Table S1. Distribution (number of isolates) of minimum inhibitory concentrations (MICs) for *Escherichia coli* in swine across all sampling events. Rⱡ: CLSI breakpoints are not established for azithromycin and E. coli; interpretive standards used are NARMS-established breakpoints.
for resistance monitoring and should not be used to predict clinical efficacy. *: Final dilution tested was >16 corresponding with ≥32. **: Final dilution tested was >256 corresponding with ≥512.
Table S2. Distribution (number of isolates) of minimum inhibitory concentrations (MICs) for *Enterococcus sp.* in swine across all sampling events.

| Antimicrobial agent | % AMR | Total | Range of dilution tested |
|---------------------|-------|-------|--------------------------|
|                     |       |       |                          |
| Chloramphenicol     | 0.0   | 100   | 2-32                     |
| Ciprofloxacin       | 17.0  | 100   | 0.12 - 4                 |
| Daptomycin          | 5.0   | 100   | 0.25 - 8                 |
| Erythromycin        | 44.0  | 100   | 0.12 - 16                |
| Gentamicin          | 1.0   | 100   | 0.25 - 8                 |
| Kanamycin           | 8.0   | 100   | 1.0 - 16                 |
| Lincomycin          | 96.0  | 100   | 0.25 - 8                 |
| Linezostatin        | 0.0   | 100   | 0.5 - 8                  |
| Nitrofurantoin      | 4.0   | 100   | 0.25 - 16                |
| Penicillin          | 1.0   | 100   | 0.25 - 8                 |
| Quinupristin/Gentefolin | 55.0 | 100   | 0.5 - 32                |
| Streptogramin       | 9.0   | 100   | 0.12 - 4                 |
| Tetracycline        | 72.0  | 100   | 1-32                     |
| Tigecycline         | 1.0   | 100   | 0.015 - 0.5              |
| Tylosin             | 41.0  | 100   | 0.25 - 32                |
| Vancomycin          | 0.0   | 100   | 0.25 - 32                |

**Minimal Group**

| Antimicrobial agent | % AMR | Total | Range of dilution tested |
|---------------------|-------|-------|--------------------------|
| Chloramphenicol     | 1.1   | 92    | 2-32                     |
| Ciprofloxacin       | 6.5   | 92    | 0.12 - 4                 |
| Daptomycin          | 4.3   | 92    | 0.25 - 16                |
| Erythromycin        | 47.8  | 92    | 0.25 - 8                 |
| Gentamicin          | 3.3   | 92    | 1.0 - 16                 |
| Kanamycin           | 17.4  | 92    | 0.25 - 16                |
| Lincomycin          | 93.5  | 92    | 1.0 - 16                 |
| Linezostatin        | 0.0   | 92    | 0.5 - 8                  |
| Nitrofurantoin      | 11.9  | 92    | 2-64                     |
| Penicillin          | 11.1  | 92    | 0.25 - 16                |
| Quinupristin/Gentefolin | 50.0 | 92    | 0.5 - 32                |
| Streptogramin       | 17.4  | 92    | 0.12 - 4                 |
| Tetracycline        | 72.8  | 92    | 1-32                     |
| Tigecycline         | 0.0   | 92    | 0.015 - 0.5              |
| Tylosin             | 44.6  | 92    | 0.25 - 32                |
| Vancomycin          | 0.0   | 92    | 0.25 - 32                |

**Moderate Group**

| Antimicrobial agent | % AMR | Total | Range of dilution tested |
|---------------------|-------|-------|--------------------------|
| Chloramphenicol     | 0.0   | 100   | 2-32                     |
| Ciprofloxacin       | 6.0   | 100   | 0.12 - 4                 |
| Daptomycin          | 1.0   | 100   | 0.25 - 16                |
| Erythromycin        | 48.0  | 100   | 0.25 - 8                 |
| Gentamicin          | 6.0   | 100   | 0.25 - 16                |
| Kanamycin           | 12.0  | 100   | 0.25 - 16                |
| Lincomycin          | 94.0  | 100   | 1.0 - 16                 |
| Linezostatin        | 0.0   | 100   | 0.5 - 8                  |
| Nitrofurantoin      | 4.0   | 100   | 2-64                     |
| Penicillin          | 5.0   | 100   | 0.25 - 16                |
| Quinupristin/Gentefolin | 51.0 | 100   | 0.5 - 32                |
| Streptogramin       | 14.0  | 100   | 1-32                     |
| Tetracycline        | 85.0  | 100   | 0.015 - 0.5              |
| Tigecycline         | 0.0   | 100   | 0.25 - 32                |
| Tylosin             | 49.0  | 100   | 0.25 - 32                |
| Vancomycin          | 0.0   | 100   | 0.25 - 32                |
| Bacteria | Antimicrobial       | Group | Week | N  | Proportion Resistant | Lower CI | Upper CI |
|----------|---------------------|-------|------|----|----------------------|----------|----------|
| E. coli  | Amoxicillin /       | Min   | 1    | 12 | 16.6%                | 2.0%     | 48.4%    |
|          | Clavulonic Acid     |       |      |    |                      |          |          |
| E. coli  | Ampicillin          | Min   | 1    | 12 | 33.3%                | 9.9%     | 65.1%    |
|          |                     | Min   | 6    | 11 | 36.3%                | 10.9%    | 69.2%    |
|          |                     | Min   | 7    | 12 | 41.6%                | 15.1%    | 72.3%    |
|          |                     | Min   | 8    | 12 | 41.6%                | 15.1%    | 72.3%    |
|          |                     | Min   | 9    | 11 | 18.1%                | 2.2%     | 51.7%    |
|          |                     | Min   | 10   | 12 | 25.0%                | 5.4%     | 57.1%    |
|          |                     | Min   | 11   | 11 | 27.2%                | 6.0%     | 60.9%    |
|          |                     | Min   | 14   | 12 | 16.6%                | 2.0%     | 48.4%    |
|          |                     | Min   | 25   | 12 | 16.6%                | 2.0%     | 48.4%    |
|          |                     | Mod   | 1    | 12 | 41.6%                | 15.1%    | 72.3%    |
|          |                     | Mod   | 6    | 9  | 55.5%                | 21.2%    | 86.3%    |
|          |                     | Mod   | 7    | 12 | 58.3%                | 27.6%    | 84.8%    |
|          |                     | Mod   | 8    | 11 | 45.4%                | 16.7%    | 76.6%    |
|          |                     | Mod   | 9    | 11 | 54.5%                | 23.3%    | 83.2%    |
|          |                     | Mod   | 10   | 12 | 58.3%                | 27.6%    | 84.8%    |
|          |                     | Mod   | 11   | 10 | 50.0%                | 18.7%    | 81.2%    |
|          |                     | Mod   | 14   | 12 | 41.6%                | 15.1%    | 72.3%    |
| E. coli     | Ampicillin | Mod | 25 | 12 | 25.0% | 5.4% | 5.7% |
|------------|------------|-----|----|----|-------|------|------|
|            | Int        | 1   | 9  |    | 44.4% | 13.7%| 78.8%|
|            | Int        | 6   | 11 |    | 36.3% | 10.9%| 69.2%|
|            | Int        | 7   | 11 |    | 45.4% | 16.7%| 76.6%|
|            | Int        | 8   | 11 |    | 18.1% | 2.2% | 51.7%|
|            | Int        | 9   | 12 |    | 8.3%  | 0.2% | 38.4%|
|            | Int        | 10  | 12 |    | 50.0% | 21.0%| 78.9%|
|            | Int        | 11  | 11 |    | 36.3% | 10.9%| 69.2%|
|            | Int        | 14  | 12 |    | 33.3% | 9.9% | 65.1%|
|            | Int        | 25  | 12 |    | 50.0% | 21.0%| 78.9%|

| E. coli     | Azithromycin | Min | 1  | 12 | 0%   | 0%  | 26.5% |
|------------|---------------|-----|----|----|------|------|-------|
|            | Min           | 6   | 11 |    | 0%   | 0%  | 28.5% |
|            | Min           | 7   | 12 |    | 0%   | 0%  | 26.5% |
|            | Min           | 8   | 12 |    | 0%   | 0%  | 26.5% |
|            | Min           | 9   | 11 |    | 0%   | 0%  | 28.5% |
|            | Min           | 10  | 12 |    | 0%   | 0%  | 26.5% |
|            | Min           | 11  | 11 |    | 0%   | 0%  | 28.5% |
|            | Min           | 14  | 12 |    | 0%   | 0%  | 26.5% |
|            | Min           | 25  | 12 |    | 0%   | 0%  | 26.5% |
|            | Mod           | 1   | 12 |    | 0%   | 0%  | 26.5% |
|            | Mod           | 6   | 9  |    | 0%   | 0%  | 33.6% |
|            | Mod           | 7   | 12 |    | 0%   | 0%  | 26.5% |
|            | Mod           | 8   | 11 |    | 0%   | 0%  | 28.5% |
|            | Mod           | 9   | 11 |    | 0%   | 0%  | 28.5% |
|            | Mod           | 10  | 12 |    | 0%   | 0%  | 26.5% |
|            | Mod           | 11  | 10 |    | 0%   | 0%  | 30.8% |
|            | Mod           | 14  | 12 |    | 0%   | 0%  | 26.5% |
|            | Mod           | 25  | 12 |    | 0%   | 0%  | 26.5% |
|            | Int           | 1   | 9  |    | 0%   | 0%  | 33.6% |
|            | Int           | 6   | 11 |    | 0%   | 0%  | 28.5% |
|            | Int           | 7   | 11 |    | 0%   | 0%  | 28.5% |
|            | Int           | 8   | 11 |    | 9.0%  | 0.2% | 41.2% |
|            | Int           | 9   | 12 |    | 0%   | 0%  | 26.5% |
|            | Int           | 10  | 12 |    | 0%   | 0%  | 26.5% |
|            | Int           | 11  | 11 |    | 0%   | 0%  | 28.5% |
|            | Int           | 14  | 12 |    | 0%   | 0%  | 26.5% |
|            | Int           | 25  | 12 |    | 0%   | 0%  | 26.5% |

