

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 51 - ending December 22, 2018

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 December 22, 2018 (Reporting Week 201851)

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	140	0	0	26	26	0	140	17	140	0	0	2	0	0	140	1	140	2	140	11	N.A.	N.A.
Prince Edward Island	19	5	0	0	5	0	19	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	88	0	0	5	5	0	88	11	12	0	1	0	0	0	12	0	12	0	12	3	12	0
New Brunswick	506	25	1	154	180	0	506	28	64	0	0	1	2	0	64	7	64	1	64	5	64	0
Atlantic	753	30	1	185	216	0	753	56	217	0	1	3	2	0	217	8	217	3	217	19	77	0
Région Nord-Est	89	0	0	33	33	0	33	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	541	0	0	240	240	1	294	64	134	0	4	0	0	0	140	7	81	2	N.A.	N.A.	0	0
Centre-du-Québec	316	0	0	151	151	1	310	17	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	703	0	0	136	136	3	626	75	438	2	1	1	0	0	438	12	424	5	N.A.	N.A.	424	41
Ouest du Québec	539	0	0	183	183	4	486	59	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	381	0	0	85	85	2	381	53	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2569	0	0	828	828	11	2130	271	572	2	5	1	0	0	614	19	505	7	N.A.	N.A.	424	41
Ottawa P.H.L.	34	4	0	0	4	0	34	0	21	0	1	2	0	0	21	0	20	1	1	0	0	0
CHEO - Ottawa	250	0	0	13	13	1	250	29	34	0	1	0	0	0	34	1	34	1	34	5	32	5
Kingston P.H.L.	19	2	0	0	2	0	19	0	15	0	2	0	0	0	15	0	14	0	3	0	0	0
UHN / Mount Sinai Hospital	444	0	0	50	50	1	444	40	12	0	0	0	0	0	0	0	12	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	429	53	16	4	73	1	416	0	299	0	3	1	0	0	299	0	294	2	6	0	0	0
Sick Kids Hospital - Toronto	83	11	0	0	11	0	83	13	83	0	0	2	1	0	83	3	83	4	83	14	83	7
Sunnybrook & Women's College HSC	88	5	2	0	7	0	88	7	88	1	1	0	0	0	88	0	88	2	88	7	88	7
Sault Ste. Marie P.H.L.	10	0	0	0	0	0	10	0	10	0	0	0	0	0	10	0	10	0	0	0	0	0
Timmins P.H.L.	16	1	0	0	1	0	15	0	15	0	2	0	0	0	15	0	15	0	0	0	0	0
St. Joseph's - London	162	0	0	15	15	0	162	21	46	0	0	0	0	0	46	0	46	2	23	3	23	0
London P.H.L.	159	38	2	3	43	2	155	0	90	0	1	3	0	0	90	2	88	1	2	0	0	0
Orillia P.H.L.	26	2	0	0	2	0	26	0	19	0	0	0	0	0	19	0	19	0	0	0	0	0
Thunder Bay P.H.L.	17	4	0	1	5	0	13	0	13	0	0	0	0	0	13	0	12	2	1	0	0	0
Sudbury P.H.L.	32	0	0	0	0	0	32	1	31	0	2	0	0	0	31	0	31	0	0	0	0	0
Hamilton P.H.L.	148	15	4	2	21	0	148	0	99	0	0	2	0	0	99	0	94	1	5	0	0	0
Peterborough P.H.L.	23	1	0	1	2	0	23	0	17	0	0	0	0	0	17	0	17	0	0	0	0	0
Province of Ontario	1940	136	24	89	249	5	1918	111	892	1	13	10	1	0	880	6	877	16	246	29	226	19
Manitoba	386	26	0	114	140	0	375	13	84	0	0	1	0	0	84	4	55	1	84	2	55	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	261	0	0	56	56	0	261	19	261	0	1	1	1	0	261	0	261	2	261	7	261	1
Province of Saskatchewan	261	0	0	56	56	0	261	19	261	0	1	1	1	0	261	0	261	2	261	7	261	1
Province of Alberta	1424	262	8	104	374	0	1128	0	1128	0	9	12	16	0	1128	8	1128	7	1128	128	1128	50
Prairies	2071	288	8	274	570	0	1764	32	1473	0	10	14	17	0	1473	12	1444	10	1473	137	1444	51
British Columbia	980	180	1	142	323	1	980	53	314	0	4	4	8	0	314	6	314	2	252	64	252	5
Yukon	14	2	0	1	3	0	14	1	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	39	15	0	0	15	0	39	0	39	0	0	0	0	0	39	0	39	0	39	8	39	0
Nunavut	2	1	0	0	1	0	2	0	2	0	0	0	0	0	2	0	2	0	2	0	2	0
Territories	55	18	0	1	19	0	55	1	41	0	0	0	0	0	41	0	41	0	41	8	41	0
CANADA	8368	652	34	1519	2205	17	7600	524	3509	3	33	32	28	0	3539	51	3398	38	2229	257	2464	116

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, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Interior Health Authority sites and Northern Health Authority sites.

