

Supplementary Table S1—Adjusted odds ratios and 95% CIs from multivariable mixed model logistic regression analysis for potential risk factors for AEs in 4,654,187 dogs within 3 days following vaccination.

Risk factor	Odds ratio	95% CI	P value
Sex and neuter status			
Male, sexually intact	1.00	NA	NA
Female, sexually intact	1.06	1.01-1.11	0.025
Male, neutered	1.04	1.00-1.08	0.040
Female, spayed	1.26	1.21-1.30	<0.001
Age			
2 to 9 mo	1.00	NA	NA
1 y	1.14	1.09-1.19	<0.001
2 y	0.97	0.92-1.01	0.167
3 y	0.72	0.68-0.76	<0.001
4-5 y	0.76	0.73-0.80	<0.001
6-7 y	0.60	0.57-0.63	<0.001
8-9 y	0.52	0.50-0.55	<0.001
10-11 y	0.46	0.43-0.49	<0.001
>11 y	0.35	0.33-0.38	<0.001
Weight			
0-5 kg	1.96	1.73-2.28	<0.001
>5-10 kg	1.60	1.40-1.84	<0.001
>10-15 kg	1.47	1.28-1.69	<0.001
>15-20 kg	1.18	1.02-1.36	0.023
>20-25 kg	1.15	1.00-1.33	0.052
>25-30 kg	1.16	1.00-1.34	0.047
>30-35 kg	1.20	1.03-1.39	0.016
>35-40 kg	1.12	0.95-1.31	0.177
>40-45 kg	0.98	0.82-1.18	0.829
>45 kg	1.00	NA	NA
Breed (selected)			
Boston Terrier	3.69	3.26-4.17	<0.001
Boxer	2.14	1.92-2.39	<0.001
Chihuahua	1.88	1.73-2.05	<0.001
Dachshund	4.06	3.70-4.46	<0.001
English Bulldog	1.99	1.71-2.31	<0.001
French Bulldog	4.14	3.71-4.63	<0.001
German Shepherd	0.67	0.60-0.75	<0.001
Golden Retriever	0.98	0.87-1.10	0.704
Jack Russell Terrier	1.39	1.20-1.62	<0.001
Labrador Retriever	0.88	0.80-0.97	0.007

Mixed	1.00	NA	NA
Pit Bull	1.90	1.74-2.07	<0.001
Pug	2.69	2.40-3.01	<0.001
Siberian Husky	1.05	0.93-1.18	0.441
Yorkshire Terrier	1.28	1.17-1.41	<0.001
Number of vaccines per visit			
1	1.00	NA	NA
2	1.28	1.24-1.32	<0.001
3	1.58	1.53-1.64	<0.001
4	1.82	1.74-1.90	<0.001
5	1.65	1.51-1.80	<0.001