| E. coli     | Cefoxitin | Min | 1   | 12 | 16.6%| 2.0% | 48.4% |
|------------|----------|-----|----|----|------|------|-------|
|            | Min      | 6   | 11 |    | 9.0% | 0.2% | 41.2% |
|            | Min      | 7   | 12 |    | 0%   | 0%  | 26.5% |
|            | Min      | 8   | 12 |    | 0%   | 0%  | 26.5% |
|            | Min      | 9   | 11 |    | 9.0% | 0.2% | 41.2% |
|            | Min      | 10  | 12 |    | 0%   | 0%  | 26.5% |
|            | Min      | 11  | 11 |    | 0%   | 0%  | 28.5% |
|            | Min      | 14  | 12 |    | 0%   | 0%  | 26.5% |
|            | Min      | 25  | 12 |    | 0%   | 0%  | 26.5% |
|            | Mod      | 1   | 12 |    | 0%   | 0%  | 26.5% |
|        | Cefoxitin | Mod 6 | 9 | 0%  | 0%  | 33.6% |
|--------|-----------|-------|---|-----|-----|-------|
| E. coli|           |       |   |     |     |       |
| (continued) |         |       |   |     |     |       |
|        |           | Mod 7 | 12 | 0%  | 0%  | 26.5% |
|        |           | Mod 8 | 11 | 0%  | 0%  | 28.5% |
|        |           | Mod 9 | 11 | 0%  | 0%  | 28.5% |
|        |           | Mod 10| 12 | 0%  | 0%  | 26.5% |
|        |           | Mod 11| 10 | 0%  | 0%  | 30.8% |
|        |           | Mod 14| 12 | 0%  | 0%  | 26.5% |
|        |           | Mod 25| 12 | 0%  | 0%  | 26.5% |
|        |           | Int 1 | 9  | 0%  | 0%  | 33.6% |
|        |           | Int 6 | 11 | 0%  | 0%  | 28.5% |
|        |           | Int 7 | 11 | 0%  | 0%  | 28.5% |
|        |           | Int 8 | 11 | 0%  | 0%  | 28.5% |
|        |           | Int 9 | 12 | 0%  | 0%  | 26.5% |
|        |           | Int 10| 12 | 0%  | 0%  | 26.5% |
|        |           | Int 11| 11 | 0%  | 0%  | 28.5% |
|        |           | Int 14| 12 | 0%  | 0%  | 26.5% |
|        |           | Int 25| 12 | 8.3%| 0.2%| 38.4% |

|        | Ceftiofur | Min 1 | 12 | 16.6%| 2.0%| 48.4% |
|--------|-----------|-------|-----|------|-----|-------|
| E. coli|           | Min 6 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 7 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 8 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 9 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 11| 11 | 0%   | 0%  | 28.5% |
|        |           | Min 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 25| 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 1 | 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 6 | 9  | 0%   | 0%  | 33.6% |
|        |           | Mod 7 | 12 | 0%   | 0%  | 28.5% |
|        |           | Mod 8 | 11 | 0%   | 0%  | 28.5% |
|        |           | Mod 9 | 11 | 0%   | 0%  | 28.5% |
|        |           | Mod 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 11| 10 | 0%   | 0%  | 30.8% |
|        |           | Mod 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 25| 12 | 0%   | 0%  | 26.5% |
|        |           | Int 1 | 9  | 0%   | 0%  | 33.6% |
|        |           | Int 6 | 11 | 0%   | 0%  | 28.5% |
|        |           | Int 7 | 11 | 0%   | 0%  | 28.5% |
|        |           | Int 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Int 11| 11 | 0%   | 0%  | 28.5% |
|        |           | Int 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Int 25| 12 | 8.3%| 0.2%| 38.4% |

|        | Ceftriaxone| Min 1 | 12 | 16.6%| 2.0%| 48.4% |
|--------|------------|-------|-----|------|-----|-------|
| E. coli|           | Min 6 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 7 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 8 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 9 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 11| 11 | 0%   | 0%  | 28.5% |
|        |           | Min 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 25| 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 1 | 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 6 | 9  | 0%   | 0%  | 33.6% |
|        |           | Mod 7 | 12 | 0%   | 0%  | 28.5% |
|        |           | Mod 8 | 11 | 0%   | 0%  | 28.5% |
|        |           | Mod 9 | 11 | 0%   | 0%  | 28.5% |
|        |           | Mod 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 11| 10 | 0%   | 0%  | 30.8% |
|        |           | Mod 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Mod 25| 12 | 0%   | 0%  | 26.5% |
|        |           | Int 1 | 9  | 0%   | 0%  | 33.6% |
|        |           | Int 6 | 11 | 0%   | 0%  | 28.5% |
|        |           | Int 7 | 11 | 0%   | 0%  | 28.5% |
|        |           | Int 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Int 11| 11 | 0%   | 0%  | 28.5% |
|        |           | Int 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Int 25| 12 | 8.3%| 0.2%| 38.4% |

|        | Ceftriaxone| Min 1 | 12 | 16.6%| 2.0%| 48.4% |
|--------|------------|-------|-----|------|-----|-------|
| E. coli|           | Min 6 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 7 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 8 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 9 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 11| 11 | 0%   | 0%  | 28.5% |
|        |           | Min 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 25| 12 | 0%   | 0%  | 26.5% |

