

**BC Children's Hospital and
BC Women's Hospital & Health Centre**



CUMULATIVE ANTIBIOGRAM

2017

**Division of Medical Microbiology
Department of Pathology and Laboratory Medicine**

Medical Approval: Dr. P. Tilley

Version: 1.1

Folder Name: CW\Microbiology\General

Medical Approval Date: Nov 21, 2018

Implementation Date: 11/22/2018 10:57:49 AM

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| GRAM-POSITIVE BACTERIA | Total Number of Isolates (N)* | PERCENTAGE (%) OF SUSCEPTIBLE CLINICAL ISOLATES | | | | | | | | | | | | | | |
|--|-------------------------------|---|-----------|------------|-------------|-----------|------------|-------------------|-------------|------------|--------------|-------------|---------------|-------------|-----------------|-----------|
| | | Ampicillin | Amox/Clav | Penicillin | Cloxacillin | Cefazolin | Cephalexin | Ceftriaxone (CNS) | Ceftriaxone | Vancomycin | Erythromycin | Clindamycin | Trimeth/Sulfa | Doxycycline | Nitrofurantoin# | Linezolid |
| <i>Enterococcus faecalis</i> | 233 | 100 | | | | R | R | | | 100 | | | | | 96 | |
| <i>Enterococcus faecium</i> ** | 37 | 32 | | | | R | R | | | 62 | | | | | | 100 |
| <i>S. aureus</i> -all isolates | 1439 | | 80 | | 80 | 80 | 80 | | | 100 | 70 | 78 | 94 | 97 | | 99 |
| MRSA isolates only | 307 | R | R | R | R | R | R | | R | 100 | 41 | 66 | 87 | 94 | | 99 |
| Coagulase Negative <i>Staphylococcus</i> | 169 | | | | 20 | 20 | | | | 100 | | | 87 | | | 100 |
| <i>Streptococcus pneumoniae</i> † ** | 89 | | | 100 | | | | 97 α | 100 | | 82 | 89 | | | | |
| <i>Viridans Streptococci</i> ** | 65 | 70 | | 65 | | | | | 92 | 100 | | | | | | |
| <i>Streptococcus pyogenes</i> (Group A) | 546 | | | 100 | | | | | 100 | 100 | 92 | 92 | | | | |

Legend

- R This organism is inherently resistant to this antibiotic
- * Not all isolates had susceptibility testing for all antibiotics
- ** 2016 and 2017 numbers combined due to small number of annual isolates
- # Tested on urine isolates only, should only be used for treatment of simple cystitis
- † Susceptibilities reflect non-CNS infection breakpoints (except ceftriaxone)
- α Based on 31 isolates

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| GRAM-NEGATIVE BACTERIA | Total Number of Isolates (N)* | PERCENTAGE (%) OF SUSCEPTIBLE CLINICAL ISOLATES | | | | | | | | | | | | |
|--|-------------------------------|---|-----------|----------------|-----------|------------|------------|-------------|-----------|------------|------------|---------------|---------------|------------------|
| | | Ampicillin | Amox/Clav | Pip/Tazobactam | Cefazolin | Cephalexin | Cefotaxime | Ceftazidime | Meropenem | Gentamicin | Tobramycin | Trimeth/Sulfa | Ciprofloxacin | Nitrofurantoin # |
| <i>Escherichia coli</i> (all sites) | 700 | 46 | 45 | 96 | 34 | | 86 | | 100 | 91 | 91 | 70 | 84 | |
| <i>Escherichia coli</i> (urine only) | 556 | 50 | 49 | 98 | | 88 | 90 | | 100 | 92 | 92 | 73 | 88 | 99 |
| <i>Klebsiella pneumoniae</i> | 72 | R | 60 | 79 | 45 | | 68 | | 100 | 69 | 71 | 90 | 72 | 38 |
| <i>Enterobacter cloacae</i> complex (<i>asburiae</i> , <i>kobei</i> , <i>cloacae</i>) | 41 | R | R | | | | | | 100 | 95 | 95 | 73 | 100 | 28 |
| <i>Proteus mirabilis</i> | 47 | 83 | 91 | 100 | 0 | 94 | 98 | | 100 | 98 | 98 | 89 | 100 | 0 |
| <i>Pseudomonas aeruginosa</i> †† | 174 | R | R | 69 | R | R | R | 90 | 87 | 90 | 91 | R | 92 | R |
| <i>Haemophilus influenzae</i> | 109 | 64 | 95 | | | | 100 | | | | | 65 | | |

Legend

- R This organism is inherently resistant to this antibiotic
- * Not all isolates had susceptibility testing for all antibiotics
- # Tested on urine isolates only, should only be used for treatment of simple cystitis
- †† Isolates from Cystic Fibrosis patients are included

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| Infection Prevention & Control Additional Precautions | |
|--|---|
| Contact | <ul style="list-style-type: none"> • Single room • HCW: gloves and gowns for direct care |
| Contact Plus | <ul style="list-style-type: none"> • Single room • HCW: gloves and gowns for direct care • Use sporicidal disinfectant |
| Droplet | <ul style="list-style-type: none"> • Single room • HCW: surgical / procedure mask and eye protection • Patient: mask when outside room if possible |
| Droplet & Contact | <ul style="list-style-type: none"> • Combine all elements of both |
| Airborne | <ul style="list-style-type: none"> • Negative pressure room with door closed • HCW: N95 Respirator on entry • Patient: surgical / procedure mask when outside room |
| Airborne & Contact | <ul style="list-style-type: none"> • Combine all elements of both |
| <p>Routine practices are used with ALL patients at ALL times in ALL health care settings.</p> | |
| <p>Your 4 moments for Hand Hygiene:</p> <ol style="list-style-type: none"> 1. Before patient / patient environment contact 2. Before aseptic procedure 3. After body fluid exposure risk 4. After patient / patient environment contact | |

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REVISION LOG

| Version | Description of Change | Revision Date | Implementation Date |
|---------|----------------------------------|---------------|---------------------|
| 1.1 | Initial document upload into QMS | Nov 21, 2018 | Nov 21, 2018 |
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