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

Table 2: Respiratory Virus Detections/Isolations for the period August 26, 2018 - December 22, 2018 (Reporting Weeks 201835-201851)

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	1010	1	0	56	57	1	1010	53	1010	0	8	27	0	0	1010	11	1010	3	1010	167	N.A.	N.A.
Prince Edward Island	239	12	0	0	12	0	236	0	51	0	0	1	3	0	46	5	46	0	46	20	46	0
Nova Scotia	639	0	0	23	23	0	643	29	309	0	3	7	1	0	309	0	309	3	309	52	309	0
New Brunswick	2872	42	1	293	336	2	2875	54	973	0	10	5	22	0	973	73	973	4	973	178	973	2
Atlantic	4760	55	1	372	428	3	4764	136	2343	0	21	40	26	0	2338	89	2338	10	2338	417	1328	2
Région Nord-Est	2392	0	0	386	386	2	1819	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	3211	0	0	545	545	9	3131	224	1208	3	28	6	5	0	1255	55	1043	3	N.A.	N.A.	959	2
Centre-du-Québec	2452	0	0	342	342	11	2192	110	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	11875	0	0	519	519	10	11751	721	8059	31	133	29	27	0	8059	280	7867	38	N.A.	N.A.	7868	192
Ouest du Québec	2729	0	0	401	401	7	2290	215	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	2164	0	0	191	191	3	2151	154	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	24823	0	0	2384	2384	42	23334	1433	9267	34	161	35	32	0	9350	335	8910	41	N.A.	N.A.	8827	194
Ottawa P.H.L.	288	9	7	1	17	0	284	0	222	0	1	3	0	0	222	0	210	1	13	0	0	0
CHEO - Ottawa	2447	0	0	65	65	7	2447	102	403	0	7	3	2	0	403	16	402	3	403	126	398	10
Kingston P.H.L.	334	3	8	0	11	0	334	1	301	0	3	2	0	0	301	0	288	0	48	0	0	0
UHN / Mount Sinai Hospital	3998	0	0	114	114	7	3998	113	235	0	3	0	2	0	0	0	211	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	5307	135	70	10	215	19	5241	33	4728	12	45	16	0	0	4729	25	4603	19	237	0	0	0
Sick Kids Hospital - Toronto	978	32	3	0	35	1	978	120	978	5	31	13	17	0	978	24	978	15	978	302	978	51
Sunnybrook & Women's College HSC	948	23	8	2	33	0	948	18	948	3	4	5	1	0	948	0	948	10	948	106	948	25
Sault Ste. Marie P.H.L.	109	1	0	0	1	0	108	1	108	0	0	0	0	0	108	0	107	0	1	0	0	0
Timmins P.H.L.	111	3	0	0	3	0	108	0	108	0	6	2	0	0	108	0	104	0	10	0	0	0
St. Joseph's - London	1059	3	0	25	28	0	1059	89	544	1	5	5	8	0	544	21	544	13	445	121	394	2
London P.H.L.	1297	93	4	9	106	3	1270	10	1031	0	13	4	0	0	1031	10	1000	3	53	0	0	0
Orillia P.H.L.	294	3	0	0	3	0	294	1	271	0	1	2	0	0	271	1	263	0	10	0	0	0
Thunder Bay P.H.L.	111	7	0	1	8	0	104	0	104	1	0	3	0	0	104	0	99	2	5	0	0	0
Sudbury P.H.L.	259	0	0	0	0	0	258	6	256	1	4	0	0	0	256	2	238	1	28	0	0	0
Hamilton P.H.L.	1272	38	12	5	55	1	1260	6	1102	1	8	10	0	0	1102	6	1075	3	47	0	0	0
Peterborough P.H.L.	448	4	1	1	6	0	447	3	425	2	1	0	0	0	425	0	421	0	6	0	0	0
Province of Ontario	19260	354	113	233	700	38	19138	503	11764	26	132	68	30	0	11530	105	11491	72	3232	655	2718	88
Manitoba	4033	159	3	361	523	2	3957	55	2068	0	7	12	10	0	2068	22	1083	6	2068	298	1117	7
Regina	3710	715	23	69	807	0	3710	22	5643	0	26	36	23	0	3710	61	3710	10	3710	913	3710	9
Saskatoon	2642	0	0	516	516	0	2642	47	2642	1	4	4	5	0	2642	24	2642	7	2642	211	2642	3
Province of Saskatchewan	6352	715	23	585	1323	0	6352	69	8285	1	30	40	28	0	6352	85	6352	17	6352	1124	6352	12
Province of Alberta	16091	2640	61	1455	4156	20	12641	0	12641	10	114	126	125	0	12641	162	12641	107	12641	2403	12641	180
Prairies	26476	3514	87	2401	6002	22	22950	124	22994	11	151	178	163	0	21061	269	20076	130	21061	3825	20110	199
British Columbia	6973	508	63	431	1002	9	6973	146	3748	5	30	64	55	0	3748	51	3748	8	3015	921	3015	33
Yukon	119	4	0	3	7	0	119	1	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	391	125	1	0	126	0	389	0	389	0	0	11	0	0	389	9	389	2	389	77	389	4
Nunavut	30	7	0	0	7	0	30	0	30	0	0	0	0	0	30	5	29	0	30	9	29	0
Territories	540	136	1	3	140	0	538	1	419	0	0	11	0	0	419	14	418	2	419	86	418	4
CANADA	82832	4567	265	5824	10656	114	77697	2343	50535	76	495	396	306	0	48446	863	46981	263	30065	5904	36416	520

Specimens from YT, NT and 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, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Interior Health Authority sites and Northern Health Authority sites.

