

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 40 - ending October 5, 2019

The Respiratory Virus Detection Surveillance System collects data from select laboratories across Canada on the number of tests performed and the number of tests positive for influenza and other respiratory viruses. Data are reported on a weekly basis year-round to the Centre for Immunization and Respiratory Infectious Diseases (CIRID), Public Health Agency of Canada. These data are also summarized in the weekly FluWatch report.

Table 1: Respiratory Virus Detections/Isolations for the week ending October 5, 2019 (Reporting Week 201940)

Reporting Laboratory	Flu Tested	A(H1N1)pdm09 Positive	A(H3) Positive	A(UnS) Positive	Total Flu A Positive	Total Flu B Positive	RSV Tested	RSV Positive	PIV Tested	PIV 1 Positive	PIV 2 Positive	PIV 3 Positive	PIV 4 Positive	Other PIV Positive	Adeno Tested	Adeno Positive	hMPV Tested	hMPV Positive	Entero/Rhino Tested	Entero/Rhino Positive	Coron Tested	Coron Positive
Newfoundland	66	0	0	0	0	0	66	0	66	0	0	0	0	0	66	0	66	0	66	23	N.A.	N.A.
Prince Edward Island	10	0	0	0	0	0	10	0	2	0	0	0	0	0	2	0	2	0	2	2	2	0
Nova Scotia	36	0	0	0	0	0	39	0	31	1	0	0	0	0	31	1	31	0	31	11	31	0
New Brunswick	142	0	0	0	0	0	142	0	46	0	0	0	0	0	46	5	46	0	46	14	46	0
Atlantic	254	0	0	0	0	0	257	0	145	1	0	0	0	0	145	6	145	0	145	50	79	0
Région Nord-Est	27	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	114	0	0	1	1	0	120	0	116	1	0	0	0	0	117	3	111	0	N.A.	N.A.	111	0
Centre-du-Québec	63	0	0	0	0	0	57	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	680	0	0	3	3	0	690	7	478	12	0	0	0	0	478	22	471	0	N.A.	N.A.	471	0
Ouest du Québec	82	0	0	0	0	0	82	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	43	0	0	0	0	0	43	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1009	0	0	4	4	0	1018	10	594	13	0	0	0	0	595	25	582	0	N.A.	N.A.	582	0
P.H.O.L. - Ottawa	21	0	0	0	0	0	21	0	16	0	0	0	0	0	16	0	15	0	1	0	0	0
CHEO - Ottawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - Kingston	31	0	0	0	0	0	31	0	19	0	0	0	0	0	19	0	18	0	1	0	0	0
UHN / Mount Sinai Hospital	214	0	0	1	1	2	214	0	17	0	0	0	0	0	0	0	17	1	0	0	N.A.	N.A.
P.H.O.L. - Toronto	258	0	2	0	2	0	258	0	255	3	0	0	0	0	255	1	249	0	6	0	0	0
Sick Kids Hospital - Toronto	48	0	0	0	0	0	48	1	48	2	0	0	1	0	48	1	48	0	48	19	48	0
Sunnybrook & Women's College HSC	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	8	0	8	0
P.H.O.L. - Sault Ste. Marie	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
P.H.O.L. - Timmins	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
St. Joseph's - London	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - London	61	0	0	0	0	0	61	1	58	0	0	0	0	0	58	0	56	0	2	0	0	0
P.H.O.L. - Orillia	40	0	0	0	0	0	40	0	26	0	0	0	0	0	26	0	26	0	0	0	0	0
P.H.O.L. - Thunder Bay	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
P.H.O.L. - Sudbury	6	0	0	0	0	0	6	0	6	0	1	0	0	0	6	0	6	0	0	0	0	0
P.H.O.L. - Hamilton	84	0	0	0	0	0	84	1	84	0	1	0	0	0	84	0	83	0	1	0	0	0
P.H.O.L. - Peterborough	32	0	0	0	0	0	32	0	27	0	0	0	0	0	27	0	27	0	0	0	0	0
Province of Ontario	823	0	2	1	3	2	823	3	584	5	1	1	1	0	567	2	573	1	67	19	56	0
Manitoba	215	0	0	0	0	0	215	1	131	0	0	0	0	0	131	2	67	0	131	40	67	0
Regina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saskatoon	126	0	0	0	0	0	126	3	126	5	1	0	0	0	126	1	126	0	126	47	126	1
Province of Saskatchewan	126	0	0	0	0	0	126	3	126	5	1	0	0	0	126	1	126	0	126	47	126	1
Province of Alberta	661	0	3	7	10	0	579	0	579	10	7	0	1	0	579	12	579	1	579	223	579	2
Prairies	1002	0	3	7	10	0	920	4	836	15	8	0	1	0	836	15	772	1	836	310	772	3
British Columbia	546	0	4	17	25	0	530	3	197	8	3	2	0	0	197	0	197	5	181	64	182	1
Yukon	45	0	0	1	1	0	45	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Northwest Territories	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	8	7	8	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Territories	54	0	0	1	1	0	54	0	9	0	0	0	0	0	9	0	9	0	9	7	9	0
CANADA	3688	0	9	30	43	2	3602	20	2365	42	12	3	2	0	2349	48	2278	7	1238	450	1680	4

Specimens from Yukon (YT), Northwest Territories (NT) and Nunavut (NU) are sent to reference laboratories in other provinces and reported results reflect specimens identified as originating from YT, NT or NU.

