

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 14 - ending April 6, 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 April 6, 2019 (Reporting Week 201914)

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	324	0	0	149	149	0	324	22	324	0	1	8	0	0	324	1	324	15	324	5	N.A.	N.A.
Prince Edward Island	51	2	6	0	8	0	51	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	189	0	0	42	42	2	70	21	11	0	0	4	0	0	11	0	11	0	11	0	11	0
New Brunswick	408	0	0	73	73	50	404	29	99	0	0	8	1	0	99	1	99	8	99	5	99	9
Atlantic	972	2	6	264	272	52	849	79	434	0	1	20	1	0	434	2	434	23	434	10	110	9
Région Nord-Est	327	0	0	52	52	8	258	25	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	524	0	0	83	83	5	533	28	87	0	0	3	0	0	92	2	78	3	N.A.	N.A.	77	2
Centre-du-Québec	529	0	0	102	102	5	441	34	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1001	0	0	104	104	12	975	47	473	3	0	19	0	0	473	21	466	26	N.A.	N.A.	466	8
Ouest du Québec	288	0	0	61	61	4	281	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	236	0	0	30	30	1	199	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2905	0	0	432	432	35	2687	152	560	3	0	22	0	0	565	23	544	29	N.A.	N.A.	543	10
Ottawa P.H.L.	19	0	7	0	7	0	19	1	6	0	0	0	0	0	6	0	6	1	0	0	0	0
CHEO - Ottawa	210	0	0	32	32	0	210	13	23	1	0	3	1	0	23	0	23	0	23	5	19	0
Kingston P.H.L.	24	0	8	0	8	0	24	0	10	0	0	1	0	0	10	0	9	0	1	0	0	0
UHN / Mount Sinai Hospital	318	0	0	24	24	2	318	11	31	0	0	3	0	0	0	0	31	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	320	7	49	3	59	0	300	8	229	0	0	5	0	0	229	2	216	7	13	0	0	0
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunnybrook & Women's College HSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sault Ste. Marie P.H.L.	10	0	5	1	6	0	8	1	3	0	0	0	0	0	3	0	3	0	0	0	0	0
Timmins P.H.L.	12	1	0	0	1	0	11	0	11	0	0	0	0	0	11	0	11	0	0	0	0	0
St. Joseph's - London	134	0	0	22	22	1	134	3	36	0	0	5	1	0	36	0	36	5	20	1	20	3
London P.H.L.	113	1	20	3	24	2	113	4	80	0	1	1	0	0	80	1	75	7	5	0	0	0
Orillia P.H.L.	32	0	2	0	2	0	32	4	13	0	0	1	0	0	13	0	13	0	0	0	0	0
Thunder Bay P.H.L.	26	1	13	0	14	0	7	0	7	0	0	0	0	0	7	1	6	0	1	0	0	0
Sudbury P.H.L.	34	1	3	0	4	0	30	1	29	0	0	0	0	0	29	0	28	0	1	0	0	0
Hamilton P.H.L.	81	1	8	0	9	1	77	0	69	1	0	2	0	0	69	3	69	5	1	0	0	0
Peterborough P.H.L.	31	0	5	0	5	0	31	0	9	0	0	0	0	0	9	0	9	1	0	0	0	0
Province of Ontario	1364	12	120	85	217	6	1314	46	556	2	1	21	2	0	525	7	535	26	96	6	70	4
Manitoba	267	6	5	6	17	1	239	22	144	1	0	8	0	0	144	0	98	8	144	7	98	6
Regina	120	1	11	1	13	7	120	22	120	0	0	5	0	0	120	2	120	7	120	14	120	6
Saskatoon	197	0	0	23	23	4	197	20	197	0	0	0	0	14	197	0	197	15	197	16	197	1
Province of Saskatchewan	317	1	11	24	36	11	317	42	317	0	0	5	0	14	317	2	317	22	317	30	317	7
Province of Alberta	877	8	106	43	157	22	732	0	732	0	8	44	3	0	732	12	732	38	732	85	732	27
Prairies	1461	15	122	73	210	34	1288	64	1193	1	8	57	3	14	1193	14	1147	68	1193	122	1147	40
British Columbia	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	986	55	360	0	2	31	0	0	360	8	360	1	256	28	256	19
Yukon	12	3	7	1	11	0	12	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	14	1	0	0	1	0	14	0	14	0	0	1	0	0	14	0	14	0	14	1	14	2
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Territories	27	4	7	1	12	0	27	0	15	0	0	1	0	0	15	0	15	0	15	1	15	2
CANADA	6729	33	255	855	1143	127	7151	396	3118	6	12	152	6	14	3092	54	3035	147	1994	167	2141	84

