

Percentage of susceptible Organisms Isolated From Sputum, University Hospital, 4 hospitals, Jan - Jun 2018

| Organism   | TOTAL ISOLATES | BETA - LACTAMS |                   |               |                               |                        |                           |               |                          |                          |               |               |               | CARBAPENEMS                |            |               |               | POLY MYXINS   | QUINOLONES      |                 |               | AMINOGLYCOSIDES      |               |               | GLYCOPEPTIDES |               | MISCELLANEOUS |            |                   |             |                    |              |                     |                 |                |               |               |               |               |             |
|--|----------------|----------------|-------------------|---------------|-------------------------------|------------------------|---------------------------|---------------|--------------------------|--------------------------|---------------|---------------|---------------|----------------------------|------------|---------------|---------------|---------------|-----------------|-----------------|---------------|----------------------|---------------|---------------|---------------|---------------|---------------|------------|-------------------|-------------|--------------------|--------------|---------------------|-----------------|----------------|---------------|---------------|---------------|---------------|-------------|
|  |                | PENICILLIN     | PENICILLIN BY MIC | AMPICILLIN    | AMOXICILLIN / CLAVULANIC ACID | AMPICILLIN / SULBACTAM | PIPERACILLIN / TAZOBACTAM | CEFZOLIN (A)  | CEFUROXIME SODIUM (Oral) | CEFOPERAZONE / SULBACTAM | CEFOTAXIME    | CEFTAZIDIME   | CEFTRIAXONE   | CEFEPIME                   | OXACILLIN  | CEFOXITIN     | ERTAPENEM     | IMPENEM       | MEROPENEM       | COLISTIN BY MIC | CIPROFLOXACIN | CIPROFLOXACIN BY MIC | LEVOFLOXACIN  | OFLOXACIN     | AMIKACIN      | GENTAMICIN    | NETILMICIN    | VANCOMYCIN | VANCOMYCIN BY MIC | CLINDAMYCIN | CLINDAMYCIN BY MIC | ERYTHROMYCIN | ERYTHROMYCIN BY MIC | CHLORAMPHENICOL | CO-TRIMOXAZOLE | TETRACYCLINE  |               |               |               |             |
| <i>Acinetobacter calcoaceticus-baumannii</i> complex | 670            |                |                   | R             | R                             | 40.7<br>(145)          | 30.6<br>(666)             |               |                          | 20.9<br>(191)            | 31.3<br>(668) | 25.4<br>(193) | 41.5<br>(383) |                            |            | R             | 30.9<br>(666) | 31.3<br>(668) | -               | 29.8<br>(668)   |               | 41.6<br>(358)        |               | 42<br>(653)   | 34<br>(661)   |               |               |            |                   |             |                    |              | R                   | 39.2<br>(194)   |                |               |               |               |               |             |
| <i>Acinetobacter</i> spp.                            | 312            |                |                   |               |                               | 7.1<br>(168)           | 10.6<br>(312)             |               |                          | -                        | 10<br>(311)   | 30<br>(30)    | 8.2<br>(305)  |                            |            |               | 9.6<br>(311)  | 10<br>(309)   | -               | 11.2<br>(312)   |               | 15.2<br>(244)        |               | 25.9<br>(282) | 19.2<br>(292) |               |               |            |                   |             |                    |              |                     | 54.8<br>(31)    |                |               |               |               |               |             |
| <i>Enterobacter cloacae</i>                          | 87             |                |                   | R             | R                             | R                      | 85.4<br>(82)              |               | R                        | R                        | 95.6<br>(45)  | 66.7<br>(75)  | 72.4<br>(87)  | 71.3<br>(87)               | 75<br>(40) |               | R             | 100<br>(82)   | 100<br>(85)     | - <sup>WT</sup> | 85.1<br>(87)  |                      | 90<br>(30)    |               | 100<br>(76)   | 91.8<br>(85)  | 98.1<br>(54)  |            |                   |             |                    |              |                     |                 | 85.1<br>(87)   |               |               |               |               |             |
| <i>Enterobacter</i> spp.                             | 76             |                |                   | 3.9<br>(76)   | 9.2<br>(76)                   | -                      | 91.5<br>(71)              |               | 55.7<br>(61)             |                          | 72.4<br>(76)  | 76.3<br>(76)  | 75<br>(76)    | 83.1<br>(65)               |            |               | 10.7<br>(75)  | 97.2<br>(71)  | 95.8<br>(71)    | -               | 89.5<br>(76)  |                      | 89.2<br>(65)  |               | 100<br>(76)   | 94.7<br>(76)  | 98.6<br>(69)  |            |                   |             |                    |              |                     |                 | 82.7<br>(75)   |               |               |               |               |             |