|        | Ceftriaxone| Min 1 | 12 | 16.6%| 2.0%| 48.4% |
|--------|------------|-------|-----|------|-----|-------|
| E. coli|           | Min 6 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 7 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 8 | 12 | 0%   | 0%  | 26.5% |
|        |           | Min 9 | 11 | 9.0% | 0.2%| 41.2% |
|        |           | Min 10| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 11| 11 | 0%   | 0%  | 28.5% |
|        |           | Min 14| 12 | 0%   | 0%  | 26.5% |
|        |           | Min 25| 12 | 0%   | 0%  | 26.5% |
| E. coli  | Ceftriaxone (continued) | Min  | 8  | 12 | 0% | 0% | 26.5% |
|---------|-------------------------|------|----|----|----|----|-------|
|         |                         | Min  | 9  | 11 | 9.0% | 0.2% | 41.2% |
|         |                         | Min  | 10 | 12 | 0% | 0% | 26.5% |
|         |                         | Min  | 11 | 11 | 0% | 0% | 28.5% |
|         |                         | Min  | 14 | 12 | 0% | 0% | 26.5% |
|         |                         | Min  | 25 | 12 | 0% | 0% | 26.5% |
|         |                         | Mod  | 1  | 12 | 0% | 0% | 26.5% |
|         |                         | Mod  | 6  | 9  | 0% | 0% | 33.6% |
|         |                         | Mod  | 7  | 12 | 0% | 0% | 26.5% |
|         |                         | Mod  | 8  | 11 | 0% | 0% | 26.5% |
|         |                         | Mod  | 9  | 11 | 0% | 0% | 28.5% |
|         |                         | Mod  | 10 | 12 | 0% | 0% | 26.5% |
|         |                         | Mod  | 11 | 10 | 0% | 0% | 30.8% |
|         |                         | Mod  | 14 | 12 | 0% | 0% | 26.5% |
|         |                         | Mod  | 25 | 12 | 0% | 0% | 26.5% |
|         |                         | Int  | 1  | 9  | 0% | 0% | 33.6% |
|         |                         | Int  | 6  | 11 | 0% | 0% | 28.5% |
|         |                         | Int  | 7  | 11 | 0% | 0% | 28.5% |
|         |                         | Int  | 8  | 11 | 0% | 0% | 28.5% |
|         |                         | Int  | 9  | 12 | 0% | 0% | 26.5% |
|         |                         | Int  | 10 | 12 | 0% | 0% | 26.5% |
|         |                         | Int  | 11 | 11 | 0% | 0% | 28.5% |
|         |                         | Int  | 14 | 12 | 0% | 0% | 26.5% |
|         |                         | Int  | 25 | 12 | 0% | 0% | 26.5% |
| E. coli | Chloramphenicol         | Min  | 1  | 12 | 8.3% | 0.2% | 38.4% |
|         |                         | Min  | 6  | 11 | 9.0% | 0.2% | 41.2% |
|         |                         | Min  | 7  | 12 | 8.3% | 0.2% | 38.4% |
|         |                         | Min  | 8  | 12 | 8.3% | 0.2% | 38.4% |
|         |                         | Min  | 9  | 11 | 0% | 0% | 28.5% |
|         |                         | Min  | 10 | 12 | 0% | 0% | 26.5% |
|         |                         | Min  | 11 | 11 | 9.0% | 0.2% | 41.2% |
|         |                         | Min  | 14 | 12 | 16.6% | 2.0% | 48.4% |
|         |                         | Min  | 25 | 12 | 16.6% | 2.0% | 48.4% |
|         |                         | Mod  | 1  | 12 | 0% | 0% | 26.5% |
|         |                         | Mod  | 6  | 9  | 0% | 0% | 33.6% |
|         |                         | Mod  | 7  | 12 | 0% | 0% | 26.5% |
|         |                         | Mod  | 8  | 11 | 9.0% | 0.2% | 41.2% |
|         |                         | Mod  | 9  | 11 | 0% | 0% | 28.5% |
|         |                         | Mod  | 10 | 12 | 8.3% | 0.2% | 38.4% |
|         |                         | Mod  | 11 | 10 | 0% | 0% | 30.8% |
|         |                         | Mod  | 14 | 12 | 8.3% | 0.2% | 38.4% |
|         |                         | Mod  | 25 | 12 | 0% | 0% | 26.5% |
|         |                         | Int  | 1  | 9  | 11.0% | 0.2% | 48.2% |
|         |                         | Int  | 6  | 11 | 0% | 0% | 28.5% |
|         |                         | Int  | 7  | 11 | 0% | 0% | 28.5% |
|         |                         | Int  | 8  | 11 | 0% | 0% | 28.5% |
|         |                         | Int  | 9  | 12 | 16.6% | 2.0% | 48.4% |
| E. coli   | Chloramphenicol (continued) |
|----------|-----------------------------|
|          | Int 10 12 8.3% 0.2% 38.4%  |
|          | Int 11 11 9.0% 0.2% 41.2%  |
|          | Int 14 12 16.6% 2.0% 48.4%  |
|          | Int 25 12 16.6% 2.0% 48.4%  |
| E. coli  | Ciprofloxacin                |
| Min 1    | 12 0% 0% 26.5%              |
| Min 6    | 11 0% 0% 28.5%              |
| Min 7    | 12 0% 0% 26.5%              |
| Min 8    | 12 0% 0% 26.5%              |
| Min 9    | 11 0% 0% 28.5%              |
| Min 10   | 12 0% 0% 26.5%              |
| Min 11   | 11 0% 0% 28.5%              |
| Min 14   | 12 0% 0% 26.5%              |
| Min 25   | 12 0% 0% 26.5%              |
| Mod 1    | 12 0% 0% 26.5%              |
| Mod 6    | 9 0% 0% 33.6%               |
| Mod 7    | 12 0% 0% 26.5%              |
| Mod 8    | 11 0% 0% 28.5%              |
| Mod 9    | 11 0% 0% 28.5%              |
| Mod 10   | 12 0% 0% 26.5%              |
| Mod 11   | 10 0% 0% 30.8%              |
| Mod 14   | 12 0% 0% 26.5%              |
| Mod 25   | 12 0% 0% 26.5%              |
| Int 1    | 9 0% 0% 33.6%               |
| Int 6    | 11 0% 0% 28.5%              |
| Int 7    | 11 9.0% 0.2% 41.2%          |
| Int 8    | 11 0% 0% 28.5%              |
| Int 9    | 12 0% 0% 26.5%              |
| Int 10   | 12 0% 0% 26.5%              |
| Int 11   | 11 0% 0% 28.5%              |
| Int 14   | 12 0% 0% 26.5%              |
| Int 25   | 12 0% 0% 26.5%              |
| E. coli  | Gentamicin                  |
| Min 1    | 12 8.3% 0.2% 38.4%          |
| Min 6    | 11 0% 0% 28.5%              |
| Min 7    | 12 0% 0% 26.5%              |
| Min 8    | 12 0% 0% 26.5%              |
| Min 9    | 11 0% 0% 28.5%              |
| Min 10   | 12 0% 0% 26.5%              |
| Min 11   | 11 0% 0% 28.5%              |
| Min 14   | 12 0% 0% 26.5%              |
| Min 25   | 12 0% 0% 26.5%              |
| Mod 1    | 12 0% 0% 26.5%              |
| Mod 6    | 9 0% 0% 33.6%               |
| Mod 7    | 12 8.3% 0.2% 38.4%          |
| Mod 8    | 11 0% 0% 28.5%              |
| Mod 9    | 11 0% 0% 28.5%              |
| Mod 10   | 12 0% 0% 26.5%              |
| Mod 11   | 10 0% 0% 30.8%              |
|               | Gentamicin | Mod 14 | 12 | 0% | 0% | 26.5% |
|---------------|------------|--------|----|----|----|-------|
|               | Mod 25     | 12     | 0% | 0% | 26.5% |
|               | Int 1      | 9      | 0% | 0% | 33.6% |
|               | Int 6      | 11     | 0% | 0% | 28.5% |
|               | Int 7      | 11     | 9.0% | 0.2% | 41.2% |
|               | Int 8      | 11     | 0% | 0% | 28.5% |
|               | Int 9      | 12     | 0% | 0% | 26.5% |
|               | Int 10     | 12     | 0% | 0% | 26.5% |
|               | Int 11     | 11     | 0% | 0% | 28.5% |
|               | Int 14     | 12     | 0% | 0% | 26.5% |
|               | Int 25     | 12     | 8.3% | 0.2% | 38.4% |

|               | Nalidixic Acid | Min 1 | 12 | 8.3% | 0.2% | 38.4% |
|---------------|----------------|--------|----|------|------|------|
|               | Min 6         | 11     | 0% | 0% | 28.5% |
|               | Min 7         | 12     | 0% | 0% | 26.5% |
|               | Min 8         | 12     | 0% | 0% | 26.5% |
|               | Min 9         | 11     | 0% | 0% | 28.5% |
|               | Min 10        | 12     | 0% | 0% | 26.5% |
|               | Min 11        | 11     | 0% | 0% | 28.5% |
|               | Min 14        | 12     | 0% | 0% | 26.5% |
|               | Min 25        | 12     | 0% | 0% | 26.5% |
|               | Mod 1         | 12     | 0% | 0% | 26.5% |
|               | Mod 6         | 9      | 0% | 0% | 33.6% |
|               | Mod 7         | 12     | 0% | 0% | 26.5% |
|               | Mod 8         | 11     | 0% | 0% | 28.5% |
|               | Mod 9         | 11     | 0% | 0% | 28.5% |
|               | Mod 10        | 12     | 0% | 0% | 26.5% |
|               | Mod 11        | 10     | 0% | 0% | 30.8% |
|               | Mod 14        | 12     | 0% | 0% | 26.5% |
|               | Mod 25        | 12     | 0% | 0% | 26.5% |
|               | Int 1         | 9      | 0% | 0% | 33.6% |
|               | Int 6         | 11     | 9.0% | 0.2% | 41.2% |
|               | Int 7         | 11     | 9.0% | 0.2% | 41.2% |
|               | Int 8         | 11     | 0% | 0% | 28.5% |
|               | Int 9         | 12     | 0% | 0% | 26.5% |
|               | Int 10        | 12     | 0% | 0% | 26.5% |
|               | Int 11        | 11     | 9.0% | 0.2% | 41.2% |
|               | Int 14        | 12     | 8.3% | 0.2% | 38.4% |
|               | Int 25        | 12     | 0% | 0% | 26.5% |

|               | Streptomycin | Min 1 | 12 | 50.0% | 21.0% | 78.9% |
|---------------|--------------|--------|----|--------|------|------|
|               | Min 6        | 11     | 18.1% | 2.2% | 51.7% |
|               | Min 7        | 12     | 25.0% | 5.4% | 57.1% |
|               | Min 8        | 12     | 25.0% | 5.4% | 57.1% |
|               | Min 9        | 11     | 0.0% | 0% | 28.5% |
|               | Min 10       | 12     | 16.6% | 2.0% | 48.4% |
|               | Min 11       | 11     | 27.2% | 6.0% | 60.9% |
|               | Min 14       | 12     | 25.0% | 5.4% | 57.1% |
|               | Min 25       | 12     | 25.0% | 5.4% | 57.1% |
|          | Streptomycin |          |          |          |          |
|----------|--------------|----------|----------|----------|----------|
|          | Mod 1        | 12       | 66.6%    | 34.8%    | 90.0%    |
|          | Mod 6        | 9        | 55.5%    | 21.2%    | 86.3%    |
|          | Mod 7        | 12       | 66.6%    | 34.8%    | 90.0%    |
|          | Mod 8        | 11       | 63.6%    | 30.7%    | 89.0%    |
|          | Mod 9        | 11       | 72.7%    | 39.0%    | 93.9%    |
|          | Mod 10       | 12       | 58.3%    | 27.6%    | 84.8%    |
|          | Mod 14       | 12       | 66.6%    | 34.8%    | 90.0%    |
|          | Mod 25       | 12       | 33.3%    | 9.9%     | 65.1%    |
|          | Int 1        | 9        | 44.4%    | 13.7%    | 78.8%    |
|          | Int 6        | 11       | 45.4%    | 16.7%    | 76.6%    |
|          | Int 7        | 11       | 36.3%    | 10.9%    | 69.2%    |
|          | Int 8        | 11       | 27.2%    | 6.0%     | 60.9%    |
|          | Int 9        | 12       | 25.0%    | 5.4%     | 57.1%    |
|          | Int 10       | 12       | 8.3%     | 0.2%     | 38.4%    |
|          | Int 11       | 11       | 18.1%    | 2.2%     | 51.7%    |
|          | Int 14       | 12       | 0%       | 0%       | 26.5%    |
|          | Int 25       | 12       | 0%       | 0%       | 26.5%    |

