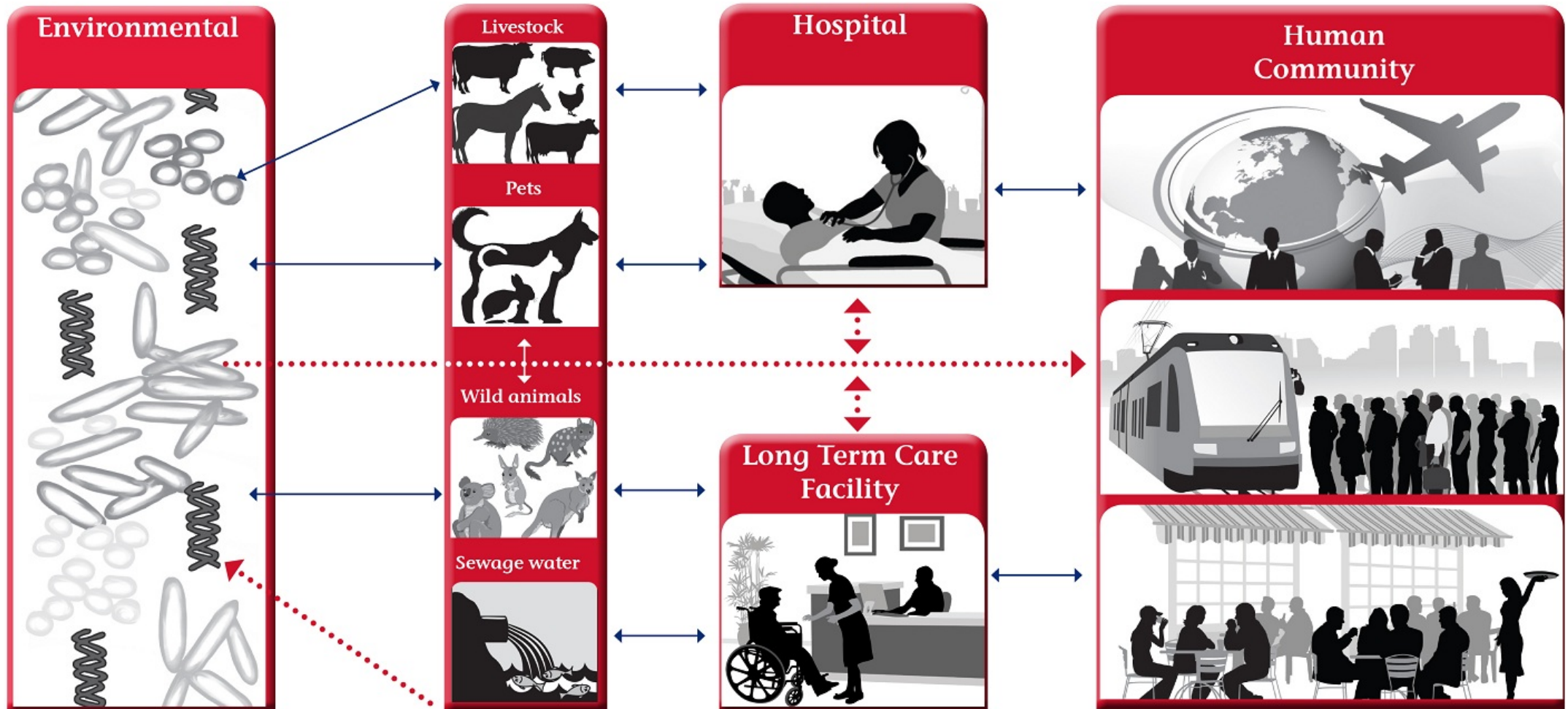


# Community Antibioqram Jan - Dec 2018



# Community Antibigram Jan - Dec 2018

Cumulative antibiograms from community isolates can be a useful resource to inform empirical therapy recommendations as per Therapeutic Guidelines.

This document provides a cumulative antibiogram of isolates collected from patients in the community. Sullivan Nicolaides pathology services patients from all over Queensland as well as Northern New South Wales. The data is divided into three parts

## 1. Urinary Antibigram

- Note: only a subset of *S.saprophyticus* isolates have had routine susceptibility performed.

## 2. Non Urinary Antibigram

## 3. Blood Culture Antibigram

- Organisms are listed in descending order of frequency.
- Organisms are colour coded according to whether they are Gram Positive or Gram Negative.
- Only the first isolate of a given species per patient per year per subtype (e.g urine, non urine) is included.
- Since 2012, susceptibility testing to produce these antibiograms is performed using EUCAST microbroth dilution and disc diffusion.<sup>1</sup>
- Expert EUCAST rules in Antimicrobial Susceptibility testing have been applied.<sup>2</sup>
- Where the total number of isolates tested is < 30, results are considered statistically invalid in accordance with CLSI M39-A4.<sup>3</sup>
- Where only a subset (< 95%) of isolates from a particular organism group have been tested, reported susceptibilities are usually not indicative of the true susceptibility because of the selective nature of testing only more resistant isolates. These occasions are marked with an \* and susceptibility results should be interpreted with caution.

### Signal resistances:












Some important antibiotic resistances have their origin or circulate in the community. At the end of each antibiogram, signal resistances are summarised

These organisms include

- *Enterobacterales* resistant to third or fourth generation cephalosporins due to the presence of Extended Spectrum Beta Lactamases (ESBLs)
- *Enterobacterales* resistant to third or fourth generation cephalosporins due to the presence of Plasmid Mediated AMPC production (PAMPs)
- *Enterobacterales* resistant to carbapenems due to the presence of a plasmid mediated carbapenamase (CPE)
- Non *Enterobacterales* (e.g *Acinetobacter* spp; *Pseudomonas aeruginosa*) resistant to carbapenems due to the presence of a plasmid mediated carbapenamase (CPNE)
- Vancomycin resistant Enterococci (VRE)
- Methicillin resistant *Staphylococcus aureus* (MRSA)
- Vancomycin heteroresistant, intermediate and resistant *Staphylococcus aureus* (hVISA, VISA, VRSA)
- Penicillin intermediate and resistant *Streptococcus pneumoniae* noting that breakpoints differ according to clinical condition (meningitis, pneumonia, other) and mode of administration
- Penicillin intermediate and resistant viridans *Streptococci*

# Community Antibigram Jan - Dec 2018

Colour coding for all antibiograms tables is shown below.

