

Supplementary materials

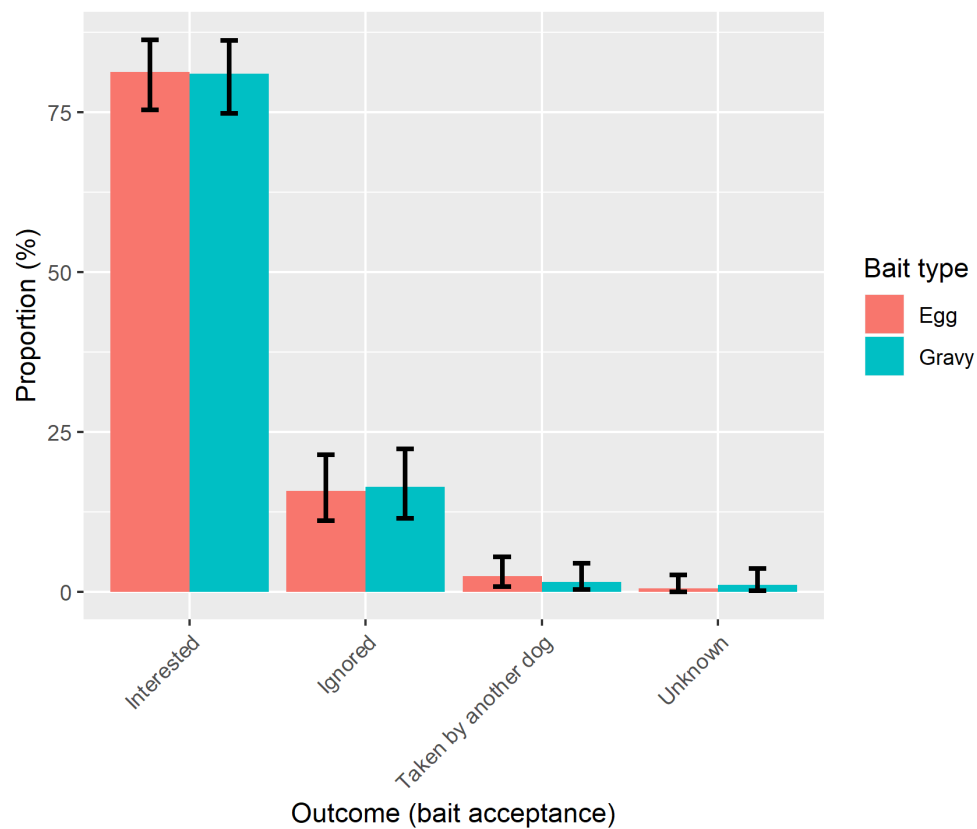
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1 Bait acceptance

Table showing bait acceptance for each bait type (k = number of baits by group, n = total number of baits for bait type, lci = lower 95% confidence interval, uci = upper 95% confidence interval).

bait_type	bait_acceptance	k	n	prop	prop_lci	prop_uci
Egg	Ignored	33	209	15.79	11.12	21.45
Egg	Interested	170	209	81.34	75.39	86.38
Egg	Taken by another dog	5	209	2.39	0.78	5.49
Egg	Unknown	1	209	0.48	0.01	2.64
Gravy	Ignored	32	195	16.41	11.50	22.37
Gravy	Interested	158	195	81.03	74.81	86.27
Gravy	Taken by another dog	3	195	1.54	0.32	4.43
Gravy	Unknown	2	195	1.03	0.12	3.66