|          | Sulfisoxazole |          |          |          |          |
|----------|--------------|----------|----------|----------|----------|
| E. coli  | Min 1        | 12       | 16.6%    | 2.0%     | 48.4%    |
|          | Min 6        | 11       | 27.2%    | 6.0%     | 60.9%    |
|          | Min 7        | 12       | 8.3%     | 0.2%     | 38.4%    |
|          | Min 8        | 12       | 33.3%    | 9.9%     | 65.1%    |
|          | Min 9        | 11       | 0%       | 0%       | 28.5%    |
|          | Min 10       | 12       | 0%       | 0%       | 26.5%    |
|          | Min 11       | 11       | 18.1%    | 2.2%     | 51.7%    |
|          | Min 14       | 12       | 16.6%    | 2.0%     | 48.4%    |
|          | Min 25       | 12       | 16.6%    | 2.0%     | 48.4%    |
|          | Mod 1        | 12       | 8.3%     | 0.2%     | 38.4%    |
|          | Mod 6        | 9        | 22.2%    | 2.8%     | 60.0%    |
|          | Mod 7        | 12       | 8.3%     | 0.2%     | 38.4%    |
|          | Mod 8        | 11       | 18.1%    | 2.0%     | 51.7%    |
|          | Mod 9        | 11       | 9.0%     | 0.2%     | 41.2%    |
|          | Mod 10       | 12       | 16.6%    | 2.0%     | 48.4%    |
|          | Mod 11       | 10       | 0%       | 0%       | 30.8%    |
|          | Mod 14       | 12       | 8.3%     | 0.2%     | 38.4%    |
|          | Mod 25       | 12       | 0%       | 0%       | 26.5%    |
|          | Int 1        | 9        | 11.1%    | 0.3%     | 48.2%    |
|          | Int 6        | 11       | 18.1%    | 2.2%     | 51.7%    |
|          | Int 7        | 11       | 9.0%     | 0.2%     | 41.2%    |
|          | Int 8        | 11       | 9.0%     | 0.2%     | 41.2%    |
|          | Int 9        | 12       | 25.0%    | 5.4%     | 57.1%    |
|          | Int 10       | 12       | 16.6%    | 2.0%     | 48.4%    |
|          | Int 11       | 11       | 9.0%     | 0.2%     | 41.2%    |
|          | Int 14       | 12       | 16.6%    | 2.0%     | 48.4%    |
|          | Int 25       | 12       | 16.6%    | 2.0%     | 48.4%    |

|          | Tetracycline  |          |          |          |          |
|----------|--------------|----------|----------|----------|----------|
| E. coli  | Min 1        | 12       | 83.3%    | 51.5%    | 97.9%    |
|          | Min 6        | 11       | 81.8%    | 48.2%    | 97.7%    |
| E. coli Tetracycline (continued) | Min 7 | 12 | 83.3% | 51.5% | 97.9% |
|---------------------------------|-------|-----|--------|--------|--------|
| Min 8                           | 12    | 75.0% | 42.8% | 94.5%  |
| Min 9                           | 11    | 72.7% | 39.0% | 93.9%  |
| Min 10                          | 12    | 91.6% | 61.5% | 99.7%  |
| Min 11                          | 11    | 90.9% | 58.7% | 99.7%  |
| Min 14                          | 12    | 83.3% | 51.5% | 97.9%  |
| Min 25                          | 12    | 91.6% | 61.5% | 99.7%  |
| Mod 1                           | 12    | 91.6% | 61.5% | 99.7%  |
| Mod 6                           | 9     | 100%  | 66.3% | 100%   |
| Mod 7                           | 12    | 91.6% | 61.5% | 99.7%  |
| Mod 8                           | 11    | 100%  | 71.5% | 100%   |
| Mod 9                           | 11    | 81.8% | 48.2% | 97.7%  |
| Mod 10                          | 12    | 91.6% | 61.5% | 99.7%  |
| Mod 11                          | 10    | 90.0% | 55.5% | 99.7%  |
| Mod 14                          | 12    | 91.6% | 61.5% | 99.7%  |
| Mod 25                          | 12    | 83.3% | 51.5% | 97.9%  |
| Int 1                           | 9     | 100%  | 66.3% | 100%   |
| Int 6                           | 11    | 81.8% | 48.2% | 97.7%  |
| Int 7                           | 11    | 90.9% | 58.7% | 99.7%  |
| Int 8                           | 11    | 81.8% | 48.2% | 97.7%  |
| Int 9                           | 12    | 100%  | 73.5% | 100%   |
| Int 10                          | 12    | 100%  | 73.5% | 100%   |
| Int 11                          | 11    | 90.9% | 58.7% | 99.7%  |
| Int 14                          | 12    | 91.6% | 61.5% | 99.7%  |
| Int 25                          | 12    | 100%  | 73.5% | 100%   |