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 - April 6, 2019 (Reporting Weeks 201835-201914)

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	3972	1	0	821	822	3	3972	411	3972	0	51	112	0	0	3972	33	3972	102	3972	286	N.A.	N.A.
Prince Edward Island	1107	219	43	1	263	0	1105	126	72	1	0	2	3	0	67	5	67	2	67	22	67	3
Nova Scotia	3354	0	0	709	709	13	3240	333	473	0	4	20	2	0	473	0	473	7	473	61	473	9
New Brunswick	11714	230	34	2349	2613	132	11713	1075	2948	0	16	39	39	0	2948	117	2948	113	2948	311	2948	147
Atlantic	20147	450	77	3880	4407	148	20030	1945	7465	1	71	173	44	0	7460	155	7460	224	7460	680	3488	159
Région Nord-Est	7797	0	0	1472	1472	26	6116	565	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	13572	0	0	2942	2942	24	13740	1462	2546	4	32	30	9	0	2633	86	2137	29	N.A.	N.A.	1973	23
Centre-du-Québec	15781	0	0	3275	3275	149	12583	1516	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	34532	0	0	4176	4176	112	33436	2866	17877	64	149	155	35	0	17877	519	17528	323	N.A.	N.A.	17477	687
Ouest du Québec	11346	0	0	2505	2505	59	10344	1361	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	7657	0	0	1274	1275	25	7247	649	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	90685	0	0	15644	15645	395	83466	8419	20423	68	181	185	44	0	20546	605	19665	352	N.A.	N.A.	19450	710
Ottawa P.H.L.	861	91	60	19	170	2	856	87	473	0	3	4	0	0	473	0	454	7	24	0	0	0
CHEO - Ottawa	6877	0	0	741	741	16	6877	890	740	3	10	13	6	0	741	23	740	14	733	187	716	35
Kingston P.H.L.	833	66	61	11	138	8	833	61	573	0	3	6	0	0	573	0	549	6	77	0	0	0
UHN / Mount Sinai Hospital	10000	5	11	682	698	30	10000	461	546	1	9	6	3	0	0	0	503	4	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	11790	856	561	86	1503	46	11396	499	9157	13	59	48	0	0	9158	43	8893	107	426	0	0	0
Sick Kids Hospital - Toronto	2174	110	35	110	255	13	1831	214	1831	13	35	28	21	0	1831	68	1831	61	1831	438	1831	122
Sunnybrook & Women's College HSC	2121	71	65	10	146	5	2121	61	2121	4	5	9	1	0	2121	1	2121	54	2121	174	2121	84
Sault Ste. Marie P.H.L.	385	47	36	3	86	0	320	14	294	0	3	0	0	0	294	0	288	5	10	0	0	0
Timmins P.H.L.	330	57	4	1	62	0	268	6	268	0	7	3	0	0	268	0	261	1	15	0	0	0
St. Joseph's - London	3829	3	0	478	481	3	3697	350	1257	4	6	16	15	0	1257	29	1257	42	915	150	706	18
London P.H.L.	3526	313	156	58	527	11	3489	312	2404	4	22	16	0	0	2404	16	2321	27	144	0	0	0
Orillia P.H.L.	993	66	38	20	124	1	993	126	688	2	2	9	0	0	688	1	675	8	32	0	0	0
Thunder Bay P.H.L.	370	29	34	5	68	0	293	11	286	1	1	11	0	0	285	3	271	7	24	0	0	0
Sudbury P.H.L.	763	47	11	0	58	0	709	30	688	2	4	1	0	0	688	3	653	9	61	0	0	0
Hamilton P.H.L.	3212	229	137	30	396	6	3132	129	2488	9	14	27	0	0	2488	17	2447	31	106	0	0	0
Peterborough P.H.L.	952	43	49	19	111	2	949	47	732	2	4	1	0	0	732	0	723	7	12	0	0	0
Province of Ontario	49016	2033	1258	2273	5564	143	47764	3298	24546	58	187	198	46	0	24001	204	23987	390	6721	959	5571	268
Manitoba	8711	302	52	721	1075	19	8389	522	3578	2	12	49	12	0	3578	33	2250	67	3578	384	2284	110
Regina	7581	1418	101	150	1669	57	7581	476	9514	4	60	160	35	0	7581	109	7581	120	7581	1339	7581	214
Saskatoon	5574	0	0	799	799	21	5574	409	5574	2	7	22	13	35	5574	37	5574	86	5574	322	5574	65
Province of Saskatchewan	13155	1418	101	949	2468	78	13155	885	15088	6	67	182	48	35	13155	146	13155	206	13155	1661	13155	279
Province of Alberta	31109	3581	659	2017	6257	187	25058	0	25058	25	217	423	225	0	25058	347	25058	651	25058	3706	25058	1167
Prairies	52975	5301	812	3687	9800	284	46602	1407	43724	33	296	654	285	35	41791	526	40463	924	41791	5751	40497	1556
British Columbia	21432	2981	1065	2019	6065	143	22411	1432	9009	13	67	266	95	0	9009	130	9009	38	6733	1376	6733	408
Yukon	308	53	11	28	92	0	308	18	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	702	170	2	0	172	1	698	0	698	2	0	26	4	0	698	20	698	4	698	117	698	46
Nunavut	79	20	0	0	20	0	79	0	79	1	0	1	0	0	79	12	78	0	79	22	78	7
Territories	1089	243	13	28	284	1	1085	18	777	3	0	27	4	0	777	32	776	4	777	139	776	53
CANADA	235344	11008	3225	27531	41765	1114	221358	16519	105944	176	802	1503	518	35	103584	1652	101360	1932	63482	8905	76515	3154