| <i>Escherichia coli</i>                              | 259            |                |                   | 11.6<br>(258) | 55.4<br>(258)                 | 39.5<br>(38)           | 83.5<br>(248)             | 31.5<br>(111) | 45.4<br>(97)             | 91.8<br>(85)             | 46.2<br>(221) | 59.8<br>(259) | 45.1<br>(257) | 48.5<br>(165)              |            | 77.3<br>(256) | 96.4<br>(247) | 95.6<br>(249) | - <sup>WT</sup> | 41.3<br>(259)   |               | 46.5<br>(127)        |               | 98.6<br>(222) | 60.2<br>(246) | 93.9<br>(180) |               |            |                   |             |                    |              |                     |                 | 40.5<br>(259)  |               |               |               |               |             |
| <i>Haemophilus influenzae</i>                        | 119            |                |                   | 44.1<br>(118) | 85.3<br>(109)                 | 72.1<br>(61)           |                           |               |                          | 97.7<br>(43)             |               |               |               |                            |            |               |               |               |                 | - <sup>WT</sup> | 100<br>(79)   |                      | 100<br>(37)   |               |               |               |               |            |                   |             |                    |              |                     |                 | 40.5<br>(116)  |               |               |               |               |             |
| <i>Klebsiella aerogenes</i>                          | 31             |                |                   | R             | R                             | R                      |                           | R             | R                        |                          |               | 77.4<br>(31)  | 74.2<br>(31)  |                            |            | R             |               |               |                 | - <sup>WT</sup> | 96.8<br>(31)  |                      |               |               |               |               |               |            |                   |             |                    |              |                     |                 | 90<br>(30)     |               |               |               |               |             |
| <i>Klebsiella pneumoniae</i>                         | 914            |                |                   | R             | 63.3<br>(911)                 | 54.1<br>(186)          | 72.8<br>(879)             | 57.4<br>(319) | 51.3<br>(279)            | 79.9<br>(274)            | 59.4<br>(736) | 63.7<br>(913) | 61.8<br>(911) | 60.3<br>(620)              |            | 77.2<br>(908) | 85.3<br>(878) | 85.4<br>(885) |                 | - <sup>WT</sup> | 64.8<br>(912) |                      | 69.1<br>(446) |               | 91.7<br>(758) | 83.8<br>(882) | 86.3<br>(540) |            |                   |             |                    |              |                     |                 | 63<br>(909)    |               |               |               |               |             |
| <i>Klebsiella</i> spp.                               | 83             |                |                   | 1.2<br>(83)   | 34.9<br>(83)                  |                        | 71.1<br>(76)              |               | 44.4<br>(54)             |                          | 61.6<br>(79)  | 67.5<br>(83)  | 63.9<br>(83)  | 65.7<br>(67)               |            | 43.4<br>(83)  | 82.7<br>(75)  | 84.2<br>(76)  |                 |                 | 79.5<br>(83)  |                      | 73.7<br>(57)  |               | 94.5<br>(79)  | 85.2<br>(81)  | 90.5<br>(63)  |            |                   |             |                    |              |                     |                 | 73.2<br>(82)   |               |               |               |               |             |
| <i>Moraxella catarrhalis</i>                         | 66             |                |                   |               | 100<br>(64)                   |                        |                           |               |                          |                          |               |               |               |                            |            |               |               |               |                 |                 |               |                      |               |               |               |               |               |            |                   |             |                    |              |                     |                 | 90.8<br>(65)   | 96.9<br>(64)  |               |               |               |             |
| <i>Proteus mirabilis</i>                             | 54             |                |                   | 48.1<br>(54)  | 85.2<br>(54)                  |                        | 100<br>(48)               |               |                          |                          | 84.8<br>(33)  | 96.3<br>(54)  | 88.5<br>(52)  | 88.1<br>(42)               |            | 94.3<br>(53)  |               | 100<br>(47)   |                 | R               | 66.7<br>(54)  |                      |               |               | 100<br>(35)   | 71.2<br>(52)  |               |            |                   |             |                    |              |                     |                 | 52.8<br>(53)   | R             |               |               |               |             |