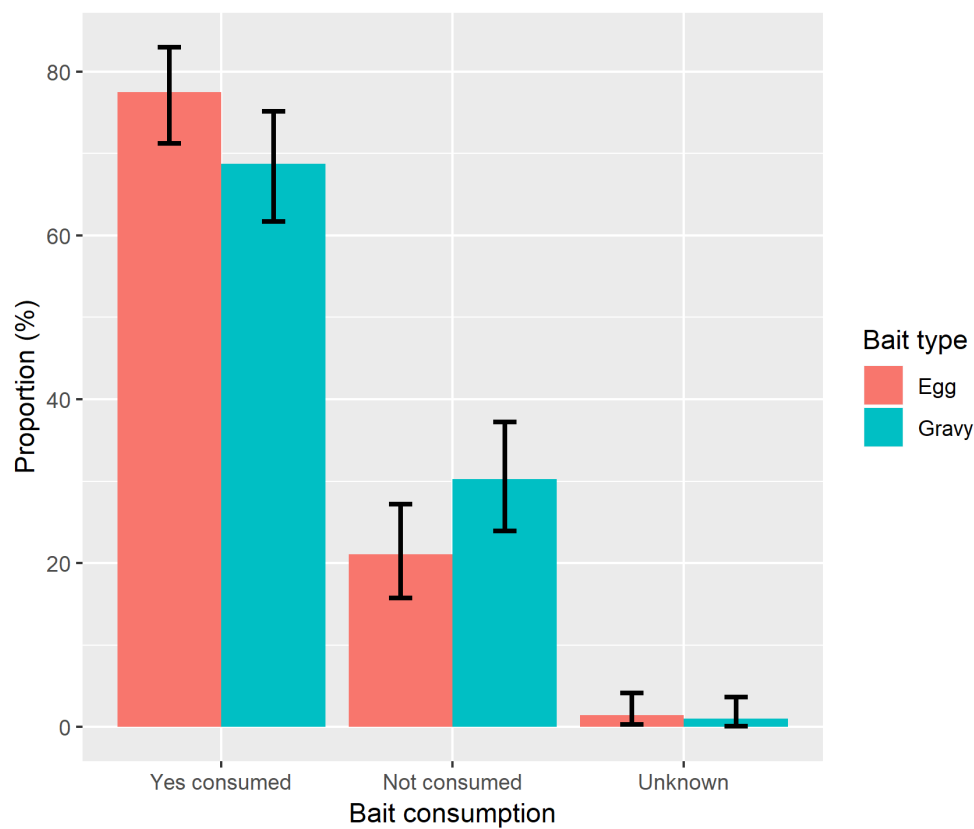


2 Bait consumption

Table showing bait consumption for each bait type (k = number of baits by group, n = total number of baits for bait type, lci = lower 95% confidence interval, uci = upper 95% confidence interval).

bait_type	bait_consumed	k	n	prop	prop_lci	prop_uci
Egg	Not consumed	44	209	21.05	15.73	27.21
Egg	Unknown	3	209	1.44	0.30	4.14
Egg	Yes consumed	162	209	77.51	71.24	82.98
Gravy	Not consumed	59	195	30.26	23.90	37.23
Gravy	Unknown	2	195	1.03	0.12	3.66
Gravy	Yes consumed	134	195	68.72	61.70	75.15

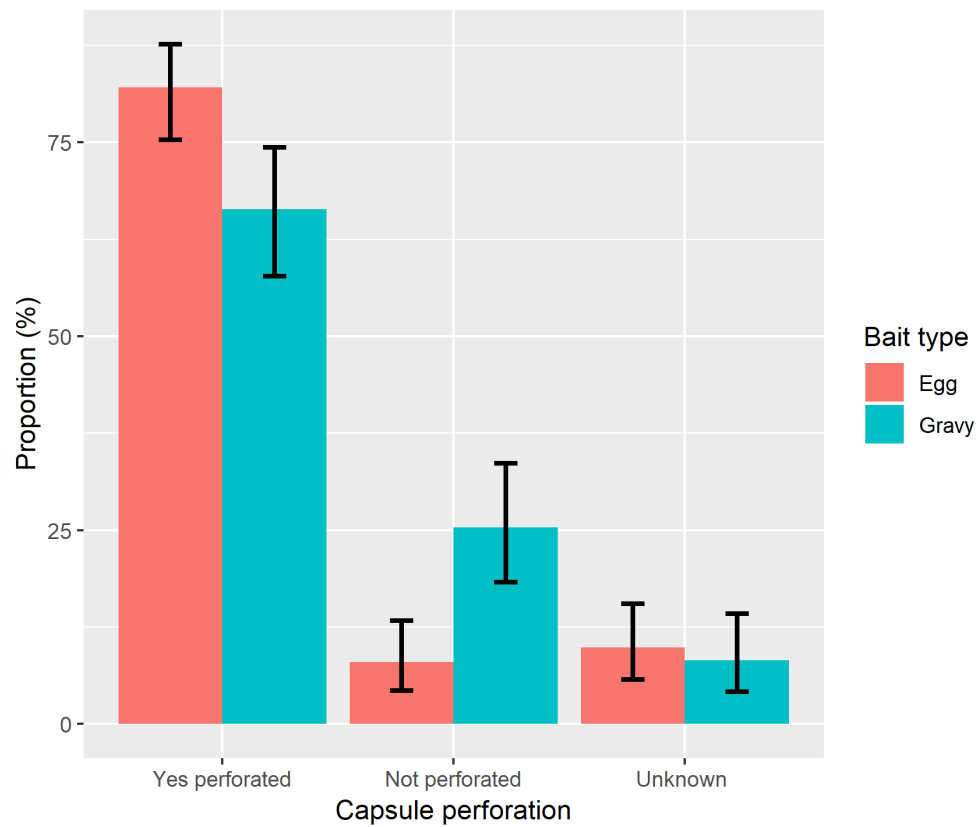
Chart showing the proportion of all dogs offered baits which took the bait into the oral cavity (consumed)



