

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 02 - ending January 12, 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 January 12, 2019 (Reporting Week 201902)

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	157	0	0	21	21	0	157	16	157	0	1	3	0	0	157	1	157	1	157	7	N.A.	N.A.
Prince Edward Island	48	20	0	0	20	0	48	1	4	0	0	0	0	0	4	0	4	0	4	0	4	0
Nova Scotia	149	0	0	33	33	0	149	14	2	0	0	0	0	0	2	0	2	0	2	0	2	1
New Brunswick	709	26	2	239	267	0	709	58	184	0	2	0	3	0	184	7	184	2	184	20	184	1
Atlantic	1063	46	2	293	341	0	1063	89	347	0	3	3	3	0	347	8	347	3	347	27	190	2
Région Nord-Est	415	0	0	90	90	0	332	21	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	902	0	0	213	213	0	995	115	93	1	1	0	1	0	95	0	73	0	N.A.	N.A.	16	1
Centre-du-Québec	1266	0	0	313	313	24	877	93	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	2239	0	0	396	396	5	2034	188	1002	2	4	2	2	0	1002	18	990	18	N.A.	N.A.	990	55
Ouest du Québec	879	0	0	202	202	2	815	134	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	553	0	0	120	120	1	553	35	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	6254	0	0	1334	1334	32	5606	586	1095	3	5	2	3	0	1097	18	1063	18	N.A.	N.A.	1006	56
Ottawa P.H.L.	60	12	1	3	16	0	60	8	19	0	0	0	0	0	19	0	18	0	1	0	0	0
CHEO - Ottawa	376	0	0	56	56	1	376	87	19	0	0	0	0	0	19	0	19	0	20	2	19	1
Kingston P.H.L.	32	5	5	0	10	0	32	7	10	0	0	0	0	0	10	0	10	0	0	0	0	0
UHN / Mount Sinai Hospital	172	0	0	19	19	1	172	10	24	0	0	0	0	0	0	0	24	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	732	114	37	10	161	2	690	64	433	0	4	3	0	0	433	0	424	4	9	0	0	0
Sick Kids Hospital - Toronto	68	9	0	0	9	0	68	4	68	0	1	0	0	0	68	7	68	3	68	9	68	7
Sunnybrook & Women's College HSC	105	8	3	1	12	0	105	4	105	0	0	0	0	0	105	1	105	3	105	8	105	9
Sault Ste. Marie P.H.L.	13	2	0	0	2	0	12	0	11	0	0	0	0	0	11	0	11	1	0	0	0	0
Timmins P.H.L.	16	1	0	0	1	0	15	0	15	0	0	1	0	0	15	0	13	0	2	0	0	0
St. Joseph's - London	193	0	0	21	21	0	193	19	53	0	0	0	0	0	53	0	53	4	17	1	17	0
London P.H.L.	247	25	1	14	40	0	247	34	143	1	1	0	0	0	143	1	141	1	2	0	0	0
Orillia P.H.L.	68	7	0	0	7	0	68	19	24	0	0	0	0	0	24	0	23	0	1	0	0	0
Thunder Bay P.H.L.	27	4	2	3	9	0	18	0	18	0	1	0	0	0	18	0	18	0	0	0	0	0
Sudbury P.H.L.	29	1	1	0	2	0	27	2	25	0	0	0	0	0	25	0	25	0	0	0	0	0
Hamilton P.H.L.	202	21	3	11	35	2	202	16	121	0	0	1	0	0	121	0	120	1	1	0	0	0
Peterborough P.H.L.	52	4	3	2	9	0	52	6	23	0	1	0	0	0	23	0	23	0	0	0	0	0
Province of Ontario	2392	213	56	140	409	6	2337	280	1111	1	8	5	0	0	1087	9	1095	17	250	21	233	18
Manitoba	396	15	0	74	89	0	388	37	73	0	2	0	0	0	73	3	61	2	73	3	61	4
Regina	242	28	0	10	38	0	242	28	242	1	1	3	1	0	242	1	242	6	242	29	242	6
Saskatoon	184	0	0	14	14	1	184	13	184	0	0	1	0	0	184	0	184	1	184	0	184	3
Province of Saskatchewan	426	28	0	24	52	1	426	41	426	1	1	4	1	0	426	1	426	7	426	29	426	9
Province of Alberta	1219	102	7	38	147	3	994	0	994	2	9	14	13	0	994	5	994	20	994	106	994	88
Prairies	2041	145	7	136	288	4	1808	78	1493	3	12	18	14	0	1493	9	1481	29	1493	138	1481	101
British Columbia	600	31	1	66	98	0	392	12	76	1	0	0	0	0	76	0	76	0	0	0	0	0
Yukon	0	0	0	0	0	0	0	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	21	0	0	0	0	0	21	0	21	0	0	2	1	0	21	0	21	0	21	3	21	1
Nunavut	3	1	0	0	1	0	3	0	3	0	0	0	0	0	3	0	3	0	3	1	3	0
Territories	24	1	0	0	1	0	24	0	24	0	0	2	1	0	24	0	24	0	24	4	24	1
CANADA	12374	436	66	1969	2471	42	11230	1045	4146	8	28	30	21	0	4124	44	4086	67	2114	190	2934	178