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

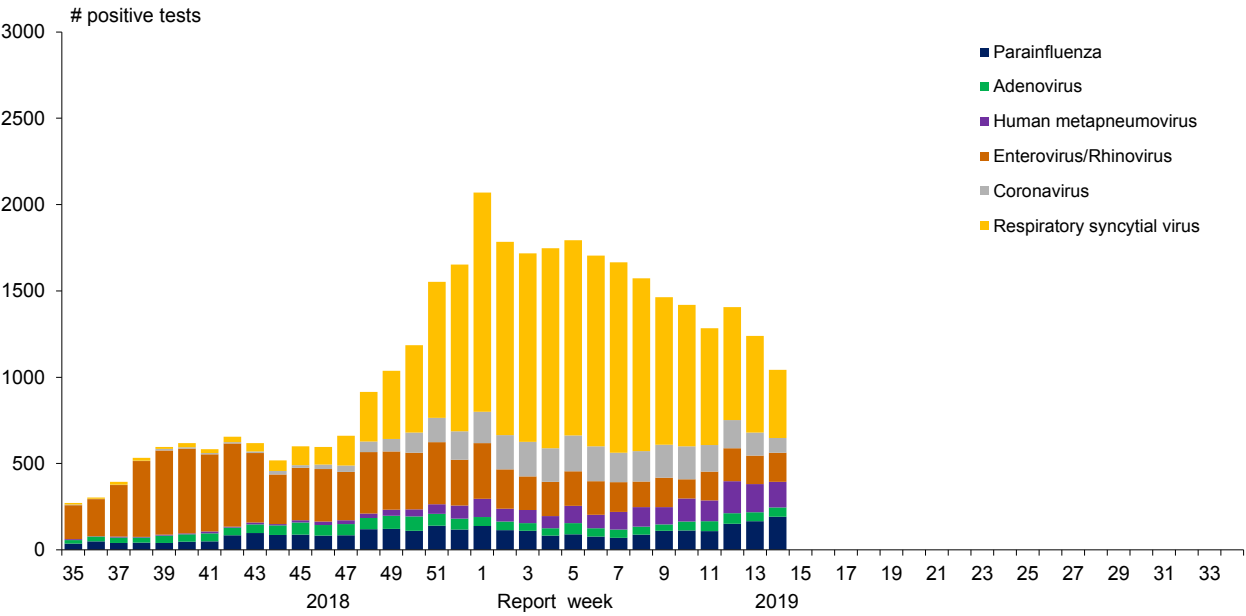


