

# 2023 Regional Adult: Gram Positive

|   | # isolates |              |           |             |                          |               |             |            |             |                       |              |           |              |                |           |            |                         |                               |            |
|---|------------|--------------|-----------|-------------|--------------------------|---------------|-------------|------------|-------------|-----------------------|--------------|-----------|--------------|----------------|-----------|------------|-------------------------|-------------------------------|------------|
| Corynebacterium spp., not C. striatum           |            |              |           |             |                          |               | 45          |            | 77          |                       | 100          |           |              | 39             |           | 100        | 87                      |                               |            |
| Corynebacterium striatum                        |            |              |           |             |                          |               | 6           |            | 18          |                       | 100          |           |              | 1              |           | 100        | 161                     |                               |            |
| Enterococcus faecalis                           | 100        | #            | #         | #           | #                        | #             | #           | #          | 85          | 32                    | 90           | 100       | 99           | #              |           | #          | 96                      | 1639                          |            |
| Enterococcus faecium                            | 16         | #            | #         | #           | #                        | #             | #           | #          | 73          | 34                    | 99           | 100       | 4            | #              |           | #          | 35                      | 411                           |            |
| Staphylococcus aureus                           |            |              | 59        | 100         | 59                       |               |             |            | 70          | 90                    | 96           | 100       |              | 59             |           |            | 98                      | 98                            | 3958       |
| Staphylococcus aureus (MRSA)                    |            |              | 0         | 100         | 0                        |               |             |            | 64          | 89                    | 93           | 100       |              | 0              |           |            | 97                      | 98                            | 1631       |
| Staphylococcus aureus (MSSA)                    |            |              | 100       | 100         | 100                      |               |             |            | 74          | 90                    | 98           | 100       |              | 100            |           |            | 99                      | 99                            | 2324       |
| Staphylococcus aureus (VISA)                    |            |              | 52        | 100         | 52                       |               |             |            | 49          | 46                    | 97           | 100       |              | 52             |           |            | 100                     | 0                             | 61         |
| Staphylococcus capitis                          |            |              | 71        |             | 72                       |               |             |            | 77          | 48                    | 96           | 100       |              | 72             |           |            | 96                      | 100                           | 85         |
| Staphylococcus epidermidis                      |            |              | 32        |             | 32                       |               |             |            | 50          | 91                    | 87           | 100       |              | 32             |           |            | 43                      | 100                           | 779        |
| Staphylococcus haemolyticus                     |            |              | 14        |             | 14                       |               |             |            | 37          | 94                    | 86           | 100       |              | 14             |           |            | 31                      | 100                           | 35         |
| Staphylococcus hominis                          |            |              | 50        |             | 50                       |               |             |            | 70          | 99                    | 82           | 100       |              | 50             |           |            | 65                      | 100                           | 185        |
| Staphylococcus intermedius group                |            |              | 81        |             | 81                       |               |             |            | 65          |                       | 79           | 100       |              | 81             |           |            | 57                      | 100                           | 58         |
| Staphylococcus lugdunensis                      |            |              | 84        |             | 84                       |               |             |            | 78          | 100                   | 98           | 100       |              | 76             |           |            | 98                      | 100                           | 374        |
| Streptococcus agalactiae (Group B Streptococci) |            |              |           |             | 100                      |               |             |            | 38          |                       |              | 98        | 100          |                | 100       |            |                         | 100                           | 175        |
| Streptococcus anginosus                         |            |              |           |             | 100                      |               |             |            | 74          |                       |              | 100       | 100          |                | 98        |            |                         | 100                           | 104        |
| Streptococcus constellatus                      |            |              |           |             | 100                      |               |             |            | 82          |                       |              | 100       | 100          |                | 89        |            |                         | 100                           | 53         |
| Streptococcus dysgalactiae                      |            |              |           |             | 100                      |               |             |            | 52          |                       |              | 98        | 100          |                | 100       |            |                         | 100                           | 50         |
| Streptococcus intermedius                       |            |              |           |             | 100                      |               |             |            | 80          |                       |              | 99        | 100          |                | 100       |            |                         | 100                           | 76         |
| Streptococcus mitis group                       |            |              |           |             | 97                       |               |             |            |             |                       |              | 92        |              |                | 65        |            |                         | 100                           | 114        |
| Streptococcus pneumoniae                        |            |              | 59        |             |                          |               | 92          | 99         | 88          |                       | 83           | 99        |              | 99             |           | 71         | 98                      | 72                            | 211        |
| Streptococcus pyogenes (Group A Streptococci)   |            |              |           |             | 100                      |               |             |            | 67          |                       |              | 100       | 100          |                | 100       |            |                         | 100                           | 84         |
|   | Ampicillin | Azithromycin | Cefazolin | Ceftriaxone | Ceftriaxone (meningitis) | Ciprofloxacin | Clindamycin | Daptomycin | Doxycycline | High-Level Gentamicin | Levofloxacin | Linezolid | Moxifloxacin | Nitrofurantoin | Oxacillin | Penicillin | Penicillin (meningitis) | Trimethoprim-Sulfamethoxazole | Vancomycin |
| 85-100% of isolates susceptible                 |            |              |           |             |                          |               |             |            |             |                       |              |           |              |                |           |            |                         |                               |            |
| 60-84% of isolates susceptible                  |            |              |           |             |                          |               |             |            |             |                       |              |           |              |                |           |            |                         |                               |            |
| 0-59% of isolates susceptible                   |            |              |           |             |                          |               |             |            |             |                       |              |           |              |                |           |            |                         |                               |            |
| Not routinely tested or insufficient data       |            |              |           |             |                          |               |             |            |             |                       |              |           |              |                |           |            |                         |                               |            |
| Intrinsically Resistant                         | #          |              |           |             |                          |               |             |            |             |                       |              |           |              |                |           |            |                         |                               |            |