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 - January 12, 2019 (Reporting Weeks 201835-201902)

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	1456	1	0	134	135	1	1456	107	1456	0	11	37	0	0	1456	13	1456	9	1456	207	N.A.	N.A.
Prince Edward Island	355	58	0	0	58	0	353	6	57	0	0	1	3	0	52	5	52	0	52	21	52	0
Nova Scotia	1011	0	0	85	85	1	1016	59	324	0	3	7	1	0	324	0	324	3	324	53	324	2
New Brunswick	4980	68	3	954	1025	2	4983	189	1369	0	14	6	32	0	1369	91	1369	9	1369	221	1369	7
Atlantic	7802	127	3	1173	1303	4	7808	361	3206	0	28	51	36	0	3201	109	3201	21	3201	502	1745	9
Région Nord-Est	3969	0	0	807	807	3	2967	53	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	5930	0	0	1311	1311	10	6034	566	1441	4	29	8	6	0	1494	60	1223	4	N.A.	N.A.	1082	4
Centre-du-Québec	6701	0	0	1594	1594	58	5490	443	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	18928	0	0	1933	1933	26	18350	1498	11226	38	140	39	34	0	11226	343	10997	79	N.A.	N.A.	10946	376
Ouest du Québec	5654	0	0	1127	1127	11	5065	640	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	3841	0	0	615	616	7	3828	275	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	45023	0	0	7387	7388	115	41734	3475	12667	42	169	47	40	0	12756	403	12220	83	N.A.	N.A.	12028	380
Ottawa P.H.L.	420	35	9	8	52	0	416	22	274	0	1	3	0	0	274	0	259	1	16	0	0	0
CHEO - Ottawa	3454	0	0	204	204	8	3454	335	467	0	7	3	5	0	467	16	466	5	459	134	460	17
Kingston P.H.L.	445	21	14	0	35	0	445	18	363	0	3	2	0	0	363	0	349	1	51	0	0	0
UHN / Mount Sinai Hospital	5096	0	1	268	269	10	5096	211	277	0	5	0	2	0	0	0	253	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	7168	448	151	30	629	23	6984	221	5919	12	52	20	0	0	5920	27	5774	31	261	0	0	0
Sick Kids Hospital - Toronto	1252	63	3	17	83	1	1193	158	1193	7	33	15	20	0	1193	39	1193	30	1193	327	1193	78
Sunnybrook & Women's College HSC	1244	53	17	4	74	0	1244	34	1244	4	4	5	1	0	1244	1	1244	15	1244	122	1244	39
Sault Ste. Marie P.H.L.	144	4	1	0	5	0	140	1	139	0	0	0	0	0	139	0	136	2	3	0	0	0
Timmins P.H.L.	163	19	0	0	19	0	144	0	144	0	7	3	0	0	144	0	138	1	12	0	0	0
St. Joseph's - London	1672	3	0	87	90	0	1672	174	709	2	5	6	11	0	709	22	709	20	529	128	455	6
London P.H.L.	1864	159	8	29	196	3	1837	98	1396	2	16	6	0	0	1396	12	1358	7	62	0	0	0
Orillia P.H.L.	447	16	1	2	19	0	447	37	354	0	2	4	0	0	354	1	345	0	13	0	0	0
Thunder Bay P.H.L.	161	18	2	5	25	0	144	1	135	1	1	6	0	0	135	0	130	2	7	0	0	0
Sudbury P.H.L.	349	5	1	0	6	0	343	13	338	1	4	0	0	0	338	2	319	3	30	0	0	0
Hamilton P.H.L.	1780	103	23	19	145	3	1768	70	1434	2	13	11	0	0	1434	8	1405	5	50	0	0	0
Peterborough P.H.L.	595	30	5	7	42	0	594	26	490	2	2	0	0	0	490	0	485	2	7	0	0	0
Province of Ontario	26254	977	236	680	1893	48	25921	1419	14876	33	155	84	39	0	14600	128	14563	127	3979	713	3376	141
Manitoba	5307	211	3	616	830	3	5216	138	2327	0	10	13	10	0	2327	28	1275	11	2327	313	1309	16
Regina	5571	1308	60	134	1502	1	5571	96	7504	2	50	73	33	0	5571	81	5571	41	5571	1139	5571	32
Saskatoon	3246	0	0	639	639	3	3246	105	3246	1	4	5	8	0	3246	26	3246	13	3246	227	3246	7
Province of Saskatchewan	8817	1308	60	773	2141	4	8817	201	10750	3	54	78	41	0	8817	107	8817	54	8817	1366	8817	39
Province of Alberta	20173	3250	82	1583	4915	33	16132	0	16132	18	144	177	171	0	16132	192	16132	217	16132	2811	16132	425
Prairies	34297	4769	145	2972	7886	40	30165	339	29209	21	208	268	222	0	27276	327	26224	282	27276	4490	26258	480
British Columbia	9331	1069	77	812	1958	10	9123	291	4453	7	40	83	67	0	4453	56	4453	14	3477	982	3477	54
Yukon	143	16	1	6	23	0	122	2	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	467	140	2	0	142	0	464	0	464	0	0	15	2	0	464	12	464	2	464	88	464	5
Nunavut	36	9	0	0	9	0	36	0	36	0	0	0	0	0	36	5	35	0	36	11	35	0
Territories	646	165	3	6	174	0	622	2	500	0	0	15	2	0	500	17	499	2	500	99	499	5
CANADA	123353	7107	464	13030	20602	217	115373	5887	64911	103	600	548	406	0	62786	1040	61160	529	38433	6786	47383	1069