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

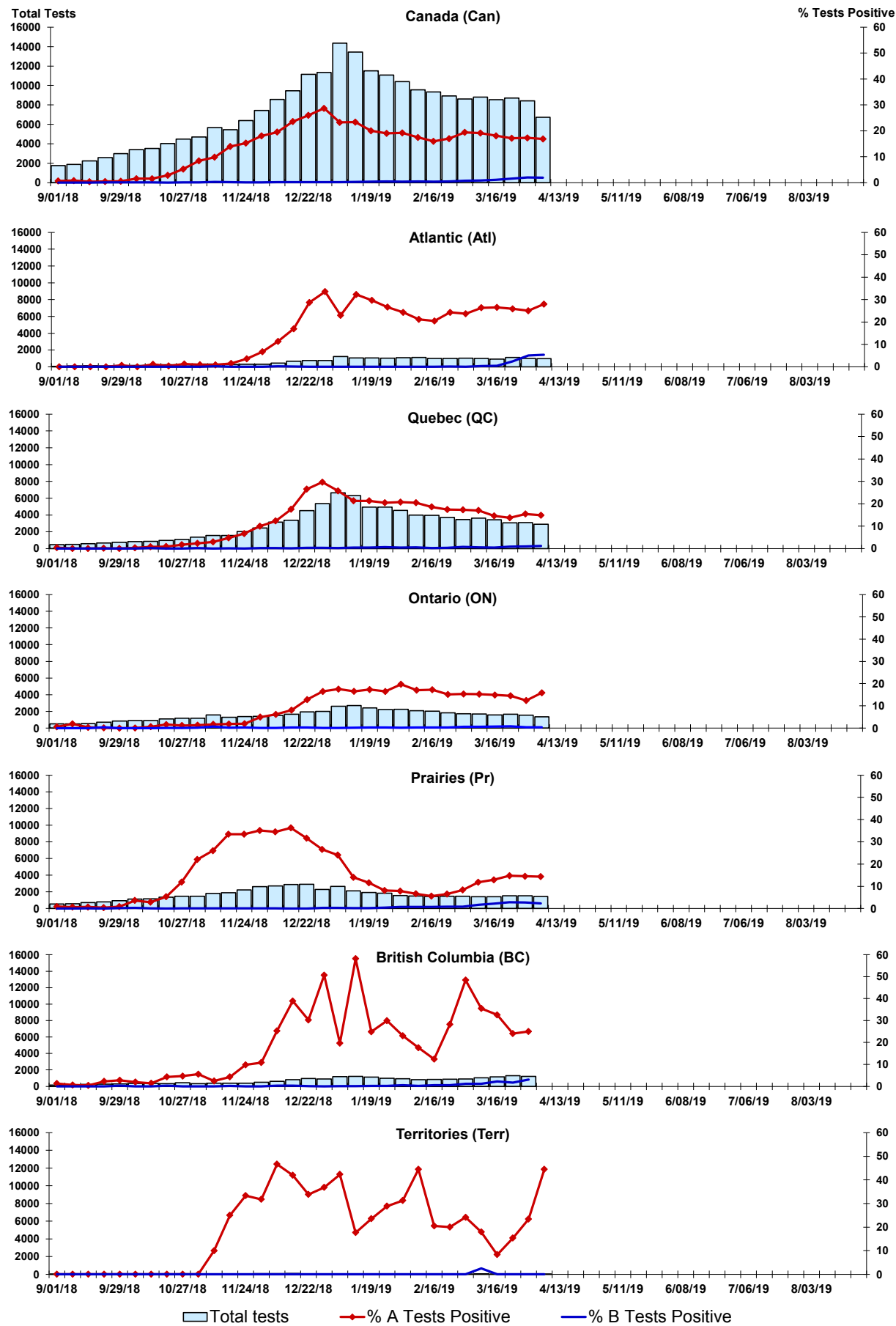


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

