

Urinary Tract Pathogens (in Order of Frequency) - % Susceptible

| Organism | Number of Isolates | Amox clavulanic | Ampicillin | Cefazolin (1) | Ceftazidime | Ceftriaxone | Ciprofloxacin | Gentamicin | Meropenem | Nitrofurantoin | Trimethoprim-Sulfamethoxazole |
|---------------------------|--------------------|-----------------|------------|---------------|-------------|-------------|---------------|------------|-----------|----------------|-------------------------------|
| E. coli ^ | 2268 | 87 | 44 | 76 | | 85 | 51 | 89 | 100 | 93 | 68 |
| Enterococcus species ^^^^ | 665 | | | | | | | | | | |
| Klebsiella pneumoniae * | 509 | 98 | | 92 | | 94 | 92 | 97 | 100 | 38 | 86 |
| Proteus mirabilis + | 388 | 97 | 76 | 90 | | 97 | 69 | 94 | 100 | | 61 |
| Pseudomonas aeruginosa | 151 | | | | 93 | | 75 | 84 | | | |
| Group B Streptococcus ^^ | 112 | | | | | | | | | | |

Organism Notes:

* Includes ESBL and AMP-C isolates (5.5% of total Klebsiella pneumoniae isolates identified as ESBL and AMP-C).

^ Includes ESBL and AMP-C isolates (14.9% of total E.coli isolates identified as ESBL and AMP-C). In Ontario, E.coli is found to be 98.1% susceptible to Fosfomycin.

^^ This isolate is predictably susceptible to Penicillin.

^^^ Clindamycin, Trimethoprim/Sulfamethoxazole and all Cephalosporins are ineffective against Enterococcus species. Enterococcus isolates recovered from urine are generally susceptible to amoxicillin and nitrofurantoin. Susceptibility to Amoxicillin is 97.1% and to Nitrofurantoin is 97.4%

+ Includes ESBL and AMP-C isolates (0.0% of total Proteus mirabilis isolates identified as ESBL and AMP-C).

Antibiotic Notes:

(1) Cefazolin interpretation predicts results for Cephalexin (Keflex) in accordance with CLSI standards for urinary sites only (not systemic).

All Other Specimen Types excluding (Urines and Surveillance) - Organisms in Order of Frequency - % Susceptible

| Organism | Number of Isolates | Cefazolin | Ceftazidime | Ciprofloxacin | Clindamycin | Cloxacillin | Erythromycin | Gentamicin | Tetracycline (2) | Trimethoprim-Sulfamethoxazole |
|---------------------------|--------------------|-----------|-------------|---------------|-------------|-------------|--------------|------------|------------------|-------------------------------|
| Staphylococcus aureus ^^^ | 656 | 60 | | | 42 | 60 | 36 | | 94 | 99 |
| Pseudomonas aeruginosa | 262 | | 92 | 82 | | | | 90 | | |
| Group B Streptococcus ^^ | 45 | | | | | | | | | |

Organism Notes:

^^ This isolate is predictably susceptible to Penicillin.

^^^ Includes Methicillin Resistant S.aureus (MRSA). MRSA is resistant to all B-Lactams (penicillins, cephalosporins, B-lactam/B-lactamase inhibitor combinations, and carbapenems). MRSA constitutes 39.5% of total Staphylococcus aureus isolates identified.






Antibiotic Notes:

(2) Organisms that are susceptible to Tetracycline are also considered susceptible to Doxycycline.

General Notes:

Antibiogram results, patient risk factors for resistant organisms, and resistance epidemiology should be considered together to help guide empiric treatment of initial infections. Treatment should be re-evaluated as additional information from culture and sensitivity become available.

Calculation of results based on first isolate per patient.

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|--|---|
|  | 90-100% of isolates are susceptible to the antibiotic indicated (GOOD CHOICE) |
|  | 21-89% of isolates are susceptible to the antibiotic indicated (INTERMEDIATE CHOICE) |
|  | 0-20% of isolates are susceptible to the antibiotic indicated (POOR CHOICE) |
|  | Value based on < 30 isolates. Statistical comparison on results with less than 30 isolates is unreliable. n = # of isolates tested. |
|  | Antibiotic susceptibility testing is not typically performed on the organism. |