|  |  |   |   |   |  |
|--|--|---|---|---|--|
|  | Gram Positive Organism   |  | ≥90% of isolates susceptible  |  | ≥90% of isolates susceptible (where sample size <95% of total isolates tested)   |
|  | Gram Negative Organism   |  | 70-89% of isolates susceptible  |  | 70-89% of isolates susceptible (where sample size <95% of total isolates tested) |
|  | Antibiotic Not recommended to be used in children without specialist advice  |  | <70% of isolates susceptible  |  | <70% of isolates susceptible (where sample size <95% of total isolates tested)   |
|  | Restricted or 2nd Line Antibiotics   | <b>R</b>  | Intrinsic Resistance is present with this organism-antibiotic combination | *   | Sample size <95% of the total isolates tested                                    |
|  | Restricted or 2nd Line Antibiotics and Antibiotic Not recommended to be used in children without specialist advice | <b>%</b>  | Percentage of isolates sensitive to this particular antibiotic            | <b>n</b>  | Number of isolates tested with this antibiotic                                   |

## References:

1. <https://www.safetyandquality.gov.au/our-work/safety-in-e-health/>
2. [http://www.eucast.org/clinical\\_breakpoints/](http://www.eucast.org/clinical_breakpoints/)
3. [http://www.eucast.org/expert\\_rules\\_and\\_intrinsic\\_resistance/](http://www.eucast.org/expert_rules_and_intrinsic_resistance/)
4. Clinical and Laboratory Standards Institute (CLSI). Guideline for Analysis and Presentation of Cumulative Antimicrobial Susceptibility (M39-A4). 3rd ed. Pennsylvania: CLSI, 2014
5. [www.snp.com.au](http://www.snp.com.au)

# Community Antibrogram Jan - Dec 2018

| Urine Antibigram                       |               |        | All SNP Community |                     |                         |                         |           |             |             |           |            |            |              |                |             |               |              |            |                         |            |                           |            |          |
|--|---------------|--------|-------------------|---------------------|-------------------------|-------------------------|-----------|-------------|-------------|-----------|------------|------------|--------------|----------------|-------------|---------------|--------------|------------|-------------------------|------------|---------------------------|------------|----------|
| Organism Group                         | No. Organisms | %Total |                   | Amoxicillin         | Amoxicillin-clavulanate | Piperacillin-tazobactam | Cefalexin | Ceftriaxone | Ceftazidime | Meropenem | Gentamicin | Amikacin   | Trimethoprim | Nitrofurantoin | Norfloxacin | Ciprofloxacin | Fusidic Acid | Rifampicin | Gentamicin (High Level) | Fosfomycin | Quinupristin-dalfopristin | Vancomycin |          |
|  |               |        |                   | <b>All isolates</b> | <b>96557</b>            | <b>100</b>              |           |             |             |           |            |            |              |                |             |               |              |            |                         |            |                           |            |          |
| Escherichia spp                        | 63055         | 65.3   | %                 | 59                  | 89                      | 95                      | 93        | 91          |             | 100       | 94         | 100        | 77           | 99             | 91          |               |              |            |                         |            | 100                       |            |          |
|  |               |        | n                 | 63046               | 63041                   | *<br>31668              | 62973     | *<br>31774  |             |           | *<br>30563 | *<br>31805 | *<br>30603   |                | 63048       | 63003         | 63047        |            |                         |            |                           | *<br>2873  |          |
| Enterococcus spp                       | 9692          | 10.0   | %                 | 98                  |                         |                         | 0         | R           | R           |           |            |            | R            | 99             | 96          |               | R            | 15         | 78                      |            |                           | 38         | 83       |
|  |               |        | n                 | 9689                |                         |                         | *<br>10   |             |             |           |            |            |              |                |             | 9672          | 9681         |            |                         | *<br>181   | *<br>192                  |            | *<br>193 |
| Klebsiella spp                         | 7708          | 8.0    | %                 | R                   | 97                      | 92                      | 96        | 96          |             | 100       | 98         | 100        | 90           | 85             | 96          |               |              |            |                         |            |                           |            |          |
|  |               |        | n                 |                     | 7707                    | *<br>3410               | 7694      | *<br>3422   |             |           | *<br>3036  | *<br>3428  | *<br>3045    |                | 7708        | 7702          | 7706         |            |                         |            |                           |            |          |
| Staphylococcus saprophyticus           | 2634          | 2.7    | %                 | 25                  | 95                      |                         | R         |             | R           |           |            |            | 93           | 100            | 100         |               | R            |            |                         |            | R                         |            |          |
|  |               |        | n                 | *<br>597            | *<br>608                |                         |           |             |             |           |            |            |              |                | 2610        | 2620          | 2622         |            |                         |            |                           |            |          |
| Proteus mirabilis                      | 2416          | 2.5    | %                 | 89                  | 97                      | 100                     | 98        | 99          |             | 100       | 97         | 100        | 86           | R              | 99          |               |              |            |                         |            |                           |            |          |
|  |               |        | n                 | 2416                | 2416                    | *<br>1212               | 2416      | *<br>1216   |             |           | *<br>1132  | *<br>1220  | *<br>1134    |                | 2416        |               | 2416         |            |                         |            |                           |            |          |
| Pseudomonas aeruginosa                 | 1985          | 2.1    | %                 | R                   | R                       | 95                      | R         | R           | 97          | 96        | 98         | 97         | R            | R              | 95          | 93            |              |            |                         |            |                           |            |          |
|  |               |        | n                 |                     |                         | 1979                    |           |             |             | 1983      | *<br>1625  | 1984       | *<br>1632    |                |             |               | 1914         | 1984       |                         |            |                           |            |          |
| Enterobacter cloacae complex           | 1599          | 1.7    | %                 | R                   | R                       | 80                      | R         | 80          |             | 99        | 98         | 100        | 85           | 86             | 96          |               |              |            |                         |            |                           |            |          |
|  |               |        | n                 |                     |                         | *<br>1264               |           | *<br>1329   |             |           | *<br>1203  | *<br>1329  | *<br>1203    |                | 1599        | 1595          | 1599         |            |                         |            |                           |            |          |
| Citrobacter koseri, amalonaticus group | 1343          | 1.4    | %                 | R                   | 98                      | 95                      | 96        | 97          |             | 100       | 100        | 100        | 99           | 98             | 100         |               |              |            |                         |            |                           |            |          |
|  |               |        | n                 |                     | 1343                    | *<br>661                | 1341      | *<br>665    |             |           | *<br>612   | *<br>666   | *<br>617     |                | 1343        | 1343          | 1343         |            |                         |            |                           |            |          |
| β haemolytic Streptococci Group B      | 1132          | 1.2    | %                 | 100                 |                         |                         |           |             |             |           |            |            | 91           | 100            | 77          |               |              |            |                         |            |                           |            |          |
|  |               |        | n                 | 1132                |                         |                         |           |             |             |           |            |            |              |                | 1130        | 1132          | *<br>725     |            |                         |            |                           |            |          |