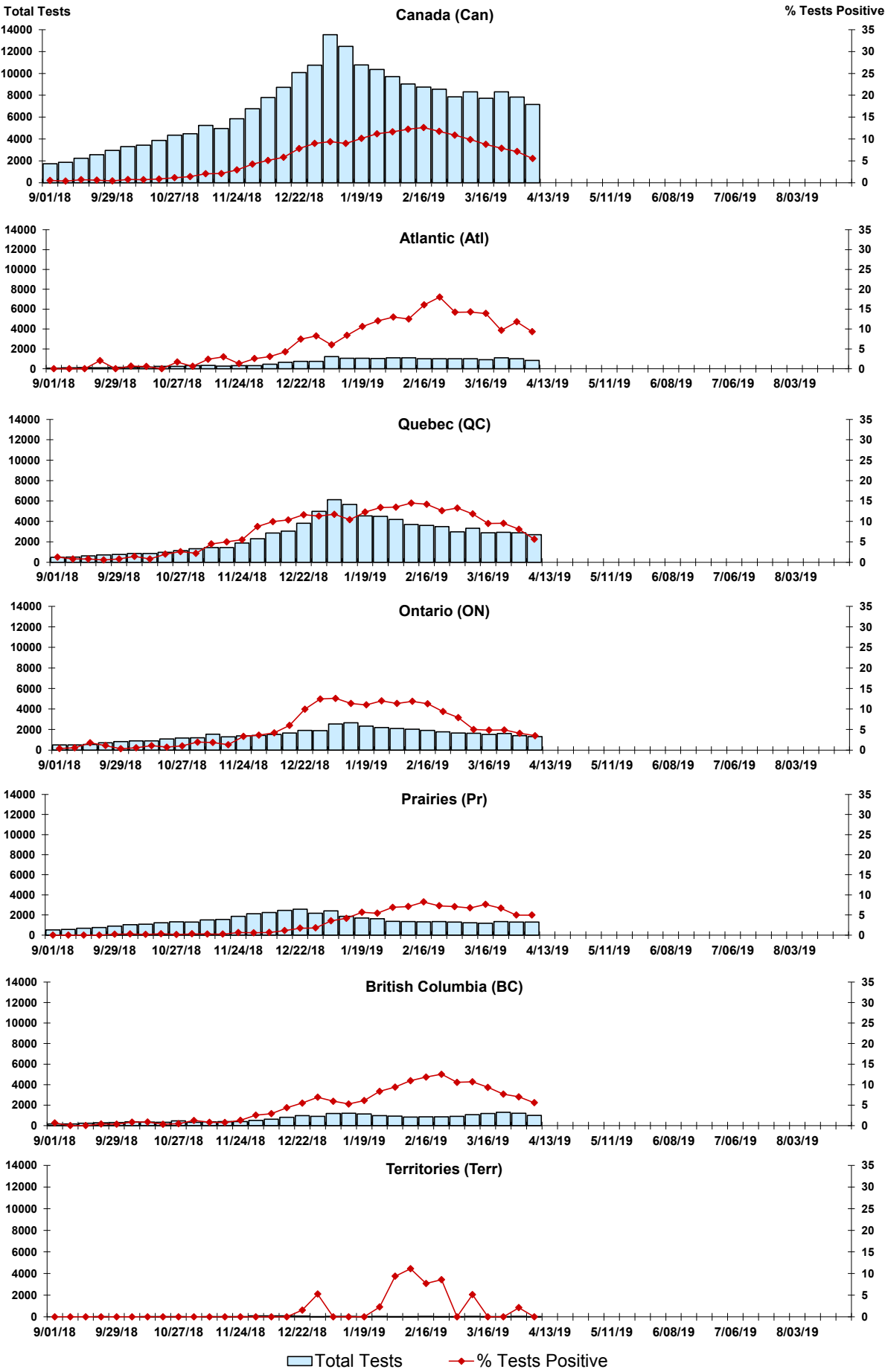


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

