Toronto Western Hospital ANTIBIOGRAM Emergency Department January 1, 2023 - December 31, 2023

Blood Isolates — % Susceptible

| Blood Isolates — % Susceptible | | | | | | | | | | | 1 | 1 | 1 | | | ı | | | | | | | | 1 | $\overline{}$ | | Г |
|---|-----|-----|------------|-----------------------------|------------|----------------------------|--------------------------------|-------------------------|-----------|-----------|-------------|-----------|-------------|--------------------------|------------------------------|-------------|-------------|--------------|-------------|---------------|--------------|-------------------------------|------------|------------|---------------|------------|---|
| ≥80% Susceptible 70-79% Susceptible ≤69% Susceptible | # | % | Ampicillin | Amoxicillin-Clavulanic acid | Penicillin | Penicillin IV (meningitis) | Penicillin IV (non-meningitis) | Piperacillin-Tazobactam | Meropenem | Ertapenem | Cloxacillin | Cefazolin | Ceftriaxone | Ceftriaxone (meningitis) | Ceftriaxone (non-meningitis) | Ceftazidime | Clindamycin | Erythromycin | Doxycycline | Ciprofloxacin | Moxifloxacin | Trimethoprim-Sulfamethoxazole | Gentamicin | Tobramycin | Amikacin | Vancomycin | |
| ALL BACTERIA | 649 | _ | 13 | 22 | | | | 65 | 66 | 64 | | 56 | 68 | | | | | | | | | 82 | | | | | Г |
| ALL GRAM-NEGATIVE BACTERIA | 136 | 100 | 31 | 71 | | | | 81 | 100 | 93 | | 55 | 79 | | | 85 | | | | 78 | | 73 | 89 | 90 | 97 | | Ī |
| Escherichia coli | 86 | 63 | 49 | 76 | | | | 81 | 100 | 100 | | 64 | 86 | | | 86 | | | | 68 | | 71 | 85 | 86 | 96 | | ╆ |
| Klebsiella pneumoniae | 22 | 16 | 0 | 100 | | | | 95 | 100 | 100 | | 91 | 100 | | | 100 | | | | 100 | | 95 | 100 | 100 | 100 | | H |
| Pseudomonas aeruginosa | 8 | 6 | | 100 | | | | 100 | 100 | 100 | | /1 | 100 | | | 100 | | | | 86 | | 75 | 86 | 100 | 100 | | t |
| Proteus mirabilis | 6 | 4 | 0 | 100 | | | | 100 | 100 | 100 | | 0 | 100 | | | 100 | | | | 100 | | 83 | 100 | 100 | 100 | | t |
| Enterobacter cloacae | 3 | 2 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 67 | | 67 | 67 | 67 | 100 | | t |
| Klebsiella oxytoca | 3 | 2 | 0 | 100 | | | | 100 | 100 | 100 | | 0 | 100 | | | 100 | | | | 100 | | 100 | 100 | 100 | 100 | | t |
| Morganella morganii | 2 | 1 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 100 | | 100 | 100 | 100 | 100 | | Ħ |
| Citrobacter freundii | 2 | 1 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 100 | | 100 | 100 | 100 | 100 | | T |
| Providencia stuartii | 2 | 1 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 100 | | 100 | 100 | 100 | 100 | | T |
| Moraxella catarrhalis^ | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALL GRAM-POSITIVE BACTERIA | 513 | 100 | q | 9 | 4 | <u> </u> | | 61 | 57 | 57 | 53 | 57 | 66 | | I | | 74 | | | | 1 | 84 | | | | 100 | _ |
| | | | 9 | 9 | 4 | | | | | | | | 00 | | | | | 50 | | | | | | | | | L |
| Coagulase-negative staphylococci | 373 | 73 | | | | | | 61 | 61 | 61 | | 61 | | | | | 82 | 48 | 91 | | | 88 | | | | 100 | 1 |
| Staphylococcus aureus, all isolates | 46 | 9 | | | | | | 93 | 93 | 93 | 93 | 93 | | | | | 84 | 80 | 91 | | | 100 | | | | 100 | 1 |
| - methicillin-susceptible | 43 | 8 | | | | | | 100 | 100 | 100 | | 100 | | | | | 83 | 79 | 95 | | | 100 | | | \vdash | 100 | 1 |
| - methicillin-resistant (MRSA) Viridans group streptococci° | 29 | 6 | | | | | | 0 | 0 | 0 | 0 | 0 | 100 | | | | 100 | 100 | 33 | | | 100 | | | | 100 | 1 |
| Enterococcus faecalis, all isolates | 29 | 4 | 95 | 95 | | | | 91 | | | | | 100 | | | | | | | | | | | | | 100 | H |
| Streptococcus pneumoniae | 18 | 4 | 73 | 70 | | | | 71 | | | | | | 94 | 100 | | | 80 | | | 100 | | | | \vdash | 100 | H |
| Group A streptococci** | 12 | 2 | | | 100 | | | | | | | | | 74 | 100 | | 92 | 80 | | | 100 | | | | | 100 | H |
| Group G streptococci** | 6 | 1 | | | 100 | | | | | | | | | | | | 67 | 67 | | | | | | | \vdash | 100 | H |
| Group B streptococci** | 3 | 1 | | | 100 | | | | | | | | | | | | 0 | 0 | | | | - | | | | 100 | H |
| Enterococcus faecium, all isolates | 2 | 0 | 0 | 0 | 100 | | | 0 | | | | | | | | | | | | | | - | | | | 100 | H |
| Enterococcus casseliflavus | 1 | 0 | | 100 | | <u> </u> | H | 100 | | | | | | | | | | | | - | | | | | \vdash | 0 | H |