# Community Antibiogram Jan - Dec 2018

| Urine Antibiogram                |               |            | All SNP Community |                         |                         |           |             |             |           |            |          |              |                |             |               |              |            |                         |            |                           |            |     |
|----------------------------------|---------------|------------|-------------------|-------------------------|-------------------------|-----------|-------------|-------------|-----------|------------|----------|--------------|----------------|-------------|---------------|--------------|------------|-------------------------|------------|---------------------------|------------|-----|
| Organism Group                   | No. Organisms | %Total     |                   |                         |                         |           |             |             |           |            |          |              |                |             |               |              |            |                         |            |                           |            |     |
|                                  |               |            | Amoxicillin       | Amoxicillin-clavulanate | Piperacillin-tazobactam | Cefalexin | Ceftriaxone | Ceftazidime | Meropenem | Gentamicin | Amikacin | Trimethoprim | Nitrofurantoin | Norfloxacin | Ciprofloxacin | Fusidic Acid | Rifampicin | Gentamicin (High Level) | Fosfomycin | Quinupristin-dalfopristin | Vancomycin |     |
| <b>All isolates</b>              | <b>96557</b>  | <b>100</b> |                   |                         |                         |           |             |             |           |            |          |              |                |             |               |              |            |                         |            |                           |            |     |
| Klebsiella aerogenes             | 990           | 1.0        | %                 | R                       | R                       | 78        | R           | 80          |           | 99         | 100      | 100          | 96             | 66          | 96            |              |            |                         |            |                           |            |     |
|                                  |               |            | n                 |                         |                         | *         |             | *           |           | *          | *        | *            | 990            | 990         | 990           |              |            |                         |            |                           |            |     |
| Coagulase negative Staphylococci | 800           | 0.8        | %                 | 19                      | 72                      |           |             |             | R         |            |          |              | 58             | 100         | 88            |              | 71         | 96                      |            |                           |            | 100 |
|                                  |               |            | n                 | 790                     | 800                     |           |             |             |           |            |          |              | 796            | 797         | 797           |              |            | *                       | *          |                           |            |     |
| Morganella spp                   | 650           | 0.7        | %                 | R                       | R                       | 96        | R           | 94          |           | 99         | 97       | 100          | 88             | R           | 94            |              |            |                         |            |                           |            |     |
|                                  |               |            | n                 |                         |                         | 643       |             | 644         |           | *          | 644      | *            | 650            |             | 650           |              |            |                         |            |                           |            |     |
| Staphylococcus aureus (ALL)      | 621           | 0.6        | %                 | 22                      | 88                      |           |             |             | R         |            |          |              | 94             | 100         | 94            |              | 90         | 100                     |            |                           |            | 100 |
|                                  |               |            | n                 | 620                     | 621                     |           |             |             |           |            |          |              | 608            | 619         | 609           |              | *          | *                       |            |                           |            |     |
| Citrobacter freundii complex     | 468           | 0.5        | %                 | R                       | R                       | 77        | R           | 73          |           | 97         | 96       | 100          | 88             | 98          | 95            |              |            |                         |            |                           |            |     |
|                                  |               |            | n                 |                         |                         | *         |             | *           |           | *          | *        | 321          | 369            | 322         | 468           | 468          | 468        |                         |            |                           |            |     |
| Serratia spp                     | 415           | 0.4        | %                 | R                       | R                       | 97        | R           | 96          |           | 99         | 99       | 98           | 93             | R           | 94            |              |            |                         |            |                           |            |     |
|                                  |               |            | n                 |                         |                         | 403       |             | 403         |           | *          | 403      | *            | 415            |             | 415           |              |            |                         |            |                           |            |     |
| viridans Streptococci            | 207           | 0.2        | %                 | 98                      |                         |           |             |             |           |            |          |              | 69             | 100         | 61            |              | R          |                         |            |                           |            |     |
|                                  |               |            | n                 | 205                     |                         |           |             |             |           |            |          |              | 207            | 206         | 207           |              |            |                         |            |                           |            |     |
| Proteus spp other                | 136           | 0.1        | %                 | R                       | 55                      | 100       | R           | 86          |           | 100        | 99       | 100          | 77             | R           | 100           |              |            |                         |            |                           |            |     |
|                                  |               |            | n                 |                         | 136                     | *         |             | *           |           | *          | *        | 110          | 122            | 110         | 136           |              | 136        |                         |            |                           |            |     |
| Acinetobacter spp                | 93            | 0.1        | %                 | R                       | R                       | 80        | R           | R           |           | 98         | 100      | 99           | R              | 4           | 75            |              |            |                         |            |                           |            |     |
|                                  |               |            | n                 |                         |                         | 89        |             |             |           | *          | 85       | 90           | *              |             | 93            | *            | 69         |                         |            |                           |            |     |