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

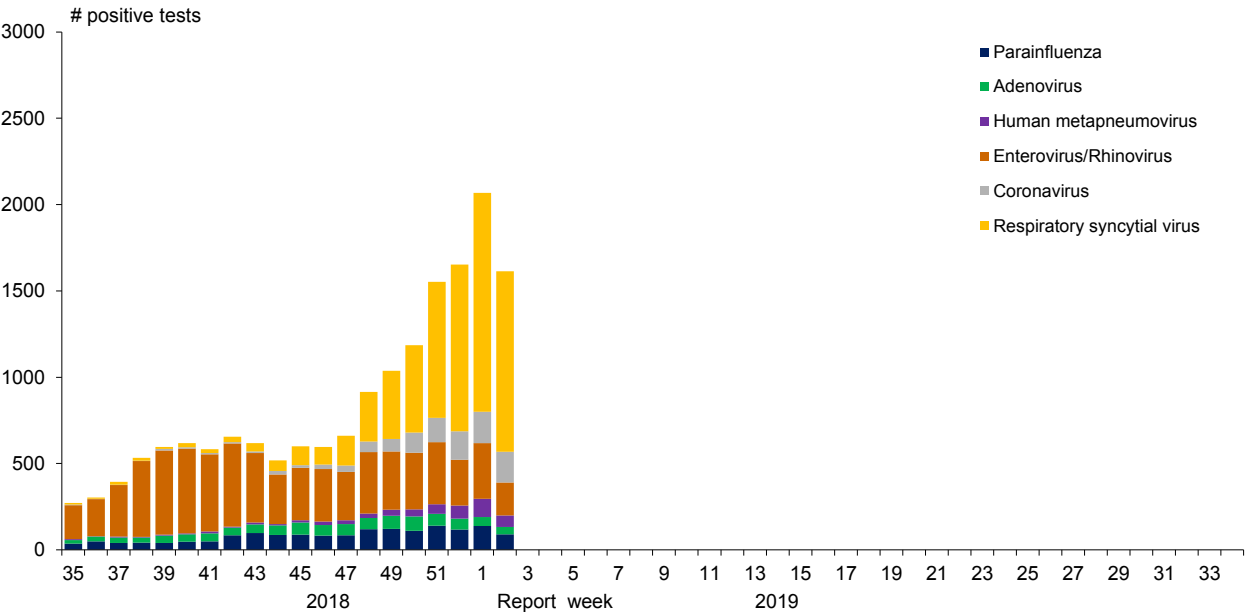


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

