

## MBMC Antibiogram 2023

| GRAM NEGATIVE                              |      | ANTIBIOTICS  |                                 |            |           |          |             |               |           |                           |              |           |                |                             |              |                           |                                   |
|--|------|--|---------------------------------|------------|-----------|----------|-------------|---------------|-----------|---------------------------|--------------|-----------|----------------|-----------------------------|--------------|---------------------------|-----------------------------------|
| 1/1/2023-12/31/2023                        |      | Number tested  | Amoxicillin/<br>Clavulanic Acid | Ampicillin | Cefazolin | Cefepime | Ceftriaxone | Ciprofloxacin | Ertapenem | Gentamicin <sup>(b)</sup> | Levofloxacin | Meropenem | Nitrofurantoin | Piperacillin/<br>Tazobactam | Tetracycline | Tobramycin <sup>(b)</sup> | Trimethoprim/<br>Sulfamethoxazole |
| ORGANISM                                   |      | PERCENT SUSCEPTIBLE                                    |                                 |            |           |          |             |               |           |                           |              |           |                |                             |              |                           |                                   |
| <i>Citrobacter freundii</i> complex        | 77   | •  | •                               | •          | 98        | •        | 93          | 98            | 98        | 91                        | 100          | 95        | •              | 86                          | 100          | 91                        |                                   |
| <i>Citrobacter koseri</i>                  | 85   | 100  | •                               | 97         | 100       | 99       | 99          | 100           | 100       | 99                        | 100          | 93        | 100            | 98                          | 100          | 100                       |                                   |
| <i>Klebsiella (Enterobacter) aerogenes</i> | 107  | •  | •                               | •          | 98        | •        | 96          | 99            | 99        | 96                        | 100          | 18        | •              | 94                          | 98           | 98                        |                                   |
| <i>Enterobacter cloacae</i> complex        | 156  | •  | •                               | •          | 91        | •        | 89          | 86            | 97        | 86                        | 97           | 37        | •              | 86                          | 97           | 86                        |                                   |
| <i>Escherichia coli</i>                    | 3032 | 84   | 53                              | 84         | 94        | 91       | 75          | 100           | 92        | 73                        | 100          | 95        | 96             | 78                          | 91           | 80                        |                                   |
| <i>Escherichia coli</i> - Urine only       | 1138 | 84   | 52                              | 84         | 93        | 90       | 74          | 100           | 91        | 71                        | 100          | 95        | 96             | 77                          | 90           | 80                        |                                   |
| <i>Klebsiella oxytoca</i>                  | 119  | 92   | 0                               | 53         | 97        | 90       | 93          | 99            | 98        | 93                        | 99           | 86        | 94             | 88                          | 92           | 92                        |                                   |
| <i>Klebsiella pneumoniae</i>               | 633  | 91   | 0                               | 86         | 90        | 90       | 85          | 98            | 94        | 84                        | 99           | 21        | 93             | 88                          | 89           | 87                        |                                   |
| <i>Proteus mirabilis</i>                   | 336  | 88   | 78                              | 92         | 95        | 94       | 78          | 99            | 95        | 78                        | 99           | 0         | 100            | 0                           | 96           | 82                        |                                   |
| <i>Pseudomonas aeruginosa (b)</i>          | 421  |  |                                 |            | 89        |          | 84          |               |           | 72                        | 87           |           | 88             |                             | 99           |                           |                                   |
| <i>Serratia marcescens</i> <sup>(c)</sup>  | 66   | •  | •                               | •          | 99        | 95       | 92          | 98            | 99        | 90                        | 98           | 0         | •              | 41                          | 90           | 99                        |                                   |
| <i>Stenotrophomonas maltophilia</i>        | 40   |  |                                 |            |           |          |             |               |           | 70                        |              |           |                |                             |              | 85                        |                                   |
| <i>Haemophilus influenzae</i>              | 27   | 37% of H.influenzae isolates were β-lactamase positive |                                 |            |           |          |             |               |           |                           |              |           |                |                             |              |                           |                                   |

| GRAM POSITIVE                     |     | ANTIBIOTICS         |            |             |                             |            |             |             |                            |           |                |           |            |                            |                                   |            |
|-----------------------------------|-----|---------------------|------------|-------------|-----------------------------|------------|-------------|-------------|----------------------------|-----------|----------------|-----------|------------|----------------------------|-----------------------------------|------------|
| 1/1/2023-12/31/2023               |     | Number tested       | Ampicillin | Ceftriaxone | Ceftriaxone<br>(meningitis) | Daptomycin | Doxycycline | Clindamycin | Gentamicin<br>(High-Level) | Linezolid | Nitrofurantoin | Oxacillin | Penicillin | Penicillin<br>(meningitis) | Trimethoprim/<br>Sulfamethoxazole | Vancomycin |
| Organism                          |     | PERCENT SUSCEPTIBLE |            |             |                             |            |             |             |                            |           |                |           |            |                            |                                   |            |
| <i>Enterococcus faecalis</i>      | 514 | 99                  |            |             | 100                         |            |             | 84          | 92                         | 99        |                |           |            |                            |                                   | 96         |
| <i>Enterococcus faecium</i>       | 80  | 15                  |            |             |                             |            |             | 93          | 100                        | 20        |                |           |            |                            |                                   | 29         |
| <i>Staphylococcus aureus, ALL</i> | 888 |                     |            |             | 100                         | 95         | 73          |             | 100                        |           | 60             |           |            |                            | 94                                | 100        |
| <i>MRSA only</i>                  | 360 |                     |            |             | 100                         | 94         | 67          |             | 100                        |           | 0              |           |            |                            | 90                                | 100        |
| <i>MSSA only</i>                  | 528 |                     |            |             | 100                         | 96         | 70          |             | 100                        |           | 100            |           |            |                            | 95                                | 100        |
| <i>Staphylococcus epidermidis</i> | 220 |                     |            |             | 100                         | 88         | 67          |             | 100                        |           | 52             |           |            |                            | 60                                | 97         |
| <i>Staphylococcus lugdunensis</i> | 71  |                     |            |             | 100                         | 100        | 80          |             | 100                        |           | 78             |           |            |                            | 99                                | 100        |
| <i>Streptococcus agalactiae</i>   | 56  |                     | 100        |             |                             |            | 49          |             |                            |           |                | 100       |            |                            |                                   | 100        |
| <i>Streptococcus anginosus</i>    | 38  |                     | 95         |             |                             |            | 66          |             |                            |           |                | 91        |            |                            |                                   | 100        |
| <i>Streptococcus pneumoniae</i>   | 37  |                     | 100        | 81          |                             |            | 87          |             |                            |           |                | 100       | 57         | 75                         |                                   | 100        |

- 85-100% Susceptible
- 60-84% Susceptible
- <60% Susceptible
- Due to the presence of inducible beta-lactamases, this organism should be considered resistant to the antimicrobial indicated
- Shaded boxes indicate organism/antimicrobial combinates not tested routinely
- Denotes manufacturer reporting limitation

(a) Isolates <30 have poor statistical validity.

(b) Aminoglycoside breakpoints lowered for Enteroobacterales and *Pseudomonas aeruginosa* in 2023. Gentamicin is no longer a reliable treatment option for *Pseudomonas aeruginosa*.

(c) Ceftriaxone reported as tested on *Serratia marcescens* isolates starting 10/09/2023. Data not available prior to this date.