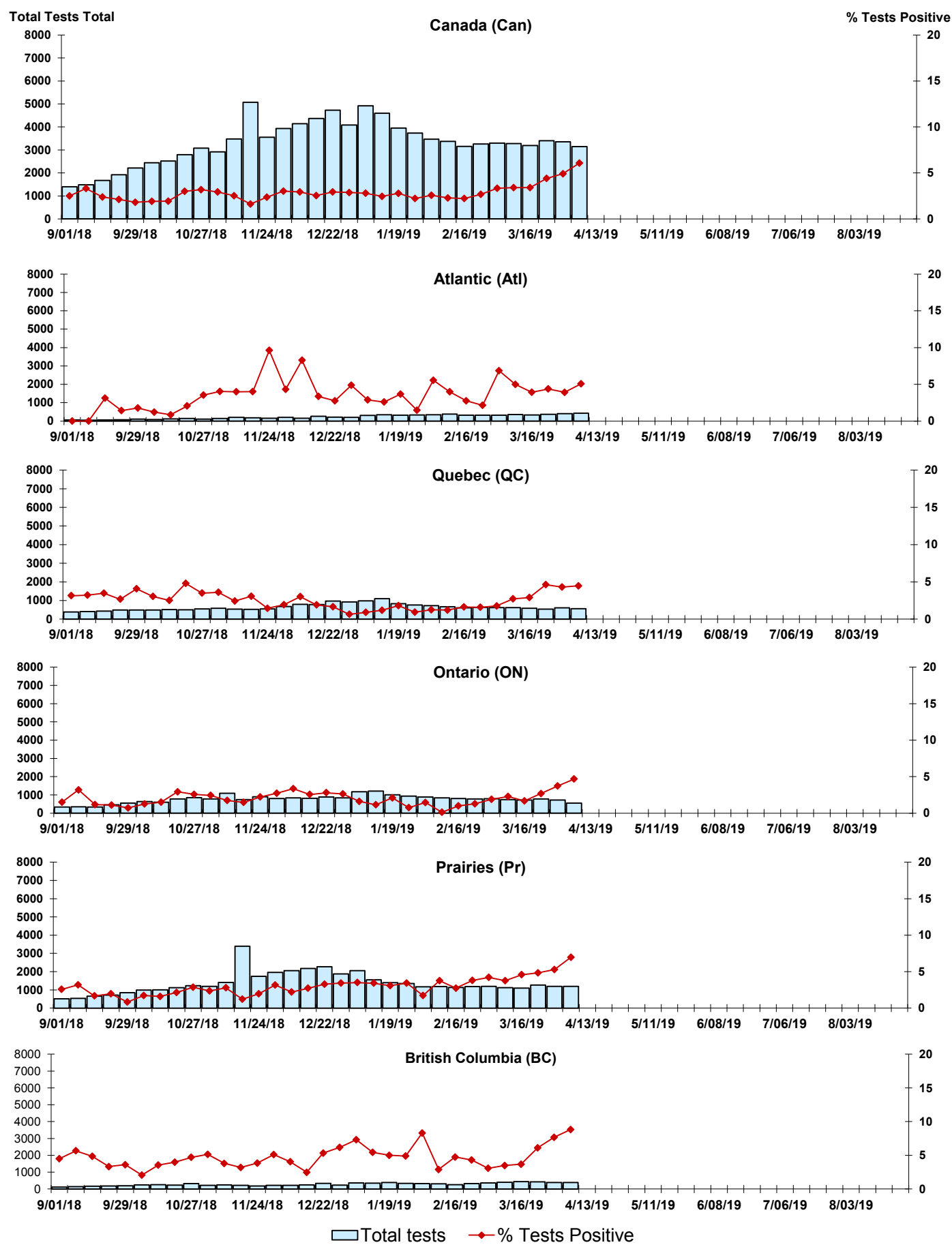


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

