

**Tauranga/Whakatane/Rotorua Hospital cumulative antibiotic susceptibilities (antibiogram)**  
(Compiled January 2025, based on 2024 annual data)



| Numbers denote % susceptible                              |                 |                                     |             |                         |                |            |            |              |                |             |             |                |                 |                                   |             |               |             |                         |           |            |
|-----------------------------------------------------------|-----------------|-------------------------------------|-------------|-------------------------|----------------|------------|------------|--------------|----------------|-------------|-------------|----------------|-----------------|-----------------------------------|-------------|---------------|-------------|-------------------------|-----------|------------|
| Organism group                                            | Number tested   | Common usage (1st line) antibiotics |             |                         |                |            |            |              |                |             |             |                | Number tested   | Restricted (2nd line) antibiotics |             |               |             |                         |           |            |
|                                                           |                 | Penicillin                          | Amoxicillin | Amoxicillin+clavulanate | Flucloxacillin | Cephalexin | Cefuroxime | Erythromycin | Co-trimoxazole | Doxycycline | Ceftriaxone | Trimethoprim * |                 | Nitrofurantoin *                  | Clindamycin | Ciprofloxacin | Ceftazidime | Piperacillin-tazobactam | Meropenem | Gentamicin |
| Non-urine isolates                                        |                 |                                     |             |                         |                |            |            |              |                |             |             |                |                 |                                   |             |               |             |                         |           |            |
| <i>Staphylococcus aureus</i>                              | 2454            |                                     |             | S^                      | 87             | S^         | S^         | 89           | 99             | 98          |             |                | 42 <sup>#</sup> | 74                                |             |               |             |                         |           |            |
| Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) | 309             | R                                   | R           | R                       | R              | R          | R          | 78           | 100            | 96          | R           |                | 20 <sup>#</sup> | 85                                |             |               |             |                         |           |            |
| <i>Streptococcus pyogenes</i> (Group A)                   | 54 <sup>#</sup> | S                                   | S           | S                       | S              | S          | S          | 94           |                |             |             |                | 54 <sup>#</sup> | 96                                |             |               |             |                         |           |            |
| Beta haemolytic streptococci Groups B, C and G            | 44 <sup>#</sup> | S                                   | S           | S                       | S              | S          | S          | 85           |                |             |             |                | 44 <sup>#</sup> | 91                                |             |               |             |                         |           |            |
| <i>Haemophilus influenzae</i>                             | 265             |                                     | 66          | 84                      |                |            |            |              | 73             | 99          | S           |                |                 |                                   |             |               |             |                         |           |            |
| <i>E. coli</i> (ESBL-positive = 5.1%)                     | 175             |                                     | 47          | 69                      |                |            | 90         |              | 78             |             | 92          |                | 175             | 87                                |             | 98            | 99          | 91                      |           |            |
| <i>Pseudomonas aeruginosa</i>                             | 226             | R                                   | R           | R                       | R              | R          | R          | R            | R              | R           | R           |                | 226             | 75                                | 86          | 93            | 92          |                         |           |            |
| Bacteraemic isolates                                      |                 |                                     |             |                         |                |            |            |              |                |             |             |                |                 |                                   |             |               |             |                         |           |            |
| <i>E. coli</i> (ESBL-positive = 9.0%)                     | 518             |                                     | 45          | 57                      | R              |            | 81         | R            | 75             |             | 87          |                | 518             | 86                                |             | 97            | 100         | 90                      |           |            |
| <i>Klebsiella pneumoniae</i> (ESBL-positive = 28.8%)      | 111             |                                     | R           | 54                      | R              |            | 59         | R            | 67             |             | 65          |                | 111             | 77                                |             |               | 100         | 76                      |           |            |
| Other Enterobacterales                                    | 65              |                                     | 46          | 71                      | R              |            | 79         | R            | 82             |             | 95          |                | 65              | 100                               |             | 95            | 100         | 100                     |           |            |
| <i>Pseudomonas aeruginosa</i>                             | 35 <sup>#</sup> | R                                   | R           | R                       | R              | R          | R          | R            | R              | R           | R           |                | 35              | 86                                | 88          | 100           | 100         |                         |           |            |