Results from British Columbia comprise of specimens from the following sites: BC Children's and Women's Hospital, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Victoria Coastal Health, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

Delays in the reporting of data may cause data to change retrospectively.

For British Columbia, only data from subtyped influenza A specimens are included in the values for A(H1N1pdm09), A(H3N2) and A(UnS). The sum of the values for A(H1N1pdm09), A(H3N2) and A(UnS) will not equal the A total column for the British Columbia and Canada.

Table 2: Respiratory Virus Detections/Isolations for the period August 25, 2019 - October 5, 2019 (Reporting Weeks 201935-201940)

Reporting Laboratory	Flu Tested	A(H1N1)pdm09 Positive	A(H3) Positive	A(UnS) Positive	Total Flu A Positive	Total Flu B Positive	RSV Tested	RSV Positive	PIV Tested	PIV 1 Positive	PIV 2 Positive	PIV 3 Positive	PIV 4 Positive	Other PIV Positive	Adeno Tested	Adeno Positive	hMPV Tested	hMPV Positive	Entero/Rhino Tested	Entero/Rhino Positive	Coron Tested	Coron Positive
Newfoundland	259	0	0	0	0	0	259	0	259	3	0	0	0	0	259	0	259	0	259	85	N.A.	N.A.
Prince Edward Island	17	0	0	0	0	0	17	0	7	0	0	0	0	0	7	0	7	0	7	5	7	0
Nova Scotia	117	0	0	0	0	0	121	0	71	3	0	1	0	0	71	1	71	0	71	18	71	0
New Brunswick	624	1	1	2	4	1	624	1	255	5	0	0	0	0	255	12	255	0	255	88	255	0
Atlantic	1017	1	1	2	4	1	1021	1	592	11	0	1	0	0	592	13	592	0	592	196	333	0
Région Nord-Est	139	0	0	0	0	0	121	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	353	0	0	1	1	0	424	0	447	3	0	1	0	0	459	9	359	0	N.A.	N.A.	423	0
Centre-du-Québec	185	0	0	1	1	0	170	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	2781	0	0	16	16	5	2841	23	2221	30	1	1	1	0	2221	90	2006	6	N.A.	N.A.	2187	5
Ouest du Québec	313	0	0	3	3	0	316	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	297	0	0	3	3	1	295	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	4068	0	0	24	24	6	4167	31	2668	33	1	2	1	0	2680	99	2365	6	N.A.	N.A.	2610	5
P.H.O.L. - Ottawa	82	0	0	0	0	0	80	0	75	1	0	0	0	0	75	0	72	0	3	0	0	0
CHEO - Ottawa	428	0	0	1	1	1	428	5	101	0	0	0	1	0	101	1	101	0	104	33	99	0
P.H.O.L. - Kingston	79	0	0	0	0	0	79	1	67	0	0	0	0	0	67	0	65	0	3	0	0	0
UHN / Mount Sinai Hospital	1056	0	0	9	9	4	1056	6	95	0	0	3	2	0	0	0	95	2	0	0	N.A.	N.A.
P.H.O.L. - Toronto	1178	0	10	0	10	1	1178	2	1161	14	0	2	0	0	1161	4	1117	0	57	0	0	0
Sick Kids Hospital - Toronto	216	0	0	0	0	0	216	6	216	7	0	0	3	0	216	1	216	4	216	88	216	0
Sunnybrook & Women's College HSC	39	0	0	0	0	0	39	0	39	0	0	0	0	0	39	0	39	0	39	5	39	0
P.H.O.L. - Sault Ste. Marie	26	0	0	0	0	0	26	0	26	0	0	0	0	0	26	0	25	0	1	0	0	0
P.H.O.L. - Timmins	15	0	0	0	0	0	15	0	15	0	0	0	0	0	15	0	15	0	1	0	0	0
St. Joseph's - London	117	0	0	0	0	0	117	1	117	2	1	0	0	0	117	3	117	0	116	37	115	0
P.H.O.L. - London	229	0	0	0	0	0	229	1	225	2	0	0	0	0	225	1	215	0	18	0	0	0
P.H.O.L. - Orillia	89	0	1	0	1	0	89	0	74	0	0	0	0	0	74	0	73	0	1	0	0	0
P.H.O.L. - Thunder Bay	29	0	0	0	0	0	29	0	29	0	0	1	0	0	29	0	24	0	5	0	0	0
P.H.O.L. - Sudbury	37	0	0	0	0	0	37	0	36	0	0	1	0	0	36	1	31	0	6	0	0	0
P.H.O.L. - Hamilton	272	1	2	0	3	1	266	3	265	2	1	0	0	0	265	2	261	0	6	0	0	0
P.H.O.L. - Peterborough	106	0	0	0	0	0	103	0	98	0	0	0	0	0	98	0	98	0	3	0	0	0
Province of Ontario	3998	1	13	10	24	7	3987	25	2639	28	2	7	6	0	2544	13	2564	6	579	163	469	0
Manitoba	1146	0	0	1	1	1	1146	4	815	1	1	1	0	0	815	11	351	2	815	149	351	1
Regina	833	0	0	5	5	0	833	0	470	3	0	0	0	0	470	6	363	0	470	137	470	0
Saskatoon	581	0	0	1	1	0	581	5	581	11	1	0	1	0	581	15	584	0	581	200	581	1
Province of Saskatchewan	1414	0	0	6	6	0	1414	5	1051	14	1	0	1	0	1051	21	947	0	1051	337	1051	1
Province of Alberta	3212	3	26	11	40	5	2891	0	2891	31	10	8	7	0	2891	52	2891	7	2891	1046	2891	7
Prairies	5772	3	26	18	47	6	5451	9	4757	46	12	9	8	0	4757	84	4189	9	4757	1532	4293	9
British Columbia	1879	4	44	23	75	0	1811	7	1031	23	6	8	3	0	1031	6	1031	38	796	161	972	4
Yukon	96	0	7	1	6	0	96	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Northwest Territories	55	0	0	0	0	0	54	0	54	0	0	0	0	0	54	0	54	1	54	37	54	1
Nunavut	15	0	0	0	0	0	15	0	15	0	2	0	0	0	15	2	15	0	15	7	15	0
Territories	166	0	7	1	6	0	165	0	69	0	2	0	0	0	69	2	69	1	69	44	69	1
CANADA	16900	9	91	78	180	20	16602	73	11756	141	23	27	18	0	11673	217	10810	60	6793	2096	8746	19

