxone |

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|---------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <i>Klebsiella oxytoca</i> | <i>Klebsiella oxytoca</i> | Ceftriaxone |
| <i>Klebsiella pneumoniae</i> | <i>Klebsiella pneumoniae</i> | Ceftriaxone |
| <i>Proteus</i> spp. | Will detect <i>P. mirabilis</i> , <i>P. hauseri</i> , <i>P. penneri</i> , and <i>P. vulgaris</i> | Ceftriaxone |
| <i>Serratia marcescens</i> | <i>Serratia marcescens</i> | Ceftriaxone |
| Enterobacteriaceae* <u>AND</u> KPC DETECTED | | |
| Enterobacteriaceae, KPC detected | Carbapenem-resistant Enterobacteriaceae | Ceftazidime-avibactam (Avycaz) <u>AND</u> ID consult |
| <i>Haemophilus influenzae</i> | <i>Haemophilus influenzae</i> | Ceftriaxone |
| <i>Neisseria meningitidis</i> | <i>Neisseria meningitidis</i> | Ceftriaxone |
| <i>Pseudomonas aeruginosa</i> | <i>Pseudomonas aeruginosa</i> | Piperacillin-tazobactam |
| Yeast | | |
| <i>Candida albicans</i> | <i>Candida albicans</i> | Fluconazole |
| <i>Candida glabrata</i> | <i>Candida glabrata</i> | Micafungin |
| <i>Candida krusei</i> | <i>Candida krusei</i> | Micafungin |
| <i>Candida parapsilosis</i> | <i>Candida parapsilosis</i> | Fluconazole |
| <i>Candida tropicalis</i> | <i>Candida tropicalis</i> | Fluconazole |

*Biofire does not detect ESBL+ organisms

- If patient has beta-lactam allergy, please consult antibiogram for additional recommendations or contact the Antimicrobial Stewardship Pharmacist at 419-998-4718.
- **Resistant genes are highlighted in RED**