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

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

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2018-19

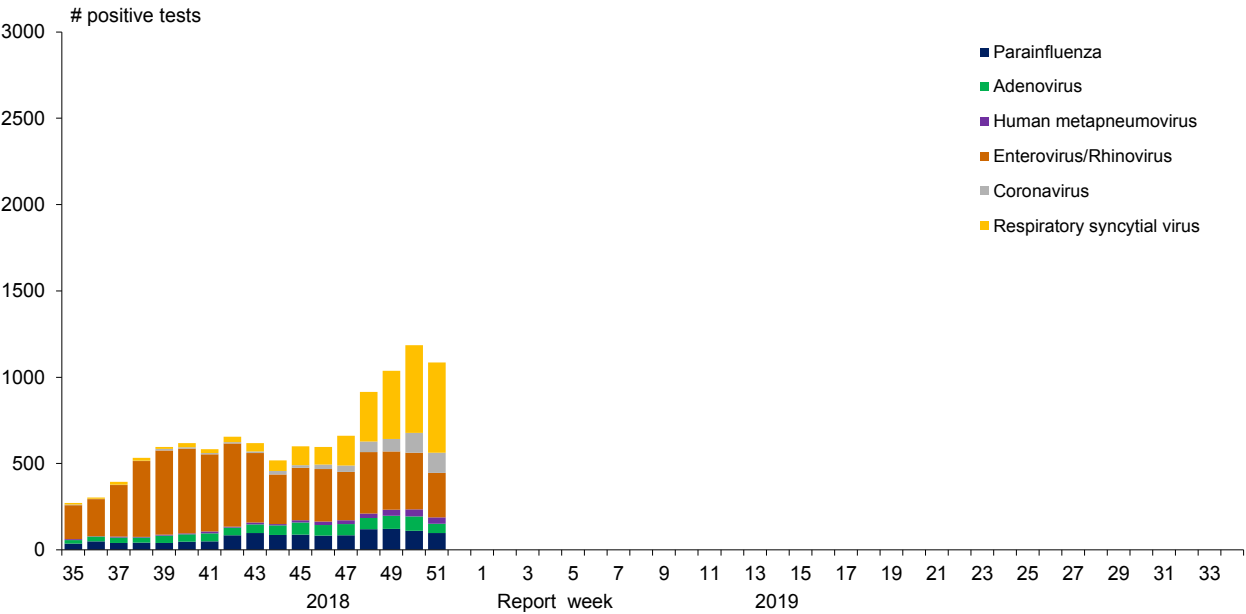


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

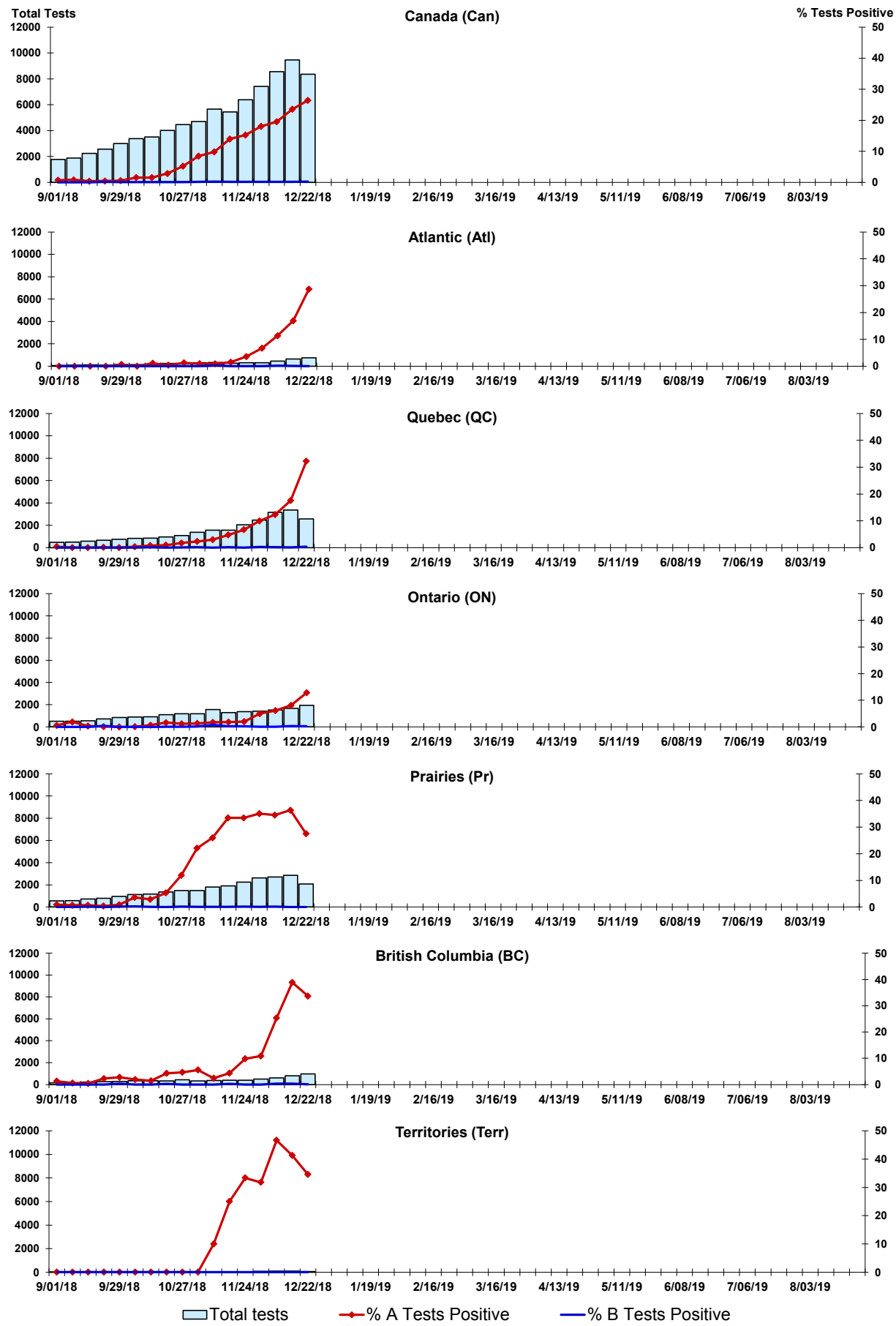


