

Physicians Laboratory Services Cumulative Antimicrobial Susceptibility Report  
All Clients, All Isolates | January 2022 - December 2022

| % Susceptible<br>Gram Positive          | Total* | Penicillin(2) | Ampicillin | Oxacillin(1) | Amoxicillin/Clavulanate | Cefotaxime(2) | Ceftriaxone(2) | Meropenem | Gentamicin | Ciprofloxacin(7) | Levofloxacin(7) | Moxifloxacin | Trimethoprim/Sulfa | Clindamycin(5) | Daptomycin(6) | Erythromycin(5) | Nitrofurantoin(3) | Linezolid(4) | Vancormycin | Tetracycline(7) | Gentamicin Synergy(8) | Streptomycin Synergy(8) | Penicillin (non-CSF)(2) | Penicillin V (oral)(2) | Cefotaxime (non-CSF)(2) | Ceftriaxone (non-CSF)(2) |
|---|--------|---------------|------------|--------------|-------------------------|---------------|----------------|-----------|------------|------------------|-----------------|--------------|--------------------|----------------|---------------|-----------------|-------------------|--------------|-------------|-----------------|-----------------------|-------------------------|-------------------------|------------------------|-------------------------|--------------------------|
| <i>Staph. aureus</i> (MSSA) 71%         | 742    | --            | --         | 100          | --                      | --            | --             | --        | 99         | 87               | 89              | 97           | 99                 | 78             | 100           | 68              | 99                | 100          | 100         | 95              | --                    | --                      | --                      | --                     | --                      | --                       |
| <i>Staph. aureus</i> (MRSA) 29%         | 306    | --            | --         | 0            | --                      | --            | --             | --        | 93         | 31               | 33              | 78           | 94                 | 70             | 100           | 14              | 97                | 100          | 100         | 92              | --                    | --                      | --                      | --                     | --                      | --                       |
| <i>Staph. spp.</i> (coagulase-negative) | 778    | --            | --         | 56           | --                      | --            | --             | --        | 95         | 74               | 75              | 88           | 76                 | 68             | 100           | 51              | 99                | 100          | 100         | 85              | --                    | --                      | --                      | --                     | --                      | --                       |
| <i>Strep. pneumoniae</i>                | 48     | 65            | --         | --           | 94                      | 86            | 88             | 83        | --         | --               | 100             | --           | 67                 | 89             | --            | 60              | --                | --           | 100         | 80              | --                    | --                      | 96                      | 60                     | 94                      | 98                       |
| <i>Enterococcus faecalis</i>            | 1165   | 100           | 100        | --           | --                      | R             | R              | --        | --         | 83               | 88              | --           | R                  | R              | 100           | 27              | 100               | 100          | 99          | 28              | 86                    | 86                      | --                      | --                     | --                      | --                       |
| <i>Enterococcus faecium</i>             | 85     | 27            | 27         | --           | --                      | R             | R              | --        | --         | 20               | 24              | --           | R                  | R              | 91            | 0               | 74                | 100          | 60          | 32              | --                    | --                      | --                      | --                     | --                      | --                       |
| <i>Enterococcus spp.</i>                | 30     | 83            | 90         | --           | --                      | R             | R              | --        | --         | 83               | 83              | --           | R                  | R              | 100           | 67              | 78                | 100          | 73          | 43              | --                    | --                      | --                      | --                     | --                      | --                       |

The % susceptible for each organism/antimicrobial combination was generated by including the first isolate of that organism encountered on a given patient.

R Organism has intrinsic resistance to this antimicrobial.

-- Not tested/indicated for organism.

\* Antibiograms created for organisms with less than 30 total isolates have questionable statistical significance. Interpret data with caution.

(1) Oxacillin predicts susceptibility to most cephalosporins, carbapenems, and beta-lactam/beta-lactamase inhibitors.

(2) For *S. pneumoniae*: cefotaxime, ceftriaxone, and penicillin % susceptible listed is based on parenteral CSF (meningitis), parenteral non-CSF, and oral MIC breakpoints.

(3) Nitrofurantoin is reported for isolates from urine only.

(4) Linezolid is reported for isolates from non-urine sources only.

(5) For *Staphylococcus spp.*: clindamycin and erythromycin are reported for isolates from non-urine sources only.

(6) For *Staphylococcus spp.*: daptomycin is reported for isolates from non-respiratory sources only.

(7) For all *Enterococcus spp.*: ciprofloxacin, levofloxacin, and tetracycline are reported for isolates from urine only.

(8) For *E. faecalis* and *E. faecium*: gentamicin and streptomycin high-level resistance testing is reported for isolates from blood cultures only.

