

THE MOUNT SINAI HOSPITAL  
2020 ADULT EMERGENCY DEPARTMENT GRAM-NEGATIVE ISOLATES (PERCENT SUSCEPTIBLE OF INITIAL ISOLATES)

| ADULT ED<br>GRAM-NEGATIVE<br><i>n</i>                   |      | Aminoglycosides |                       | Cephalosporins |                                |             |                          |                       | Other Beta-Lactams |                      |                                      |                        |                        | Other Mech. Of Action |                           |                            |                             |                               |
|---|------|-----------------|-----------------------|----------------|--------------------------------|-------------|--------------------------|-----------------------|--------------------|----------------------|--------------------------------------|------------------------|------------------------|-----------------------|---------------------------|----------------------------|-----------------------------|-------------------------------|
|   |      | Gentamicin      | Amikacin <sup>a</sup> | Cefazolin      | Cefazolin (Urine) <sup>c</sup> | Ceftriaxone | Ceftazidime <sup>a</sup> | Cefepime <sup>a</sup> | Ampicillin         | Ampicillin-sulbactam | Piperacillin-tazobactam <sup>a</sup> | Ertapenem <sup>a</sup> | Meropenem <sup>a</sup> | Imipenem <sup>a</sup> | Levofloxacin <sup>f</sup> | Ciprofloxacin <sup>f</sup> | Nitrofurantoin <sup>b</sup> | Trimethoprim-sulfamethoxazole |
| <i>Escherichia coli</i>                                 | 1023 | 87              | 100                   | 72             | 81                             | 86          | 92                       | 96                    | 45                 | 55                   | 94                                   | 100                    |                        | 100                   | <u>54</u>                 | <u>59</u>                  | 96                          | 67                            |
| <i>Klebsiella pneumoniae</i>                            | 312  | 86              | 99                    | 74             | 76                             | 78          | 81                       | 91                    |                    | 70                   | 90                                   | 99                     |                        | 98                    | <u>69</u>                 | <u>69</u>                  | 38                          | 75                            |
| <i>Proteus mirabilis</i>                                | 150  | 87              | 98                    | <u>60</u>      | <u>73</u>                      | 78          | 85                       | <u>86</u>             | 58                 | 76                   | 85                                   | 99                     |                        | 17 <sup>d</sup>       | <u>63</u>                 | <u>62</u>                  |                             | 73                            |
| <i>Pseudomonas aeruginosa</i>                           | 130  | 91              | 98                    |                |                                |             | 89                       | 92                    |                    |                      | 90                                   |                        | 89                     | 88                    | 76                        | 81                         |                             |                               |
| <i>Enterobacter cloacae</i>                             | 65   | 94              | 100                   |                |                                | 72          | 77                       | <u>88</u>             |                    |                      | <u>78</u>                            | 90                     |                        | 98                    | 84                        | 86                         | 44                          | 82                            |
| <i>Citrobacter koseri</i> <sup>e</sup>                  | 60   | 100             | 100                   |                |                                | 95          | 95                       | 98                    |                    |                      | 97                                   | 100                    |                        | 100                   | 98                        | 98                         |                             | 98                            |
| <i>Klebsiella oxytoca</i> <sup>e</sup>                  | 59   | 93              | 100                   |                |                                | 88          | 93                       | 97                    |                    |                      | 92                                   | 100                    |                        | 97                    | 93                        | 93                         |                             | 88                            |
| <i>Acinetobacter baumannii</i> <sup>e</sup>             | 50   | 86              |                       |                |                                |             | 72                       |                       |                    | 78                   |                                      |                        |                        | 70                    | 66                        | 64                         |                             | 65                            |
| <i>Klebsiella (Enterobacter) aerogenes</i> <sup>e</sup> | 44   | 98              | 100                   |                |                                | <u>77</u>   | 84                       | 98                    |                    |                      | 84                                   | 100                    |                        | 89                    | 85                        | 88                         |                             | 91                            |
| <i>Morganella morganii</i>                              | 34   | <u>74</u>       | 97                    |                |                                | <u>67</u>   | <u>76</u>                | <u>82</u>             |                    |                      | 94                                   | 97                     |                        | 42 <sup>d</sup>       | <u>52</u>                 | <u>49</u>                  |                             | <u>48</u>                     |

Underlined values represent a 10% or greater decrease in susceptibility compared with 2019

a Use only when organism is resistant to narrower spectrum agents

b Urinary tract isolates only

c CLSI breakpoints for Cefazolin and *Enterobacteriaceae* in uncomplicated UTIs are higher than the breakpoints for other types of infections

d Unclear if clinically significant – may have higher MIC to imipenem; could consider ertapenem or meropenem instead

e Percent susceptible based on two years of data combined (2019 and 2020)

f Revised 2019 breakpoints for *Enterobacteriaceae* used, resulting in expected decrease in susceptibility compared to 2019