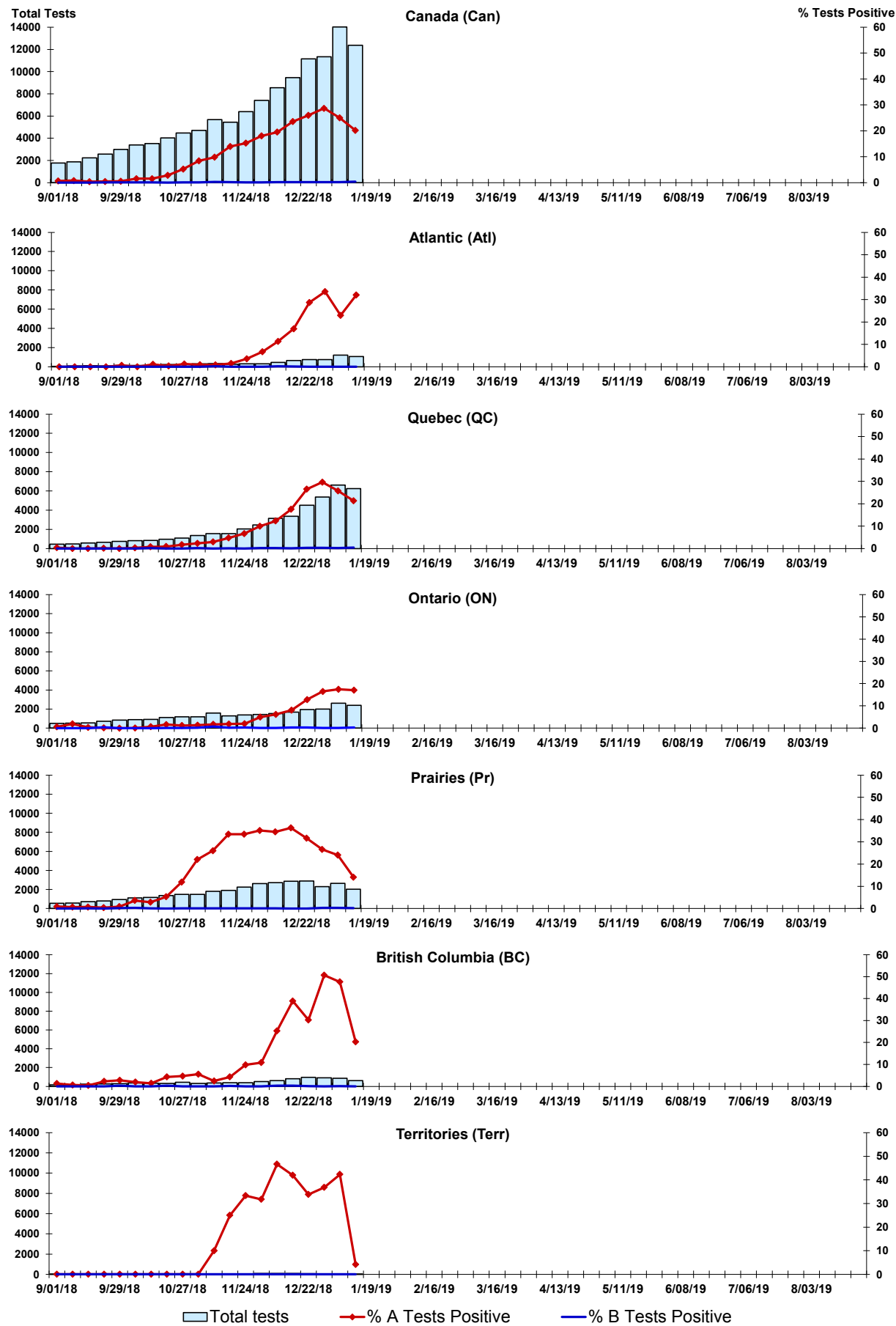


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

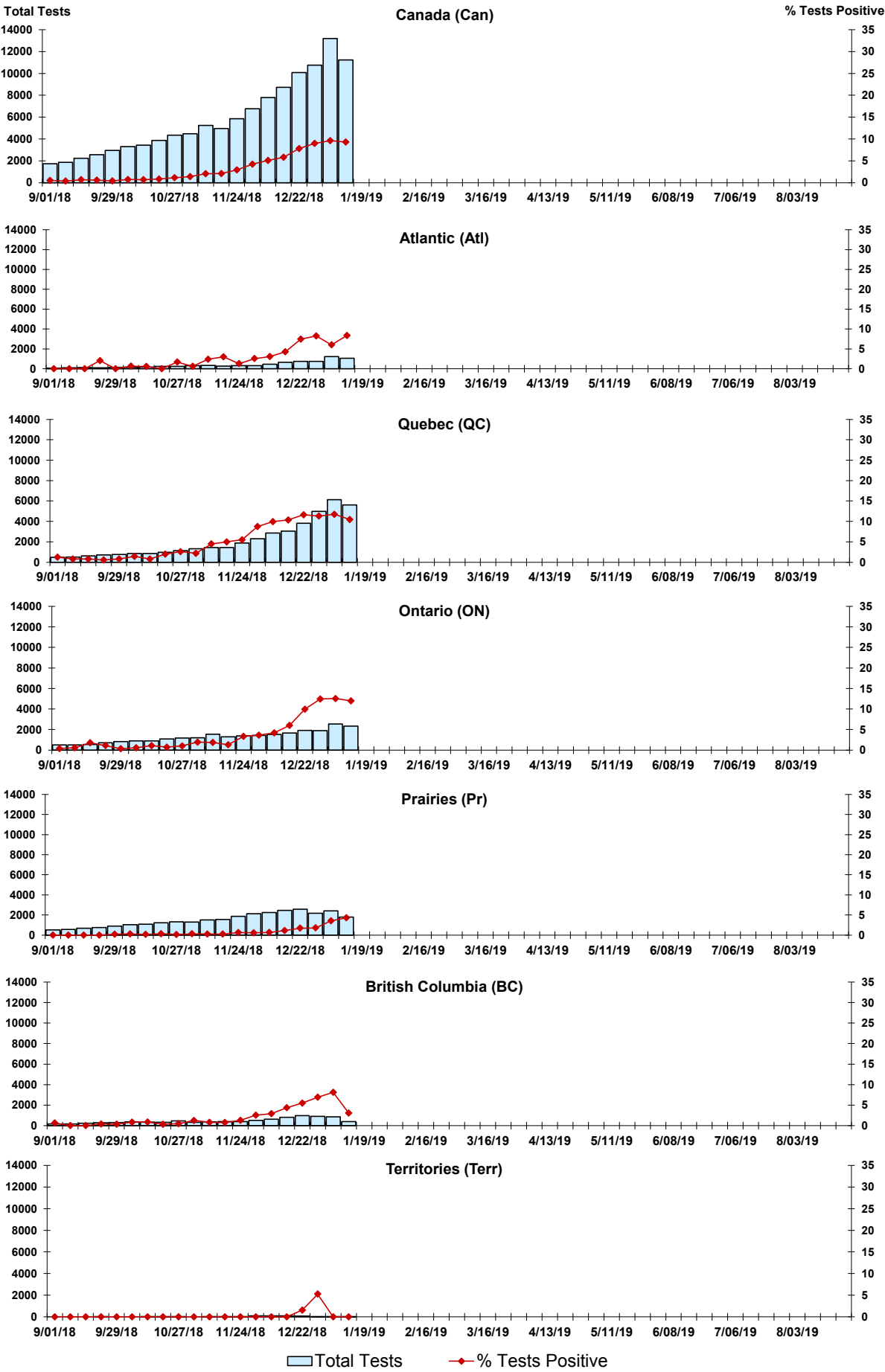