Data based on first isolate per patient.

Daptomycin only routinely tested on Staphylococcus isolates recovered from blood or sterile body sites.

Nitrofurantoin only indicated for uncomplicated cystitis.

Streptococcus agalactiae (Group B Streptococci) only routinely tested if recovered from blood or sterile body sites.

Streptococcus dysgalactiae only routinely tested if recovered from blood or sterile body sites.

Streptococcus pyogenes (Group A Streptococci) only routinely tested if recovered from blood or sterile body sites.

**Hospitals Included:** Alton Memorial Hospital, Barnes-Jewish Hospital, Christian Hospital, Memorial Hospital, Parkland Health Center, St. Louis Children's Hospital

**Ages:** Adult (≥18 years)

**Collection Setting:** Inpatient, Outpatient, and Emergency Department

# 2023 Regional Adult: Gram Negative

|  | # isolates |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
|--|------------|-----|----|----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|------|------|----|
| Achromobacter spp.   | #          | #   | #  | 13 |     | 90  | #  | #   | 13  | 13  | 97  |    | 87  | #   | 100 | 9    | 91   | 68 |
| Acinetobacter calcoaceticus-baumannii complex              | #          | 76  | #  | 41 | 56  |     |    |     | 32  | 76  |     | 38 | #   | 34  |     | 63   | 131  |    |
| Acinetobacter spp., not A. calcoaceticus-baumannii complex | #          | 100 | #  | 97 | 94  |     | 48 | 100 | 97  |     | 100 | #  | 96  |     | 94  | 68   |      |    |
| Citrobacter freundii complex                               | #          | #   | #  | 98 | &   |     | &  | 86  | 96  |     | 99  | 98 | &   |     | 86  | 261  |      |    |
| Citrobacter koseri   | #          | 93  |    | 95 | 100 | 98  | 99 | 98  | 99  |     | 100 | 95 | 100 |     | 97  | 247  |      |    |
| Enterobacter cloacae complex                               | #          | #   | &  | #  | 97  |     | &  |     | &   | 91  | 98  |    | 98  | 47  | &   | 88   | 710  |    |
| Escherichia coli   | 49         | 55  |    | 87 | 96  | 94  | 91 | 76  | 92  |     | 100 |    | 99  |     | 74  | 9461 |      |    |
| Escherichia coli - URINE ONLY                              | 50         |     |    | 90 | 97  | 94  | 92 | 77  | 92  |     | 100 | 98 | 99  |     | 75  | 8591 |      |    |
| Klebsiella (Enterobacter) aerogenes                        | #          | #   | &  | #  | 98  |     | &  |     | 92  | 98  |     | 99 | 39  | &   | 92  | 340  |      |    |
| Klebsiella oxytoca   | #          | 48  |    | 56 | 96  | 92  | 85 | 87  | 92  |     | 100 | 97 | 92  |     | 84  | 435  |      |    |
| Klebsiella pneumoniae                                      | #          | 55  |    | 87 | 93  | 90  | 89 | 82  | 94  |     | 100 | 57 | 96  |     | 76  | 2419 |      |    |
| Klebsiella variicola                                       | #          | 84  |    | 96 | 98  | 96  | 96 | 90  | 98  |     | 100 | 83 | 98  |     | 90  | 246  |      |    |
| Morganella morganii  | #          | 31  |    | #  | 97  | 84  | 93 | 74  | 91  | 42  | 98  | #  | #   | 96  | 74  | 194  |      |    |
| Proteus mirabilis  | 82         | 92  |    | 73 | 98  | 98  | 95 | 74  | 95  | 92  | 100 | #  | #   | 100 | 76  | 1498 |      |    |
| Proteus vulgaris/hauseri                                   | #          | 84  |    | #  | 100 | 99  | 88 | 98  | 97  |     | 100 | #  | #   | 100 | 91  | 96   |      |    |
| Providencia rettgeri                                       | #          | #   |    | #  | 100 | 99  | 95 | 77  | 99  |     | 100 | #  | #   | 100 | 79  | 82   |      |    |
| Providencia stuartii                                       | #          | #   |    | #  | 95  | 86  | 96 | 41  | 82  |     | 97  | #  | #   | 97  | 78  | 96   |      |    |