3 Capsule perforation

Table showing capsule perforation outcome for each bait type (k = number of baits by group, n = total number of baits for bait type, lci = lower 95% confidence interval, uci = upper 95% confidence interval).

bait_type	perforate_status	k	n	prop	prop_lci	prop_uci
Egg	Not perforated	13	162	8.02	4.34	13.33
Egg	Unknown	16	162	9.88	5.75	15.54
Egg	Yes perforated	133	162	82.10	75.31	87.67
Gravy	Not perforated	34	134	25.37	18.26	33.61
Gravy	Unknown	11	134	8.21	4.17	14.21
Gravy	Yes perforated	89	134	66.42	57.75	74.34

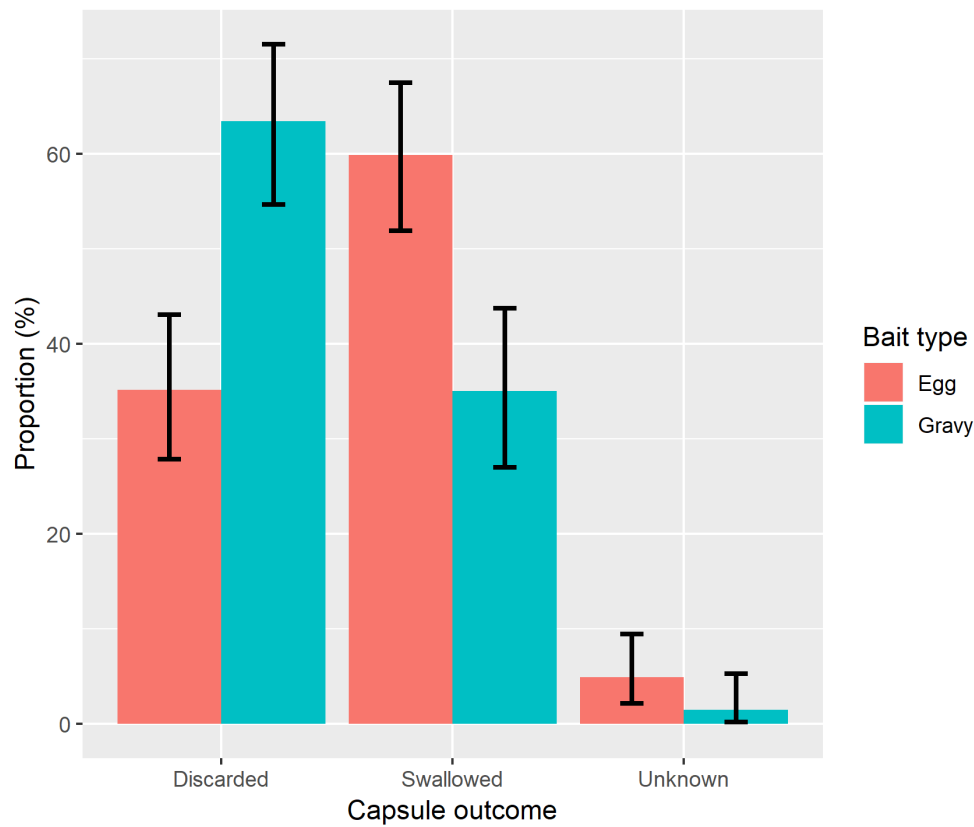


4 Bait outcome

Table showing capsule perforation outcome for each bait type (k = number of baits by group, n = total number of baits for bait type, lci = lower 95% confidence interval, uci = upper 95% confidence interval).