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

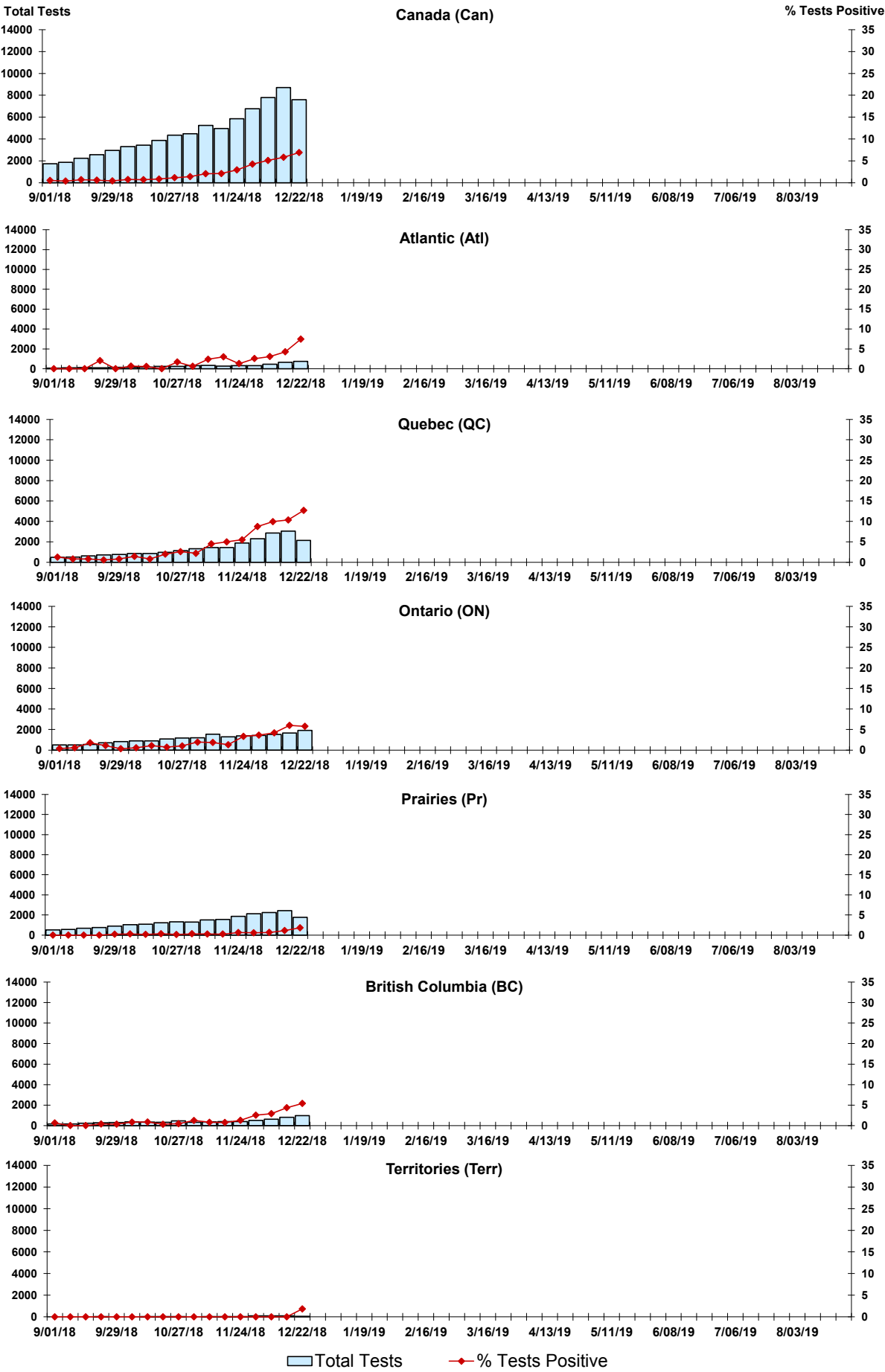


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

