

Lima Memorial Health System Empiric BioFire Recommendations (per the 2022 antibiogram)

| PCR Target "Detected" | Interpretation | Recommendation |
|----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Gram Positive Bacteria | | |
| <i>Enterococcus faecalis</i> , VAN A/B NOT detected | <i>Enterococcus faecalis</i> | Ampicillin (100% susceptible) |
| <i>Enterococcus faecium</i> , VAN A/B NOT detected | <i>Enterococcus faecium</i> | Vancomycin (100% susceptible) |
| <i>Enterococcus</i> species, VAN A/B detected | Vancomycin-resistant <i>Enterococcus</i> spp. (VRE) | Daptomycin (needs ID consult) or Linezolid (96% susceptible) |
| <i>Listeria monocytogenes</i> | <i>Listeria monocytogenes</i> | Ampicillin |
| Staphylococcus | | |
| <i>Staphylococcus aureus</i> , mecA or MREJ NOT detected | Methicillin-Sensitive <i>S. aureus</i> (MSSA) | Cefazolin |
| <i>Staphylococcus aureus</i> , mecA or MREJ detected | Methicillin-Resistant <i>S. aureus</i> (MRSA) | Vancomycin |
| <i>Staphylococcus epidermidis</i> , mecA NOT detected | Methicillin-Sensitive <i>Staphylococcus epidermidis</i> | Consider holding therapy unless severely ill or positive cultures in 2 of 2 sets. Recommended to repeat blood cultures. If treating: Cefazolin |
| <i>Staphylococcus epidermidis</i> , mecA detected | Methicillin-Resistant <i>Staphylococcus epidermidis</i> | Consider holding therapy unless severely ill or positive cultures in 2 of 2 sets. Recommended to repeat blood cultures. If treating: Vancomycin |
| <i>Staphylococcus lugdenensis</i> , mecA NOT detected | Methicillin-Sensitive <i>Staphylococcus lugdenensis</i> | Consider holding therapy unless severely ill or positive cultures in 2 of 2 sets. Recommended to repeat blood cultures. If treating: Cefazolin |
| <i>Staphylococcus lugdenensis</i> , mecA detected | Methicillin-Resistant <i>Staphylococcus lugdenensis</i> | Consider holding therapy unless severely ill or positive cultures in 2 of 2 sets. Recommended to repeat blood cultures. If treating: Vancomycin |
| Streptococcus | | |
| <i>Streptococcus</i> spp. | <i>Streptococcus</i> spp. (not otherwise specified) | |

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| <i>Streptococcus agalactiae</i> | <i>Streptococcus agalactiae</i> | Ceftriaxone |
| <i>Streptococcus pyogenes</i> | <i>Streptococcus pyogenes</i> | |
| <i>Streptococcus pneumoniae</i> | <i>Streptococcus pneumoniae</i> | |
| Gram Negative Bacteria | | |
| <i>Ac calco/baum</i> complex | <i>Acinetobacter calcoaceticus- baumannii</i> complex | Unasyn or Meropenem |
| Enterobacterales AND resistance gene NOT DETECTED | | |
| Enterobacterales spp. | Enterobacterales spp. (not otherwise specified) | Cefepime |
| <i>Enterobacter cloacae</i> complex | <i>Enterobacter cloacae</i> | Cefepime |
| <i>Escherichia coli</i> | <i>Escherichia coli</i> | Ceftriaxone |
| <i>Klebsiella aerogenes</i> | <i>Klebsiella aerogenes</i> | Ceftriaxone |
| <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>Salmonella</i> spp. | <i>Salmonella</i> spp. | Ceftriaxone |
| <i>Serratia marcescens</i> | <i>Serratia marcescens</i> | Ceftriaxone |
| Enterobacterales or Non-Enterobacterales AND resistant gene DETECTED | | |
| CTX-M detected | ESBL + | Ertapenem |
| KPC detected | Carbapenem-resistant Enterbacterales (CRE) | Ceftazidime-avibactam (Avycaz) <u>AND</u> ID consult |
| IMP detected | Carbapenem-resistant Enterbacterales (CRE) | Ceftazidime-avibactam (Avycaz) + aztreonam <u>AND</u> ID consult |
| NDM detected | Carbapenem-resistant Enterbacterales (CRE) | Ceftazidime-avibactam (Avycaz) + aztreonam <u>AND</u> ID consult |
| OXA-48 detected | Carbapenem-resistant Enterbacterales (CRE) | Ceftazidime-avibactam (Avycaz) <u>AND</u> ID consult |
| VIM detected | Carbapenem-resistant Enterbacterales (CRE) | Ceftazidime-avibactam (Avycaz) + aztreonam <u>AND</u> ID consult |
| mcr-1 detected | Colistin-resistant Enterobacterales | **Depends on organism – ID consult** |
| Other Gram Negative Bacteria | | |
| <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 (Zosyn) |

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| <i>Stenotrophomonas maltophilia</i> | <i>Stenotrophomonas maltophilia</i> | Sulfamethoxazole-trimethoprim (Bactrim) |
| Anaerobes | | |
| <i>Bacteroides fragilis</i> | <i>Bacteroides fragilis</i> | Metronidazole or Piperacillin-tazobactam (Zosyn) |
| Yeast | | |
| <i>Candida albicans</i> | <i>Candida albicans</i> | Fluconazole |
| <i>Candida auris</i> | <i>Candida auris</i> | Micafungin |
| <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 |
| <i>Cryptococcus neoformans/gattii</i> | <i>Cryptococcus neoformans/gattii</i> | Liposomal amphotericin B + ID consult |

- 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