| E. coli Trimethoprim/Sulfa      | Min 1 | 12 | 0%    | 0%    | 26.5%  |
|---------------------------------|-------|-----|--------|--------|--------|
| Min 6                           | 11    | 0%   | 0%    | 28.5%  |
| Min 7                           | 12    | 0%   | 0%    | 26.5%  |
| Min 8                           | 12    | 0%   | 0%    | 26.5%  |
| Min 9                           | 11    | 0%   | 0%    | 28.5%  |
| Min 10                          | 12    | 0%   | 0%    | 26.5%  |
| Min 11                          | 11    | 0%   | 0%    | 28.5%  |
| Min 14                          | 12    | 0%   | 0%    | 26.5%  |
| Min 25                          | 12    | 0%   | 0%    | 26.5%  |
| Mod 1                           | 12    | 0%   | 0%    | 26.5%  |
| Mod 6                           | 9     | 0%   | 0%    | 33.6%  |
| Mod 7                           | 12    | 0%   | 0%    | 26.5%  |
| Mod 8                           | 11    | 0%   | 0%    | 28.5%  |
| Mod 9                           | 11    | 0%   | 0%    | 28.5%  |
| Mod 10                          | 12    | 0%   | 0%    | 26.5%  |
| Mod 11                          | 10    | 0%   | 0%    | 30.8%  |
| Mod 14                          | 12    | 0%   | 0%    | 26.5%  |
| Mod 25                          | 12    | 0%   | 0%    | 26.5%  |
| Int 1                           | 9     | 0%   | 0%    | 33.6%  |
| Int 6                           | 11    | 0%   | 0%    | 28.5%  |
| Int 7                           | 11    | 0%   | 0%    | 28.5%  |
| Int 8                           | 11    | 0%   | 0%    | 28.5%  |
| E. coli     | Trimethoprim/Sulfa (continued) | Mod 14 12 | 0% | 0% | 26.5% |
|------------|--------------------------------|------------|----|----|-------|
| Int 9      | 12                             | 16.6%      | 2.0%| 48.4%|
| Int 10     | 12                             | 8.3%       | 0.2%| 38.4%|
| Int 11     | 11                             | 9.0%       | 0.2%| 41.2%|
| Int 14     | 12                             | 16.6%      | 2.0%| 48.4%|
| Int 25     | 12                             | 8.3%       | 0.2%| 38.4%|
| Enterococcus| Chloramphenicol                  | Min 1      | 12 | 0% | 0%    |
| Min 6      | 10                             | 0%         | 0%  | 30.8%|
| Min 7      | 12                             | 0%         | 0%  | 26.5%|
| Min 8      | 7                              | 0%         | 0%  | 41.0%|
| Min 9      | 12                             | 0%         | 0%  | 26.5%|
| Min 10     | 12                             | 0%         | 0%  | 26.5%|
| Min 11     | 11                             | 0%         | 0%  | 28.5%|
| Min 14     | 12                             | 0%         | 0%  | 26.5%|
| Min 25     | 12                             | 0%         | 0%  | 26.5%|
| Mod 1      | 12                             | 0%         | 0%  | 26.5%|
| Mod 6      | 12                             | 0%         | 0%  | 26.5%|
| Mod 7      | 10                             | 0%         | 0%  | 30.8%|
| Mod 8      | 8                              | 0%         | 0%  | 36.9%|
| Mod 9      | 10                             | 0%         | 0%  | 30.8%|
| Mod 10     | 9                              | 0%         | 0%  | 33.6%|
| Mod 11     | 10                             | 0%         | 0%  | 33.6%|
| Mod 14     | 9                              | 0%         | 0%  | 33.6%|
| Mod 11     | 11                             | 10.0%      | 0.2%| 44.5%|
| Enterococcus| Ciprofloxacin                   | Min 1      | 12 | 8.3%| 0.2%  |
| Min 6      | 10                             | 50.0%      | 18.7%| 81.2%|
| Min 7      | 12                             | 50.0%      | 21.0%| 78.9%|
| Min 8      | 7                              | 14.2%      | 0.3%| 57.8%|
| Min 9      | 12                             | 16.6%      | 2.0%| 48.4%|
| Min 10     | 12                             | 0%         | 0%  | 26.5%|
| Min 11     | 11                             | 18.1%      | 2.2%| 51.7%|
| Min 14     | 12                             | 0%         | 0%  | 26.5%|
| Min 25     | 12                             | 0%         | 0%  | 26.5%|
| Mod 1      | 12                             | 16.6%      | 2.0%| 48.4%|
| Mod 6      | 12                             | 8.3%       | 0.2%| 38.4%|
| Mod 7      | 10                             | 10.0%      | 0.2%| 44.5%|
| Mod 8      | 8                              | 0%         | 0%  | 36.9%|
| Mod 9      | 10                             | 10.0%      | 0.2%| 44.5%|
| Mod 10     | 9                              | 0%         | 0%  | 33.6%|
| Enterococcus | Ciprofloxacin (continued) | Mod | 11 | 10 | 10.0% | 0.2% | 44.5% |
|--------------|---------------------------|-----|----|----|--------|------|-------|
|              |                           | Mod | 14 | 9  | 0%     | 0%   | 33.6% |
|              |                           | Mod | 25 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 1  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Int | 6  | 11 | 9.0%   | 0.2% | 41.2% |
|              |                           | Int | 7  | 9  | 0%     | 0%   | 33.6% |
|              |                           | Int | 8  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Int | 9  | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 10 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 11 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 14 | 12 | 8.3%   | 0.2% | 38.4% |
|              |                           | Int | 25 | 11 | 0%     | 0%   | 26.5% |
| Enterococcus | Daptomycin                | Mod | 11 | 10 | 0%     | 0%   | 26.5% |
|              |                           | Mod | 14 | 9  | 0%     | 0%   | 33.6% |
|              |                           | Mod | 25 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 1  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Int | 6  | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 7  | 91 | 16.6%  | 2.0% | 48.4% |
|              |                           | Int | 8  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Int | 9  | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 10 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 11 | 12 | 0%     | 0%   | 28.5% |
|              |                           | Int | 14 | 12 | 8.3%   | 0.2% | 38.4% |
|              |                           | Int | 25 | 11 | 0%     | 0%   | 26.5% |
| Enterococcus | Erythromycin              | Min | 1  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 6  | 10 | 0%     | 0%   | 30.8% |
|              |                           | Min | 7  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 81 | 7  | 14.2%  | 0.3% | 57.8% |
|              |                           | Min | 9  | 12 | 16.6%  | 2.0% | 48.4% |
|              |                           | Min | 10 | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 11 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Min | 14 | 12 | 8.3%   | 0.2% | 38.4% |
|              |                           | Min | 25 | 12 | 0%     | 0%   | 26.5% |
|              |                           | Mod | 1  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Mod | 6  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Mod | 7  | 10 | 0%     | 0%   | 30.8% |
|              |                           | Mod | 8  | 12 | 0%     | 0%   | 36.9% |
|              |                           | Mod | 10 | 12 | 0%     | 0%   | 30.8% |
|              |                           | Mod | 11 | 10 | 0%     | 0%   | 30.8% |
|              |                           | Mod | 14 | 9  | 11.1%  | 0.2% | 48.2% |
|              |                           | Mod | 25 | 11 | 0%     | 0%   | 26.5% |
|              |                           | Int | 1  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Int | 6  | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 7  | 91 | 16.6%  | 2.0% | 48.4% |
|              |                           | Int | 8  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Int | 9  | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 10 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Int | 11 | 12 | 0%     | 0%   | 28.5% |
|              |                           | Int | 14 | 12 | 8.3%   | 0.2% | 38.4% |
|              |                           | Int | 25 | 11 | 0%     | 0%   | 26.5% |
| Enterococcus | Erythromycin              | Min | 1  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 6  | 10 | 0%     | 0%   | 30.8% |
|              |                           | Min | 7  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 8  | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 9  | 11 | 0%     | 0%   | 28.5% |
|              |                           | Min | 10 | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 11 | 10 | 0%     | 0%   | 30.8% |
|              |                           | Min | 14 | 9  | 11.1%  | 0.2% | 48.2% |
|              |                           | Min | 25 | 11 | 0%     | 0%   | 26.5% |
|              |                           | Min | 61 | 7  | 14.2%  | 0.3% | 57.8% |
|              |                           | Min | 9  | 12 | 16.6%  | 2.0% | 48.4% |
|              |                           | Min | 10 | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 11 | 11 | 0%     | 0%   | 28.5% |
|              |                           | Min | 14 | 12 | 8.3%   | 0.2% | 38.4% |
|              |                           | Min | 25 | 12 | 0%     | 0%   | 26.5% |
|              |                           | Min | 12 | 0%   | 0%   | 28.5% |
| Enterococcus | Erythromycin | Min | 25 | 12 | 50.0% | 21.0% | 78.9% |
|--------------|--------------|-----|----|----|-------|-------|------|
| Mod          | 1            | 12  | 66.6% | 34.8% | 90.0% |
| Mod          | 6            | 12  | 41.6% | 15.1% | 72.3% |
| Mod          | 7            | 10  | 10.0% | 0.2%  | 44.5% |
| Mod          | 8            | 8   | 50.0% | 15.7% | 84.3% |
| Mod          | 9            | 10  | 50.0% | 18.7% | 81.2% |
| Mod          | 10           | 9   | 33.3% | 7.4%  | 70.0% |
| Mod          | 11           | 10  | 70.0% | 34.7% | 93.3% |
| Mod          | 14           | 9   | 77.7% | 39.9% | 97.1% |
| Mod          | 25           | 11  | 36.3% | 10.9% | 69.2% |
| Int          | 1            | 12  | 66.6% | 34.8% | 90.0% |
| Int          | 6            | 11  | 27.2% | 6.0%  | 60.9% |
| Int          | 7            | 9   | 44.4% | 13.7% | 78.8% |
| Int          | 8            | 12  | 58.3% | 27.6% | 84.8% |
| Int          | 9            | 11  | 72.7% | 39.0% | 93.9% |
| Int          | 10           | 11  | 36.3% | 10.9% | 69.2% |
| Int          | 11           | 12  | 41.6% | 15.1% | 72.3% |
| Int          | 14           | 12  | 33.3% | 9.9%  | 65.1% |
| Int          | 25           | 11  | 45.4% | 16.7% | 76.6% |

| Enterococcus | Gentamycin   | Min | 1  | 12  | 0.0% | 0% | 26.5% |
|--------------|--------------|-----|----|-----|------|----|------|
| Min          | 6            | 10  | 0.0% | 0% | 30.8% |
| Min          | 7            | 12  | 8.3% | 0.2% | 38.4% |
| Min          | 8            | 7   | 0.0% | 0% | 41.0% |
| Min          | 9            | 12  | 0.0% | 0% | 26.5% |
| Min          | 10           | 12  | 0.0% | 0% | 26.5% |
| Min          | 11           | 11  | 0.0% | 0% | 28.5% |
| Min          | 14           | 12  | 0.0% | 0% | 26.5% |
| Min          | 25           | 12  | 0.0% | 0% | 26.5% |

| Enterococcus | Kanamycin    | Mod | 1  | 12  | 16.6% | 2.0% | 48.4% |
|--------------|--------------|-----|----|-----|-------|------|------|
| Mod          | 6            | 12  | 0.0% | 0% | 26.5% |
| Mod          | 7            | 10  | 0.0% | 0% | 26.5% |
| Mod          | 8            | 8   | 0.0% | 0% | 36.9% |
| Mod          | 9            | 10  | 10.0% | 0.2% | 44.5% |
| Mod          | 10           | 9   | 0.0% | 0% | 33.6% |
| Mod          | 11           | 10  | 0.0% | 0% | 30.8% |
| Mod          | 14           | 9   | 0.0% | 0% | 33.6% |
| Mod          | 25           | 11  | 0.0% | 0% | 28.5% |
| Int          | 1            | 12  | 8.3% | 0.2% | 38.4% |
| Int          | 6            | 11  | 9.0% | 0.2% | 41.2% |
| Int          | 7            | 9   | 0.0% | 0% | 33.6% |
| Int          | 8            | 12  | 0.0% | 0% | 26.5% |
| Int          | 9            | 11  | 9.0% | 0.2% | 41.2% |
| Int          | 10           | 11  | 9.0% | 0.2% | 41.2% |
| Int          | 11           | 12  | 8.3% | 0.2% | 38.4% |
| Int          | 14           | 12  | 0.0% | 0% | 26.5% |
| Int          | 25           | 11  | 9.0% | 0.2% | 41.2% |

| Enterococcus | Kanamycin    | Min | 1  | 12  | 33.3% | 9.9% | 65.1% |
| Enterococcus | Kanamycin | Min | 6  | 10 | 0.0% | 0% | 30.8% |
|-------------|-----------|-----|----|----|------|----|------|
|             |           | Min | 7  | 12 | 8.3% | 0.2% | 38.4% |
|             |           | Min | 8  | 7  | 0.0% | 0%  | 41.0% |
|             |           | Min | 9  | 12 | 0.0% | 0%  | 26.5% |
|             |           | Min | 10 | 12 | 8.3% | 0.2% | 38.4% |
|             |           | Min | 11 | 11 | 0.0% | 0%  | 28.5% |
|             |           | Min | 14 | 12 | 8.3% | 0.2% | 38.4% |
|             |           | Min | 25 | 12 | 8.3% | 0.2% | 38.4% |
|             |           | Mod | 1  | 12 | 41.6% | 15.1% | 72.3% |
|             |           | Mod | 6  | 12 | 16.6% | 2.0% | 48.4% |
|             |           | Mod | 7  | 10 | 0.0% | 0%  | 30.8% |
|             |           | Mod | 8  | 8  | 12.5% | 0.3% | 52.6% |
|             |           | Mod | 9  | 10 | 20.0% | 2.5% | 55.6% |
|             |           | Mod | 10 | 9  | 11.1% | 0.2% | 48.2% |
|             |           | Mod | 11 | 10 | 50.0% | 18.7% | 81.2% |
|             |           | Mod | 14 | 9  | 0.0% | 0%  | 33.6% |
|             |           | Mod | 25 | 11 | 0.0% | 0%  | 28.5% |
|             |           | Int  | 1  | 12 | 16.6% | 2.0% | 48.4% |
|             |           | Int  | 6  | 11 | 9.0% | 0.2% | 41.2% |
|             |           | Int  | 7  | 9  | 0.0% | 0%  | 33.6% |
|             |           | Int  | 8  | 12 | 8.3% | 0.2% | 38.4% |
|             |           | Int  | 9  | 11 | 9.0% | 0.2% | 41.2% |
|             |           | Int  | 10 | 11 | 9.0% | 0.2% | 41.2% |
|             |           | Int  | 11 | 12 | 8.3% | 0.2% | 38.4% |
|             |           | Int  | 14 | 12 | 16.6% | 2.0% | 48.4% |
|             |           | Int  | 25 | 11 | 27.2% | 6.0% | 60.9% |