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Due to reporting delays, the sum of weekly report totals do not add up to cumulative totals.

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Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2019-2020

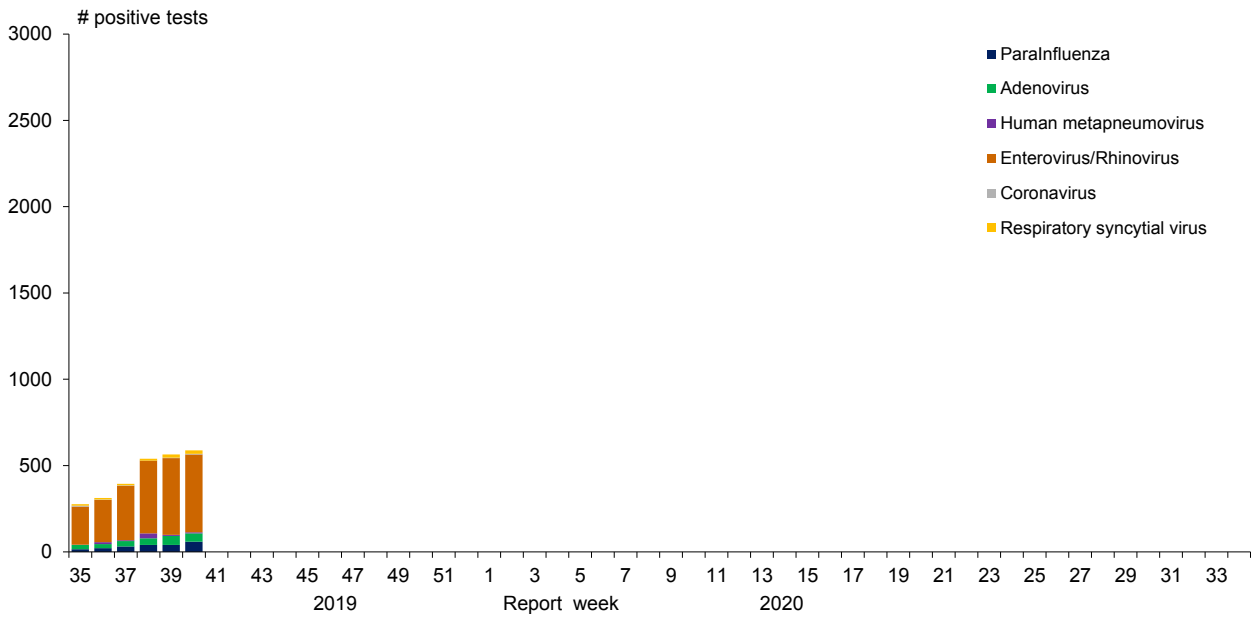