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

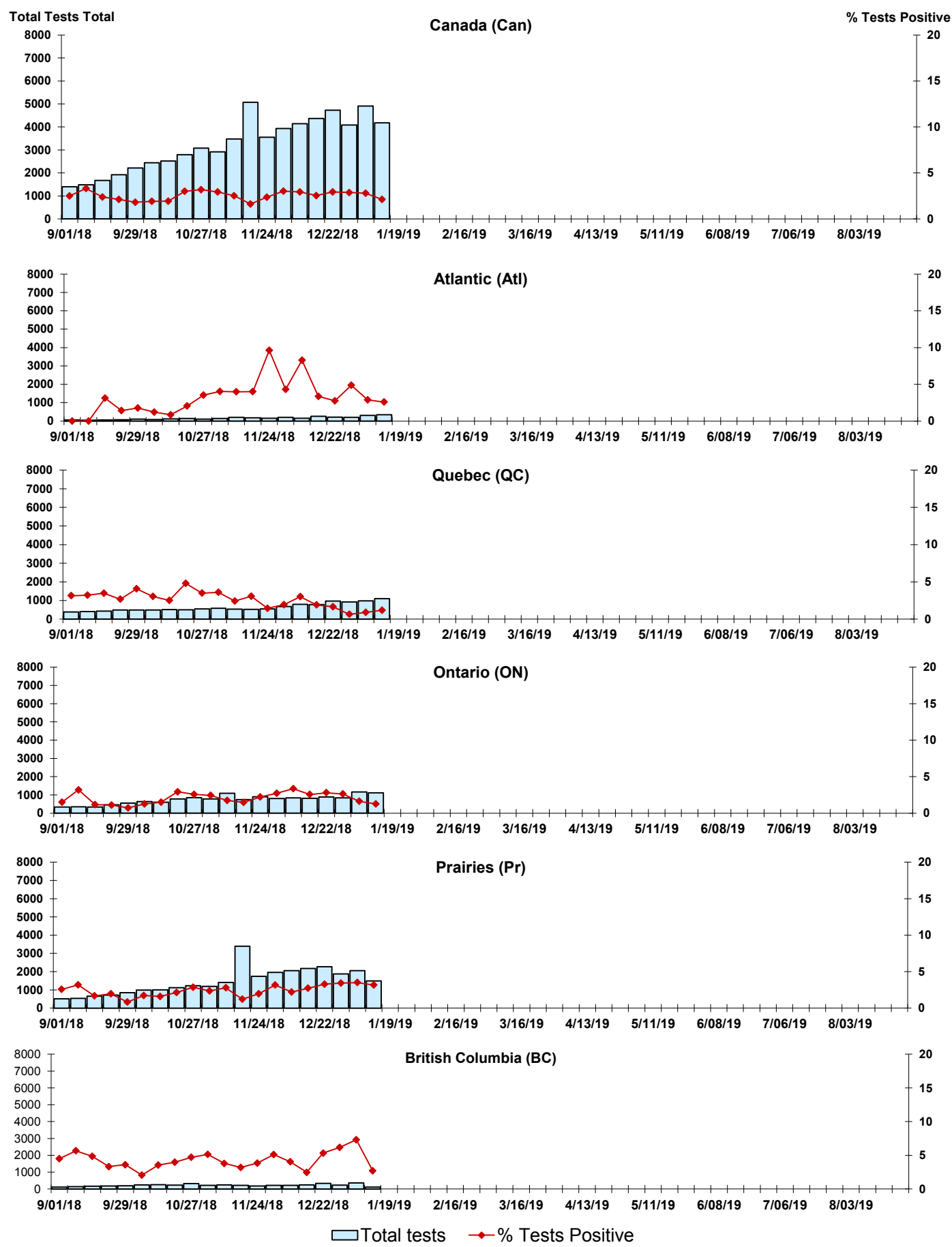