bait_type	capsule_status	k	n	prop	prop_lci	prop_uci
Egg	Discarded	57	162	35.19	27.86	43.07
Egg	Swallowed	97	162	59.88	51.90	67.49
Egg	Unknown	8	162	4.94	2.16	9.50
Gravy	Discarded	85	134	63.43	54.68	71.58
Gravy	Swallowed	47	134	35.07	27.04	43.79
Gravy	Unknown	2	134	1.49	0.18	5.29

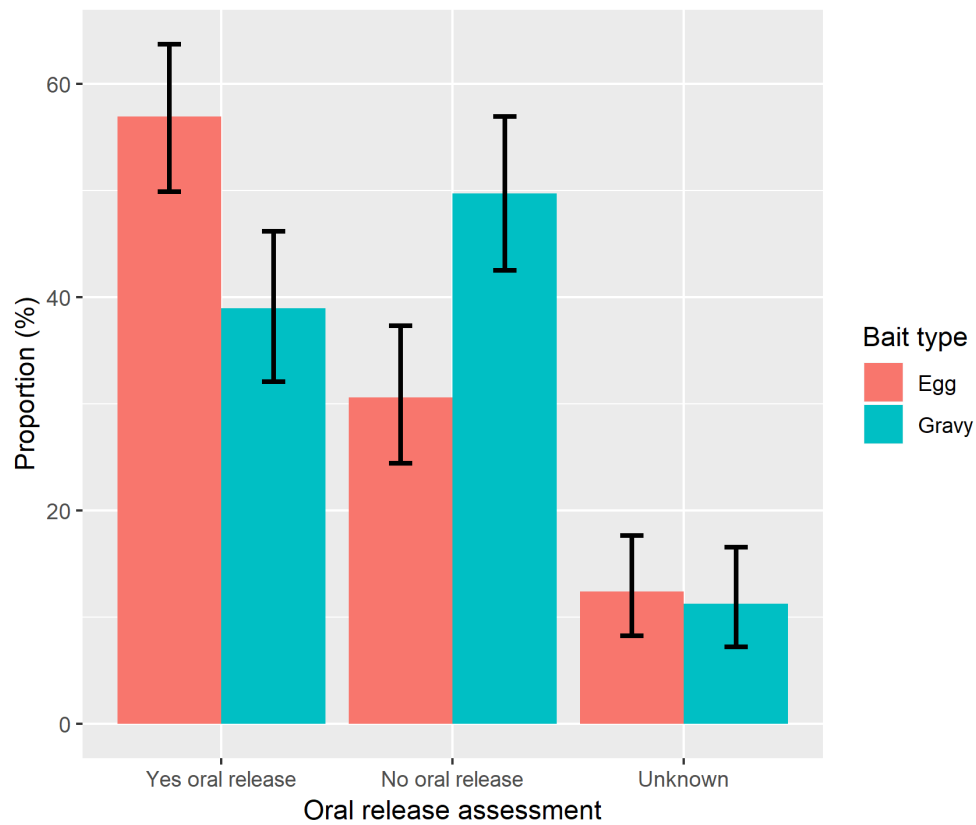
Chart showing the perforation status for all dogs consuming baits



5 Vaccination Assessment

Table showing vaccination assessment outcome for each bait type (k = number of baits by group, n = total number of baits for bait type, lci = lower 95% confidence interval, uci = upper 95% confidence interval).

bait_type	assessment	k	n	prop	prop_lci	prop_uci
Egg	No oral release	64	209	30.62	24.45	37.35
Egg	Unknown	26	209	12.44	8.29	17.69
Egg	Yes oral release	119	209	56.94	49.93	63.75
Gravy	No oral release	97	195	49.74	42.52	56.97
Gravy	Unknown	22	195	11.28	7.21	16.58
Gravy	Yes oral release	76	195	38.97	32.09	46.20



6 Dog demographics

Table showing demographic data for each bait type.

