

	Antimicrobial agent	% AMR																				Total	Range of Dilution tested																	
			<=0.015	=0.03	=0.06	<=0.12	=0.12	<=0.25	=0.25	<=0.5	=0.5	<=1	=1	=2	<=4	=4	> 4	=8	>8	<=16	=16			>16	=32	>32	=64	>64	>256											
Minimal Group	Amox / Clav	3.8														29	44	28						3	1									105	1/0.5 - 32/16					
	Amp	28.6										14				38	23																		105	1-32				
	Azith	0.0													1	23	76	5								R†	R†								105	0.12 - 16*				
	Cefox	3.8														28	69	4										4							105	0.5 - 32				
	Ceftio	3.8																																		105	0.12 - 8			
	Ceftria	3.8												100																						105	0.25 - 64			
	Chlor	8.6																25	69																	105	2-32			
	Cipro	0.0	98	4																																	105	0.015 - 4		
	Genta	1.0																																				105	0.25 - 16	
	Nalid	1.0																																				105	0.5 - 32	
	Strep	23.8																																				105	2-64.	
	Sulfisox	0.0																																				105	16 - 256**	
	Tetra	83.8																																				105	4-32	
Trim / Sulfa	0.0																																				105	0.12/2.4 - 4/76		
Moderate Group	Amox / Clav	1.0																																			101	1/0.5 - 32/16		
	Amp	47.5																																				101	1-32	
	Azith	0.0																																				101	0.12 - 16*	
	Cefox	0.0																																				101	0.5 - 32	
	Ceftio	0.0																																				101	0.12 - 8	
	Ceftria	0.0																																				101	0.25 - 64	
	Chlor	3.0																																				101	2-32	
	Cipro	0.0	97	3																																		101	0.015 - 4	
	Genta	1.0																																					101	0.25 - 16
	Nalid	0.0																																					101	0.5 - 32
	Strep	60.4																																					101	2-64.
	Sulfisox	0.0																																					101	16 - 256**
	Tetra	91.1																																					101	4-32
Trim / Sulfa	0.0																																					101	0.12/2.4 - 4/76	
Intensive Group	Amox / Clav	3.0																																				101	1/0.5 - 32/16	
	Amp	35.6																																				101	1-32	
	Azith	0.0																																					102	0.12 - 16*
	Cefox	1.0																																					101	0.5 - 32
	Ceftio	1.0																																					101	0.12 - 8
	Ceftria	1.0																																					101	0.25 - 64
	Chlor	8.9																																				101	2-32	
	Cipro	1.0	89	2																																			101	0.015 - 4
	Genta	2.0																																					101	0.25 - 16
	Nalid	4.0																																					101	0.5 - 32
	Strep	21.8																																					101	2-64.
	Sulfisox	0.0																																					101	16 - 256**
	Tetra	93.1																																					101	4-32
Trim / Sulfa	6.9																																					101	0.12/2.4 - 4/76	

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3 Table S1. Distribution (number of isolates) of minimum inhibitory concentrations (MICs) for *Escherichia coli* in swine across all sampling4 events. R†: CLSI breakpoints are not established for azithromycin and *E. coli*; interpretive standards used are NARMS-established breakpoints

5 for resistance monitoring and should not be used to predict clinical efficacy. *: Final dilution tested was >16 corresponding with ≥ 32 . **:

