Additional file 8: All contrasts of associations for variables included in the final multivariable random effects logistic regression model for observed hand hygiene compliance for opportunities associated with routine companion animal appointments at 38 veterinary clinics in Ontario (n = 10894)

Variable	Interaction	Comparison	OR	95% CI		p-value
				Lower	Upper	
Posters	-	Absent vs present	1.04	0.91	1.19	0.5347
Recording day	-	Per 1 day increase	1.04	1.002	1.087	0.0408
Room*role	Exam room	Other vs veterinarian	0.27	0.19	0.39	<0.0001
		Other vs technician	0.58	0.40	0.85	0.0053
		Veterinarian vs technician	2.15	1.80	2.56	<0.0001
	Backroom	Other vs veterinarian	0.21	0.05	0.94	0.0408
		Other vs technician	0.19	0.04	0.83	0.0271
		Veterinarian vs technician	0.90	0.63	1.28	0.5522
	Exam room vs backroom	Other	0.72	0.15	3.34	0.6723
		Veterinarian	0.56	0.38	0.83	0.0036
		Technician	0.23	0.15	0.35	<0.0001
Gender*HH opp type	Male	Before patient contact vs before "clean" procedure	9.16	2.02	41.56	0.0041
		Before patient contact vs after "dirty" procedure	0.10	0.05	0.19	<0.0001
		Before patient contact vs after glove removal	0.10	0.04	0.24	<0.0001
		Before patient contact vs after patient contact	0.14	0.09	0.22	<0.0001
		Before "clean" procedure vs after "dirty" procedure	0.01	0.002	0.05	<0.0001
		Before "clean" procedure vs after glove removal	0.01	0.002	0.06	<0.0001
		Before "clean" procedure vs after patient contact	0.02	0.004	0.07	<0.0001
		After "dirty" procedure vs after glove removal	1.08	0.43	2.68	0.8761
		After "dirty" procedure vs after patient contact	1.51	0.85	2.69	0.1575
		After glove removal vs after patient contact	1.41	0.65	3.03	0.3824
		Before patient contact vs before "clean" procedure	1.40	0.81	2.42	0.2263

Gender*HH						p-value
				Lower	Upper	
Gender*HH opp type	Female	Before patient contact vs after "dirty" procedure	0.05	0.03	0.08	<0.0001
		Before patient contact vs after glove removal	0.03	0.02	0.06	<0.0001
		Before patient contact vs after patient contact	0.07	0.05	0.09	<0.0001
		Before "clean" procedure vs after "dirty" procedure	0.04	0.02	0.07	<0.0001
		Before "clean" procedure vs after glove removal	0.02	0.01	0.05	<0.0001
l		Before "clean" procedure vs after patient contact	0.05	0.03	0.08	<0.0001
		After "dirty" procedure vs after glove removal	0.68	0.37	1.26	0.2172
		After "dirty" procedure vs after patient contact	1.40	0.93	2.09	0.1052
		After glove removal vs after patient contact	2.06	1.23	3.43	0.0057
	Male vs female	Before patient contact	1.21	0.79	1.83	0.3784
		Before "clean" procedure	0.18	0.04	0.80	0.0244
		After "dirty" procedure	0.62	0.37	1.05	0.0749
		After glove removal	0.39	0.18	0.88	0.0224
		After patient contact	0.57	0.46	0.71	<0.0001
Room*HH opp type	Exam room	Before patient contact vs before "clean" procedure	4.12	1.91	8.90	0.0003
		Before patient contact vs after "dirty" procedure	0.12	0.09	0.17	<0.0001
		Before patient contact vs after glove removal	0.08	0.05	0.13	<0.0001
		Before patient contact vs after patient contact	0.08	0.07	0.10	<0.0001
		Before "clean" procedure vs after "dirty" procedure	0.03	0.01	0.07	<0.0001
		Before "clean" procedure vs after glove removal	0.02	0.008	0.04	<0.0001
		Before "clean" procedure vs after patient contact	0.02	0.01	0.04	<0.0001
		After "dirty" procedure vs after glove removal	0.63	0.38	1.03	0.0669

Variable	Interaction	Comparison	OR	95% CI		p-value
				Lower	Upper	
Room*HH opp type	Exam room	After "dirty" procedure vs after patient contact	0.67	0.51	0.89	0.0054
		After glove removal vs after patient contact	1.07	0.69	1.66	0.7631
	Backroom	Before patient contact vs before "clean" procedure	3.11	0.95	10.21	0.0614
		Before patient contact vs after "dirty" procedure	0.04	0.02	0.09	<0.0001
		Before patient contact vs after glove removal	0.04	0.02	0.12	<0.0001
		Before patient contact vs after patient contact	0.12	0.07	0.20	<0.0001
		Before "clean" procedure vs after "dirty" procedure	0.01	0.003	0.05	<0.0001
		Before "clean" procedure vs after glove removal	0.01	0.004	0.06	<0.0001
		Before "clean" procedure vs after patient contact	0.04	0.01	0.12	<0.0001
		After "dirty" procedure vs after glove removal	1.17	0.39	3.45	0.07818
		After "dirty" procedure vs after patient contact	3.15	1.49	6.70	0.0028
		After glove removal vs after patient contact	2.71	1.13	6.50	0.0261
	Exam room vs backroom	Before patient contact	0.64	0.31	1.29	0.2119
		Before "clean" procedure	0.48	0.16	1.42	0.1863
		After "dirty" procedure	0.19	0.08	0.48	0.0004
		After glove removal	0.36	0.13	1.03	0.0574
		After patient contact	0.91	0.54	1.54	0.7278

OR=odds ratio, CI=confidence interval, HH opp=hand hygiene opportunity Statistically significant contrasts (p<0.05) are in **boldface**