General Notes:

- > Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 isolates reported is limited. Please take this into consideration when interpreting the reported results.
- > Some organisms for which there were only very small numbers have been excluded from this report; however the total number of "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" listed includes these organisms.
- > Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all organisms included on this report as well as those that have been excluded, with assumptions made for those drugs for which susceptibilities were not tested.
- \succ Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Year-Specific Notes:

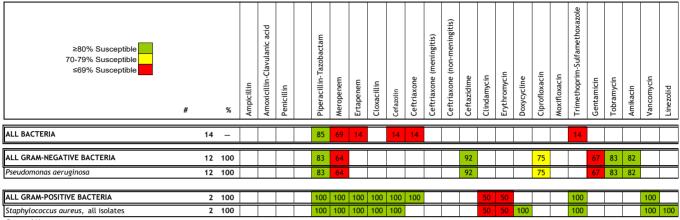
> Only a limited number of coagulase negative staphylococci isolates were tested for susceptibilities. The vast majority of coagulase-negative staphylococci are susceptible to vancomycin. If you have any questions, please contact the UHN/MSH Department of Microbiology.

Organism-Specific Notes:

- ^ M. catarrhalis: Susceptibility testing is not routinely performed. Most isolates are resistant to ampicillin and amoxicillin but are generally susceptible to other antibiotics commonly used for respiratory infections.
- ** Beta-hemolytic streptococci: Susceptibilty testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.
- * Viridans group streptococci: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.

Toronto Western Hospital ANTIBIOGRAM Emergency Department January 1, 2023 - December 31, 2023

Respiratory Isolates - % Susceptible



General Notes:

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- > Some organisms for which there were only very small numbers have been excluded from this report; however the total number of "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL
- > Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all
- > Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Prepared by University Health Network/Mount Sinai Hospital Department of Microbiology

December 24, 2024

Toronto Western Hospital ANTIBIOGRAM Emergency Department January 1, 2022 - December 31, 2022

