

Table 4. Crude and adjusted logistic regression comparing characteristics of individuals with respiratory virus co-infection versus single infection among those tested by (i) SARS-CoV-2+MRVP.

Variables/Categorise	SARS-CoV-2 + MRVP (n=2,218)			
	Co-infection	Single	Crude results	Adjusted
	Counts (%)	Counts (%)	OR (95% CI)	OR (95% CI)
Age group				
65+	19 (21.3)	983 (42.3)	1	1
<65	70 (78.7)	1,142 (53.7)	3.2 (1.9 -5.3) *	3.1 (1.5-6.2) *
Sex				
F	35 (39.3)	1,152 (54.1)	1	1
M	54 (60.7)	977 (45.9)	1.8 (1.2-2.8) *	1.6 (1.0-2.5) *
Ontario region				
Central	44 (49.4)	909 (42.7)	1	1
Eastern	8 (9.0)	171 (8.0)	1.0 (0.5-2.1)	1.2 (0.5-2.7)
South West	7 (7.9)	207 (9.7)	0.7 (0.3-1.6)	0.8 (0.3-1.7)
Toronto	28 (31.5)	678 (31.9)	0.9 (0.5-1.4)	0.8 (0.5-1.3)
North	2 (2.3)	164 (7.7)	0.3 (0.1-1.1)	0.3 (0.6-1.2)
Outbreak-related				
No	75 (84.3)	1,514 (71.1)	1	1
Yes	14 (15.7)	615 (28.9)	0.5 (0.3-0.8) *	0.9 (0.4-2.2)
Patient setting				
Ambulatory/no setting	12 (13.5)	353 (16.6)	1	1
ER	51 (57.3)	826 (38.8)	1.8 (0.9-3.5)	1.4 (0.7-2.7)
Inpatient	9 (10.1)	192 (9.0)	1.4 (0.6-3.3)	1.7 (0.7-4.3)
Institution	17 (19.1)	758 (35.6)	0.7 (0.3-1.4)	1.4 (0.5-3.8)
Respiratory viruses				
Other respiratory	81 (91.0)	1,812 (85.1)	1	1
SARS-CoV-2	8 (9.0)	317 (14.9)	0.6 (0.3-1.2)	0.82 (0.4-1.8)
Specimen type				
Throat	26 (29.2)	423 (19.9)	1	1
Nasopharyngeal	62 (69.7)	1,618 (76.0)	0.6 (0.4-1.0)	1.0 (0.6-1.7)
Other	1 (1.1)	88 (4.1)	0.2 (0.3-1.4)	0.2 (0.1-1.5)

Footnote: This analysis was restricted to individuals with positive results for specimens tested by SARS-CoV-2 + MRVP. Co-infection category includes all specimens that had at least two respiratory viruses detected whether it was SARS-CoV-2 with a seasonal respiratory viruses or two or more seasonal respiratory viruses. Eight specimens with co-infection of SARS-CoV-2 and

seasonal respiratory virus were counted in both respiratory viruses categories. Single infection category includes all specimens that had only one respiratory virus. Some variables (age, region, patient setting) were aggregated further to reduce small sample size cells. Age was categorized as <65 and 65+. North Eastern and North Western regions were aggregated to North; and Central East and Central West regions were aggregated to Central. Persons receiving care in hospital or intensive care unit were aggregated to inpatients. No setting represents individuals for which setting was not recorded in the test requisition. Other specimen type category included nasal swab, bronchoalveolar lavage, eye, oral, swab undefined etc.

* indicates p-value <0.05 and 95% CI do not cross 1.