# Community Antibigram Jan - Dec 2018

| Urine Antibigram                  |               |            | All SNP Community |                         |                         |           |             |             |           |            |          |              |                |             |               |              |            |                         |            |                           |            |  |
|-----------------------------------|---------------|------------|-------------------|-------------------------|-------------------------|-----------|-------------|-------------|-----------|------------|----------|--------------|----------------|-------------|---------------|--------------|------------|-------------------------|------------|---------------------------|------------|--|
| Organism Group                    | No. Organisms | %Total     |                   |                         |                         |           |             |             |           |            |          |              |                |             |               |              |            |                         |            |                           |            |  |
|                                   |               |            | Amoxicillin       | Amoxicillin-clavulanate | Piperacillin-tazobactam | Cefalexin | Ceftriaxone | Ceftazidime | Meropenem | Gentamicin | Amikacin | Trimethoprim | Nitrofurantoin | Norfloxacin | Ciprofloxacin | Fusidic Acid | Rifampicin | Gentamicin (High Level) | Fosfomycin | Quinupristin-dalfopristin | Vancomycin |  |
| <b>All isolates</b>               | <b>96557</b>  | <b>100</b> |                   |                         |                         |           |             |             |           |            |          |              |                |             |               |              |            |                         |            |                           |            |  |
| β haemolytic Streptococci Group A | 82            | 0.1        | %                 | 100                     |                         |           |             |             |           |            |          | 100          | 100            | 89          |               |              |            |                         |            |                           |            |  |
|                                   |               |            | n                 | 82                      |                         |           |             |             |           |            |          |              | *              | 70          | *             | 70           | *          | 65                      |            |                           |            |  |
| Providencia spp                   | 79            | 0.1        | %                 | R                       | R                       | 100       | R           | 99          |           | 100        | 84       | 100          | 78             | R           | 100           |              |            |                         |            | R                         |            |  |
|                                   |               |            | n                 |                         |                         | 79        |             | 79          |           | *          | 68       |              | 79             | *           | 68            |              | 79         |                         |            |                           |            |  |
| Aerococcus spp                    | 67            | 0.1        | %                 | 100                     |                         |           |             |             |           |            |          | 17           | 100            | 90          |               |              |            |                         |            |                           |            |  |
|                                   |               |            | n                 | 67                      |                         |           |             |             |           |            |          |              | *              | 63          | *             | 67           | *          | 67                      |            |                           |            |  |
| Salmonella spp                    | 57            | 0.1        | %                 | 95                      | 98                      |           |             | 100         |           | 100        |          |              | 98             | 98          | 98            |              |            |                         |            |                           |            |  |
|                                   |               |            | n                 | 57                      | 57                      |           |             | *           | 19        | *          | 15       |              |                | 57          | 57            | 57           |            |                         |            |                           |            |  |
| Raoultella spp                    | 49            | 0.1        | %                 | R                       | 98                      | 100       | 96          | 100         |           | 100        | 100      | 100          | 90             | 98          | 100           |              |            |                         |            |                           |            |  |
|                                   |               |            | n                 |                         | 49                      | *         | 26          | 49          | *         | 26         | *        | 15           | *              | 26          | *             | 15           | 49         | 49                      | 49         |                           |            |  |
| Pseudomonas spp                   | 46            | 0.0        | %                 | R                       | 2                       | 80        | 0           | 20          |           | 41         | 98       | 100          | 2              | 2           | 78            |              |            |                         |            |                           |            |  |
|                                   |               |            | n                 |                         | 46                      | 46        | 46          | *           | 20        | *          | 34       | 46           | *              | 33          | 45            | 46           | *          | 27                      |            |                           |            |  |
| Miscellaneous Enterobacteriales†  | 36            | 0.0        | %                 | 14                      | 83                      | 89        | 69          | 97          |           | 100        | 100      | 100          | 97             | 89          | 100           |              |            |                         |            |                           |            |  |
|                                   |               |            | n                 | 36                      | 36                      | *         | 28          | 36          | *         | 30         | *        | 25           | 30             | *           | 25            | 36           | 36         | 36                      |            |                           |            |  |
| Neisseria gonorrhoeae             | 31            | 0.0        | %                 |                         |                         |           |             | 100         |           |            |          |              |                |             |               |              |            |                         |            |                           |            |  |
|                                   |               |            | n                 |                         |                         |           |             | 31          |           |            |          |              |                |             |               |              |            |                         |            |                           |            |  |

# Community Antibigram Jan - Dec 2018

Signal Resistances: Where the tables below contain no data no multiresistant organisms have been detected.

## Urine: Extended spectrum beta lactamase producing Enterobacterales (ESBL)

| Organism Group                                  | Organism Name           | No. Positive | % of Strain |
|---|-------------------------|--------------|-------------|
| Citrobacter freundii complex n = 468            | Citrobacter freundii    | 7            | 1.5         |
| Citrobacter koseri, amalonaticus group n = 1343 | Citrobacter farmeri     | 1            | 0.1         |
|   | Citrobacter koseri      | 1            | 0.1         |
| Enterobacter cloacae complex n = 1599           | Enterobacter cloacae    | 33           | 2.1         |
|   | Enterobacter hormaechei | 1            | 0.1         |
| Escherichia spp n = 63055                       | Escherichia coli        | 2480         | 3.9         |
| Klebsiella aerogenes n = 990                    | Enterobacter aerogenes  | 5            | 0.5         |
| Klebsiella spp n = 7708                         | Klebsiella oxytoca      | 4            | 0.1         |
|   | Klebsiella pneumoniae   | 110          | 1.4         |
| Morganella spp n = 650                          | Morganella morganii     | 2            | 0.3         |
| Proteus mirabilis n = 2416                      | Proteus mirabilis       | 6            | 0.2         |
| Serratia spp n = 415                            | Serratia marcescens     | 3            | 0.7         |

## Urine: Plasmid mediated AMPC producing Enterobacterales (PAMP)

| Organism Group                                  | Organism Name         | No. Positive | % of Strain |
|---|-----------------------|--------------|-------------|
| Citrobacter koseri, amalonaticus group n = 1343 | Citrobacter koseri    | 1            | 0.1         |
| Escherichia spp n = 63055                       | Escherichia coli      | 1285         | 2.0         |
| Klebsiella spp n = 7708                         | Klebsiella oxytoca    | 2            | 0.0         |
|   | Klebsiella pneumoniae | 42           | 0.5         |
| Proteus mirabilis n = 2416                      | Proteus mirabilis     | 6            | 0.2         |

## Urine: Plasmid mediated Carbapenemase producing Enterobacterales (CPE)

# Community Antibioqram Jan - Dec 2018

| Organism Group                                  | Organism Name        | No. Positive | % of Strain |
|---|----------------------|--------------|-------------|
| Citrobacter freundii complex n = 468            | Citrobacter braakii  | 2            | 0.4         |
|   | Citrobacter freundii | 2            | 0.4         |
| Citrobacter koseri, amalonaticus group n = 1343 | Citrobacter koseri   | 1            | 0.1         |
| Enterobacter cloacae complex n = 1599           | Enterobacter cloacae | 3            | 0.2         |
| Escherichia spp n = 63055                       | Escherichia coli     | 5            | 0.0         |
| Klebsiella spp n = 7708                         | Klebsiella oxytoca   | 2            | 0.0         |

## Urine: Plasmid mediated Carbapenemase producing Non Enterobacterales (CPNE)

| Organism Group | Organism Name | No. Positive | % of Strain |
|----------------|---------------|--------------|-------------|
|----------------|---------------|--------------|-------------|

## Urine: Vancomycin Resistant Enterococci (VRE)

| Organism Group            | Organism Name                      | No. Positive | % of Strain |
|---------------------------|------------------------------------|--------------|-------------|
| Enterococcus spp n = 9692 | Enterococcus faecalis(VRE) - VAN-B | 1            | 0.0         |
|                           | Enterococcus faecium (VRE) - VAN-A | 7            | 0.1         |
|                           | Enterococcus faecium (VRE) - VAN-B | 15           | 0.2         |