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| % Susceptible<br>Gram Negative             | Total* | Ampicilin                    | Ampicilin/Sulbactam | Piperacillin/Tazobactam | Cefazolin | Ceftazidime | Ceftazidime/Avibactam | Ceftriaxone | Cefepime | Cefoxitin | Aztreonam | Ertapenem | Imipenem | Meropenem | Amikacin | Gentamicin | Tobramycin | Ciprofloxacin(3) | Levofloxacin(3) | Trimethoprim/Sulfa | Nitrofurantoin (1) | Tetracycline(2) | Tigecycline |
|--|--------|------------------------------|---------------------|-------------------------|-----------|-------------|-----------------------|-------------|----------|-----------|-----------|-----------|----------|-----------|----------|------------|------------|------------------|-----------------|--------------------|--------------------|-----------------|-------------|
| <i>Escherichia coli</i>                    | 7127   | 62                           | 67                  | 98                      | 77        | 94          | 100                   | 94          | 95       | 97        | 94        | 100       | 100      | 100       | 100      | 94         | 94         | 86               | 86              | 82                 | 97                 | 80              | 100         |
| <i>Klebsiella pneumoniae</i>               | 1452   | R                            | 86                  | 99                      | 89        | 95          | 100                   | 95          | 95       | 95        | 95        | 100       | 100      | 100       | 100      | 98         | 98         | 97               | 98              | 91                 | 42                 | 86              | 99          |
| <i>Proteus mirabilis</i>                   | 783    | 87                           | 93                  | 100                     | 75        | 98          | 100                   | 98          | 98       | 98        | 98        | 100       | --       | 100       | 100      | 91         | 92         | 72               | 82              | 79                 | R                  | R               | --          |
| <i>Klebsiella (Enterobacter) aerogenes</i> | 225    | R                            | R                   | 88                      | R         | 80          | 100                   | 77          | 100      | R         | 83        | 96        | 77       | 100       | 100      | 100        | 100        | 97               | 100             | 100                | 23                 | 93              | 99          |
| <i>Enterobacter cloacae</i> complex        | 326    | R                            | R                   | 82                      | R         | 74          | 100                   | 64          | 98       | R         | 72        | 89        | 95       | 100       | 100      | 98         | 98         | 98               | 99              | 90                 | 25                 | 90              | 99          |
| <i>Serratia marcescens</i>                 | 95     | R                            | R                   | 84                      | R         | 84          | 100                   | 84          | 100      | R         | 86        | 99        | --       | 99        | 100      | 100        | 98         | 95               | 99              | 95                 | R                  | 16              | 99          |
| <i>Pseudomonas aeruginosa</i>              | 681    | R                            | R                   | 95                      | R         | 95          | 99                    | R           | 95       | R         | 87        | R         | 85       | 93        | 98       | 88         | 97         | 90               | 90              | R                  | --                 | R               | --          |
| <i>Acinetobacter baumannii</i>             | 9      | R                            | 100                 | --                      | R         | 100         | --                    | 44          | 100      | R         | R         | R         | 100      | 100       | 100      | 100        | 100        | 100              | 100             | 100                | --                 | 100             | --          |
| <i>Citrobacter freundii</i> complex        | 261    | R                            | R                   | 93                      | R         | 80          | 100                   | 76          | 98       | R         | 78        | 100       | 99       | 100       | 100      | 96         | 96         | 95               | 97              | 85                 | 92                 | 84              | 99          |
| <i>Morganella morganii</i>                 | 79     | R                            | 6                   | 100                     | R         | 78          | 100                   | 81          | 100      | 76        | 94        | 99        | 9        | 100       | 100      | 78         | 96         | 71               | 82              | 66                 | R                  | R               | 0           |
| <i>Providencia</i> spp.                    | 63     | R                            | 54                  | 95                      | R         | 83          | 89                    | 97          | 100      | 97        | 86        | 98        | 82       | 100       | 100      | 60         | 62         | 75               | 83              | 89                 | R                  | R               | 0           |
| <i>Salmonella</i> spp.                     | 9      | 100                          | --                  | --                      | --        | 100         | --                    | --          | --       | --        | --        | --        | --       | --        | --       | --         | --         | 100              | 100             | 100                | --                 | --              | --          |
| <i>Shigella</i> spp.                       | 0      | --                           | --                  | --                      | --        | --          | --                    | --          | --       | --        | --        | --        | --       | --        | --       | --         | --         | --               | --              | --                 | --                 | --              | --          |
| <i>Stenotrophomonas</i>                    | 33     | R                            | R                   | R                       | R         | 33          | --                    | R           | --       | R         | R         | R         | R        | R         | R        | R          | R          | --               | 88              | 97                 | --                 | R               | --          |
| <i>Klebsiella oxytoca</i>                  | 339    | R                            | 65                  | 96                      | 17        | 93          | 100                   | 90          | 93       | 99        | 90        | 99        | 99       | 100       | 100      | 96         | 95         | 95               | 98              | 90                 | 89                 | 88              | 100         |
| <i>Haemophilus influenzae</i>              | 65     | Beta-lactamase positive: 28% |                     |                         |           |             |                       |             |          |           |           |           |          |           |          |            |            |                  |                 |                    |                    |                 |             |

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(1) Nitrofurantoin is reported for isolates from urine only.

(2) For *A. baumannii*: tetracycline is reported for isolates from urine only.

(3) Ciprofloxacin/Levofloxacin: Enterobacterales & *P. aeruginosa* %Susceptible utilizes CLSI M100 28th Edition breakpoints.