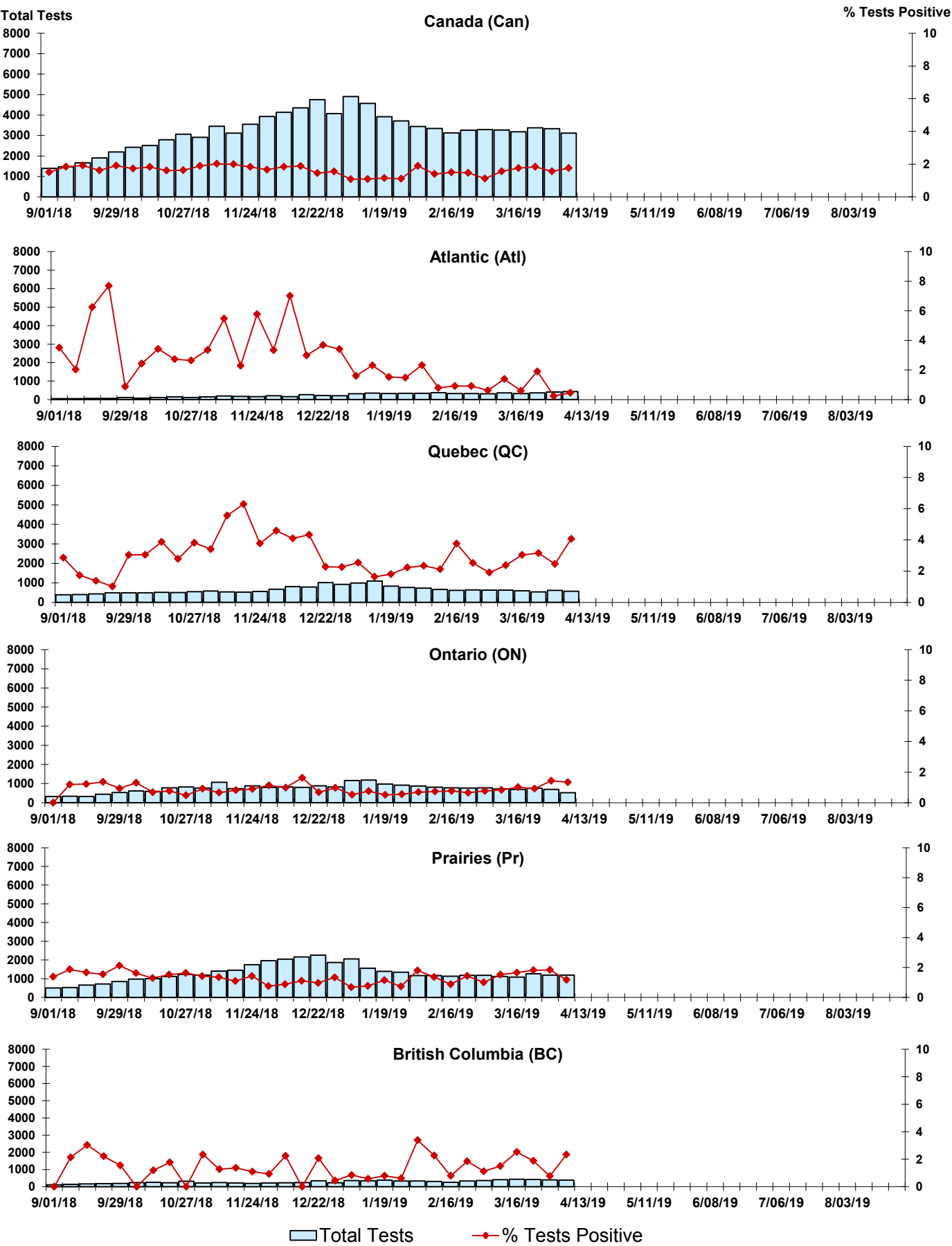


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

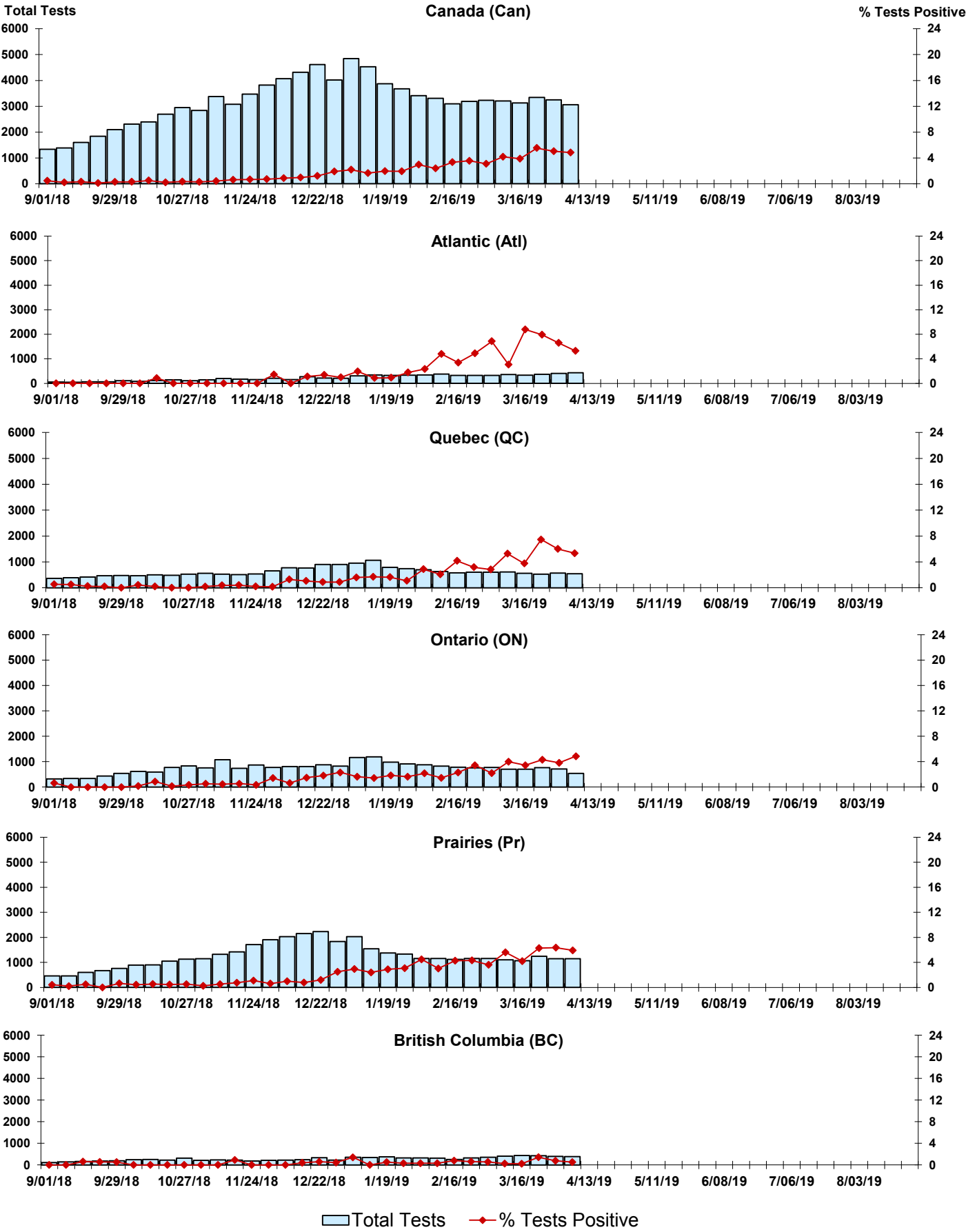