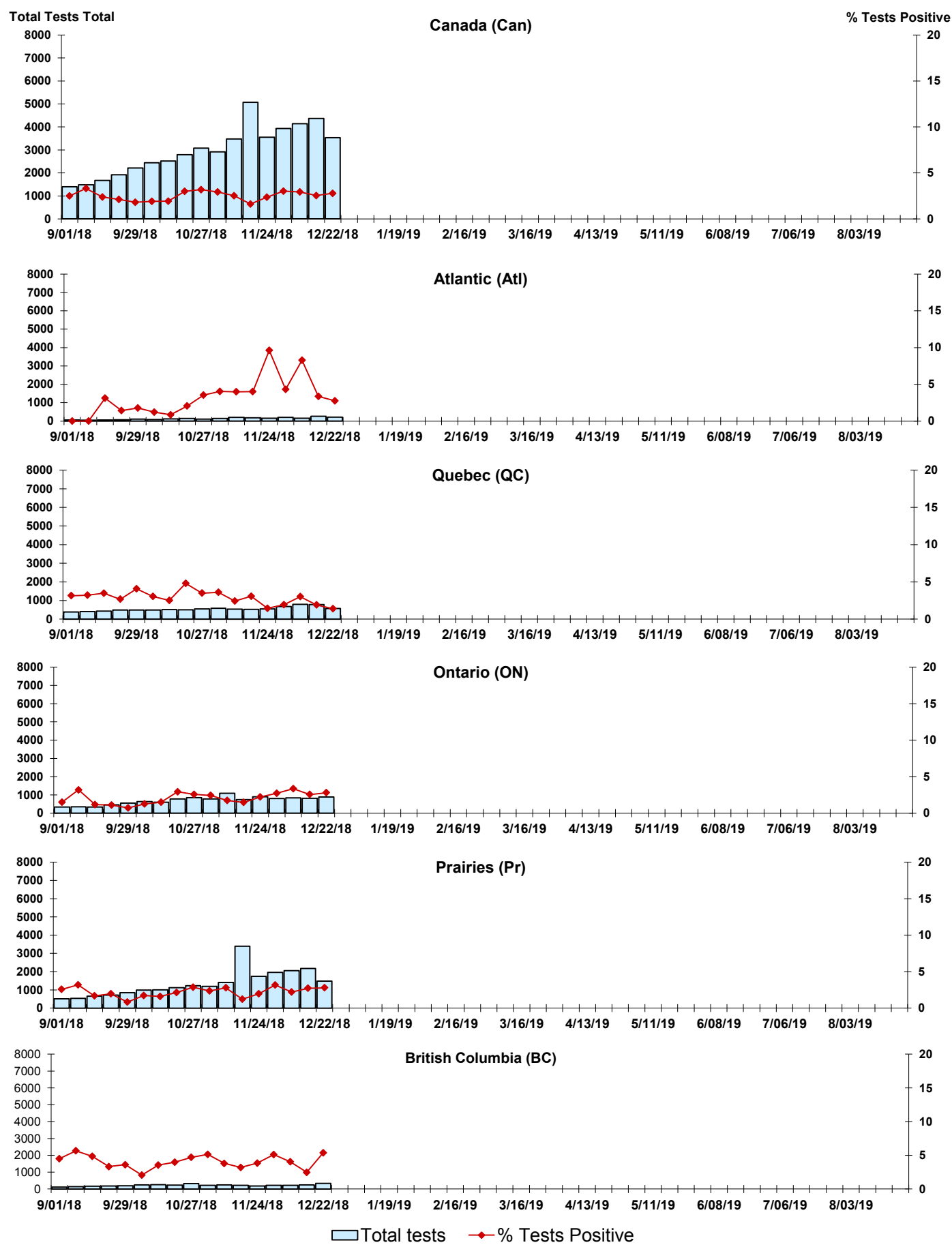


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

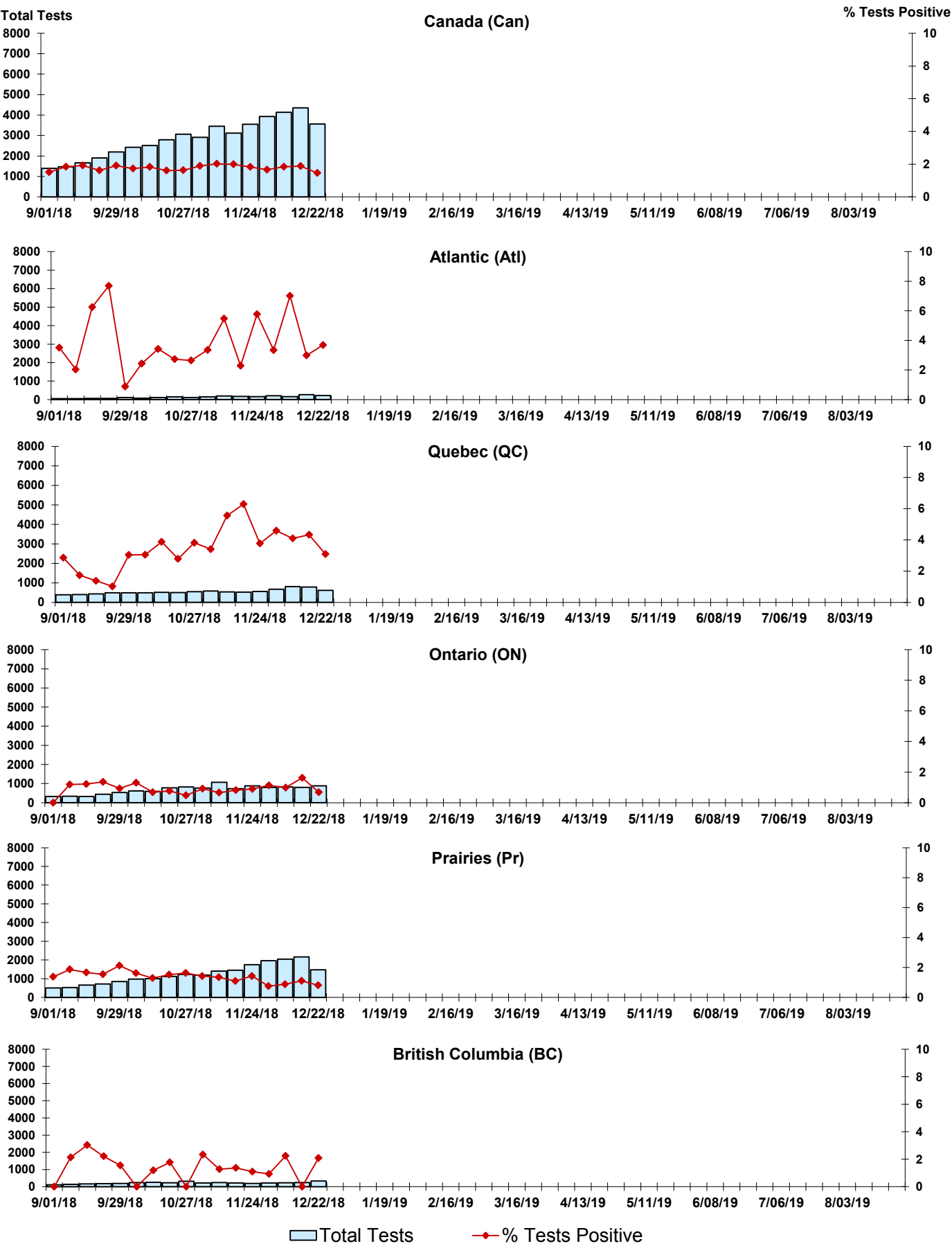