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

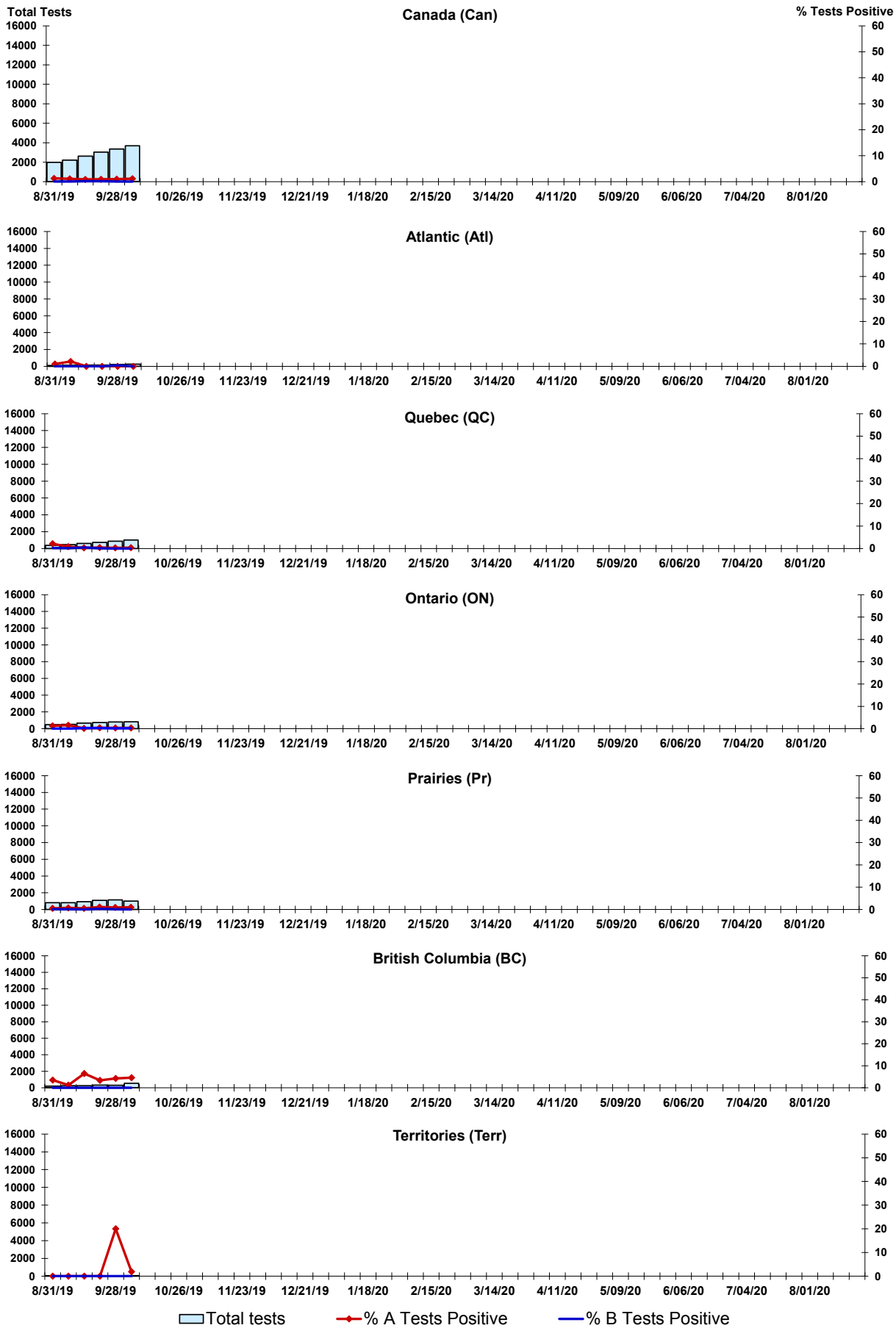


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

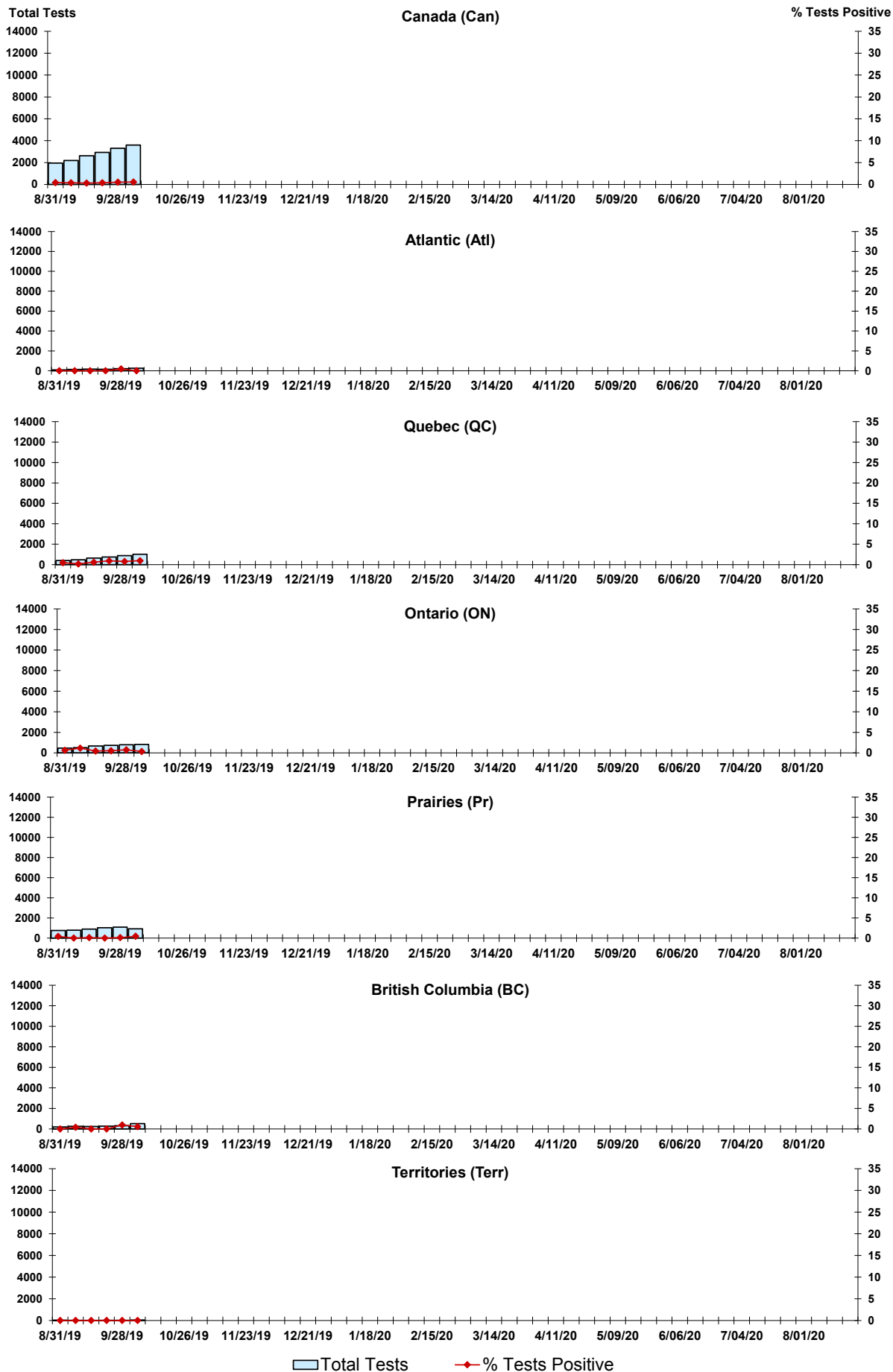


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

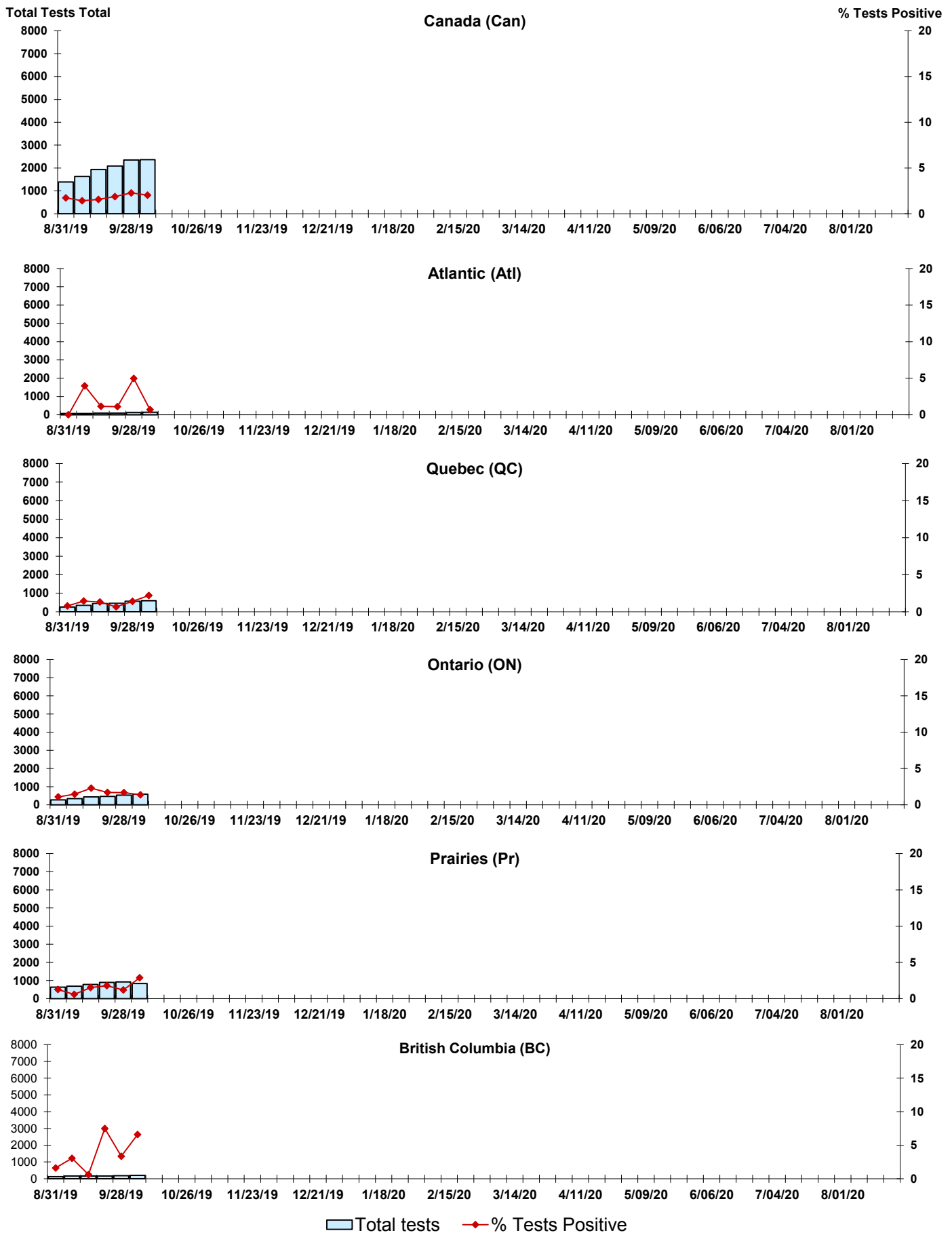


