

Table S2: Estimated coefficients and odds ratios from a multilevel mixed effects logistic regression model for the association between survey factors and decreased use of antimicrobial drugs (AMD) that were previously available over the counter.

Variables	Coefficient	SE	Odds Ratio	95% CI		<i>P</i> -value ¹
				Lower	Upper	
Region²						
GSCA	Referent					
NCA + NSJV	0.42	0.53	1.53	0.53	4.37	0.43
Herd size						
<1304	Referent					
≥1304	1.83	0.68	6.30	1.64	24.10	<0.01
Breed						
Holstein	Referent					
Jersey	0.21	1.76	1.23	0.03	39.66	0.91
Crossbred	1.25	1.46	3.52	0.20	61.91	0.39
Mix/Other	1.01	0.68	2.75	0.71	10.58	0.13
Use or increased use of preventive alternatives to AMD since 2018						
No	Referent					
Yes	1.17	0.58	3.23	1.02	10.21	0.04

¹Factors are statistically significant at $P \leq 0.05$.

² Northern California (NCA), Northern San Joaquin Valley (NSJV), and Greater Southern California (GSCA)