

Table S8. Predicted minimum inhibitory concentration (MIC) to all drugs evaluated using Accelerated Failure Time models for exposed, unexposed and the estimated difference between them (exposed-unexposed) for enterococi/streptococci from Individual-housed calves where enrofloxacin was the antimicrobial drug (AMD) of exposure. Minimum inhibitory concentration (MIC) predictions were calculated using the exponentiated coefficients from the model results.

| Drug | Variable Level | Exposed | | Unexposed | | Exposed - Unexposed | |
|-------------|----------------|------------------------|-------|------------------------|-------|-------------------------|-------|
| | | MIC (95% CI) | p | MIC (95% CI) | p | MIC difference (95% CI) | p |
| Ampicillin | Pre-Exposure | 0.59 (-0.274 1.449) | 0.181 | 0.51 (-0.490 1.517) | 0.316 | 0.07 (-0.892 1.040) | 0.881 |
| | 1-5 DRT | 0.37 (0.132 0.604) | <0.01 | 0.32 (-0.229 0.872) | 0.252 | 0.05 (-0.545 0.638) | 0.878 |
| | 5-14 DRT | 1.06 (0.242 1.884) | 0.011 | 0.93 (-0.969 2.827) | 0.337 | 0.13 (-1.537 1.805) | 0.875 |
| Florfenicol | Pre-Exposure | 3.18 (1.200 5.170) | <0.01 | 2.96 (1.208 4.717) | <0.01 | 0.22 (-1.995 2.440) | 0.844 |
| | Post-Exposure | 4.95 (1.759 8.145) | <0.01 | 4.61 (2.167 7.045) | <0.01 | 0.35 (-3.125 3.817) | 0.845 |
| Penicillin | Pre-Exposure | 3.28 (-1.301 7.854) | 0.161 | 3.25 (-1.693 8.185) | 0.198 | 0.03 (-5.752 5.812) | 0.992 |
| | 1-5 DRT | 1.25 (0.321 2.177) | <0.01 | 1.24 (-1.123 3.597) | 0.304 | 0.01 (-2.183 2.206) | 0.992 |
| | 5-14 DRT | 3.23 (0.456 6.005) | 0.023 | 3.20 (-2.950 9.350) | 0.308 | 0.03 (-5.648 5.708) | 0.992 |
| Tilmicosin | Pre-Exposure | 20.66 (-11.224 52.536) | 0.204 | 18.36 (-7.351 44.069) | 0.162 | 2.30 (-19.938 24.533) | 0.840 |
| | Post-Exposure | 66.21 (18.252 114.178) | <0.01 | 58.85 (-6.177 123.878) | 0.076 | 7.36 (-59.685 74.414) | 0.830 |