

SHARP CORONADO HOSPITAL INPATIENT ANTI BIOGRAM January - December 2023

|                                      | No of isolates | Penicillins |                         |                      |                         | Cephalosporins |          |             |             |            | Monobactam | Carbapenem | Aminoglycosides |            |            | Fluoroquinolones |              | Other         |             |
|--------------------------------------|----------------|-------------|-------------------------|----------------------|-------------------------|----------------|----------|-------------|-------------|------------|------------|------------|-----------------|------------|------------|------------------|--------------|---------------|-------------|
|                                      |                | Ampicillin  | Amoxicillin/clavulanate | Ampicillin/sulbactam | Piperacillin/tazobactam | Cefazolin      | Cefepime | Ceftazidime | Ceftriaxone | Cefuroxime | Aztreonam  | Imipenem   | Amikacin        | Gentamicin | Tobramycin | Ciprofloxacin    | Levofloxacin | Trimeth/sulfa | Minocycline |
| Citrobacter freundii*                | 11             | R           | R                       | R                    |                         | R              | 100      |             | R           |            |            |            | 100             | 100        |            | 91               | 82           |               |             |
| Citrobacter koseri*                  | 17             | R           | R                       | R                    | 100                     | 94             |          | 94          | 79          |            |            | 100        | 100             |            | 94         | 100              |              |               |             |
| Enterobacter (Klebsiella) aerogenes* | 10             | R           | R                       | R                    |                         | R              | 100      |             |             |            |            | 100        | 100             |            | 100        | 100              |              |               |             |
| Enterobacter cloacae*                | 25             | R           | R                       | R                    |                         | R              | 100      |             | R           |            |            | 96         | 96              |            | 96         | 80               |              |               |             |
| Escherichia coli Total               | 610            | 47          | 67                      | 53                   | 82                      | 77             |          | 81          | 76          |            |            | 86         | 85              | 79         | 80         | 68               |              |               |             |
| subset E.coli ESBL                   | 112            | R           | R                       | R                    | R                       | R              |          | R           | R           | R          | 100        | 98         | 59              | 49         | 40         | 42               |              |               |             |
| subset E. coli non-ESBL              | 513            |             |                         |                      | 99                      |                |          | 98          |             |            |            | 92         | 93              |            | 88         | 74               |              |               |             |
| Klebsiella pneumoniae                | 102            | R           |                         |                      | 76                      | 74             |          | 75          | 72          |            |            | 92         | 84              |            | 89         | 75               |              |               |             |
| subset K. pneumo ESBL*               | 21             | R           |                         | R                    | R                       | R              |          | R           | R           | R          | 95         | 100        | 67              | 43         | 67         | 19               |              |               |             |
| subset K.pneum non-ESBL              | 81             | R           |                         |                      | 98                      |                |          | 96          |             |            |            | 99         | 96              |            | 96         | 89               |              |               |             |
| Morganella morganii*                 | 15             | R           | R                       | R                    | 100                     | R              | 100      |             | R           |            |            | 75         | 81              |            | 67         | 67               |              |               |             |
| Proteus mirabilis                    | 75             | 85          | 88                      | 92                   | 95                      | 88             |          | 96          | 93          |            |            | 90         | 90              |            | 92         | 87               |              |               |             |
| Proteus vulgaris*                    | <10            | R           |                         |                      |                         | R              |          |             | R           |            |            |            |                 |            |            |                  |              |               |             |
| Serratia marcescens*                 | <10            | R           | R                       | R                    |                         |                |          |             | R           |            |            |            |                 |            |            |                  |              |               |             |
| Acinetobacter baumannii*             | <10            | R           | R                       |                      | R                       | R              |          | R           | R           | R          |            |            |                 |            |            |                  |              |               |             |
| Pseudomonas aeruginosa               | 67             | R           | R                       | R                    | 97                      | R              | 97       | 99          | R           | R          | 90         | R          | R               | 100        | 93         | 90               | R            |               |             |
| Steno maltophilia*                   | 12             | R           | R                       | R                    | R                       | R              |          | R           | R           | R          | R          | R          | R               | R          |            |                  | 100          | 100           |             |

Urine Sources Only

|                           |     |    |   |    |    |    |   |    |    |   |     |  |    |     |    |    |    |
|---------------------------|-----|----|---|----|----|----|---|----|----|---|-----|--|----|-----|----|----|----|
| Escherichia coli          | 530 | 48 |   | 54 | 84 | 79 |   | 83 | 77 |   | 100 |  | 87 | 86  | 80 | 81 | 69 |
| subset E.coli ESBL        | 89  | R  | R | R  | R  | R  | R | R  | R  | R | 100 |  | 54 | 56  | 38 | 38 | 47 |
| subset E. coli non-ESBL   | 454 | 56 |   | 64 | 99 | 93 |   | 97 | 90 |   | 100 |  | 91 | 92  | 87 | 88 | 74 |
| Klebsiella pneumoniae     | 75  | 0  |   | 72 | 75 | 75 |   | 75 | 75 |   | 95  |  | 88 | 91  | 85 | 91 | 72 |
| subset K. pneumo ESBL     | 16  | R  | R | R  | R  | R  | R | R  | R  | R | 94  |  | 50 | 63  | 50 | 69 | 13 |
| subset K. pneumo non-ESBL | 59  | 0  |   | 93 | 97 | 97 |   | 97 | 97 |   | 97  |  | 95 | 98  | 97 | 98 | 88 |
| Proteus mirabilis         | 59  | 88 |   | 95 | 95 | 95 |   | 97 | 95 |   | 97  |  | 94 | 100 | 92 | 93 | 90 |

|   | No. of isolates | Penicillins |           |            | Aminoglycoside     |            | Other       |                               |  |                    |            | STREP PNEUMONIAE <sup>1</sup> | Penicillin-meningeal | Penicillin-Non-meningeal | Ceftriaxone-meningeal | Ceftriaxone-Non-meningeal |
|---|-----------------|-------------|-----------|------------|--------------------|------------|-------------|-------------------------------|--|--------------------|------------|-------------------------------|----------------------|--------------------------|-----------------------|---------------------------|
|   |                 | Ampicillin  | Oxacillin | Penicillin | Gentamicin Synergy | Gentamicin | Clindamycin | Nitrofurantoin (Urinary only) | Tetracycline (surrogate for doxycycline) | Trimethoprim/Sulfa | Vancomycin |                               |                      |                          |                       |                           |
| Enterococcus faecalis                   | 51              | 100         | R         | 100        | 75                 | R          | R           | 100                           | R  | R                  | 100        |                               |                      |                          |                       |                           |
| Enterococcus faecium*                   | <10             |             | R         |            |                    | R          | R           |                               | R  | R                  |            |                               |                      |                          |                       |                           |
| Staphylococcus aureus, all              | 244             | R           | 45        | 13         | R                  | 94         | 88          |                               | 81                                       | 99                 | 100        |                               |                      |                          |                       |                           |
| Oxacillin sensitive Staph aureus (MSSA) | 110             | R           | 100       | 28         | R                  | 95         | 86          |                               | 93                                       | 100                | 100        |                               |                      |                          |                       |                           |
| Oxacillin resistant Staph aureus (MRSA) | 134             | R           | 0         | 0          | R                  | 93         | 89          |                               | 72                                       | 99                 | 100        |                               |                      |                          |                       |                           |
| Staphylococcus epidermidis*             | <10             | R           |           |            | R                  |            |             |                               |  |                    |            |                               |                      |                          |                       |                           |

Beta-hemolytic streptococci are universally susceptible to penicillin

R= intrinsic resistance (inherent or innate antimicrobial resistance)