Supplemental Table 1. 28-day Represcription and hospitalization rates by pathogen and antibiotic received

| Antibiotic class / Pathogen | Frequency (%) | Non-susceptible to class N = 5395 % (n) | 28-day Represcription n/N (%) | Hospitalizations\(^b\) n/N (%) |
|-----------------------------|--------------|----------------------------------------|------------------------------|-------------------------------|
|                             |              | Non-susceptible                      | Susceptible                  | Non-susceptiblea              | Susceptible                  | Non-susceptible |
| All Empiric Treatments Received |             |                                        |                              |                               |                              |                |
| Overall                     |              | 802/4237 (18.9)                       | 397/1158 (34.3)             | 351/4237 (8.3)                | 176/1158 (15.2)              |
| *Escherichia coli*         | 4,081 (75.6%)| 556/3197 (17.4%)                      | 302/884 (34.2%)            | 218/3107 (7.0%)              | 120/884 (13.6%)             |
| *Klebsiella pneumoniae*    | 733 (13.6%)  | 148/598 (24.7%)                       | 51/135 (37.8%)             | 78/598 (13.0%)               | 25/135 (18.5%)              |
| *Proteus mirabilis*        | 284 (5.3%)   | 45/214 (21.0%)                        | 25/70 (35.7%)              | 22/214 (10.3%)               | 15/70 (21.4%)               |
| Other\(^c\)               | 297 (5.5%)   | 53/228 (23.3%)                        | 20/69 (29.0%)              | 28/228 (12.3%)               | 16/69 (23.2%)               |
| Fluoroquinolone            |              | 22.8 (1232)                           | 237/1483 (16.0)            | 140/390 (35.9)               | 130/1483 (8.8)              | 65/390 (16.7)  |

\(^a\) Includes non-susceptible *Escherichia coli*, *Klebsiella pneumoniae*, and *Proteus mirabilis*

\(^b\) Susceptible comparison only

\(^c\) Includes *Non-susceptible* and *Other* pathogens
| Organism                        |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|
|                                 | 70.7 | 27.2 | 126/979 (12.9) | 128/345 (37.1) | 59/979 (6.0) | 53/345 (15.4) |
| *Escherichia coli*              | 16.2 | 6.8 (50) | 68/288 (23.6) | 3/16 (18.8) | 40/288 (13.9) | 3/16 (18.8) |
| *Klebsiella pneumoniae*         | 5.5 | 18.7 (53) | 12/83 (14.5) | 7/20 (35.0) | 12/83 (14.5) | 6/20 (30.0) |
| Otherc                          | 7.6 | 6.1 (18) | 31/133 (23.3) | 2/9 (22.2) | 19/133 (14.3) | 3/9 (33.3) |
| **ESBL+/β-lactam**              | 100.0 | 6.6 (356) | 224/980 (22.9) | 91/329 (27.7) | 81/980 (8.3) | 48/329 (14.6) |
| ESBL+                           | 100.0 | 6.6 (356) | 224/980 (22.9) | 91/329 (27.7) | 81/980 (8.3) | 48/329 (14.6) |
| β-lactam                        | 329/1309 (25.1) |  |  |  |  |  |
| *Escherichia coli*              | 76.1 | 7.4 (303) | 152/737 (20.6) | 71/259 (27.4) | 46/737 (6.2) | 28/259 (10.8) |
| *Klebsiella pneumoniae*         | 13.6 | 6.0 (44) | 48/149 (32.2) | 11/29 (37.9) | 22/149 (14.8) | 8/29 (27.6) |
| *Proteus mirabilis*             | 7.0 | 2.5 (7) | 21/79 (26.6) | 2/12 (16.7) | 11/79 (13.9) | 3/12 (25.0) |
| Otherc                          | 3.4 | 0.7 (2) | 3/15 (20.0) | 7/29 (24.1) | 2/15 (13.3) | 9/29 (31.0) |
| **Trimethoprim-sulfamethoxazole** | 100.0 | 27.6 (1491) | 134/753 (17.8) | 106/288 (36.8) | 71/753 (9.4) | 45/288 (15.6) |
| Pathogen                  | Resistance (%) | 214/1055 (20.3) | 64/173 (37.0) | 73/1055 (6.9) | 23/173 (13.3) |
|--------------------------|----------------|------------------|---------------|---------------|---------------|
| **Escherichia coli**     | 76.9           | 32.6 (1,330)     | 87/536 (16.2) | 98/265 (37.0) | 47/536 (8.8)  |
| **Klebsiella pneumoniae**| 11.9           | 12.6 (92)        | 21/112 (18.8) | 5/12 (41.7)   | 13/112 (11.6) |
| **Proteus mirabilis**    | 6.0            | 15.8 (45)        | 12/53 (22.6)  | 2/9 (22.2)    | 4/53 (7.5)    |
| **Other**                | 5.2            | 8.1 (24)         | 14/52 (26.9)  | 1/2 (50.0)    | 7/52 (13.5)   |

**Nitrofurantoin**

| Pathogen                  | Resistance (%) | 214/1055 (20.3) | 64/173 (37.0) | 73/1055 (6.9) | 23/173 (13.3) |
|--------------------------|----------------|------------------|---------------|---------------|---------------|
| **Escherichia coli**     | 81.7           | 3.4 (138)        | 197/971 (20.3) | 9/32 (28.1)   | 66/971 (6.8)  |
| **Klebsiella pneumoniae**| 10.9           | 58.3 (427)       | 12/55 (21.8)  | 32/79 (40.5)  | 6/55 (10.9)   |
| **Proteus mirabilis**    | 2.6            | 53.5 (152)       | -             | 13/32 (40.6)  | -             |
| **Other**                | 4.8            | 47.1 (140)       | 5/29 (17.2)   | 10/30 (33.3)  | 1/29 (3.4)    |

**Fosfomycin**

| Pathogen                  | Resistance (%) | 0/1 (0.0) | - | 0/1 (0.0) | - |
|--------------------------|----------------|-----------|---|-----------|---|
| **Overall**              | N/A            | N/A       |   | N/A       |   |
| **Klebsiella pneumoniae**| N/A            | 0/1 (0.0) | - | 0/1 (0.0) | - |