6 Final dilution tested was >256 corresponding with ≥ 512 .

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	Antimicrobial agent	% AMR	MIC Breakpoints																			Total	Range of dilution tested								
			=0.03	=0.06	=0.12	<=0.25	=0.25	<=0.5	=0.5	<=1	=1	=2	=4	>4	=8	>8	=16	=32	>32	=64	>64			<=128	256	<=512	512	1024	>1024	=2048	>2048
Minimal Group	Chlor	0.0									6		87		7															100	2-32
	Cipro	17.0					1		31		23	28	12	5																100	0.12 - 4
	Dapto	5.0									14	41	40		5															100	0.25 - 16
	Eryth	44.0				19					12	18	7		2	42														100	0.25 - 8
	Genta	1.0																						98	2					100	128 - 1024
	Kanam	8.0																					83	7		2		8		100	128 - 1024
	Linco	96.0							4						1	95														100	1-8
	Linez	0.0											92	8																100	0.5 - 8
	Nitro	4.0													2		17	22				55	4							100	2-64
	Pen	1.0									10	22	59		8		1													100	0.25 - 16
	Quin/Dalf	55.0						4			1	40	21		11		13	7	3											100	0.5 - 32
	Strep	9.0																					91			4		4	1	100	512 - 2048
	Tetra	72.0									28																			100	1-32
	Tige	1.0	5	27	53		14		1																					100	0.015 - 0.5
Tylosin	41.0								1	16	15			23		4													100	0.25 - 32	
Vanco	0.0								57	33	10																		100	0.25 - 32	
Moderate Group	Chlor	1.1											9		73		9	1											92	2-32	
	Cipro	6.5					2		37		23	24	5	1															92	0.12 - 4	
	Dapto	4.3									20	40	28		4														92	0.25 - 16	
	Eryth	47.8				31					3	6	8		2	42													92	0.25 - 8	
	Genta	3.3																				87	4				1		92	128 - 1024	
	Kanam	17.4																				67	7		2		16		92	128 - 1024	
	Linco	93.5								3		3																	92	1-8	
	Linez	0.0										5	81	6															92	0.5 - 8	
	Nitro	11.9															2		18	31		30	11						92	2-64	
	Pen	1.1					1				14	30	44		2		1												92	0.25 - 16	
	Quin/Dalf	50.0						3			2	41	16		13		5	10	2										92	0.5 - 32	
	Strep	17.4																					76			6		6	4	92	512 - 2048
	Tetra	72.8									24	1																	92	1-32	
	Tige	0.0	4	25	53		10																						92	0.015 - 0.5	
Tylosin	44.6									1	3	31		14		2												92	0.25 - 32		
Vanco	0.0								58	33	1																	92	0.25 - 32		
Intensive Group	Chlor	0.0											26		73		1												100	2-32	
	Cipro	6.0							53		29	12	3	3															100	0.12 - 4	
	Dapto	1.0									29	51	19		1														100	0.25 - 16	
	Eryth	48.0				33					5	7	6																100	0.25 - 8	
	Genta	6.0																					93	1		3	2	1	100	128 - 1024	
	Kanam	12.0																					87	1				12	100	128 - 1024	
	Linco	94.0								5		1																	100	1-8	
	Linez	0.0									4	96																	100	0.5 - 8	
	Nitro	4.0																											100	2-64	
	Pen	5.0					1				24	40	28		2		5												100	0.25 - 16	
	Quin/Dalf	51.0									5		2	42	15		21		10	5									100	0.5 - 32	
	Strep	14.0																											100	512 - 2048	
	Tetra	85.0									15												86			4		5	5	100	1-32
	Tige	0.0	2	27	60		11																						100	0.015 - 0.5	
Tylosin	49.0									3	12	30		6														100	0.25 - 32		
Vanco	0.0								72	24	4																	100	0.25 - 32		

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10 Table S2. Distribution (number of isolates) of minimum inhibitory concentrations (MICs) for *Enterococcus sp.* in swine across all sampling
 11 events.

Bacteria	Antimicrobial	Group	Week	N	Proportion Resistant	Lower CI	Upper CI
<i>E. coli</i>	Amoxicillin / Clavulonic Acid	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%
		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	8.3%	0.2%	38.4%
		Int	1	9	11.1%	0.2%	48.2%
		Int	6	11	9.0%	0.2%	41.2%
		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%		
<i>E. coli</i>	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%

<i>E. coli</i>	Ampicillin (continued)	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%
<i>E. coli</i>	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%		
<i>E. coli</i>	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%

<i>E. coli</i>	Cefoxitin (continued)	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%		
		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%		
		<i>E. coli</i>	Ceftiofur	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%		
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%		
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%				
<i>E. coli</i>	Ceftriaxone	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%		

<i>E. coli</i>	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%	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%
<i>E. coli</i>	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%		

<i>E. coli</i>	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%
<i>E. coli</i>	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%		
<i>E. coli</i>	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%

<i>E. coli</i>	Gentamicin (continued)	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%
<i>E. coli</i>	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%		
<i>E. coli</i>	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%

<i>E. coli</i>	Streptomycin (continued)	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	11	10	60.0%	26.2%	87.8%		
		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%		
		<i>E. coli</i>	Sulfisoxazole	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%				
<i>E. coli</i>	Tetracycline	Min	1	12	83.3%	51.5%	97.9%		
		Min	6	11	81.8%	48.2%	97.7%		