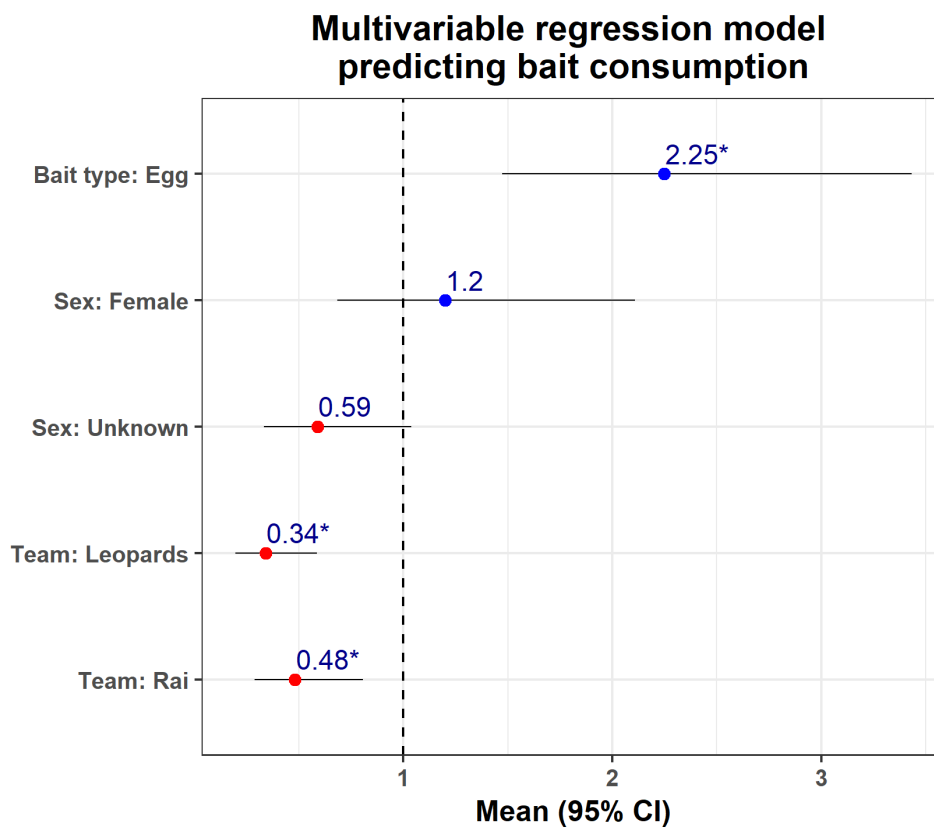
Variable	Egg	Gravy
Sex		
female	29	41
male	131	102
unknown	49	52
Age		
adult	182	170
juvenile	11	16
puppy	3	1
unknown	13	8
Size		
medium	167	156
large	5	5
small	17	19
unknown	20	15
Ownership		
owned	NA	1
stray	199	186
unknown	10	8
Supervision		
confined	4	1
roaming	200	190
unknown	5	4
Group		
multiple	73	62
single	119	118
unknown	17	15