| <i>Pseudomonas aeruginosa</i>                        | 747            |                |                   | R             | R                             | R                      | 84.2<br>(740)             |               |                          |                          | R             | 84.7<br>(743) | R             | 83.9<br>(504)              |            | R             | 77.9<br>(739) | 81<br>(744)   |                 |                 | 84.7<br>(743) |                      | 82.8<br>(408) |               | 94.5<br>(673) | 88.6<br>(713) | 92.3<br>(222) |            |                   |             |                    |              |                     |                 | R              | R             | R             |               |               |             |
| <i>Serratia marcescens</i>                           | 34             |                |                   | R             | R                             | R                      | 97<br>(33)                | R             | R                        |                          | 93.9<br>(33)  | 97.1<br>(34)  | 93.9<br>(33)  |                            |            | R             | 93.9<br>(33)  | 100<br>(33)   |                 | R               | 100<br>(33)   |                      |               |               | 100<br>(33)   | 97<br>(33)    |               |            |                   |             |                    |              |                     |                 | 94.1<br>(34)   |               |               |               |               |             |
| <i>Stenotrophomonas maltophilia</i>                  | 356            |                |                   | R             | R                             | R                      | R                         |               |                          |                          | R             |               | R             |                            |            | R             | R             | R             |                 |                 |               |                      |               |               | R             | R             | R             |            |                   |             |                    |              |                     |                 | 94.6<br>(354)  |               |               |               |               |             |
| <i>Staphylococcus aureus</i>                         | 500            | 10.7<br>(270)  |                   |               |                               |                        |                           |               |                          |                          |               |               |               | 74.9 <sup>f</sup><br>(455) |            |               |               |               |                 |                 | 86.1<br>(137) |                      | 86.8<br>(144) |               | 83.1<br>(354) |               |               |            |                   |             |                    |              |                     |                 | 73.8<br>(496)  | 69.5<br>(499) | 94.2<br>(137) | 97.4<br>(498) | 61.1<br>(244) |             |
| (MRSA)   | 119            | 0<br>(50)      |                   |               |                               |                        |                           |               |                          |                          |               |               |               | 0 <sup>f</sup><br>(119)    |            |               |               |               |                 |                 |               |                      |               |               | 34.1<br>(85)  |               |               |            |                   |             |                    |              |                     | 12.6<br>(119)   | 8.4<br>(119)   |               | 91.6<br>(119) | 80            |               |             |
| (MSSA)   | 345            | 12.5<br>(192)  |                   |               |                               |                        |                           |               |                          |                          |               |               |               | 100 <sup>f</sup><br>(345)  |            |               |               |               |                 |                 |               |                      |               |               | 100<br>(85)   |               | 100<br>(92)   |            |                   |             |                    |              |                     |                 | 97.4<br>(343)  | 87.8<br>(345) |               | 96.5<br>(85)  | 99.1<br>(344) | 62<br>(171) |
| <i>Streptococcus pneumoniae</i>                      | 50             | - <sup>d</sup> |                   |               |                               |                        |                           |               |                          |                          |               |               |               |                            |            |               |               |               |                 |                 |               |                      |               |               |               |               | 100<br>(45)   |            |                   |             |                    |              |                     |                 |                | 55<br>(40)    | 48<br>(50)    | 77.1<br>(35)  | 45<br>(40)    |             |

<sup>a</sup> : No CLSI Interpretive Criteria. Interpret according to cefoperazone/sulbactam in *Enterobacteriaceae*

<sup>b</sup> : Blood, Pleural Fluid

<sup>c</sup> : Sputum, Ear, Sinus

<sup>d</sup> : Interpret according to oxacillin susceptibility test

<sup>e</sup> : MIC Interpretive Criteria

<sup>f</sup> : Interpret according to cefoxitin susceptibility test

<sup>u</sup> : Urine, Urine Catheter, Urine Clean- Voided

