

Table S9. 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 enterococci/streptococci from Group-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	3.20 (-0.441 6.840)	0.085	2.21 (0.088 4.333)	0.041	0.99 (-1.920 3.898)	0.505
	1-3 DPE	1.32 (0.051 2.595)	0.041	0.91 (0.068 1.760)	0.034	0.41 (-0.718 1.536)	0.477
	4-7 DPE	1.18 (-0.140 2.507)	0.080	0.82 (0.540 1.095)	<0.01	0.37 (-0.809 1.541)	0.541
	8-14 DPE	0.76 (-0.017 1.539)	0.055	0.53 (0.122 0.930)	0.011	0.24 (-0.454 0.924)	0.503
Florfenicol	Pre-Exposure	2.83 (2.828 2.828)	<0.01	3.54 (2.184 4.891)	<0.01	-0.71 (-2.063 0.645)	0.305
	1-5 DPE	3.48 (1.353 5.614)	<0.01	4.76 (3.142 6.381)	<0.01	-1.28 (-4.075 1.520)	0.371
	6-14 DPE	6.24 (2.805 9.665)	<0.01	3.62 (1.247 5.994)	<0.01	2.61 (-1.313 6.542)	0.192
Gamithromycin	Pre-Exposure	40.04 (-98.629 178.706)	0.571	120.52 (-306.685 547.734)	0.580	-80.49 (-418.939 257.966)	0.641
	1-3 DPE	34.21 (-61.303 129.730)	0.483	102.99 (-223.959 429.941)	0.537	-68.78 (-344.312 206.757)	0.625
	4-14 DPE	728.41 (-2.9e+03 4335.421)	0.692	2192.68 (-1.0e+04 1.4e+04)	0.726	-1464.27 (-1.1e+04 7727.313)	0.755
Tulathromycin	Pre-Exposure	374.48 (-196.692 945.646)	0.199	261.91 (-117.928 641.751)	0.177	112.57 (-401.420 626.552)	0.668
	Post exposure	371.46 (-26.095 769.020)	0.067	259.80 (-42.937 562.542)	0.093	111.66 (-370.613 593.932)	0.650
Tylosin	Pre-Exposure	613.64 (-1.8e+03 2978.694)	0.611	747.06 (-2.3e+03 3816.749)	0.633	-133.42 (-2.3e+03 2058.796)	0.905
	Post exposure	3928.05 (-1.1e+04 1.9e+04)	0.597	4782.09 (-1.5e+04 2.4e+04)	0.632	-854.04 (-1.5e+04 1.3e+04)	0.906
Penicillin	Pre-Exposure	8.28 (1.919 14.634)	0.011	5.85 (1.648 10.049)	<0.01	2.97 (-4.521 10.463)	0.437
	1-5 DPE	5.30 (0.758 9.848)	0.022	3.50 (1.599 5.398)	<0.01	1.78 (-3.013 6.567)	0.467
	6-14 DPE	2.87 (0.716 5.017)	<0.01	1.79 (0.610 2.962)	<0.01	0.91 (-1.288 3.103)	0.418

*DPE=Days Post Exposure