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

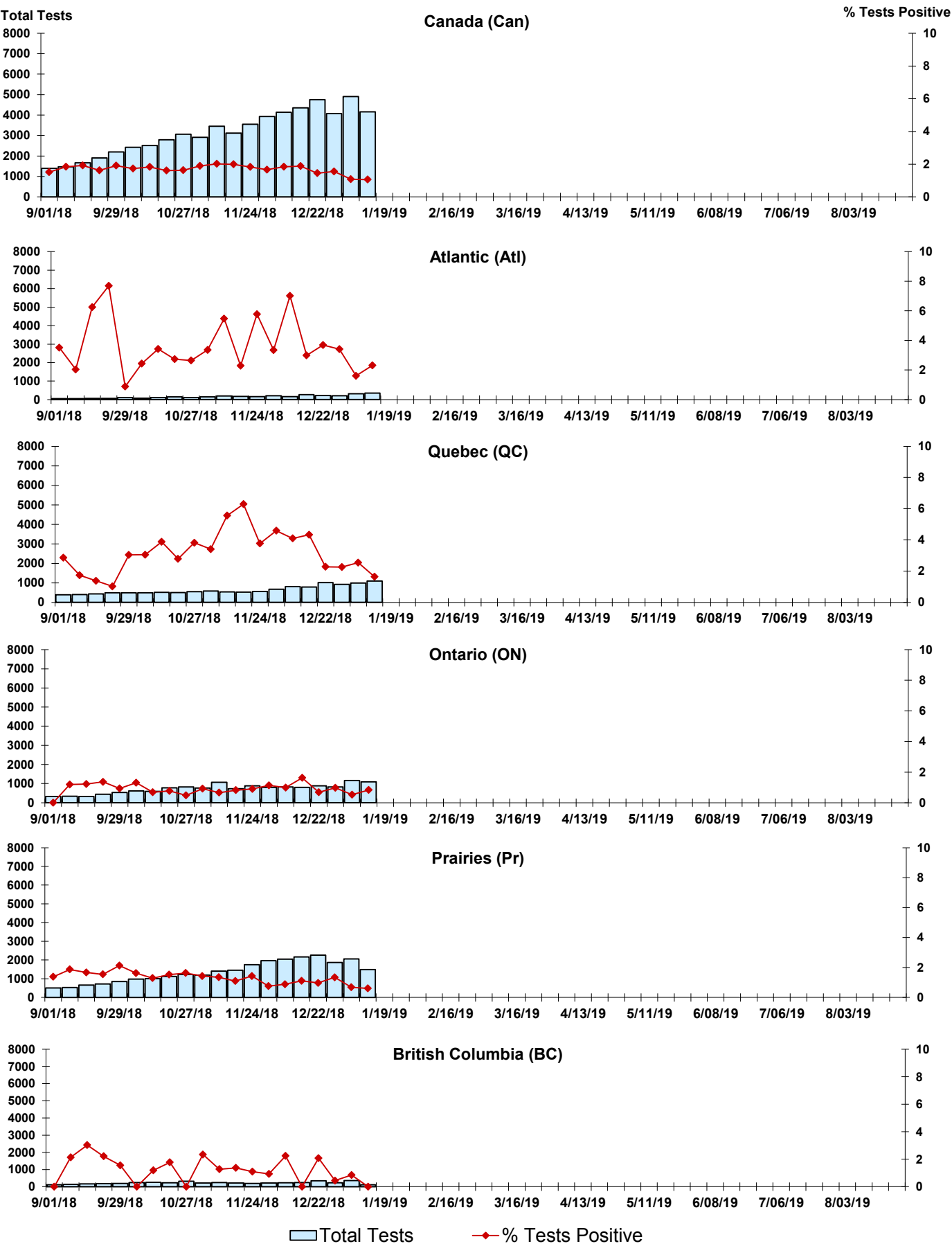


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