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

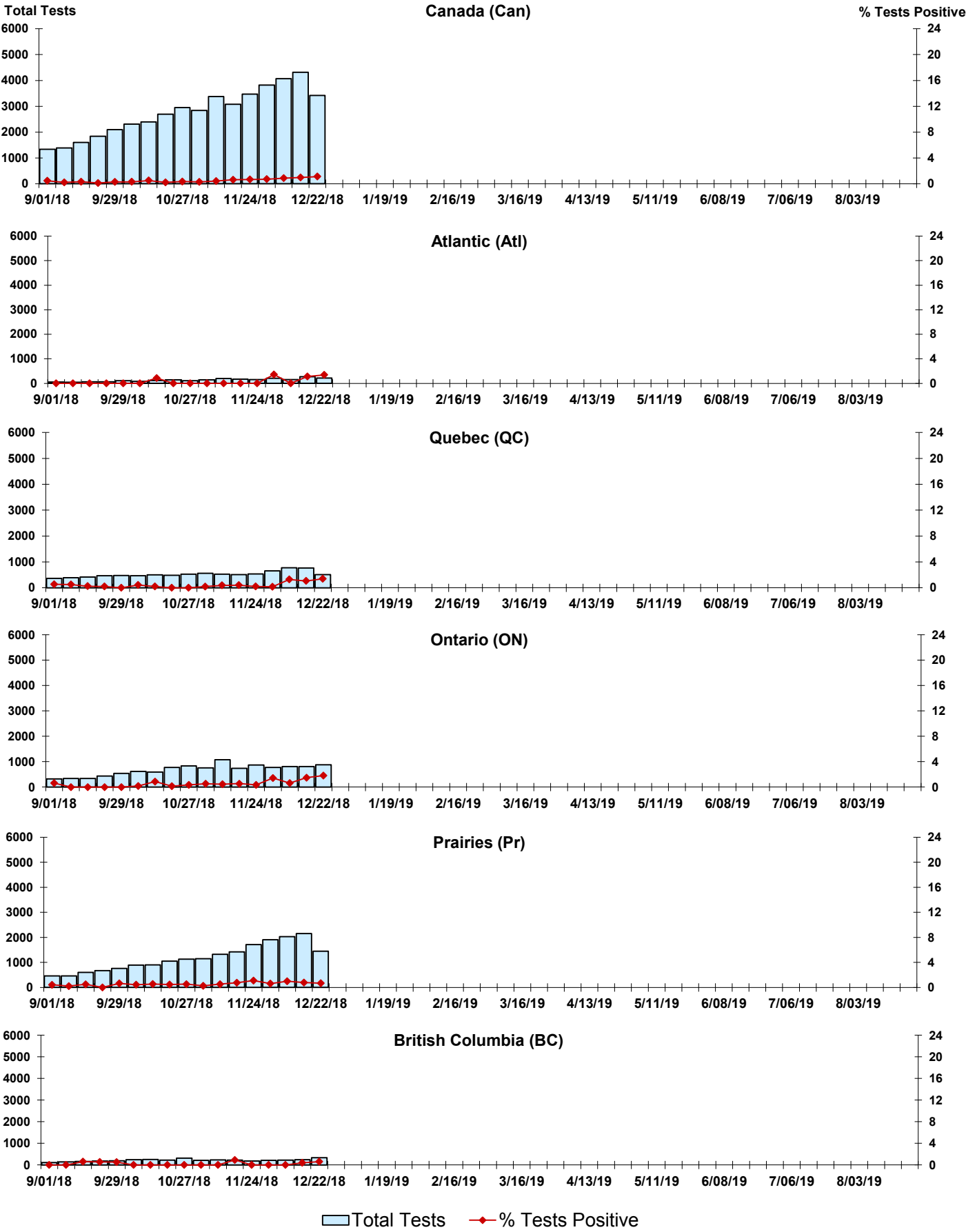


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

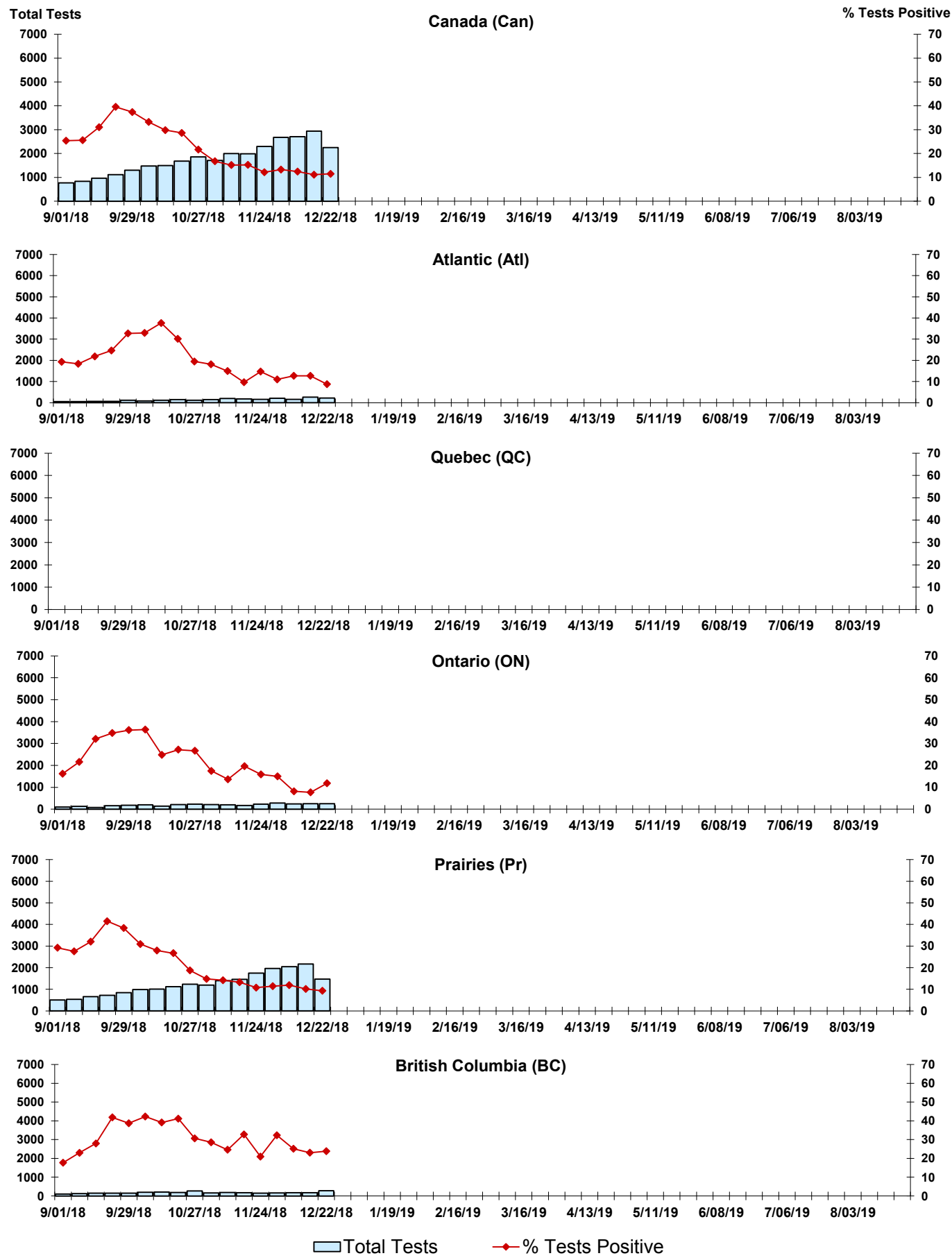
