

Table: S2 Result of the univariate analysis of factors associated with FMD high knowledge score (Mixed model)

Variables	Score >2	Total	Slope parameter	Odds ratio 95%CI	p-value
Sex of respondents					
Male	149	348	0.247	1.28 (0.70, 2.31)	0.412
Female	25	67	Referent		
Respondents' province					
Limpopo	66	107	1.004	2.73 (1.3, 5.3)	0.004
Mpumalanga	108	308	Referent		
Age of respondents					
Other age groups	134	334	Referent		
51-60 years	39	80	0.374	1.45 (0.85, 2.48)	0.170
≤50 years	36	68	Referent		
>50 years	137	346	0.549	0.57 (0.33, 1.01)	0.053
District of respondents					
Ehlanzeni	108	308	Referent		
Mopani	18	39	0.452	1.50 (0.59, 4.1)	0.357
Vhembe	48	68	1.389	4.01 (1.74, 9.21)	0.001
Respondents' education					
No education	45	138	Referent		

Some education	128	274	0.630	1.87 (1.17, 2.99)	0.008
Occupation of respondents					
Outside livestock	34	69	Referent		
Livestock	112	298	-0.325	0.72 (0.41, 1.25)	0.245
Pensioner	23	37	0.322	1.38 (0.57, 3.32)	0.472
Herd grazing management					
Cattle owner	101	216	0.423	1.52 (0.97, 2.38)	0.062
Other grazing methods	73	199	Referent		
Number Cattle on the farm					
≤5 cattle	43	114	Referent		
6-9 cattle	39	88	0.322	1.37 (0.74, 2.55)	0.305
10-15 cattle	37	100	-0.043	0.95 (0.52, 1.75)	0.890
>15 cattle	53	109	0.558	1.74 (0.97, 3.14)	0.063
≤9	82	202	Referent		
>9	90	209	0.132	1.14 (0.74, 1.75)	0.549
≤15 cattle	119	302	Referent		
>15 cattle	53	109	0.475	1.60 (0.99, 2.61)	0.055
Continuous			0.007	1.01 (0.99;.1.02)	0.303
Number of poultry on farm					

0	100	231	Referent		
≤10	22	59	-0.031	0.96 (0.50, 1.86)	0.926
11-15	15	33	0.183	1.20 (0.53, 2.72)	0.660
16-25	20	46	0.309	1.36 (0.66, 2.79)	0.399
>25	17	44	-0.006	0.99 (0.48, 2.04)	0.987
Poultry farm					
No	100	231	Referent		
Yes	74	184	0.068	1.07 (0.68, 1.68)	0.767
Number of pigs on the farm					
0	161	374	Referent		
≤3	3	14	-0.922	0.39 (0.09, 1.66)	0.206
4-5	3	9	-0.125	0.88 (0.20, 3.87)	0.868
6-8	2	10	-1.433	0.23 (0.04, 1.27)	0.093
>8	5	8	1.209	3.35 (0.70, 16.0)	0.129
>5	7	18	referent		
≤5	6	23	0.827	2.28 (0.46, 11.2)	0.300
Pig farm					
No	161	374	Referent		
Yes	13	41	-0.375	0.68 (0.32, 1.45)	0.325
Number of goat on the farm					

0	106	258	Referent		
≤4	17	50	-0.240	0.78 (0.39, 1,58)	0.501
5-7	15	35	0.065	1.06 (0.48, 2.33)	0.871
8-12	13	30	0.114	1.12 (0.49, 2.55)	0.785
>12	23	42	0.656	1.92 (0.92, 4.01)	0.079
≤7	32	85	Referent		
>7	36	72	0.610	1.84 (0.90, 3.73)	0.091
Number of sheep on farm					
0	169	405	Referent		
≤2	2	2	12.642	Error	0.973
3-6	-	1	-12.858	0.00	0.981
7-9	1	3	-0.415	0.60 (0.05;8)	0.744
>9	2	2	12.562	error	0.973
≤6	2	5	Referent		
>6	3	5	0.896	2.44 (0.10, 55.7)	0.527
Total livestock units					
≤3	54	131	Referent		
4-6	35	87	0.079	1.08 (0.59, 1.96)	0.793
7-10.2	34	77	0.043	1.04 (0.56, 1.93)	0.891
>10.2	51	120	0.070	1.07 (0.61, 1.85)	0.804

≤ 6	79	195	Referent			
> 6	95	220	0.051	1.05 (0.68, 1.61)	0.814	
