

Supplement Table S2. Model 1a: Results from general linear mixed model testing the association between milk yield ratio and different antibiotic dry cow therapy groups in 1,380 cows from 237 dairy farms

Fixed effects	Model 1a output		
	Estimate	SE	<i>P</i> -value ¹
Intercept ^a	7.444×10^{-2}	5.257×10^{-3}	<0.001
penicillins	4.733×10^{-3}	5.801×10^{-3}	0.415
cloxacillin	6.921×10^{-3}	3.537×10^{-3}	0.051
cephalosporins	1.420×10^{-2}	8.783×10^{-3}	0.106
rifaximin	2.993×10^{-2}	1.580×10^{-2}	0.058
Parity	-1.279×10^{-2}	8.309×10^{-4}	<0.001
log ₁₀ (SCCa) ^b	-1.384×10^{-2}	2.599×10^{-3}	<0.001
Random effects	Variance	SD	
Herd	3.626×10^{-4}	1.904×10^{-2}	
residuals	2.709×10^{-3}	5.205×10^{-2}	

¹Significance was declared at *P*-values <0.05.

^aIntercept = milk yield ratio was the reference category and calculated using the milk yield in 305 DIM from the milk recording data before and after dry cow therapy.

^blog₁₀(SCCa) = SCC from the first milk recording data after calving.