| Enterococcus | Lincomycin | Min | 1  | 12 | 100% | 73.5% | 100% |
|-------------|------------|-----|----|----|------|------|------|
|             |           | Min | 6  | 10 | 100% | 69.1% | 100% |
|             |           | Min | 7  | 12 | 91.6% | 61.5% | 99.7% |
|             |           | Min | 8  | 7  | 85.7% | 42.1% | 99.6% |
|             |           | Min | 9  | 12 | 91.6% | 61.5% | 99.7% |
|             |           | Min | 10 | 12 | 100% | 73.5% | 100% |
|             |           | Min | 11 | 11 | 90.9% | 58.7% | 99.7% |
|             |           | Min | 14 | 12 | 100% | 73.5% | 100% |
|             |           | Min | 25 | 12 | 100% | 73.5% | 100% |
|             |           | Mod | 1  | 12 | 100% | 73.5% | 100% |
|             |           | Mod | 6  | 12 | 75.0% | 42.8% | 94.5% |
|             |           | Mod | 7  | 10 | 80.0% | 44.3% | 97.4% |
|             |           | Mod | 8  | 8  | 100% | 63.0% | 100% |
|             |           | Mod | 9  | 10 | 100% | 69.1% | 100% |
|             |           | Mod | 10 | 9  | 100% | 66.3% | 100% |
|             |           | Mod | 11 | 10 | 100% | 69.1% | 100% |
|             |           | Mod | 14 | 9  | 100% | 66.3% | 100% |
|             |           | Mod | 25 | 11 | 90.9% | 58.7% | 99.7% |
|             |           | Int  | 1  | 12 | 100% | 73.5% | 100% |
|             |           | Int  | 6  | 11 | 90.9% | 58.7% | 99.7% |
|             |           | Int  | 7  | 9  | 88.8% | 51.7% | 99.7% |
| Enterococcus | Lincomycin | Int 8 12 | 91.6% | 61.5% | 99.7% |
| | Int 9 11 | 100% | 71.5% | 100% |
| | Int 10 11 | 100% | 71.5% | 100% |
| | Int 11 12 | 100% | 73.5% | 100% |
| | Int 14 12 | 83.3% | 51.5% | 97.9% |
| | Int 25 11 | 90.9% | 58.7% | 99.7% |
| Enterococcus | Linezolid | Min 1 12 | 0% | 0% | 26.5% |
| | Min 6 10 | 0% | 0% | 30.8% |
| | Min 7 12 | 0% | 0% | 26.5% |
| | Min 8 7 | 0% | 0% | 41.0% |
| | Min 9 12 | 0% | 0% | 26.5% |
| | Min 10 12 | 0% | 0% | 26.5% |
| | Min 11 11 | 0% | 0% | 28.5% |
| | Min 14 12 | 0% | 0% | 26.5% |
| | Min 25 12 | 0% | 0% | 26.5% |
| | Mod 1 12 | 0% | 0% | 26.5% |
| | Mod 6 12 | 0% | 0% | 26.5% |
| | Mod 7 10 | 0% | 0% | 30.8% |
| | Mod 8 8 | 0% | 0% | 36.9% |
| | Mod 9 10 | 0% | 0% | 30.8% |
| | Mod 10 9 | 0% | 0% | 33.6% |
| | Mod 11 10 | 0% | 0% | 30.8% |
| | Mod 14 9 | 0% | 0% | 33.6% |
| | Mod 25 11 | 0% | 0% | 28.5% |
| | Int 1 12 | 0% | 0% | 26.5% |
| | Int 6 11 | 0% | 0% | 28.5% |
| | Int 7 9 | 0% | 0% | 33.6% |
| | Int 8 12 | 0% | 0% | 26.5% |
| | Int 9 11 | 0% | 0% | 28.5% |
| | Int 10 11 | 0% | 0% | 28.5% |
| | Int 11 12 | 0% | 0% | 26.5% |
| | Int 14 12 | 0% | 0% | 26.5% |
| | Int 25 11 | 0% | 0% | 28.5% |
| Enterococcus | Nitrofurantoin | Min 1 12 | 0% | 0% | 26.5% |
| | Min 6 10 | 10.0% | 0.2% | 44.5% |
| | Min 7 12 | 0% | 0% | 26.5% |
| | Min 8 7 | 0% | 0% | 41.0% |
| | Min 9 12 | 0% | 0% | 26.5% |
| | Min 10 12 | 0% | 0% | 26.5% |
| | Min 11 11 | 0% | 0% | 28.5% |
| | Min 14 12 | 16.6% | 2.0% | 48.4% |
| | Min 25 12 | 8.3% | 0.2% | 38.4% |
| | Mod 1 12 | 16.6% | 2.0% | 48.4% |
| | Mod 6 12 | 0% | 0% | 26.5% |
| | Mod 7 10 | 20.0% | 2.5% | 55.6% |
| | Mod 8 8 | 0% | 0% | 36.9% |
| | Mod 9 10 | 20.0% | 2.5% | 55.6% |
| Enterococcus |  |  |  |  |  |
|-------------|---------------|--------------|--------------|--------------|--------------|
| Nitrofurantoin | Mod | 10 | 9 | 11.1% | 0.2% | 48.2% |
| Mod | 11 | 10 | 10.0% | 0.2% | 44.5% |
| Mod | 14 | 9 | 11.1% | 0.2% | 48.2% |
| Mod | 25 | 11 | 18.1% | 2.2% | 51.7% |
| Int | 1 | 12 | 0% | 0% | 26.5% |
| Int | 6 | 11 | 0% | 0% | 28.5% |
| Int | 7 | 9 | 0% | 0% | 33.6% |
| Int | 8 | 12 | 0% | 0% | 26.5% |
| Int | 9 | 11 | 0% | 0% | 28.5% |
| Int | 10 | 11 | 0% | 0% | 28.5% |
| Int | 11 | 12 | 0% | 0% | 26.5% |
| Int | 14 | 12 | 8.3% | 0.2% | 38.4% |
| Int | 25 | 11 | 27.2% | 6.0% | 60.9% |

| Enterococcus |  |  |  |  |  |
|-------------|---------------|--------------|--------------|--------------|--------------|
| Penicillin | Min | 1 | 12 | 0% | 0% | 26.5% |
| Min | 6 | 10 | 0% | 0% | 30.8% |
| Min | 7 | 12 | 0% | 0% | 26.5% |
| Min | 8 | 7 | 0% | 0% | 41.0% |
| Min | 9 | 12 | 8.3% | 0.2% | 38.4% |
| Min | 10 | 12 | 0% | 0% | 26.5% |
| Min | 11 | 11 | 0% | 0% | 28.5% |
| Min | 14 | 12 | 0% | 0% | 26.5% |
| Min | 25 | 12 | 0% | 0% | 26.5% |
| Mod | 1 | 12 | 8.3% | 0.2% | 38.4% |
| Mod | 6 | 12 | 0% | 0% | 26.5% |
| Mod | 7 | 10 | 0% | 0% | 30.8% |
| Mod | 8 | 8 | 0% | 0% | 36.9% |
| Mod | 9 | 10 | 0% | 0% | 30.8% |
| Mod | 10 | 9 | 0% | 0% | 33.6% |
| Mod | 11 | 10 | 0% | 0% | 30.8% |
| Mod | 14 | 9 | 0% | 0% | 33.6% |
| Mod | 25 | 11 | 0% | 0% | 28.5% |
| Int | 1 | 12 | 8.3% | 0.2% | 38.4% |
| Int | 6 | 11 | 0% | 0% | 28.5% |
| Int | 7 | 9 | 0% | 0% | 33.6% |
| Int | 8 | 12 | 0% | 0% | 26.5% |
| Int | 9 | 11 | 0% | 0% | 28.5% |
| Int | 10 | 11 | 9.0% | 0.2% | 41.2% |
| Int | 11 | 12 | 0% | 0% | 26.5% |
| Int | 14 | 12 | 8.3% | 0.2% | 38.4% |
| Int | 25 | 11 | 18.1% | 2.2% | 51.7% |