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

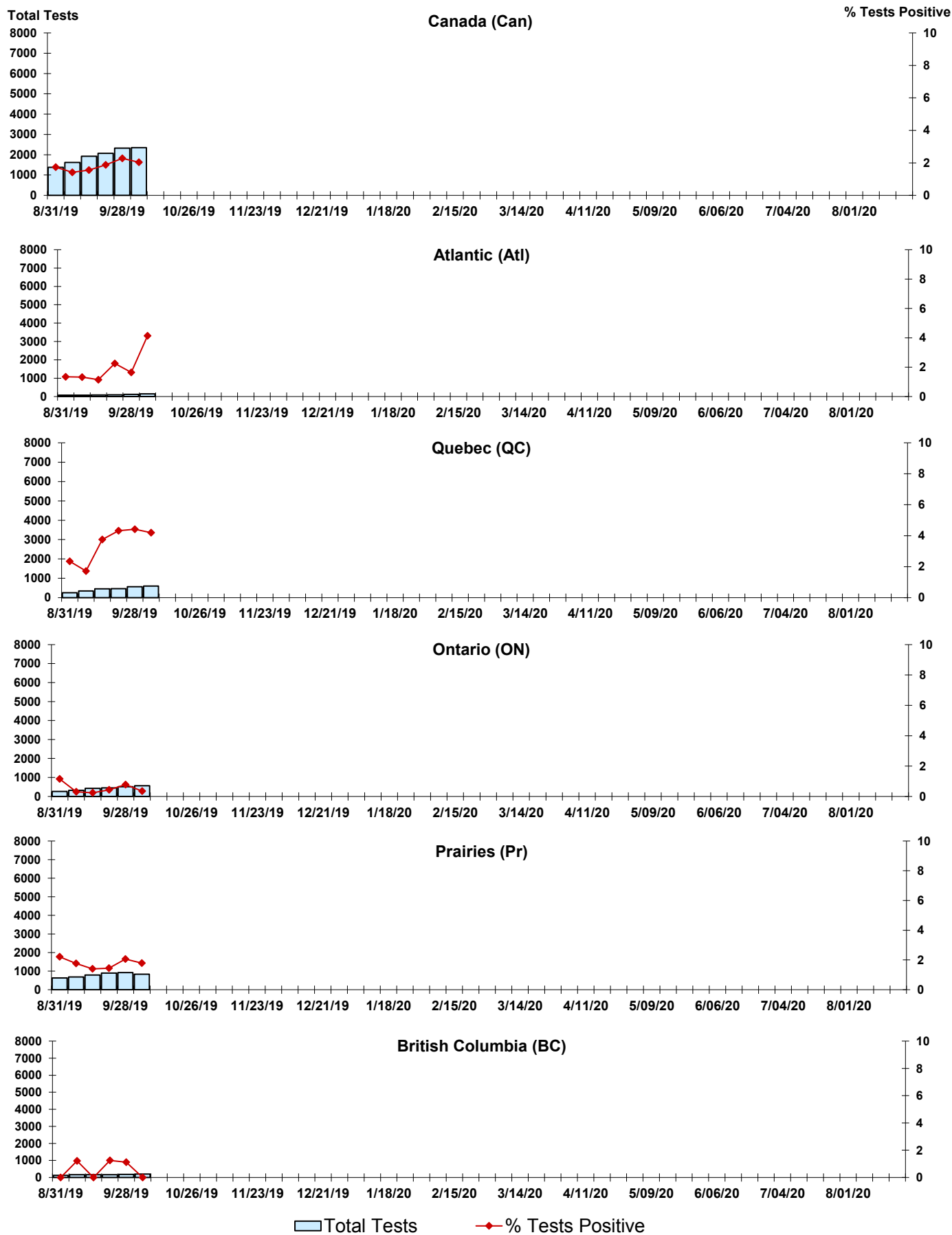


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

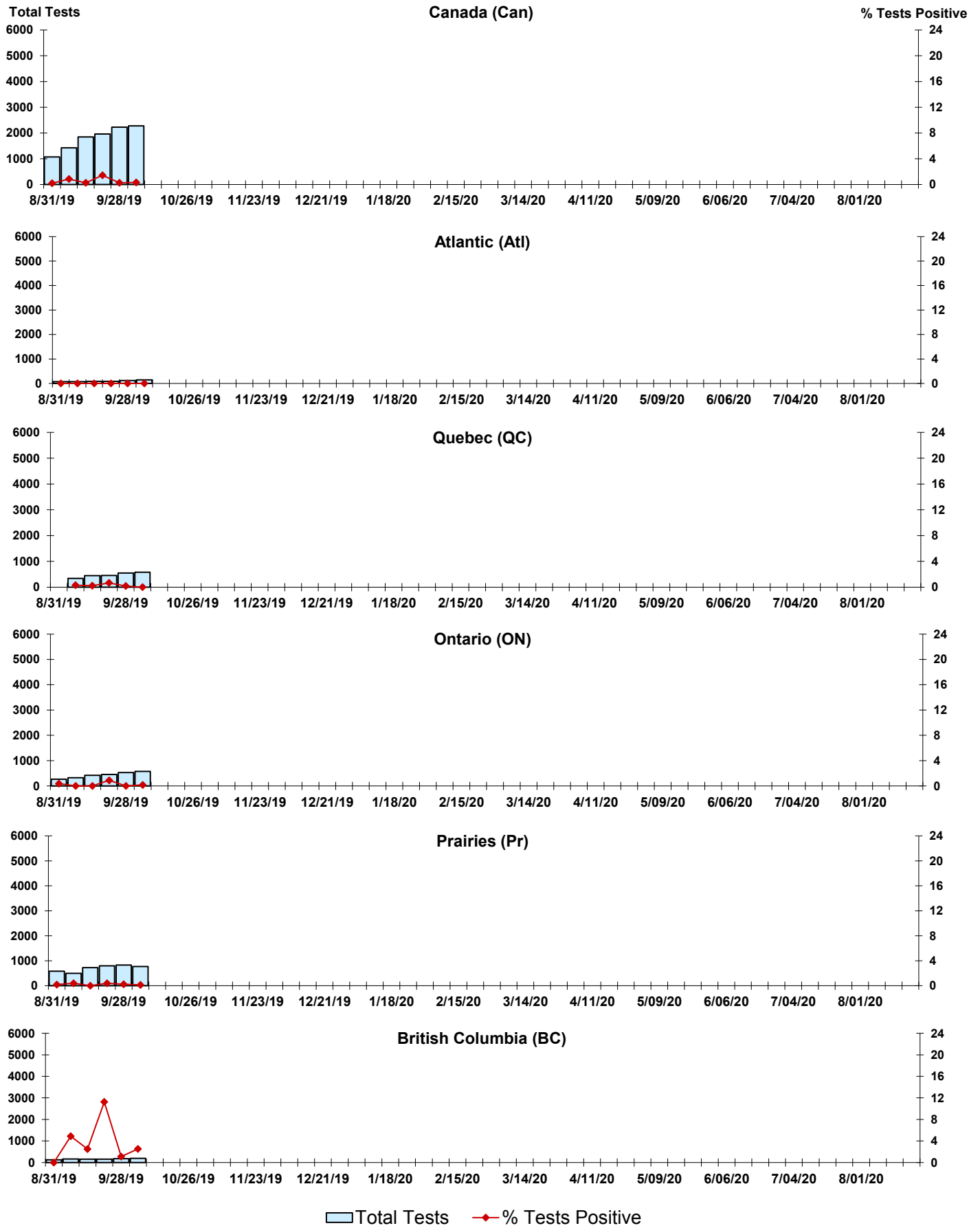


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

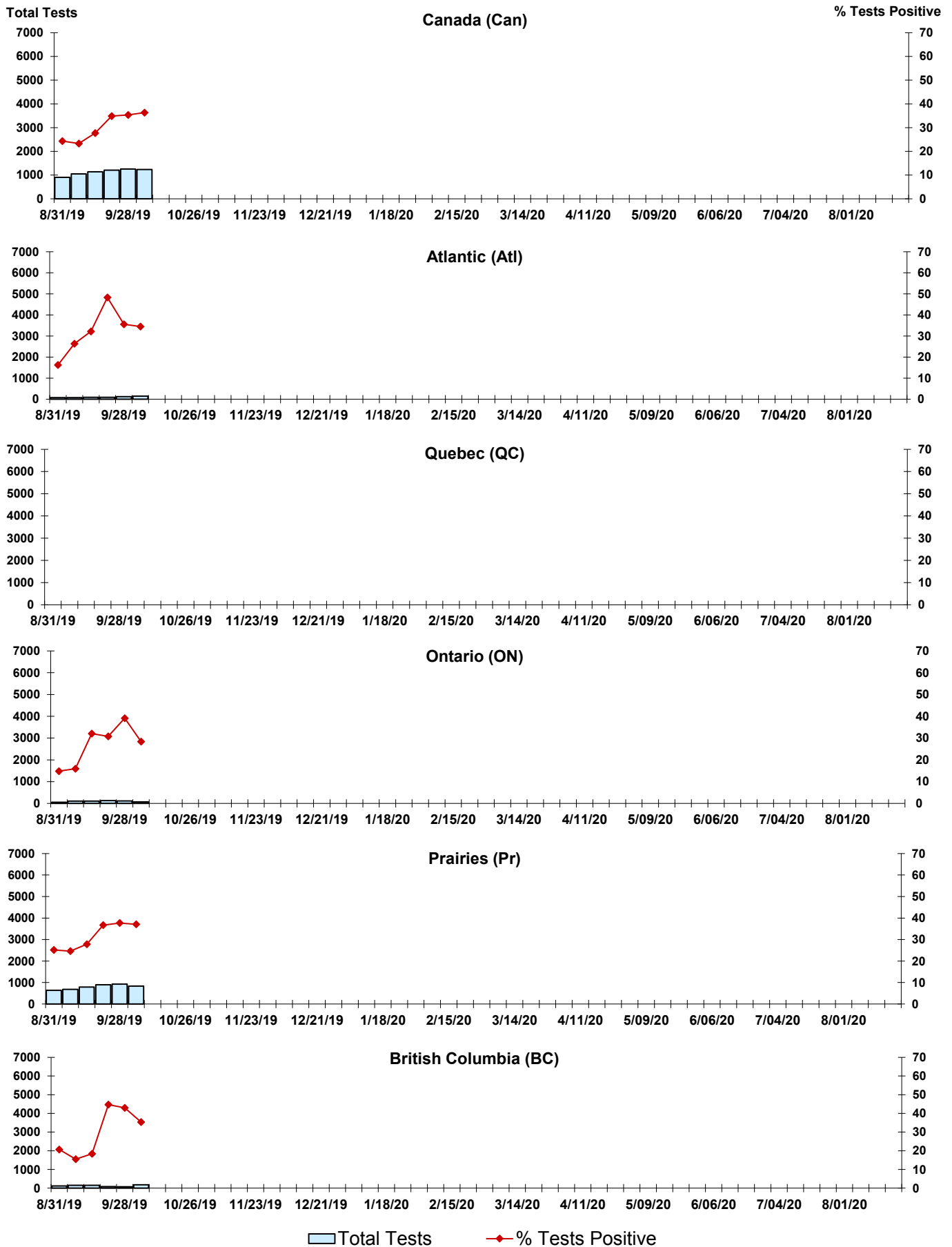