## Urine: Methicillin Resistant Staphylococcus aureus (MRSA)

| Organism Group | Organism Name | No. Positive | % of Strain |
|----------------|---------------|--------------|-------------|
|----------------|---------------|--------------|-------------|



# Community Antibioqram Jan - Dec 2018

## Non-urine Antibioqram

All SNP Community

| Organism Group                              | No. Organisms | % Total    | Antibiotics |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |       |
|---|---------------|------------|-------------|-------------|----------------|-------------------------|-------------------------|-----------|-----------|-------------|-------------|----------|-----------|------------|----------|---------------------|-------------|---------------|--------------|------------|-------------------------|-----------------------------|--------------|-------------|---------------|-----------|---------------------------|------------|-------|
|   |               |            | Penicillin  | Amoxicillin | Flucloxacillin | Amoxicillin-clavulanate | Piperacillin-tazobactam | Cefalotin | Cefazolin | Ceftriaxone | Ceftazidime | Cefepime | Meropenem | Gentamicin | Amikacin | Sulpha-trimethoprim | Norfloxacin | Ciprofloxacin | Fusidic acid | Rifampicin | Gentamicin (High Level) | Erythromycin/Clarithromycin | Azithromycin | Clindamycin | Tetracyclines | Mupirocin | Quinupristin-dalfopristin | Vancomycin |       |
| <b>All isolates</b>                         | <b>73023</b>  | <b>100</b> |             |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |       |
| Staphylococcus aureus (ALL)                 | 41013         | 56.2       | % 19        |             | 89             | 89                      |                         | 89        |           |             |             |          |           |            |          | 98                  |             | 97            | 92           | 100        |                         | 82                          |              | 83          | 96            | 89        |                           | 100        |       |
|   |               |            | n 41011     |             | 41007          | 41010                   |                         | 41012     |           |             |             |          |           |            | 41013    | *                   | 37691       | 37711         | *            | 37698      |                         | 41009                       |              | 40993       | 41009         | *         | 37647                     | *          | 37700 |
| Pseudomonas aeruginosa                      | 8009          | 11.0       | %           | R           |                | R                       | 97                      |           | R         | R           | 98          | 98       | 98        | 97         | 97       | R                   | 95          |               |              |            |                         |                             |              | R           |               |           |                           |            |       |
|   |               |            | n           |             |                |                         | 7998                    |           |           |             | 7999        | 7660     | 8007      | 8009       | * 6191   |                     | 7998        |               |              |            |                         |                             |              |             |               |           |                           |            |       |
| β haemolytic Streptococci Group A           | 7095          | 9.7        | % 100       |             |                |                         |                         | 100       |           |             |             |          |           |            |          | 99                  |             |               |              | 99         |                         | 92                          |              | 93          | 87            |           |                           | 100        |       |
|   |               |            | n 7094      |             |                |                         |                         | 7055      |           | * 4664      |             |          |           |            | 7095     |                     |             |               | 1777         |            | 7088                    |                             | 7090         | 7092        |               |           | *                         | 4719       |       |
| Haemophilus influenzae                      | 4644          | 6.4        | %           | 68          |                | 86                      |                         |           |           |             | 77          |          |           |            |          | 72                  |             | 89            | R            |            |                         | R                           |              | 99          |               |           |                           |            |       |
|   |               |            | n           | 4642        |                | 4640                    |                         |           |           | *           | 13          |          |           |            | 4642     |                     | *           | 18            |              |            |                         |                             |              | 4642        |               |           |                           |            |       |
| β haemolytic Streptococci Other (nonA nonB) | 1968          | 2.7        | % 100       |             |                |                         |                         | 100       |           |             | 98          |          |           |            |          | 99                  |             |               |              | 100        |                         | 81                          |              | 81          | 71            |           |                           | 100        |       |
|   |               |            | n 1968      |             |                |                         |                         | 1939      |           | *           | 1100        |          |           |            | 1968     |                     |             |               | *            | 390        |                         | 1966                        |              | 1966        | 1967          |           | *                         | 1121       |       |
| Campylobacter spp                           | 1633          | 2.2        | %           |             |                |                         |                         |           |           |             |             |          |           |            |          |                     | 77          | R             |              |            |                         | 96                          | 96           | 82          |               | R         |                           |            |       |
|   |               |            | n           |             |                |                         |                         |           |           |             |             |          |           |            | 1633     |                     |             |               |              |            | 1633                    | 1633                        | 1633         | 1633        |               |           |                           |            |       |
| Streptococcus pneumoniae                    | 1394          | 1.9        | % 65        |             |                |                         |                         |           |           |             | 83          |          |           |            |          | 77                  |             |               |              | 100        |                         | 74                          |              | 79          | 77            |           |                           | 100        |       |
|   |               |            | n 1392      |             |                |                         |                         |           |           | *           | 922         |          |           |            | 1394     |                     |             | *             | 407          |            | 1392                    |                             | * 1288       | 1392        |               | *         | 1392                      | *          | 919   |
| Moraxella catarrhalis                       | 1344          | 1.8        | %           | 1           |                | 100                     |                         |           |           |             |             |          |           |            |          | 94                  |             |               |              |            |                         | 100                         |              | 100         |               |           |                           |            |       |
|   |               |            | n 1340      |             |                | 1344                    |                         |           |           |             |             |          |           |            | 1344     |                     |             |               |              |            | 1343                    |                             | 1344         |             |               |           |                           |            |       |
| Aeromonas spp                               | 1160          | 1.6        | %           | R           |                | 43                      | 91                      |           | R         | 99          |             | 100      | 75        | 100        | 100      | 98                  | 97          | 99            |              |            |                         |                             |              |             |               |           |                           |            |       |
|   |               |            | n           |             |                | * 555                   | * 1025                  |           |           | * 1083      |             | * 1045   | * 1037    | 1109       | * 975    | 1159                | * 1044      | * 1086        |              |            |                         |                             |              |             |               |           |                           |            |       |