<i>E. coli</i>	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%		
		<i>E. coli</i>	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%				

<i>E. coli</i>	Trimethoprim/Sulfa (continued)	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%
<i>Enterococcus</i>	Chloramphenicol	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	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	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%		
<i>Enterococcus</i>	Ciprofloxacin	Min	1	12	8.3%	0.2%	38.4%
		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%

<i>Enterococcus</i>	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	12	8.3%	0.2%	38.4%
		Int	14	12	16.6%	2.0%	48.4%
		Int	25	11	18.1%	2.0%	51.7%
		<i>Enterococcus</i>	Daptomycin	Min	1	12	0%
Min	6			10	0%	0%	30.8%
Min	7			12	0%	0%	26.5%
Min	8			7	14.2%	0.3%	57.8%
Min	9			12	16.6%	2.0%	48.4%
Min	10			12	8.3%	0.2%	38.4%
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	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	11.1%	0.2%	48.2%
Mod	11			10	0%	0%	30.8%
Mod	14			9	11.1%	0.2%	48.2%
Mod	25			11	9.0%	0.2%	41.2%
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	0%	0%	28.5%		
<i>Enterococcus</i>	Erythromycin	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	33.0%	9.9%	65.1%
		Min	10	12	50.0%	21.0%	78.9%
		Min	11	11	54.5%	23.3%	83.2%
		Min	14	12	50.0%	21.0%	78.9%

<i>Enterococcus</i>	Erythromycin (continued)	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%
		<i>Enterococcus</i>	Gentamycin	Min	1	12	0.0%
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%
Mod	1			12	16.6%	2.0%	48.4%
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	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%		
<i>Enterococcus</i>	Kanamycin	Min	1	12	33.3%	9.9%	65.1%

<i>Enterococcus</i>	Kanamycin (continued)	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%		
		<i>Enterococcus</i>	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%		

<i>Enterococcus</i>	Lincomycin (continued)	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%
<i>Enterococcus</i>	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%		
<i>Enterococcus</i>	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%

<i>Enterococcus</i>	Nitrofurantoin (continued)	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%
		<i>Enterococcus</i>	Penicillin	Min	1	12	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	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%		
<i>Enterococcus</i>	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%

<i>Enterococcus</i>	Quin / Dalf (continued)	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%
		<i>Enterococcus</i>	Streptomycin	Min	1	12	33.3%
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%		

<i>Enterococcus</i>	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%		
<i>Enterococcus</i>	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%

<i>Enterococcus</i>	Tigecycline (continued)	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%
<i>Enterococcus</i>	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%		
<i>Enterococcus</i>	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%

<i>Enterococcus</i>	Vancomycin (continued)	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%

12

13 Table S3. Number and proportion (95% confidence intervals) of resistant isolates for each *E. coli*-
 14 antimicrobial and *Enterococcus sp.*-antimicrobial combination by treatment group and sample week. N =
 15 number of pens per treatment group where respective organism was isolated.

16

17

18

	Chlor		Cipro	Cipro	Cipro			Eryth	Eryth	Erythro			
	Cipro		Cipro	Eryth	Cipro			Eryth	Eryth				
	Eryth		Eryth	Kanam	Eryth	Cipro		Eryth	Eryth				
	Kanam		Genta	Linco	Kanam	Eryth		Genta	Kanam	Erythro			
	Linco		Kanam	Nitro	Linco	Kanam		Kanam	Linco	Kanam	Eryth		
	Nitro		Linco	Pen	Nitro	Linco		Linco	Pen	Linco	Kanam		
	Quin		Quin	Quin	Quin	Quin	Cipro	Quin	Quin	Quin	Linco		
	Strep		Strep	Strep	Strep	Strep	Linco	Strep	Strep	Strep	Strep		
	Tetra		Tetra	Tetra	Tetra	Tetra	Strep	Tetra	Tetra	Tetra	Tetra	Eryth	
	Tylosin	Cipro	Tylosin	Tylosin	Tylosin	Tylosin	Tetra	Tetra	Tylosin	Tylosin	Tylosin	Tylosin	Linco
Minimal Group													
<i>Enterococcus durans</i>													
<i>Enterococcus faecalis</i>													
<i>Enterococcus faecium</i>													
<i>Enterococcus hirae</i>													
Moderate Group													
<i>Enterococcus faecalis</i>													
<i>Enterococcus faecium</i>													
<i>Enterococcus hirae</i>													
Intensive Group													
<i>Enterococcus durans</i>													
<i>Enterococcus faecalis</i>													
<i>Enterococcus faecium</i>													
<i>Enterococcus hirae</i>													
<i>Enterococcus villorum</i>													