7 Model outputs

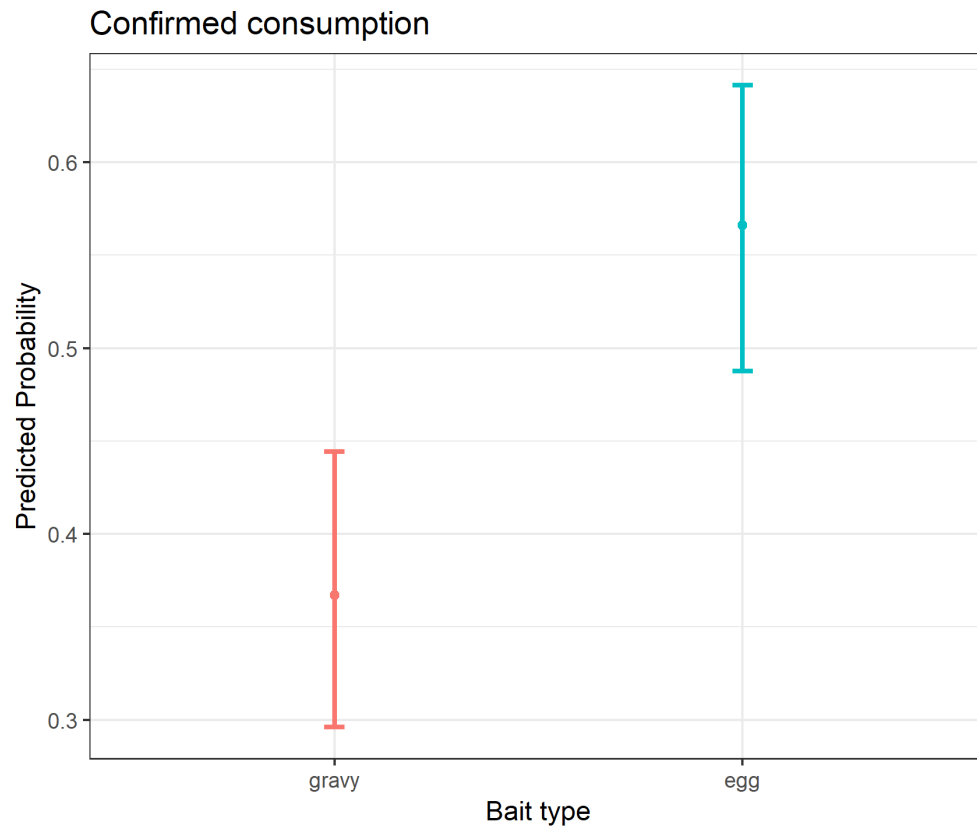
7.1 Confirmed ‘vaccination’ outcome

Multivariable regression model which explored the factors that predicted observation of release of blue-dye liquid in the oral cavity.

variable	estimate	lci	uci	p.value
Bait type: Egg	2.25	1.47	3.43	<0.001
Sex: Female	1.20	0.68	2.11	0.526
Sex: Unknown	0.59	0.33	1.04	0.067
Team: Leopards	0.34	0.20	0.59	<0.001
Team: Rai	0.48	0.29	0.81	0.005



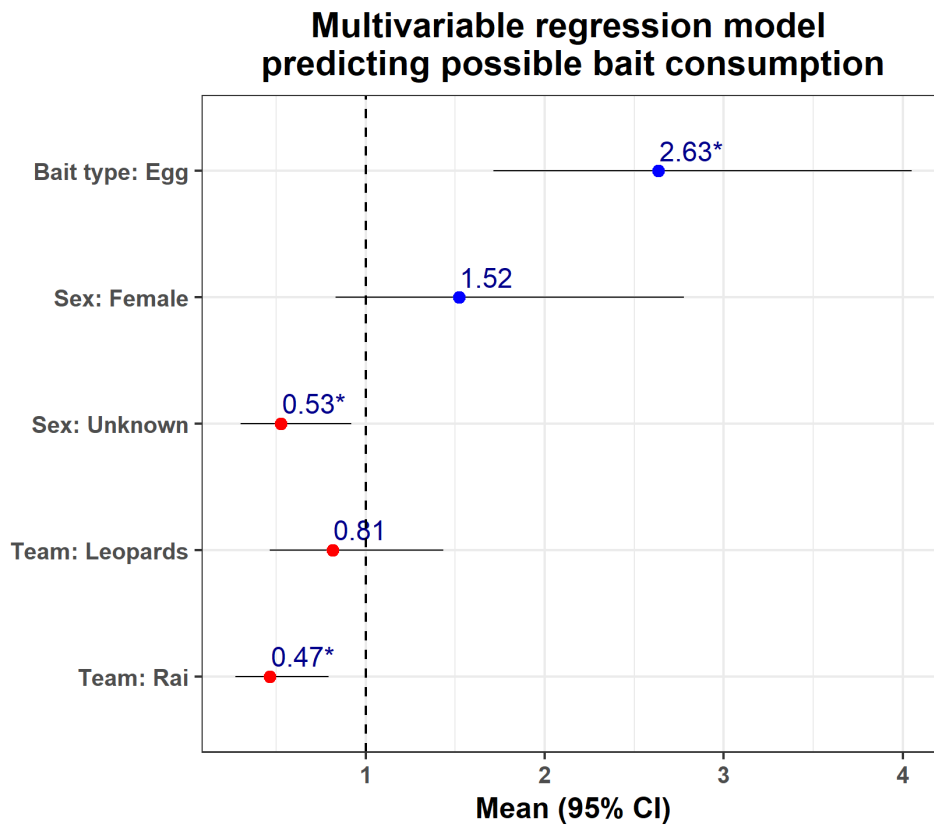
bait_type	prob	lci	uci
gravy	0.37	0.30	0.44
egg	0.57	0.49	0.64