All Urine Isolates — % Susceptible

| All Urine Isolates — % Susceptible | | | | | | | | | | | | | | | | | | | | | | |
|--|-----|-----|------------|-----------------------------|------------|-------------------------|-----------|-----------|-------------|-----------|------------|-------------|-------------|-------------|---------------|-------------------------------|----------------|------------|------------|----------|------------|-----------|
| ≥80% Susceptible 70-79% Susceptible ≤69% Susceptible | # | % | Ampicillin | Amoxicillin-Clavulanic acid | Penicillin | Piperacillin-Tazobactam | Meropenem | Ertapenem | Cloxacillin | Cefazolin | Cephalexin | Ceftriaxone | Ceftazidime | Doxycycline | Ciprofloxacin | Trimethoprim-Sulfamethoxazole | Nitrofurantoin | Gentamicin | Tobramycin | Amikacin | Vancomycin | Linezolid |
| ALL BACTERIA | 517 | - | 20 | 66 | | 77 | 80 | 70 | | 7 | 2 | 57 | | 22 | 72 | 61 | 72 | | | | | |
| ALL GRAM-NEGATIVE BACTERIA | 407 | 100 | 5 | 63 | | 75 | 100 | 87 | | 7 | | 70 | 77 | 19 | 73 | 74 | 68 | 94 | 52 | 89 | | |
| Escherichia coli | 234 | 57 | 9 | 71 | | 78 | 100 | 96 | | 4 | | 82 | 82 | 33 | 63 | 75 | 97 | 92 | 39 | 87 | | |
| Klebsiella pneumoniae | 62 | 15 | 0 | 89 | | 89 | 100 | 100 | | 29 | | 92 | 92 | | 84 | 89 | 32 | 97 | 75 | 100 | | |
| Pseudomonas aeruginosa | 29 | 7 | | | | 100 | 93 | | | | | | 100 | | 90 | | | 100 | 100 | 100 | | |
| Proteus mirabilis | 25 | 6 | 0 | 96 | | 96 | 100 | 100 | | 0 | | 96 | 96 | | 88 | 76 | 0 | 88 | 0 | 100 | | |
| Klebsiella oxytoca | 13 | 3 | 0 | 100 | | 100 | 100 | | | | | 100 | 100 | | 92 | 100 | 92 | 100 | | | | |
| Morganella morganii | 11 | 3 | 0 | 0 | | 0 | 100 | 100 | | 0 | 0 | 0 | 0 | | 73 | 73 | 0 | 91 | 100 | 100 | | |
| Citrobacter koseri | 11 | 3 | 0 | 0 | | 9 | 100 | 100 | | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 82 | 100 | 100 | 100 | | |
| Enterobacter cloacae | 10 | 2 | 0 | 0 | | 0 | 100 | 90 | | 0 | 0 | 0 | 0 | | 90 | 90 | 60 | 100 | 100 | 100 | | |
| Providencia stuartii | 5 | 1 | 0 | 0 | | 0 | 100 | 100 | | 0 | 0 | 0 | 0 | | 80 | 100 | 0 | 100 | 100 | 100 | | |
| Serratia marcescens | 2 | 0 | 0 | 0 | | 0 | 100 | 100 | | 0 | 0 | 0 | 0 | | 100 | 100 | 0 | 100 | 100 | 100 | | |
| Stenotrophomonas maltophilia | 1 | 0 | | | | | | | | | | | | | | 100 | 0 | | | | | |
| Citrobacter freundii | 1 | 0 | 0 | 0 | | 0 | 100 | 100 | | 0 | 0 | 0 | 0 | | 100 | 100 | 100 | 100 | 100 | 100 | i | |
| Providencia rettgeri | 1 | 0 | 0 | 0 | | 0 | 100 | 100 | | 0 | 0 | 0 | 0 | | 100 | 100 | 0 | 100 | 100 | 100 | i | |
| Citrobacter braakii | 1 | 0 | 0 | 0 | | 0 | 100 | 100 | | 0 | 0 | 0 | 0 | | 100 | 100 | 100 | 100 | 100 | 100 | | |
| Citrobacter amalonaticus | 1 | 0 | 0 | 0 | | 0 | 100 | 100 | | 0 | 0 | 0 | 0 | | 100 | 100 | 100 | 100 | 100 | 100 | | |
| | | | | | | | | | | 1 | | | | | | | | | | | | |
| ALL GRAM-POSITIVE BACTERIA | 110 | 100 | 77 | 77 | | 84 | 7 | 7 | 7 | 7 | 7 | 7 | | 31 | 67 | 10 | 86 | | | | 95 | |
| Enterococcus faecalis, all isolates | 83 | 75 | 99 | 99 | | 99 | | | | | | | | 28 | 87 | | 96 | | | | 100 | |
| - vancomycin-susceptible | 83 | 75 | 99 | 99 | | 99 | | | | | | | | 28 | 87 | | 96 | | | | 100 | |
| Enterococcus faecium, all isolates | 14 | 13 | 0 | 0 | | 0 | | | | | | | | 0 | 0 | | 21 | | | | 64 | 100 |
| - vancomycin-susceptible | 9 | 8 | 0 | 0 | | 0 | | | | | | | | 0 | 0 | | 22 | | | | 100 | 100 |
| - vancomycin-resistant (VRE) | 5 | 5 | 0 | 0 | | 0 | | | | | | | | 0 | 0 | | 20 | | | | 0 | 100 |
| Staphylococcus aureus, all isolates | 11 | 10 | | | | 73 | 73 | 73 | 73 | 73 | 73 | | | 91 | | 100 | 100 | | | | 100 | 100 |
| - methicillin-susceptible | 8 | 7 | | | | 100 | 100 | 100 | 100 | 100 | 100 | | | 88 | | 100 | 100 | | | | 100 | 100 |
| - methicillin-resistant (MRSA) | 3 | 3 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | 100 | | 100 | 100 | | | | 100 | 100 |
| Enterococcus species | 1 | 1 | 100 | 100 | | 100 | | | | | | | | 0 | 100 | | 0 | | | | 100 | |
| Enterococcus casseliflavus | 1 | 1 | 100 | 100 | | 100 | | | | | | | | 100 | 100 | | 100 | | | | | #N/A |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | L | | | | | | | | | | | |