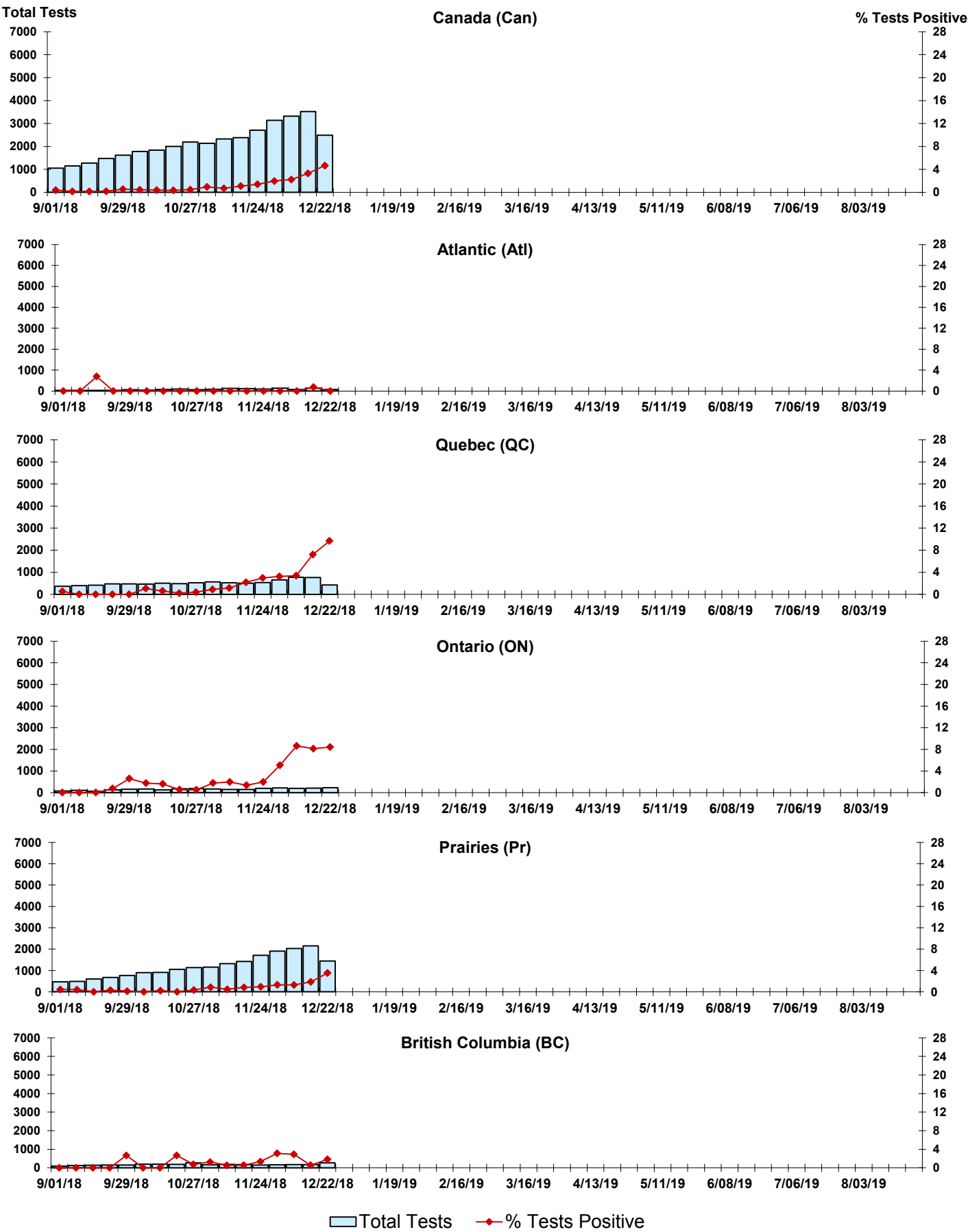


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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