| Enterococcus |  |  |  |  |  |
|-------------|---------------|--------------|--------------|--------------|--------------|
| Quin / Dalf | Min | 1 | 12 | 91.6% | 61.5% | 99.7% |
| Min | 6 | 10 | 40.0% | 12.1% | 73.7% |
| Min | 7 | 12 | 16.6% | 2.0% | 48.4% |
| Min | 8 | 7 | 0% | 0% | 41.0% |
| Min | 9 | 12 | 50.0% | 21.0% | 78.9% |
| Min | 10 | 12 | 66.6% | 34.8% | 90.0% |
| Min | 11 | 11 | 63.6% | 30.7% | 89.0% |
| Enterococcus | Quin / Dalf | Min | 14 | 12 | 83.3% | 51.5% | 97.9% |
|-------------|------------|-----|----|----|--------|-------|-------|
|             |            | Min | 25 | 12 | 58.3% | 27.6% | 84.8% |
|             |            | Mod |  1 | 12 | 75.0% | 42.8% | 94.5% |
|             |            | Mod |  6 | 12 | 16.6% |  2.0% | 48.4% |
|             |            | Mod |  7 | 10 | 20.0% |  2.5% | 55.6% |
|             |            | Mod |  8 |  8 | 37.5% |  8.5% | 75.5% |
|             |            | Mod |  9 | 10 | 50.0% | 18.7% | 81.2% |
|             |            | Mod | 10 |  9 | 33.3% |   7.4%| 70.0% |
|             |            | Mod | 11 | 10 | 80.0% | 44.3% | 97.4% |
|             |            | Mod | 14 |  9 | 77.7% | 39.9% | 97.1% |
|             |            | Mod | 25 | 11 | 63.6% | 30.7% | 89.0% |
|             |            | Int |  1 | 12 | 66.6% | 34.8% | 90.0% |
|             |            | Int |  6 | 11 | 45.4% | 16.7% | 76.6% |
|             |            | Int |  7 |  9 | 44.4% | 13.7% | 78.8% |
|             |            | Int |  8 | 12 | 58.3% | 27.6% | 84.8% |
|             |            | Int |  9 | 11 | 72.7% | 39.0% | 93.9% |
|             |            | Int | 10 | 11 | 36.3% | 10.9% | 69.2% |
|             |            | Int | 11 | 12 | 41.6% | 15.1% | 72.3% |
|             |            | Int | 14 | 12 | 41.6% | 15.1% | 72.3% |
|             |            | Int | 25 | 11 | 45.4% | 16.7% | 76.6% |
| Enterococcus | Streptomycin | Min |  1 | 12 | 33.3% |  9.9% | 65.1% |
|             |            | Min |  6 | 10 |  0% |  0% | 30.8% |
|             |            | Min |  7 | 12 |  8.3% |  0.2% | 38.4% |
|             |            | Min |  8 |  7 |  0% |  0% | 41.0% |
|             |            | Min |  9 | 12 |  0% |  0% | 26.5% |
|             |            | Min | 10 | 12 |  8.3% |  0.2% | 38.4% |
|             |            | Min | 11 | 11 |  9.0% |  0.2% | 41.2% |
|             |            | Min | 14 | 12 |  8.3% |  0.2% | 38.4% |
|             |            | Min | 25 | 12 |  8.3% |  0.2% | 38.4% |
|             |            | Mod |  1 | 12 | 41.6% | 15.1% | 72.3% |
|             |            | Mod |  6 | 12 | 16.6% |  2.0% | 48.4% |
|             |            | Mod |  7 | 10 |  0% |  0% | 30.8% |
|             |            | Mod |  8 |  8 | 12.5% |  0.3% | 52.6% |
|             |            | Mod |  9 | 10 | 20.0% |  2.5% | 55.6% |
|             |            | Mod | 10 |  9 | 11.1% |  0.2% | 48.2% |
|             |            | Mod | 11 | 10 | 50.0% | 18.7% | 81.2% |
|             |            | Mod | 14 |  9 |  0% |  0% | 33.6% |
|             |            | Mod | 25 | 11 |  0% |  0% | 28.5% |
|             |            | Int |  1 | 12 | 16.6% |  2.0% | 48.4% |
|             |            | Int |  6 | 11 | 18.1% |  2.2% | 51.7% |
|             |            | Int |  7 |  9 |  0% |  0% | 33.6% |
|             |            | Int |  8 | 12 |  8.3% |  0.2% | 38.4% |
|             |            | Int |  9 | 11 |  9.0% |  0.2% | 41.2% |
|             |            | Int | 10 | 11 |  9.0% |  0.2% | 41.2% |
|             |            | Int | 11 | 12 |  8.3% |  0.2% | 38.4% |
|             |            | Int | 14 | 12 | 25.0% |  5.4% | 57.1% |
|             |            | Int | 25 | 11 | 27.2% |  6.0% | 60.9% |
| Enterococcus | Tetracycline | Min  | 1   | 12  | 100.0% | 73.5% | 100.0% |
|-------------|--------------|------|-----|-----|--------|-------|--------|
|             |              | Min  | 6   | 10  | 90.0%  | 55.5% | 99.7%  |
|             |              | Min  | 7   | 12  | 66.6%  | 34.8% | 90.0%  |
|             |              | Min  | 8   | 7   | 28.5%  | 3.6%  | 70.9%  |
|             |              | Min  | 9   | 12  | 66.6%  | 34.8% | 90.0%  |
|             |              | Min  | 10  | 12  | 66.6%  | 34.8% | 90.0%  |
|             |              | Min  | 11  | 11  | 63.6%  | 30.7% | 89.0%  |
|             |              | Min  | 14  | 12  | 58.3%  | 27.6% | 84.8%  |
|             |              | Min  | 25  | 12  | 91.6%  | 61.5% | 99.7%  |
|             |              | Mod  | 1   | 12  | 100.0% | 73.5% | 100.0% |
|             |              | Mod  | 6   | 12  | 41.6%  | 15.1% | 72.3%  |
|             |              | Mod  | 7   | 10  | 50.0%  | 18.7% | 81.2%  |
|             |              | Mod  | 8   | 8   | 87.5%  | 47.3% | 99.6%  |
|             |              | Mod  | 9   | 10  | 80.0%  | 44.3% | 97.4%  |
|             |              | Mod  | 10  | 9   | 55.5%  | 21.2% | 86.3%  |
|             |              | Mod  | 11  | 10  | 100.0% | 69.1% | 100.0% |
|             |              | Mod  | 14  | 9   | 66.6%  | 29.9% | 92.5%  |
|             |              | Mod  | 25  | 11  | 72.7%  | 39.0% | 93.9%  |
|             |              | Int  | 1   | 12  | 100.0% | 73.5% | 100.0% |
|             |              | Int  | 6   | 11  | 63.6%  | 30.7% | 89.0%  |
|             |              | Int  | 7   | 9   | 77.7%  | 39.9% | 97.1%  |
|             |              | Int  | 8   | 12  | 91.6%  | 61.5% | 99.7%  |
|             |              | Int  | 9   | 11  | 100.0% | 71.5% | 100.0% |
|             |              | Int  | 10  | 11  | 100.0% | 71.5% | 100.0% |
|             |              | Int  | 11  | 12  | 91.6%  | 61.5% | 99.7%  |
|             |              | Int  | 14  | 12  | 58.3%  | 27.6% | 84.8%  |
|             |              | Int  | 25  | 11  | 81.8%  | 48.2% | 97.7%  |