# Community Antibioqram Jan - Dec 2018

## Non-urine Antibioqram

All SNP Community

| Organism Group                   | No. Organisms | %Total     | Antibiotics |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|----------------------------------|---------------|------------|-------------|-------------|----------------|-------------------------|-------------------------|-----------|-----------|-------------|-------------|----------|-----------|------------|----------|---------------------|-------------|---------------|--------------|------------|-------------------------|-----------------------------|--------------|-------------|---------------|-----------|---------------------------|------------|
|                                  |               |            | Penicillin  | Amoxicillin | Flucloxacillin | Amoxicillin-clavulanate | Piperacillin-tazobactam | Cefalotin | Cefazolin | Ceftriaxone | Ceftazidime | Cefepime | Meropenem | Gentamicin | Amikacin | Sulpha-trimethoprim | Norfloxacin | Ciprofloxacin | Fusidic acid | Rifampicin | Gentamicin (High Level) | Erythromycin/Clarithromycin | Azithromycin | Clindamycin | Tetracyclines | Mupirocin | Quinupristin-dalfopristin | Vancomycin |
| <b>All isolates</b>              | <b>73023</b>  | <b>100</b> |             |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| Salmonella spp                   | 832           | 1.1        | %           | 89          | 98             |                         |                         | 99        |           |             | 100         |          |           |            | 98       | 92                  | 95          |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                  |               |            | n           | 832         | * 765          |                         |                         | * 778     |           |             | * 775       |          |           |            | 832      | 829                 | * 779       |               |              |            |                         |                             |              |             |               |           |                           |            |
| Coagulase negative Staphylococci | 504           | 0.7        | %           | 38          | 83             | 83                      | 83                      |           | R         |             |             |          |           |            | 92       |                     | 96          | 92            | 99           |            | 78                      |                             | 87           | 81          |               |           | 100                       |            |
|                                  |               |            | n           | 502         | 502            | 502                     | 502                     |           |           |             |             |          |           |            | 503      |                     | * 478       | 479           | * 478        |            | 504                     |                             | 504          | 504         |               |           | * 478                     |            |
| viridans Streptococci            | 500           | 0.7        | %           | 96          |                |                         |                         | 98        |           |             | 89          |          |           |            | 94       |                     |             | R             |              | 100        | 78                      |                             | 87           | 64          |               |           | 100                       |            |
|                                  |               |            | n           | 499         |                |                         |                         | * 259     |           |             | * 239       |          |           |            | 256      |                     |             |               | * 10         | 497        |                         | 499                         | 500          |             |               | * 247     |                           |            |
| Escherichia spp                  | 411           | 0.6        | %           | 48          | 78             | 94                      | 94                      | 75        | 87        | 91          | 100         | 92       | 99        | 76         |          |                     | 83          |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                  |               |            | n           | 408         | 409            | 409                     | 410                     | 410       | 409       | 409         | 410         | 392      | 411       | 410        |          |                     | 410         |               |              |            |                         |                             |              |             |               |           |                           |            |
| Neisseria gonorrhoeae            | 236           | 0.3        | %           | 8           |                |                         |                         | 100       |           |             |             |          |           |            |          |                     | 71          |               |              |            |                         | 93                          |              |             |               |           |                           |            |
|                                  |               |            | n           | 236         |                |                         |                         | 234       |           |             |             |          |           |            |          |                     | 235         |               |              |            | * 217                   |                             |              |             |               |           |                           |            |
| Fastidious GNB†                  | 222           | 0.3        | %           | 97          | 99             | 100                     | 100                     | 100       | 100       | 97          | 100         | 88       |           | 100        | 100      |                     |             |               |              |            |                         |                             | 99           |             |               |           |                           |            |
|                                  |               |            | n           | * 132       | 221            | 218                     | * 33                    | * 55      | * 53      | * 38        | * 49        | * 41     |           | 220        | *        | 39                  |             |               |              |            |                         |                             | * 193        |             |               |           |                           |            |
| Klebsiella spp                   | 204           | 0.3        | %           | R           | 94             | 91                      | 83                      | 95        | 96        | 100         | 98          | 99       | 93        | 96         |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                  |               |            | n           |             | 204            | 201                     | 204                     | 203       | 201       | 202         | 204         | * 179    | 204       | 202        |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| Non fermenting GNB†              | 183           | 0.3        | %           | 3           | 63             | 91                      | 1                       | 37        | 35        | 84          | 27          | 28       | 90        | 54         |          |                     |             |               |              |            |                         |                             | 97           |             |               |           |                           |            |
|                                  |               |            | n           | 178         | * 142          | * 140                   | * 140                   | * 158     | * 134     | * 140       | * 142       | * 83     | 183       | 179        |          |                     |             |               |              |            |                         |                             | * 60         |             |               |           |                           |            |
| Stenotrophomonas maltophilia     | 175           | 0.2        | %           | R           | R              | R                       | R                       | R         |           | R           | R           | R        | 97        |            |          |                     |             |               |              |            |                         |                             | R            |             |               |           |                           |            |
|                                  |               |            | n           |             |                |                         |                         |           |           |             |             |          | 175       |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |

# Community Antibrogram Jan - Dec 2018

## Non-urine Antibigram

All SNP Community

| Organism Group                    | No. Organisms | % Total    | Antibiotics |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|-----------------------------------|---------------|------------|-------------|-------------|----------------|-------------------------|-------------------------|-----------|-----------|-------------|-------------|----------|-----------|------------|----------|---------------------|-------------|---------------|--------------|------------|-------------------------|-----------------------------|--------------|-------------|---------------|-----------|---------------------------|------------|
|                                   |               |            | Penicillin  | Amoxicillin | Flucloxacillin | Amoxicillin-clavulanate | Piperacillin-tazobactam | Cefalotin | Cefazolin | Ceftriaxone | Ceftazidime | Cefepime | Meropenem | Gentamicin | Amikacin | Sulpha-trimethoprim | Norfloxacin | Ciprofloxacin | Fusidic acid | Rifampicin | Gentamicin (High Level) | Erythromycin/Clarithromycin | Azithromycin | Clindamycin | Tetracyclines | Mupirocin | Quinupristin-dalfopristin | Vancomycin |
| <b>All isolates</b>               | <b>73023</b>  | <b>100</b> |             |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| Serratia spp                      | 163           | 0.2        | %           | R           | R              | 98                      | R                       | 96        | 98        | 99          | 98          | 96       | 99        |            | 96       |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                   |               |            | n           |             |                | 163                     |                         | 163       | 162       | 163         | 163         | 162      | 163       |            | 163      |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| Yersinia spp                      | 127           | 0.2        | %           | R           | R              | 95                      | R                       | 97        | 100       | 99          | 99          | 98       | 100       | 98         | 99       |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                   |               |            | n           |             |                | *                       |                         | *         | *         | *           | *           | *        | 127       | 127        | *        |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| Enterobacter cloacae complex      | 125           | 0.2        | %           | R           | R              | 86                      | R                       | 86        | 94        | 100         | 97          | 100      | 91        |            | 95       |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                   |               |            | n           |             |                | *                       |                         | 125       | 124       | 124         | 125         | *        | 125       |            | 123      |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| β haemolytic Streptococci Group B | 125           | 0.2        | %           | 100         |                |                         | 100                     | 100       |           |             |             |          | 99        |            |          |                     |             | 44            |              |            | 74                      | 79                          | 27           |             |               |           | 100                       |            |
|                                   |               |            | n           | 125         |                |                         | *                       | 93        |           |             |             |          | 124       |            |          |                     | *           | 32            |              | *          | 124                     | 124                         | 124          | 124         |               | *         | 97                        |            |
| Corynebacterium spp               | 118           | 0.2        | %           | 86          |                |                         | 94                      |           |           |             |             |          | 61        |            |          |                     |             |               |              |            | 43                      | 38                          | 100          |             |               |           | 100                       |            |
|                                   |               |            | n           | 118         |                |                         | *                       | 33        |           |             |             |          | 71        |            |          |                     |             |               |              | *          | 74                      | 117                         | 118          | 118         |               | *         | 74                        |            |
| Vibrio spp                        | 85            | 0.1        | %           | 18          | 88             | 100                     | 48                      | 99        | 100       | 100         | 100         |          | 98        |            | 100      |                     |             |               |              |            |                         |                             |              | 100         |               |           |                           |            |
|                                   |               |            | n           | 84          | *              | *                       | 25                      | *         | 75        | *           | *           | *        | 85        |            | 84       |                     |             |               |              |            |                         |                             |              | 85          |               |           |                           |            |
| Proteus mirabilis                 | 81            | 0.1        | %           | 94          | 96             | 100                     | 88                      | 100       | 100       | 100         | 96          | 100      | 90        |            | 94       |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                   |               |            | n           | 81          | 81             | 81                      | 81                      | 81        | 81        | 81          | 81          | 80       | 81        |            | 81       |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| Enterococcus spp                  | 81            | 0.1        | %           | 98          |                |                         | R                       | R         | R         | R           |             |          | R         |            |          |                     | R           | 20            | 62           | R          |                         | R                           | 23           |             | 11            | 96        |                           |            |
|                                   |               |            | n           | 80          |                |                         |                         |           |           |             |             |          |           |            |          |                     | *           | 15            | *            | 13         |                         |                             | 81           |             | *             | 78        |                           |            |
| Acinetobacter spp                 | 58            | 0.1        | %           | R           | R              | 84                      | R                       | R         | 83        | 95          | 100         | 98       | 98        | 97         | 98       |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|                                   |               |            | n           |             |                | 57                      |                         |           | *         | 52          | 57          | 58       | 58        | 58         | 58       |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |

# Community Antibrogram Jan - Dec 2018

## Non-urine Antibigram

All SNP Community

| Organism Group                         | No. Organisms | % Total    | Antibiotics |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
|--|---------------|------------|-------------|-------------|----------------|-------------------------|-------------------------|-----------|-----------|-------------|-------------|----------|-----------|------------|----------|---------------------|-------------|---------------|--------------|------------|-------------------------|-----------------------------|--------------|-------------|---------------|-----------|---------------------------|------------|
|  |               |            | Penicillin  | Amoxicillin | Flucloxacillin | Amoxicillin-clavulanate | Piperacillin-tazobactam | Cefalotin | Cefazolin | Ceftriaxone | Ceftazidime | Cefepime | Meropenem | Gentamicin | Amikacin | Sulpha-trimethoprim | Norfloxacin | Ciprofloxacin | Fusidic acid | Rifampicin | Gentamicin (High Level) | Erythromycin/Clarithromycin | Azithromycin | Clindamycin | Tetracyclines | Mupirocin | Quinupristin-dalfopristin | Vancomycin |
| <b>All isolates</b>                    | <b>73023</b>  | <b>100</b> |             |             |                |                         |                         |           |           |             |             |          |           |            |          |                     |             |               |              |            |                         |                             |              |             |               |           |                           |            |
| Pseudomonas spp                        | 57            | 0.1        | %           | R           |                | 2                       | 73                      |           | R         | 29          | 100         | 61       | 100       | 100        | 16       |                     | 100         |               |              |            |                         |                             |              |             |               |           |                           |            |
|  |               |            | n           |             |                | 56                      | 56                      |           |           | *           | *           | *        | 57        | *          | 56       |                     | 57          |               |              |            |                         |                             |              |             |               |           |                           |            |
| Nocardia spp                           | 57            | 0.1        | %           |             |                | 23                      |                         |           |           | 51          |             |          |           | 98         | 98       |                     | 12          |               |              |            |                         |                             |              |             |               |           |                           |            |
|  |               |            | n           |             |                | 57                      |                         |           |           | 57          |             |          |           | 57         | 56       |                     | 57          |               |              |            |                         |                             |              |             |               |           |                           |            |
| Corynebacterium diphtheriae            | 55            | 0.1        | %           | 33          |                |                         |                         |           | 100       |             |             |          |           |            | 96       |                     |             |               |              |            | 93                      |                             | 98           | 98          |               |           | 100                       |            |
|  |               |            | n           | 55          |                |                         |                         |           | *         |             |             |          |           | *          | 27       |                     |             |               |              | *          | 43                      |                             | *            | 51          | *             | 52        | *                         | 37         |
| Shigella spp                           | 44            | 0.1        | %           |             | 62             | 83                      | 100                     |           | 69        | 97          | 100         | 100      | 76        | 69         | 23       | 55                  | 60          |               |              |            |                         |                             |              |             |               |           |                           |            |
|  |               |            | n           |             | 42             | *                       | *                       |           | *         | *           | *           | *        | *         | *          | 44       | 44                  | *           |               |              |            |                         |                             |              |             |               |           |                           |            |
| Morganella spp                         | 40            | 0.1        | %           | R           |                | R                       | 98                      |           | R         | 100         | 97          | 100      | 98        | 100        | 90       |                     | 98          |               |              |            |                         |                             |              |             |               |           |                           |            |
|  |               |            | n           |             |                |                         | 40                      |           |           | 39          | 39          | 40       | 40        | *          | 40       |                     | 40          |               |              |            |                         |                             |              |             |               |           |                           |            |
| Klebsiella aerogenes                   | 37            | 0.1        | %           | R           |                | R                       | 100                     |           | R         | 100         | 100         | 100      | 100       | 100        | 100      |                     | 100         |               |              |            |                         |                             |              |             |               |           |                           |            |
|  |               |            | n           |             |                |                         | 37                      |           |           | 37          | 37          | 37       | 37        | *          | 37       |                     | 37          |               |              |            |                         |                             |              |             |               |           |                           |            |
| Citrobacter koseri, amalonaticus group | 35            | 0.0        | %           | R           |                | 97                      | 91                      |           | 97        | 100         | 100         | 100      | 100       | 100        | 100      |                     | 100         |               |              |            |                         |                             |              |             |               |           |                           |            |
|  |               |            | n           |             |                | 35                      | 34                      |           | 35        | 34          | 34          | 34       | 35        | 34         | 35       |                     | 34          |               |              |            |                         |                             |              |             |               |           |                           |            |

# Community Antibiogram Jan - Dec 2018

Signal Resistances: Where the tables below contain no data no multiresistant organisms have been detected.