19

20

21

(Continued)	Eryth Linco Nitro Quin Tetra Tylosin	Eryth Linco Pen Quin Tetra Tylosin	Eryth Linco Quin Tetra Tylosin	Eryth Linco Quin Tetra Tylosin	Eryth Linco Quin Tetra Tylosin	Linco	Linco Nitro	Linco Nitro Quin	Linco Quin	Linco Quin Tetra	Linco Strep Tetra	Linco Tetra	Linco Tylosin	Nitro	Pan- susceptible
Minimal Group															
<i>Enterococcus durans</i>		1			2										
<i>Enterococcus faecalis</i>				1	18										
<i>Enterococcus faecium</i>			2		1	11	1	3	5	4		4			
<i>Enterococcus hirae</i>					8	1						12			
Moderate Group															
<i>Enterococcus faecalis</i>					16							1			
<i>Enterococcus faecium</i>	2					9	4	2	1			1		1	3
<i>Enterococcus hirae</i>					11					3		20			
Intensive Group															
<i>Enterococcus durans</i>					2							1			
<i>Enterococcus faecalis</i>					11							2			
<i>Enterococcus faecium</i>						4	1		3		1	2			5
<i>Enterococcus hirae</i>		1			19					1	1	27	1		
<i>Enterococcus villorum</i>					1										

23 Table S4. Distribution of antimicrobial resistance patterns (number of isolates) by *Enterococcus* species and treatment group. *Antimicrobial*
24 *key:* Chlor = chloramphenicol, Cipro = ciprofloxacin, Dapto = daptomycin, Eryth = erythromycin, Genta = gentamicin, Kanam = kanamycin,
25 Linco = lincomycin, Linez = linezolid, Nitro = nitrofurantoin, Pen = penicillin, Quin = quinupristin-dalfopristin, Strep = streptomycin, Tetra =
26 tetracycline, Tige = tigecycline, Tylosin = tylosin tartrate, Vanco = vancomycin

27

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)
<i>E.coli</i>	Amoxicillin/Clavulanic Acid			78.33	
<i>E.coli</i>	Ampicillin	432.2	414.37	405.8	416.74
<i>E.coli</i>	Azithromycin				
<i>E.coli</i>	Cefoxitin				
<i>E.coli</i>	Ceftiofur				
<i>E.coli</i>	Ceftriaxone				
<i>E.coli</i>	Chloramphenicol		169.59	161.13	166.67
<i>E.coli</i>	Ciprofloxacin				
<i>E.coli</i>	Gentamicin			47.61	
<i>E.coli</i>	Nalidixic Acid				
<i>E.coli</i>	Streptomycin		367.48	364.89	404.07
<i>E.coli</i>	Sulfisoxazole		260.84	251.83	254.21
<i>E.coli</i>	Tetracycline		224.39	211.64	224.77
<i>E.coli</i>	Trimethoprim/Sulfamethoxazole				
<i>Enterococcus</i>	Chloramphenicol				
<i>Enterococcus</i>	Ciprofloxacin			190.66	
<i>Enterococcus</i>	Daptomycin			90.52	
<i>Enterococcus</i>	Erythromycin	403.83	399.9	407.89	396.95
<i>Enterococcus</i>	Gentamycin			90.81	
<i>Enterococcus</i>	Kanamycin		223.27	223.38	220.93
<i>Enterococcus</i>	Lincomycin			135.27	
<i>Enterococcus</i>	Linezolid				
<i>Enterococcus</i>	Nitrofurantoin			139.66	
<i>Enterococcus</i>	Penicillin			67.85	
<i>Enterococcus</i>	Quinupristin/Dalfopristin	394.93	393.6	407.76	391.29
<i>Enterococcus</i>	Streptomycin		236.41	237.44	232.19
<i>Enterococcus</i>	Tetracycline		299.34	317.16	
<i>Enterococcus</i>	Tigecycline				
<i>Enterococcus</i>	Tylosin		394.49	404.84	392.76
<i>Enterococcus</i>	Vancomycin				

28

29 Table S5. Quasi Information Criterion (QIC) results for each bacteria-antimicrobial combinations of the four generalized estimating equation
30 models generated.

31

32