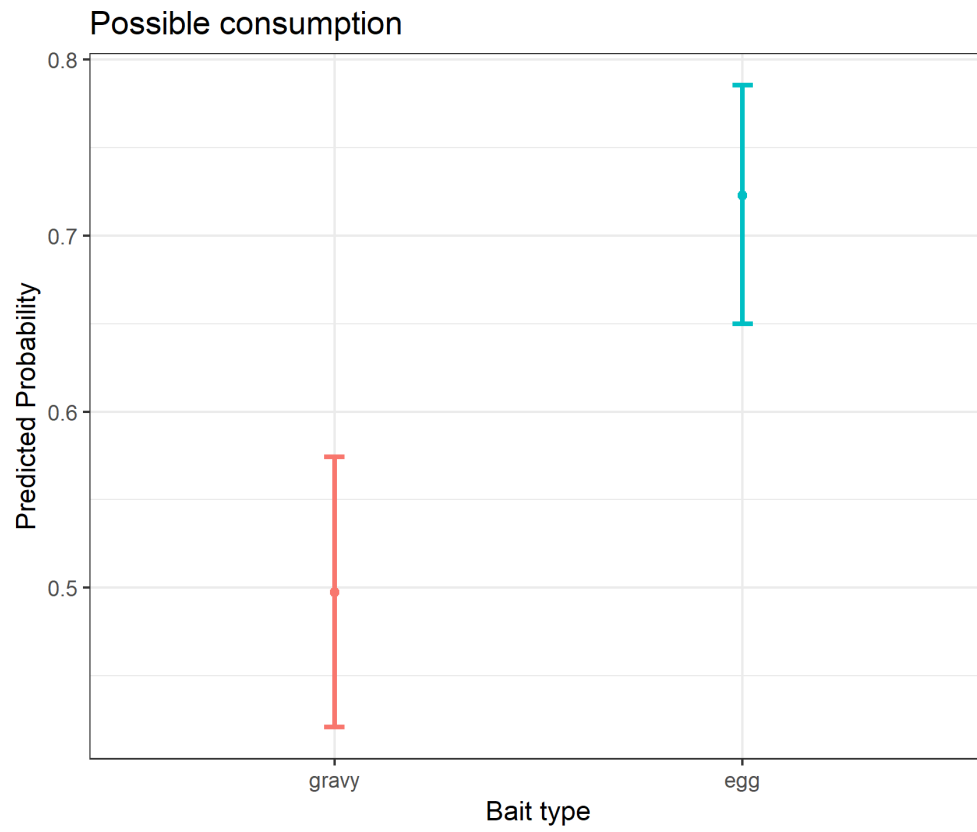
7.2 Possible ‘vaccination’ outcome

In addition to dogs which were observed to release blue dye liquid in the oral cavity, this group included dogs where the bait was seen to be consumed, but release of blue dye could not be observed and yet may still have occurred.

variable	estimate	lci	uci	p.value
Bait type: Egg	2.63	1.71	4.05	<0.001
Sex: Female	1.52	0.83	2.78	0.173
Sex: Unknown	0.52	0.30	0.92	0.024
Team: Leopards	0.81	0.46	1.43	0.475
Team: Rai	0.46	0.27	0.79	0.005