## NonUrine: Extended spectrum beta lactamase producing Enterobacterales (ESBL)

| Organism Group                       | Organism Name         | No. Positive | % of Strain |
|--------------------------------------|-----------------------|--------------|-------------|
| Enterobacter cloacae complex n = 125 | Enterobacter cloacae  | 5            | 4.0         |
| Escherichia spp n = 411              | Escherichia coli      | 41           | 10.0        |
| Klebsiella spp n = 204               | Klebsiella oxytoca    | 1            | 0.5         |
|                                      | Klebsiella pneumoniae | 7            | 3.4         |
| Salmonella spp n = 832               | Salmonella species    | 5            | 0.6         |
| Serratia spp n = 163                 | Serratia marcescens   | 1            | 0.6         |
| Shigella spp n = 44                  | Shigella sonnei       | 1            | 2.3         |

## NonUrine: Plasmid mediated AMPC producing Enterobacterales (PAMP)

| Organism Group           | Organism Name         | No. Positive | % of Strain |
|--------------------------|-----------------------|--------------|-------------|
| Escherichia spp n = 411  | Escherichia coli      | 14           | 3.4         |
| Klebsiella spp n = 204   | Klebsiella pneumoniae | 1            | 0.5         |
| Proteus mirabilis n = 81 | Proteus mirabilis     | 1            | 1.2         |
| Salmonella spp n = 832   | Salmonella species    | 1            | 0.1         |

## NonUrine: Plasmid mediated Carbapenemase producing Enterobacterales (CPE)

| Organism Group       | Organism Name       | No. Positive | % of Strain |
|----------------------|---------------------|--------------|-------------|
| Serratia spp n = 163 | Serratia marcescens | 1            | 0.6         |

## NonUrine: Plasmid mediated Carbapenemase producing Non Enterobacterales (CPNE)

| Organism Group | Organism Name | No. Positive | % of Strain |
|----------------|---------------|--------------|-------------|
|----------------|---------------|--------------|-------------|

# Community Antibigram Jan - Dec 2018

| NonUrine: Vancomycin Resistant Enterococci (VRE) |                                    |              |             |
|--|------------------------------------|--------------|-------------|
| Organism Group                                   | Organism Name                      | No. Positive | % of Strain |
| Enterococcus spp n = 81                          | Enterococcus faecium (VRE) - VAN-A | 1            | 1.2         |

| NonUrine: Methicillin Resistant Staphylococcus aureus (MRSA) |                                     |              |             |
|--|-------------------------------------|--------------|-------------|
| Organism Group   | Organism Name                       | No. Positive | % of Strain |
| Staphylococcus aureus (ALL) n = 41010                        | S.aureus (non-multiresistant MRSA)  | 3954         | 9.6         |
|  | Staphylococcus aureus (MRSA)        | 124          | 0.3         |
|  | Staphylococcus aureus (UK EMRSA-15) | 283          | 0.7         |

| NonUrine: Streptococcus pneumoniae Penicillin Susceptibility (Non-meningitis breakpoints) |                            |     |             |
|---|----------------------------|-----|-------------|
| Organism Group  | MIC category               | No. | % of Strain |
| Streptococcus pneumoniae n = 1392   | Sensitive $\leq$ 0.06 mg/L | 905 | 65.0        |
|   | Intermediate 0.12 - 2 mg/L | 468 | 33.6        |
|   | Resistant > 2 mg/L         | 19  | 1.4         |

| NonUrine: Streptococcus pneumoniae Ceftriaxone Susceptibility |                           |     |             |
|---|---------------------------|-----|-------------|
| Organism Group  | MIC category              | No. | % of Strain |
| Streptococcus pneumoniae n = 1392                             | Sensitive $\leq$ 0.5 mg/L | 8   | 0.6         |
|   | Intermediate 1 - 2 mg/L   | 13  | 0.9         |
|   | Resistant > 2 mg/L        | 5   | 0.4         |



# Community Antibigram Jan - Dec 2018

## Blood Culture: Plasmid mediated AMPC producing Enterobacterales (PAMP)

| Organism Group         | Organism Name    | No. Positive | % of Strain |
|------------------------|------------------|--------------|-------------|
| Escherichia spp n = 38 | Escherichia coli | 1            | 2.6         |

## Blood Culture: Plasmid mediated Carbapenemase producing Enterobacterales (CPE)

| Organism Group | Organism Name | No. Positive | % of Strain |
|----------------|---------------|--------------|-------------|
|----------------|---------------|--------------|-------------|

## Blood Culture: Plasmid mediated Carbapenemase producing Non Enterobacterales (CPNE)

| Organism Group | Organism Name | No. Positive | % of Strain |
|----------------|---------------|--------------|-------------|
|----------------|---------------|--------------|-------------|

## Blood Culture: Vancomycin Resistant Enterococci (VRE)

| Organism Group | Organism Name | No. Positive | % of Strain |
|----------------|---------------|--------------|-------------|
|----------------|---------------|--------------|-------------|

## Blood Culture: Methicillin Resistant Staphylococcus aureus (MRSA)

| Organism Group                     | Organism Name                      | No. Positive | % of Strain |
|------------------------------------|------------------------------------|--------------|-------------|
| Staphylococcus aureus (ALL) n = 19 | S.aureus (non-multiresistant MRSA) | 1            | 5.3         |



# Community Antibioqram Jan - Dec 2018

## Blood Culture: Streptococcus pneumoniae Penicillin Susceptibility (Non-meningitis breakpoints)

## Blood Culture: Streptococcus pneumoniae Ceftriaxone Susceptibility

| Organism Group                 | MIC category              | No. | % of Strain |
|--------------------------------|---------------------------|-----|-------------|
| Streptococcus pneumoniae n = 1 | Sensitive $\leq$ 0.5 mg/L | 1   | 100.0       |

## Blood Culture: Streptococcus alpha haem (viridans Streptococci) Penicillin Susceptibility

| Organism Group               | MIC category               | No. | % of Strain |
|------------------------------|----------------------------|-----|-------------|
| viridans Streptococci n = 10 | Sensitive $\leq$ 0.06 mg/L | 10  | 100.0       |

† Miscellaneous organism groupings detail [report](#).