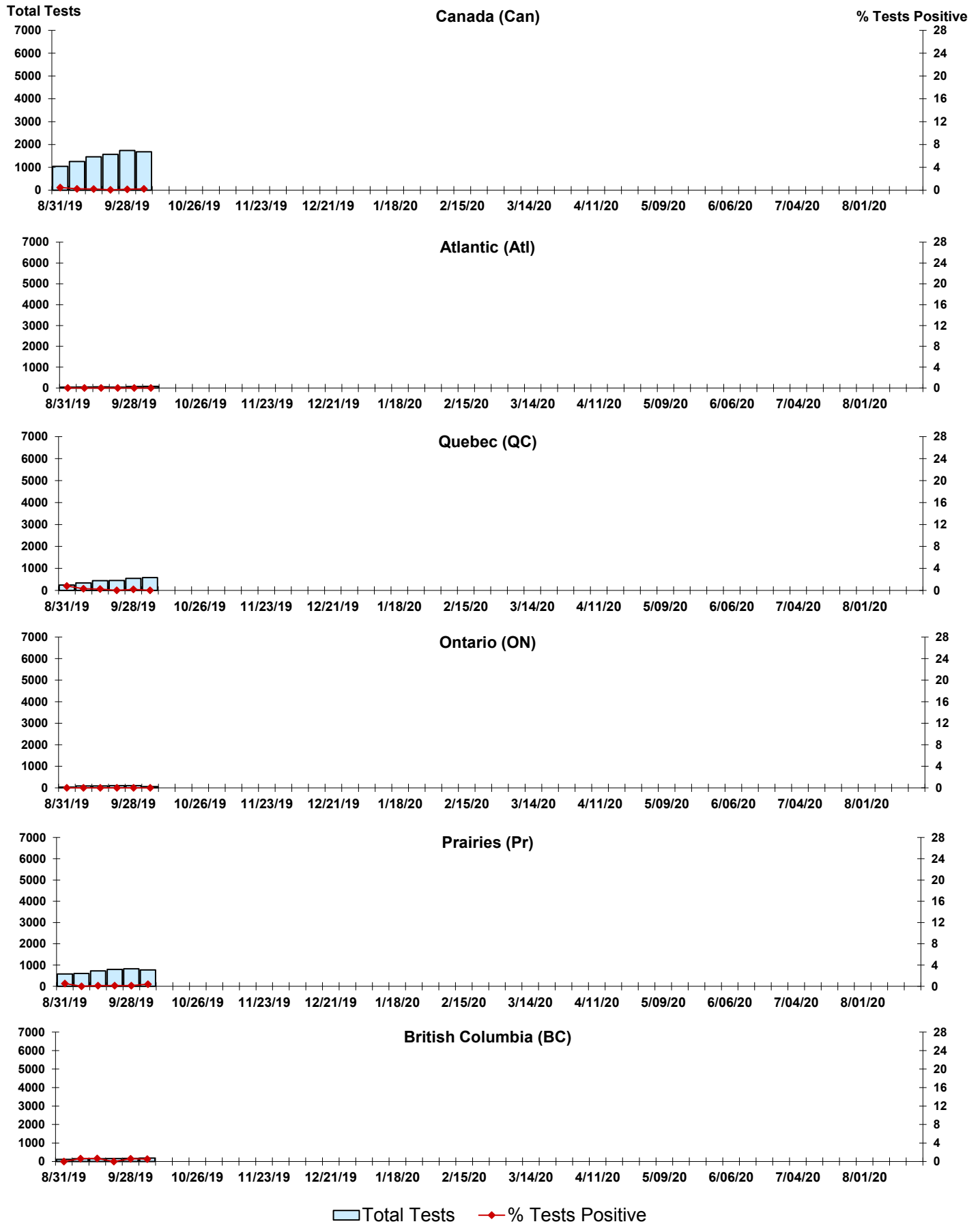


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



Abbreviations:

A(H1N1)pdm09: Influenza A(H1N1)pdm09

A(H3): Influenza A(H3N2)

A (UnS): Influenza A (Unsubtyped)

Adeno: Adenovirus

CHEO: Children's Hospital of Eastern Ontario

Coron: Coronavirus

Entero: Enterovirus

hMPV: human metapneumovirus

HSC: Health Sciences Centre

N.A.: Not Applicable

P.H.L.: Public Health Laboratory

P.H.O.L.: Public Health Ontario Laboratory

PIV: Parainfluenza

Rhino: Rhinovirus

RSV: Respiratory syncytial virus

UHN: University Health Network

Notes:

Specimens from Yukon (YT), Northwest Territories (NT) and Nunavut (NU) are sent to reference laboratories in other provinces. Results reported for the Territories reflect the number of specimens that are identified as originating from YT, NT or NU.

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