

| ARH site<br><br>2015 and 2016<br>ANTIBIOGRAM<br>ICU and HAU<br>(% Susceptible <sup>a</sup> ) |  | GRAM POSITIVE                                 |   |   | GRAM NEGATIVE                              |                         |   |  |
|--|--|---|---|---|--|-------------------------|---|--|
|  |  | <i>Staphylococcus aureus</i><br>(MSSA + MRSA) | MRSA (Methicillin Resistant<br><i>Staph. aureus</i> ) | MSSA (Methicillin Susceptible<br><i>Staph. aureus</i> ) | <i>Enterobacter cloacae</i> <sup>b,g</sup> | <i>Escherichia coli</i> | <i>Klebsiella pneumoniae</i> <sup>g</sup> | <i>Pseudomonas aeruginosa</i> <sup>g</sup> |
| Number of Isolates   |  | 91  | 35  | 56  | 14   | 47                      | 26  | 28   |
| Penicillins  | Cloxacillin                                      | 62  | R   | 100   | R  | R                       | R   | R  |
|  | Penicillin (IV)                                  | N   | R   | N   | R  | R                       | R   | R  |
|  | Penicillin (Oral)                                |   |   |   |  |                         |   |  |
|  | Ampicillin/Amoxicillin                           | N   | R   | N   | R  | 36                      | R   | R  |
|  | Amoxicillin-Clavulanate                          |   | R   |   | R  | 79                      | 85  | R  |
|  | Piperacillin-Tazobactam                          |   | R   |   | N  | 92                      | 85  | 75   |
| Cephalosporins   | Cephalexin - 1st gen                             | 62  | R   | 100   | R  | 47 <sup>e</sup>         | 81 <sup>e</sup>                           | R  |
|  | Cefazolin <sup>c</sup> - 1st gen                 | 62  | R   | 100   | R  | 68                      | 81  | R  |
|  | Cefuroxime - 2nd gen                             |   |   |   | R  |                         |   | R  |
|  | Cefixime - 3rd gen                               |   | R   |   | N  | 79                      | 81  | R  |
|  | Cefotaxime / Ceftriaxone - 3rd gen               |   | R   |   | N  | 83                      | 81  | R  |
|  | Ceftazidime - 3rd gen                            |   | R   |   | N  |                         |   | 75   |
| Carbapenems  | Ertapenem - restricted                           |   | R   |   | 93   | 99                      | 92  | R  |
|  | Imipenem - restricted                            |   | R   |   |  |                         |   | 64   |
|  | Meropenem - restricted                           |   | R   |   | 99   | 99                      | 92  | 64   |
| AMGs   | Gentamicin                                       | N   | N   | N   | 100  | 83                      | 92  | 86   |
|  | Tobramycin                                       | N   | N   | N   | 100  | 77                      | 92  | 96   |
|  | Amikacin   | N   | N   | N   | 100  | 98                      | 96  | 96   |
| FQs  | Ciprofloxacin                                    | N   | N   | N   | 93   | 60                      | 92  | 86   |
|  | Levofloxacin                                     |   |   |   |  |                         |   |  |
|  | Moxifloxacin                                     | N   | N   | N   | N  | N                       | N   | N  |
| Miscellaneous  | Erythromycin <sup>f</sup>                        | 54  | 6   | 84  | R  | R                       | R   | R  |
|  | Clindamycin                                      | 62  | 23  | 86  | R  | R                       | R   | R  |
|  | Doxycycline                                      | 100   | 100   | 100   |  |                         |   | R  |
|  | Linezolid - restricted                           | 100   | 100   |   | R  | R                       | R   | R  |
|  | Metronidazole                                    | R   | R   | R   | R  | R                       | R   | R  |
|  | Nitrofurantoin-simple cystitis only <sup>e</sup> | 98  | 97  | 98  | 21   | 87                      | 31  | R  |
|  | TMP-SMX or Cotrimoxazole                         | 98  | 97  | 98  | 93   | 77                      | 89  | R  |
|  | Vancomycin                                       | 100 <sup>d</sup>                              | 100 <sup>d</sup>                                      | 100 <sup>d</sup>  | R  | R                       | R   | R  |

This susceptibility chart is provided as a guide to empiric therapy until culture and susceptibility results are available.

**KEY**

- R = Intrinsically resistant
- = Susceptibility not tested
- N = Not recommended
- ☺ = Synergy with ampicillins or vancomycin

**NOTES:**

- a. This antibiogram includes only the first isolate of a specific organism from any patient.
- b. *Enterobacter* carries inducible cephalosporinases (AmpC) that cause *in-vivo* resistance to 3rd generation cephalosporins.
- c. Interpretation based on dose of cefazolin 2g IV q8h.
- d. Some *S. aureus* isolates with an MIC of 2 will be interpreted as susceptible but may result in clinical failure.
- e. For urinary tract isolates only.
- f. Susceptibility to erythromycin for these organisms is the same as for azithromycin/ clarithromycin.
- g. Calculated from fewer than the standard recommendation of a minimum of 30 isolates.

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