General Notes:

- > Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 isolates reported is limited. Please take this into consideration when interpreting the reported results.
- > Some organisms for which there were only very small numbers have been excluded from this report; however the total number of "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" listed includes these organisms.
- > Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all organisms included on this report as well as those that have been excluded, with assumptions made for those drugs for which susceptibilities were not tested.
- > Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Organism-Specific Notes:

'S. maltophilia: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

Toronto Western Hospital ANTIBIOGRAM Emergency Department January 1, 2023 - December 31, 2023

All Specimens - % Susceptible

| All Specimens – % Susceptible | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----|-----|------------|-----------------------------|------------|----------------------------|--------------------------------|-------------------------|-----------|-----------|-------------|-----------|-------------|--------------------------|------------------------------|-------------|-------------|--------------|-------------|---------------|--------------|-------------------------------|------------|------------|----------|------------|-----------|
| ≥80% Susceptible 70-79% Susceptible ≤69% Susceptible | # | % | Ampicillin | Amoxicillin-Clavulanic acid | Penicillin | Penicillin IV (meningitis) | Penicillin IV (non-meningitis) | Piperacillin-Tazobactam | Meropenem | Ertapenem | Cloxacillin | Cefazolin | Ceftriaxone | Ceftriaxone (meningitis) | Ceftriaxone (non-meningitis) | Ceftazidime | Clindamycin | Erythromycin | Doxycycline | Ciprofloxacin | Moxifloxacin | Trimethoprim-Sulfamethoxazole | Gentamicin | Tobramycin | Amikacin | Vancomycin | Linezolid |
| ALL BACTERIA | 899 | - | 25 | 51 | | | | 74 | 76 | 70 | | 38 | 64 | | | | | | | | | 67 | | | | | |
| ALL GRAM-NEGATIVE BACTERIA | 535 | 100 | 19 | 62 | | | | 76 | 99 | 88 | | 35 | 69 | | | 79 | | | | 75 | | 72 | 94 | 86 | 96 | | |
| Escherichia coli | 293 | 55 | 34 | 72 | | \vdash | | 79 | 100 | 99 | | 43 | 83 | | | 83 | | | | 64 | | 75 | 92 | 80 | 94 | _ | H |
| Klebsiella pneumoniae | 81 | 15 | 0 | 91 | | | | 90 | 100 | 100 | | 77 | 94 | | | 94 | | | | 86 | | 91 | 98 | 96 | 100 | | H |
| Pseudomonas aeruginosa | 57 | 11 | | | | | | 96 | 89 | | | | | | | 98 | | | | 86 | | | 93 | 96 | 96 | | H |
| Proteus mirabilis | 30 | 6 | 0 | 97 | | | | 97 | 100 | 100 | | 0 | 97 | | | 97 | | | | 90 | | 80 | 90 | 71 | 100 | | H |
| Klebsiella oxytoca | 16 | 3 | 0 | 100 | | | | 100 | 100 | 100 | | 0 | 100 | | | 100 | | | | 94 | | 100 | 100 | | 100 | | |
| Enterobacter cloacae | 14 | 3 | 0 | 0 | | | | 0 | 100 | 93 | | 0 | 0 | | | 0 | | | | 86 | | 79 | 93 | 93 | 100 | | Т |
| Citrobacter koseri | 13 | 2 | 0 | 0 | | | | 8 | 100 | 100 | | 0 | 0 | | | 0 | | | | 100 | | 100 | 100 | 100 | 100 | | |