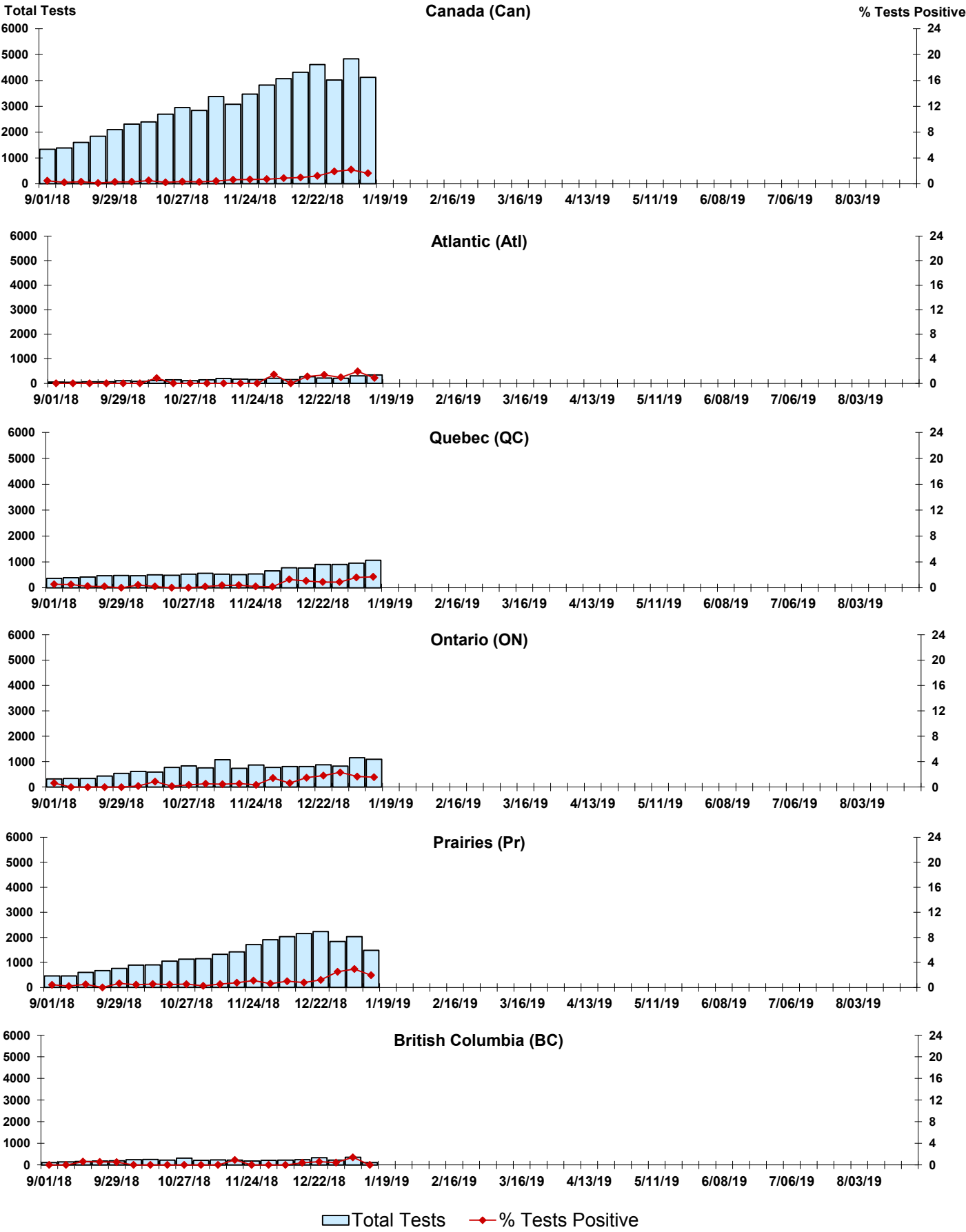


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

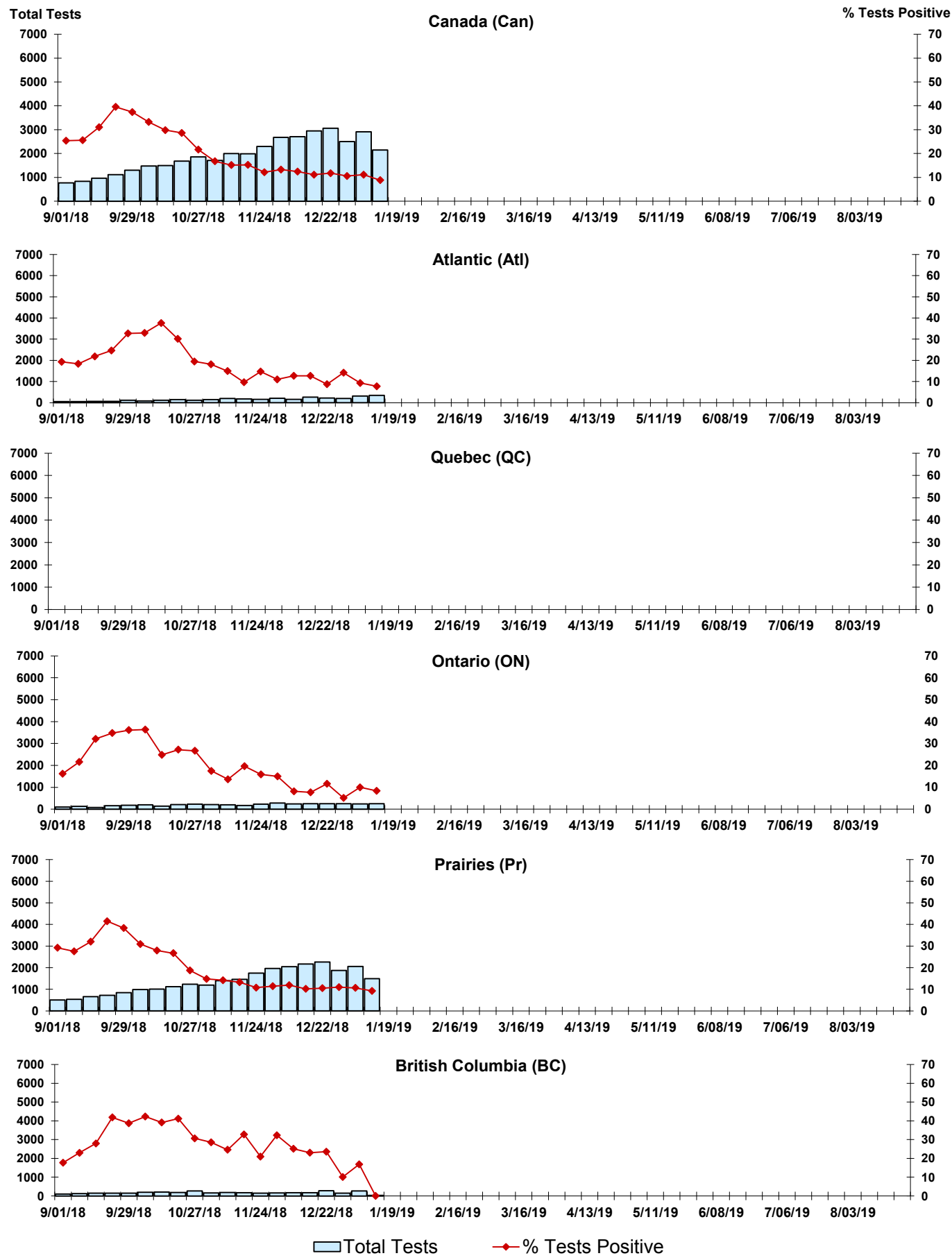