| Enterococcus | Tigecycline | Min  | 1   | 12  | 0.0%   | 0%    | 26.5% |
|--------------|-------------|------|-----|-----|--------|-------|-------|
|              |             | Min  | 6   | 10  | 0.0%   | 0%    | 30.8% |
|              |             | Min  | 7   | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Min  | 8   | 7   | 0.0%   | 0%    | 41.0% |
|              |             | Min  | 9   | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Min  | 10  | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Min  | 11  | 11  | 9.0%   | 0.2%  | 41.2% |
|              |             | Min  | 14  | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Min  | 25  | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Mod  | 1   | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Mod  | 6   | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Mod  | 7   | 10  | 0.0%   | 0%    | 30.8% |
|              |             | Mod  | 8   | 8   | 0.0%   | 0%    | 36.9% |
|              |             | Mod  | 9   | 10  | 0.0%   | 0%    | 30.8% |
|              |             | Mod  | 10  | 9   | 0.0%   | 0%    | 33.6% |
|              |             | Mod  | 11  | 10  | 0.0%   | 0%    | 30.8% |
|              |             | Mod  | 14  | 9   | 0.0%   | 0%    | 33.6% |
|              |             | Mod  | 25  | 11  | 0.0%   | 0%    | 28.5% |
|              |             | Int  | 1   | 12  | 0.0%   | 0%    | 26.5% |
|              |             | Int  | 6   | 11  | 0.0%   | 0%    | 28.5% |
| Enterococcus | Tigecycline          | Int | 7   | 9   | 0.0% | 0%  | 33.6% |
|-------------|----------------------|-----|-----|-----|------|-----|------|
|             |                      | Int | 8   | 12  | 0.0% | 0%  | 26.5%|
|             |                      | Int | 9   | 11  | 0.0% | 0%  | 28.5%|
|             |                      | Int | 10  | 11  | 0.0% | 0%  | 28.5%|
|             |                      | Int | 11  | 12  | 0.0% | 0%  | 26.5%|
|             |                      | Int | 14  | 12  | 0.0% | 0%  | 26.5%|
|             |                      | Int | 25  | 11  | 0.0% | 0%  | 28.5%|
|             | (continued)          |     |     |     |      |     |      |
| Enterococcus| Tylosin              |     |     |     |      |     |      |
|             |                      | Min | 1   | 12  | 91.6%| 61.5%| 99.7%|
|             |                      | Min | 6   | 10  | 30.0%| 6.6% | 65.2%|
|             |                      | Min | 7   | 12  | 16.6%| 2.0% | 48.4%|
|             |                      | Min | 8   | 7   | 0.0% | 0%   | 41.0%|
|             |                      | Min | 9   | 12  | 25.0%| 5.4% | 57.1%|
|             |                      | Min | 10  | 12  | 41.6%| 15.1%| 72.3%|
|             |                      | Min | 11  | 11  | 45.4%| 16.7%| 76.6%|
|             |                      | Min | 14  | 12  | 50.0%| 21.0%| 78.9%|
|             |                      | Min | 25  | 12  | 50.0%| 21.0%| 78.9%|
|             |                      | Mod | 1   | 12  | 66.6%| 34.8%| 90.0%|
|             |                      | Mod | 6   | 12  | 25.0%| 5.4% | 57.1%|
|             |                      | Mod | 7   | 10  | 10.0%| 0.2% | 44.5%|
|             |                      | Mod | 8   | 8   | 50.0%| 15.7%| 84.3%|
|             |                      | Mod | 9   | 10  | 50.0%| 18.7%| 81.2%|
|             |                      | Mod | 10  | 9   | 33.3%| 7.4% | 70.0%|
|             |                      | Mod | 11  | 10  | 70.0%| 34.7%| 93.3%|
|             |                      | Mod | 14  | 9   | 66.6%| 29.9%| 92.5%|
|             |                      | Mod | 25  | 11  | 36.3%| 10.9%| 69.2%|
|             |                      | Int | 1   | 12  | 66.6%| 34.8%| 90.0%|
|             |                      | Int | 6   | 11  | 27.2%| 6.0% | 60.9%|
|             |                      | Int | 7   | 9   | 44.4%| 13.7%| 78.8%|
|             |                      | Int | 8   | 12  | 58.3%| 27.6%| 84.8%|
|             |                      | Int | 9   | 11  | 72.7%| 39.0%| 93.9%|
|             |                      | Int | 10  | 11  | 36.3%| 10.9%| 69.2%|
|             |                      | Int | 11  | 12  | 50.0%| 21.0%| 78.9%|
|             |                      | Int | 14  | 12  | 33.3%| 9.9% | 65.1%|
|             |                      | Int | 25  | 11  | 45.4%| 16.7%| 76.6%|
|             | Vancomycin           | Min | 1   | 12  | 0%   | 0%   | 26.5%|
|             |                      | Min | 6   | 10  | 0%   | 0%   | 30.8%|
|             |                      | Min | 7   | 12  | 0%   | 0%   | 26.5%|
|             |                      | Min | 8   | 7   | 0%   | 0%   | 41.0%|
|             |                      | Min | 9   | 12  | 0%   | 0%   | 26.5%|
|             |                      | Min | 10  | 12  | 0%   | 0%   | 26.5%|
|             |                      | Min | 11  | 11  | 0%   | 0%   | 28.5%|
|             |                      | Min | 14  | 12  | 0%   | 0%   | 26.5%|
|             |                      | Min | 25  | 12  | 0%   | 0%   | 26.5%|
|             |                      | Mod | 1   | 12  | 0%   | 0%   | 26.5%|
|             |                      | Mod | 6   | 12  | 0%   | 0%   | 26.5%|
|             |                      | Mod | 7   | 10  | 0%   | 0%   | 30.8%|
|             |                      | Mod | 8   | 8   | 0%   | 0%   | 36.9%|
Table S3. Number and proportion (95% confidence intervals) of resistant isolates for each *E. coli*-antimicrobial and *Enterococcus sp.*-antimicrobial combination by treatment group and sample week. N = number of pens per treatment group where respective organism was isolated.
| Chlor | Cipro | Cipro | Cipro | Cipro | Eryth | Eryth | Eryth | Eryth |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Eryth | Eryth | Kanam | Eryth | Cipro |       |       |       |       |
| Kanam | Genta | Linco | Kanam | Eryth |       |       |       |       |
| Linco | Kanam | Nitro | Linco | Kanam |       |       |       |       |
| Nitro | Linco | Pen   | Nitro | Linco |       |       |       |       |
| Quin  | Quin  | Quin  | Quin  | Quin  | Cipro | Cipro | Quin  | Quin  |
| Strep | Strep | Strep | Strep | Strep | Strep | Strep | Strep | Strep |
| Tetra | Tetra | Tetra | Tetra | Tetra | Tetra | Tetra | Tetra | Tetra |
| Tylosin | Cipro | Tylosin | Tylosin | Tylosin | Tylosin | Tetra | Tetra | Tylosin |

**Minimal Group**

*Enterococcus durans*

*Enterococcus faecalis* 1 1 2

*Enterococcus faecium* 4 1 11 1 1

*Enterococcus hirae* 1 3

**Moderate Group**

*Enterococcus faecalis* 1 2

*Enterococcus faecium* 1 2 1 3

*Enterococcus hirae* 1 4 2

**Intensive Group**

*Enterococcus durans*

*Enterococcus faecalis* 4 2

*Enterococcus faecium* 1 3 1 1 1 1

*Enterococcus hirae* 1 1 1 1 1 1
|                          | Eryth Linco Nitro Quin Tetra Tylosin | Eryth Linco Quin Tetra Tylosin | Eryth Linco Quin Tetra Tige Tylosin | Eryth Linco Quin Tetra | Linco Nitro Quin Tetra Tige Tylosin | Linco Nitro Quin Tetra | Linco Strep Tetra | Linco Tetra Tylosin | Nitro Pan-susceptible |
|--------------------------|-------------------------------------|--------------------------------|--------------------------------------|------------------------|-------------------------------------|------------------------|-----------------|-------------------|---------------------|
| **Minimal Group**        |                                     |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus durans      |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus faecalis    |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus faecium     | 1                                   |                                | 2                                    |                        |                                     |                        |                 |                   |                     |
| Enterococcus hirae       | 1                                   |                                | 18                                   |                        |                                     |                        |                 |                   |                     |
| **Moderate Group**       |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus faecalis    | 16                                  |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus faecium     | 2                                   |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus hirae       |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
| **Intensive Group**      |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus durans      | 2                                    |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus faecalis    | 11                                  |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus faecium     |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus hirae       |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
| Enterococcus villorum    |                                      |                                |                                      |                        |                                     |                        |                 |                   |                     |
Table S4. Distribution of antimicrobial resistance patterns (number of isolates) by *Enterococcus* species and treatment group. *Antimicrobial key*: Chlor = chloramphenicol, Cipro = ciprofloxacin, Dapto = daptomycin, Eryth = erythromycin, Genta = gentamicin, Kanam = kanamycin, Linco = lincomycin, Linez = linezolid, Nitro = nitrofurantoin, Pen = penicillin, Quin = quinupristin-dalfopristin, Strep = streptomycin, Tetra = tetracycline, Tige = tigecycline, Tylosin = tylosin tartrate, Vanco = vancomycin
| Bacterial Species | Antimicrobial                | GEE Group + Date + Group + Date + Rep Meas (QIC) | GEE Group + Date + Rep Meas (QIC) | GEE Group + Rep Meas (QIC) | GEE Date + Rep Meas (QIC) |
|-------------------|------------------------------|-----------------------------------------------|---------------------------------|----------------------------|--------------------------|
| *E. coli*         | Amoxicillin/Clavulanic Acid  | 432.2                                         | 414.37                          | 405.8                      | 416.74                   |
| *E. coli*         | Ampicillin                   |                                               |                                 |                            |                          |
| *E. coli*         | Azithromycin                 |                                               |                                 |                            |                          |
| *E. coli*         | Cefoxitin                    |                                               |                                 |                            |                          |
| *E. coli*         | Ceftiofur                    |                                               |                                 |                            |                          |
| *E. coli*         | Ceftriaxone                  |                                               |                                 |                            |                          |
| *E. coli*         | Chloramphenicol              |                                               | 169.59                          | 161.13                     | 166.67                   |
| *E. coli*         | Ciprofloxacin                |                                               |                                 |                            |                          |
| *E. coli*         | Gentamicin                   |                                               |                                 |                            |                          |
| *E. coli*         | Nalidixic Acid               |                                               |                                 |                            |                          |
| *E. coli*         | Streptomycin                 |                                               | 367.48                          | 364.89                     | 404.07                   |
| *E. coli*         | Sulfoxazole                  |                                               | 260.84                          | 251.83                     | 254.21                   |
| *E. coli*         | Tetracycline                 |                                               | 224.39                          | 211.64                     | 224.77                   |
| *E. coli*         | Trimethoprim/Sulfamethoxazole|                                               |                                 |                            |                          |
| *Enterococcus*    | Chloramphenicol              |                                               |                                 |                            |                          |
| *Enterococcus*    | Ciprofloxacin                |                                               |                                 |                            |                          |
| *Enterococcus*    | Daptomycin                   |                                               |                                 |                            |                          |
| *Enterococcus*    | Erythromycin                 |                                               | 403.83                          | 399.9                      | 407.89                   |
| *Enterococcus*    | Gentamycin                   |                                               |                                 |                            |                          |
| *Enterococcus*    | Kanamycin                    |                                               | 223.27                          | 223.38                     | 220.93                   |
| *Enterococcus*    | Lincomycin                   |                                               |                                 |                            |                          |
| *Enterococcus*    | Linezolid                    |                                               |                                 |                            |                          |
| *Enterococcus*    | Nitrofurantoin               |                                               |                                 |                            |                          |
| *Enterococcus*    | Penicillin                   |                                               |                                 |                            |                          |
| *Enterococcus*    | Quinupristin/Dalfopristin    |                                               | 394.93                          | 393.6                      | 407.76                   |
| *Enterococcus*    | Streptomycin                 |                                               | 236.41                          | 237.44                     | 232.19                   |
| *Enterococcus*    | Tetracycline                 |                                               | 299.34                          | 317.16                     |                          |
| *Enterococcus*    | Tigecycline                  |                                               |                                 |                            |                          |
| *Enterococcus*    | Tylosin                      |                                               | 394.49                          | 404.84                     | 392.76                   |
| *Enterococcus*    | Vancomycin                   |                                               |                                 |                            |                          |
Table S5. Quasi Information Criterion (QIC) results for each bacteria-antimicrobial combinations of the four generalized estimating equation models generated.