| Morganella morganii | 11 | 2 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 82 | | 82 | 91 | 100 | 100 | | |
| Serratia marcescens | 6 | 1 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 100 | | 100 | 100 | 100 | 100 | | |
| Providencia stuartii | 5 | 1 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 80 | | 100 | 100 | | | | |
| Citrobacter freundii | 4 | 1 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 100 | | 100 | 100 | | | | - |
| Moraxella catarrhalis^ | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | _ |
| Citrobacter braakii | 2 | 0 | 0 | 0 | | | | 0 | 100 | 100 | | 0 | 0 | | | 0 | | | | 100 | | 100 | 100 | 100 | 100 | | |
| | | | | | | | - | | | | | | | | | | | 1 | | | | | | | | | Ь. |
| ALL GRAM-POSITIVE BACTERIA | 364 | 100 | 35 | 35 | 7 | | | 71 | 43 | 43 | 37 | 43 | 56 | | | | 47 | 42 | | | | 57 | | | | 99 | Г |
| Staphylococcus aureus, all isolates | 129 | 35 | | | | | | 86 | 86 | 86 | 86 | 85 | | | | | 81 | 68 | 94 | | | 98 | | | | 100 | 10 |
| - methicillin-susceptible | 111 | 30 | | | | | | 100 | 100 | 100 | 100 | 99 | | | | | 82 | 72 | 95 | | | 100 | | | | 100 | 10 |
| - methicillin-resistant (MRSA) | 18 | 5 | | | | | | 0 | 0 | 0 | 0 | 0 | | | | | 78 | 44 | 89 | | | 89 | | | | 100 | 10 |
| Enterococcus faecalis, all isolates | 105 | 29 | 98 | 98 | | | | 97 | | | | | | | | | | | | | | | | | | 100 | Г |
| Coagulase-negative staphylococci | 42 | 12 | | | | | | 54 | 54 | 54 | 54 | 54 | | | | | 83 | 49 | 93 | | | 88 | | | | 100 | 10 |
| Viridans group streptococci° | 30 | 8 | | | | | | | | | | | 100 | | | | | | | | | | | | | 100 | Г |
| Streptococcus pneumoniae | 20 | 5 | | | | | | | | | | | | 95 | 100 | | | 82 | | | 100 | | | | | 100 | |
| Enterococcus faecium, all isolates | 14 | 4 | 0 | 0 | | | | 0 | | | | | | | | | | | | | | | | | | 64 | |
| - vancomycin-susceptible | 9 | 2 | 0 | 0 | | | | 0 | | | | | | | | | | | | | | | | | | 100 | |
| - vancomycin-resistant (VRE) | 5 | 1 | 0 | 0 | | | | 0 | | | | | | | | | | | | | | | | | | 0 | 10 |
| Group A streptococci** | 13 | 4 | | | 100 | | | | | | | | | | | | 92 | 82 | | | | | | | | 100 | Г |
| Group G streptococci** | 6 | 2 | | | 100 | | | | | | | | | | | | 67 | 67 | | | | | | | | 100 | |
| Group B streptococci** | 3 | 1 | | | 100 | | | | | | | | | | | | 0 | 0 | | | | | | | | 100 | L |
| Group C streptococci** | 2 | 1 | | | 100 | | | | | | | | | | | | 100 | 100 | | | | | | | | 100 | ı |

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- > Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Year-Specific Notes:

> All specimens exclude surveillance samples.

Organism-Specific Notes:

- ^ M. catarrhalis: Susceptibility testing is not routinely performed. Most isolates are resistant to ampicillin and amoxicillin but are generally susceptible to other antibiotics commonly used for respiratory infections.
- ** Beta-hemolytic streptococci: Susceptibilty testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.
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