| <i>Staphylococcus aureus</i>                              | 259             |                                     |             |                         | 93             |            |            | 86           | 99             | 98          |             |                | 145             | 86                                |             |               |             |                         | 100       |            |
| <i>Streptococcus pyogenes</i> (Group A)                   | 49              | 100                                 |             |                         |                |            |            | 98           |                |             | S           |                | 48              | 98                                |             |               |             |                         |           |            |
| Beta haemolytic streptococci Groups B, C and G            | 75              | 100                                 |             |                         |                |            |            | 83           |                |             | S           |                | 75              | 88                                |             |               |             |                         |           |            |
| <i>Streptococcus pneumoniae</i>                           | 78              | 100                                 | S           |                         |                |            |            | 89           | 70             | 91          | S           |                |                 |                                   |             |               |             |                         |           |            |
| <i>Enterococcus</i> spp                                   | 50 <sup>#</sup> |                                     | 92          |                         | R              | R          | R          | R            |                |             | R           |                |                 |                                   |             |               |             |                         |           | 98         |
| Urine isolates                                            |                 |                                     |             |                         |                |            |            |              |                |             |             |                |                 |                                   |             |               |             |                         |           |            |
| <i>E. coli</i> (ESBL-positive = 6.4%)                     | 2512            |                                     | 50          | 80                      | R              | 90         |            |              |                |             |             | 73             | 99              | 2510                              | 88          |               |             |                         |           |            |
| ESBL-positive <i>E. coli</i>                              | 162             |                                     | R           |                         | R              | R          | R          |              | 37             |             | R           | 29             | 99              | 162                               | 45          |               |             | 100                     | 67        |            |
| <i>Klebsiella</i> spp (ESBL-positive = 19.6%)             | 459             |                                     | R           | 66                      | R              | 72         |            |              |                |             |             | 67             |                 | 457                               | 79          |               |             |                         |           |            |
| ESBL-positive <i>Klebsiella</i> spp                       | 90              |                                     | R           |                         | R              | R          | R          |              | 9              |             | R           | 4              |                 | 90                                | 37          |               |             | 99                      | 25        |            |
| <i>Proteus mirabilis</i>                                  | 186             |                                     | 88          | 98                      | R              | 98         |            |              |                |             |             | 83             | R               |                                   |             |               |             |                         |           |            |
| ESCPPM <sup>§</sup> Enterobacterales                      | 160             |                                     | R           | R                       | R              | R          |            |              | 94             |             |             | 88             |                 | 107                               | 97          |               |             |                         |           |            |
| <i>Pseudomonas aeruginosa</i>                             | 162             | R                                   | R           | R                       | R              | R          | R          |              | R              |             | R           | R              | R               | 162                               | 86          | 85            | 96          | 93                      |           |            |
| <i>Enterococcus</i> spp                                   | 69              |                                     | 75          |                         | R              | R          | R          |              |                |             | R           |                | 86              |                                   |             |               |             |                         |           | 100        |
| <i>Staphylococcus saprophyticus</i>                       | 69              |                                     |             | S^                      | S^             | S^         | S^         |              | 98             |             |             | 87             | 99              |                                   |             |               |             |                         |           |            |

\*Uncomplicated UTI isolates only

^ *Staphylococcus* species that are flucloxacillin susceptible can be considered susceptible to amoxycillin-clavulanate, cephazolin, cephalexin, cefaclor, and cefuroxime.

<sup>#</sup> **Caution** needed in interpreting these results as low number of isolates and testing usually performed on multi-resistant isolates.

S = Not specifically tested but known to be ordinarily susceptible

R = intrinsically resistant

§ = *Enterobacter* spp.(including *Klebsiella aerogenes* ), *Serratia* spp., *Citrobacter freundii* family, *Providencia* spp., *Proteus* spp. (excluding *P. mirabilis* ), *Morganella morganii* , *Yersinia enterocolitica*