| Pseudomonas aeruginosa                                     | #          | #   | 80 | #  | 94  | 100 | 93 | 99  | #   | 84  | 87  | 89 | #   | 92  | 97  | #    | 1994 |    |
| Pseudomonas aeruginosa (mucoid morphotype)                 | #          | #   | 80 | #  | 87  | 99  | 93 | 98  | #   | 59  | 81  | 85 | #   | 93  | 90  | #    | 167  |    |
| Pseudomonas putida group                                   | #          | #   |    | #  | 100 | 97  |    | #   | 100 | 100 |     | 82 | #   |     |     | 34   |      |    |
| Pseudomonas spp., not P.aeruginosa                         | #          | #   |    | #  | 97  | 94  |    | #   | 98  | 100 |     | 84 | #   |     | 38  | 63   |      |    |
| Serratia marcescens  | #          | #   |    | #  | 100 | 100 | 98 | 86  | 98  |     | 100 | #  | 100 |     | 91  | 228  |      |    |
| Stenotrophomonas maltophilia                               | #          | #   | #  | #  |     |     | #  | #   | #   | #   | 89  | #  | 100 | #   | #   | 97   | 215  |    |
| 85-100% of isolates susceptible                            |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| 60-84% of isolates susceptible                             |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| 0-59% of isolates susceptible                              |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Not routinely tested or insufficient data                  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Intrinsically Resistant                                    | #          |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Inducibly Resistant  | &          |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Ampicillin   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Ampicillin/Sulbactam                                       |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Aztreonam  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Cefazolin  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Cefepime   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Cefiderocol  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Ceftazidime  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Ceftolozane/Tazobactam                                     |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Ceftroxone   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Ciprofloxacin  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Gentamicin   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Imipenem   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Levofloxacin   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Meropenem  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Minocycline  |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Nitrofurantoin   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Piperacillin/Tazobactam                                    |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Tobramycin   |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |
| Trimethoprim-Sulfamethoxazole                              |            |     |    |    |     |     |    |     |     |     |     |    |     |     |     |      |      |    |

Data based on first isolate per patient.

Nitrofurantoin only indicated for uncomplicated cystitis.

Serratia marcescens data limited due to protocol changes in October 2023.

**Hospitals Included:** Alton Memorial Hospital, Barnes-Jewish Hospital, Christian Hospital, Memorial Hospital, Parkland Health Center, St. Louis Children's Hospital

**Ages:** Adult (≥18 years)

**Collection Setting:** Inpatient, Outpatient, and Emergency Department