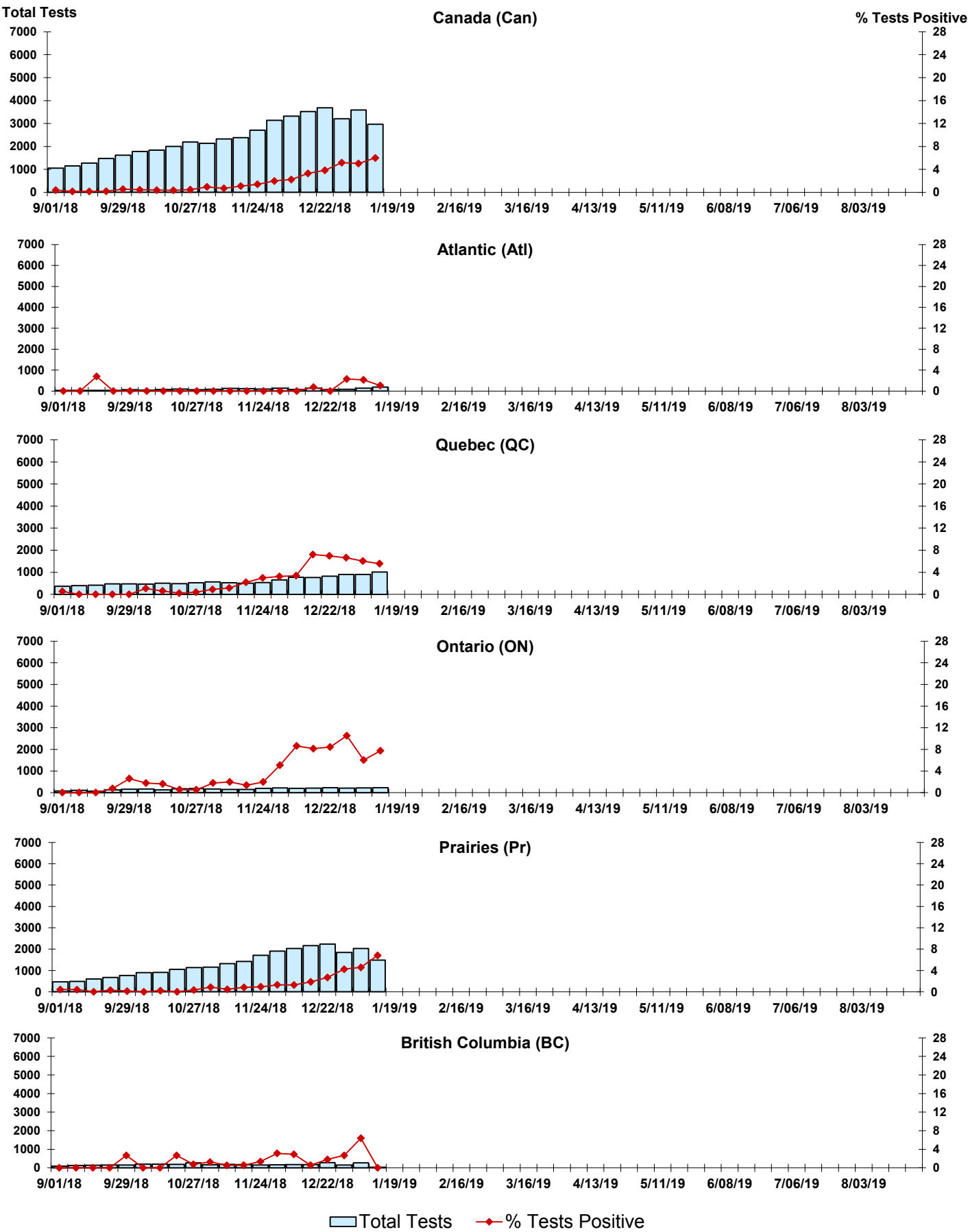


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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