bait_type	prob	lci	uci
gravy	0.50	0.42	0.57
egg	0.72	0.65	0.79

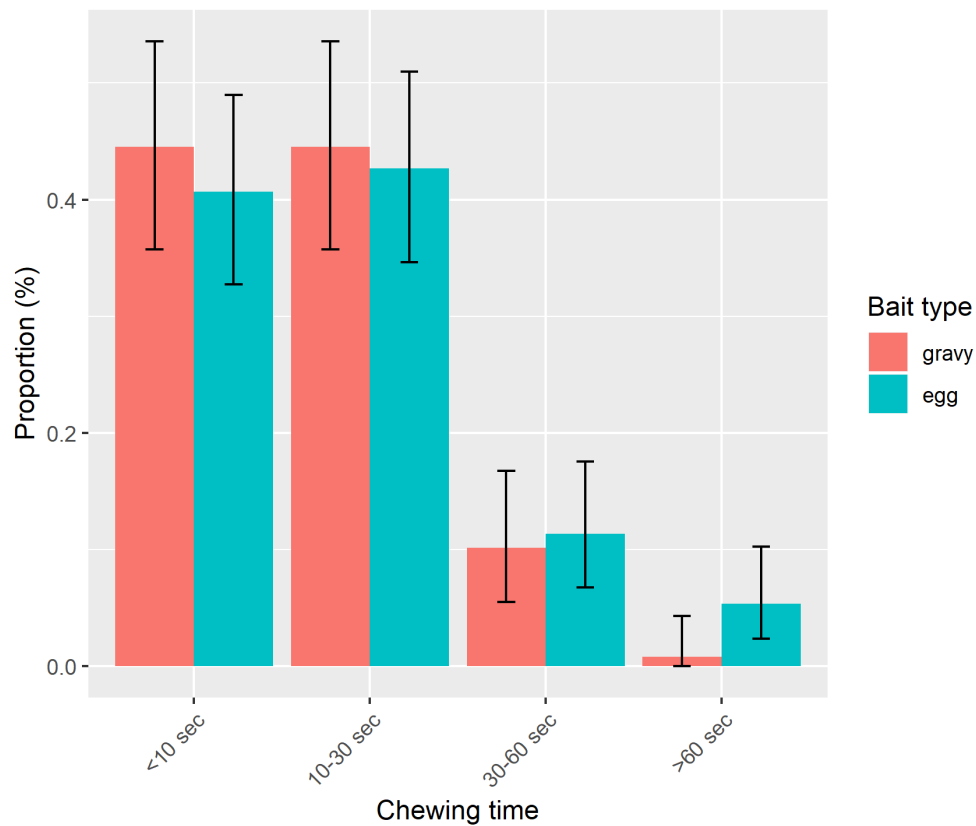


8 Bait handling time

Table showing bait handling time by bait type

bait_type	chewing_time	k	n	est	lci	uci
gravy	<10 sec	57	128	0.45	0.36	0.54
gravy	10-30 sec	57	128	0.45	0.36	0.54
gravy	30-60 sec	13	128	0.10	0.06	0.17
gravy	>60 sec	1	128	0.01	0.00	0.04
egg	<10 sec	61	150	0.41	0.33	0.49
egg	10-30 sec	64	150	0.43	0.35	0.51
egg	30-60 sec	17	150	0.11	0.07	0.18
egg	>60 sec	8	150	0.05	0.02	0.10

Chart of bait handling time and bait type



8.1 Bait handling time by dogs in groups and alone

Table summarising chewing time for each bait type for dogs in groups (multiple) or alone (single).

Bait consumption	Chewing time	Egg			Gravy		
		Single	Multiple	Unknown	Single_1	Multiple_1	Unknown_1
Consumed	<10 sec	30	28	3	33	21	3
Consumed	10-30 sec	38	19	7	41	11	5
Consumed	30-60 sec	15	2	0	11	2	0
Consumed	>60 sec	6	2	0	0	1	0
Consumed	unknown	6	4	2	0	4	2
Not consumed		22	18	4	31	23	5
Unknown		2	0	1	2	0	0

8.2 Ordinal logistic regression

Ordinal logistic regression analysis to evaluate the effect of team and the presence of multiple dogs on bait handling time.

bait_type	chewing_time	k	n	est	lci	uci
gravy	<10 sec	57	128	0.45	0.36	0.54
gravy	10-30 sec	57	128	0.45	0.36	0.54
gravy	30-60 sec	13	128	0.10	0.06	0.17
gravy	>60 sec	1	128	0.01	0.00	0.04
egg	<10 sec	61	150	0.41	0.33	0.49
egg	10-30 sec	64	150	0.43	0.35	0.51
egg	30-60 sec	17	150	0.11	0.07	0.18
egg	>60 sec	8	150	0.05	0.02	0.10

Ordinal logistic regression model predicting chew time