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

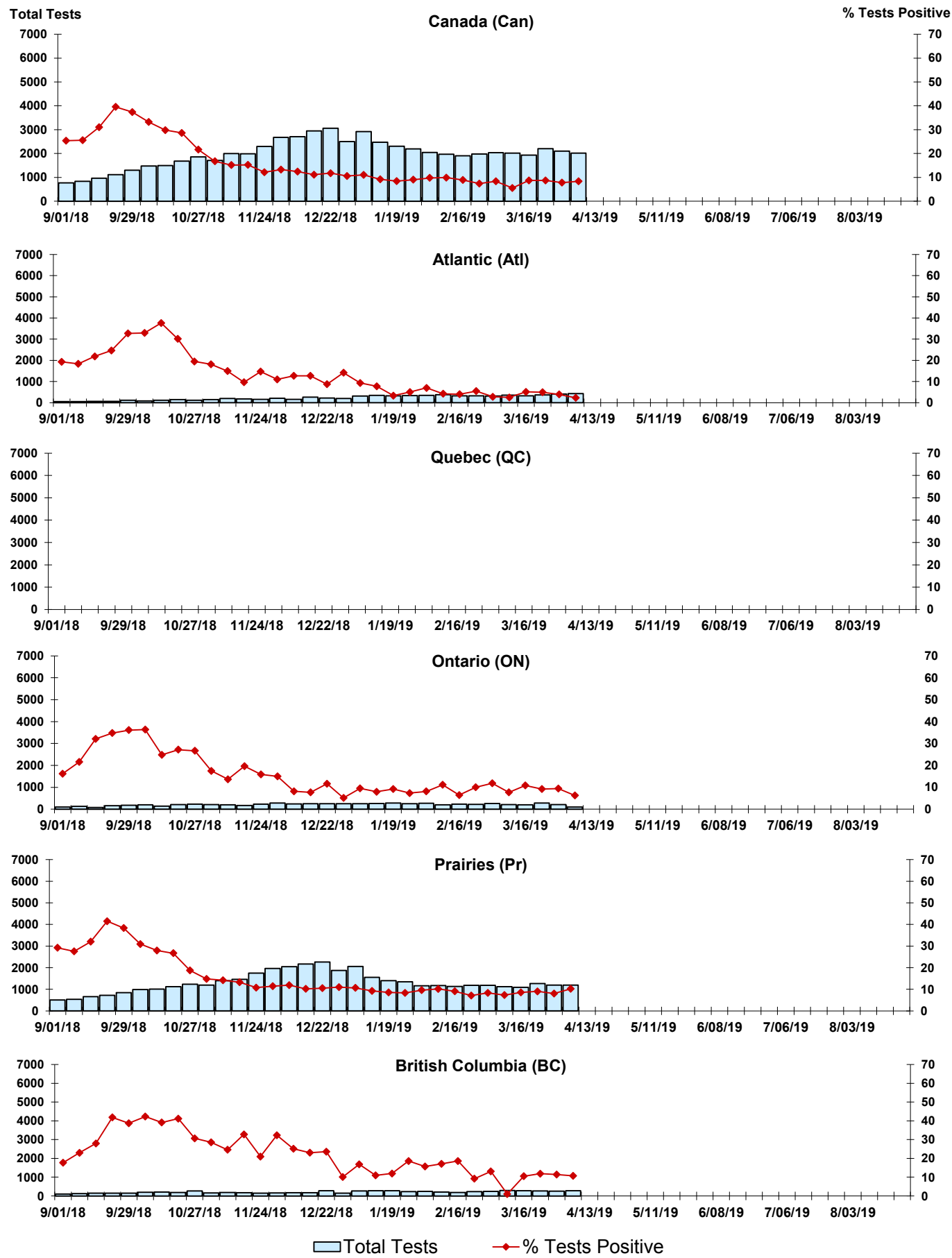
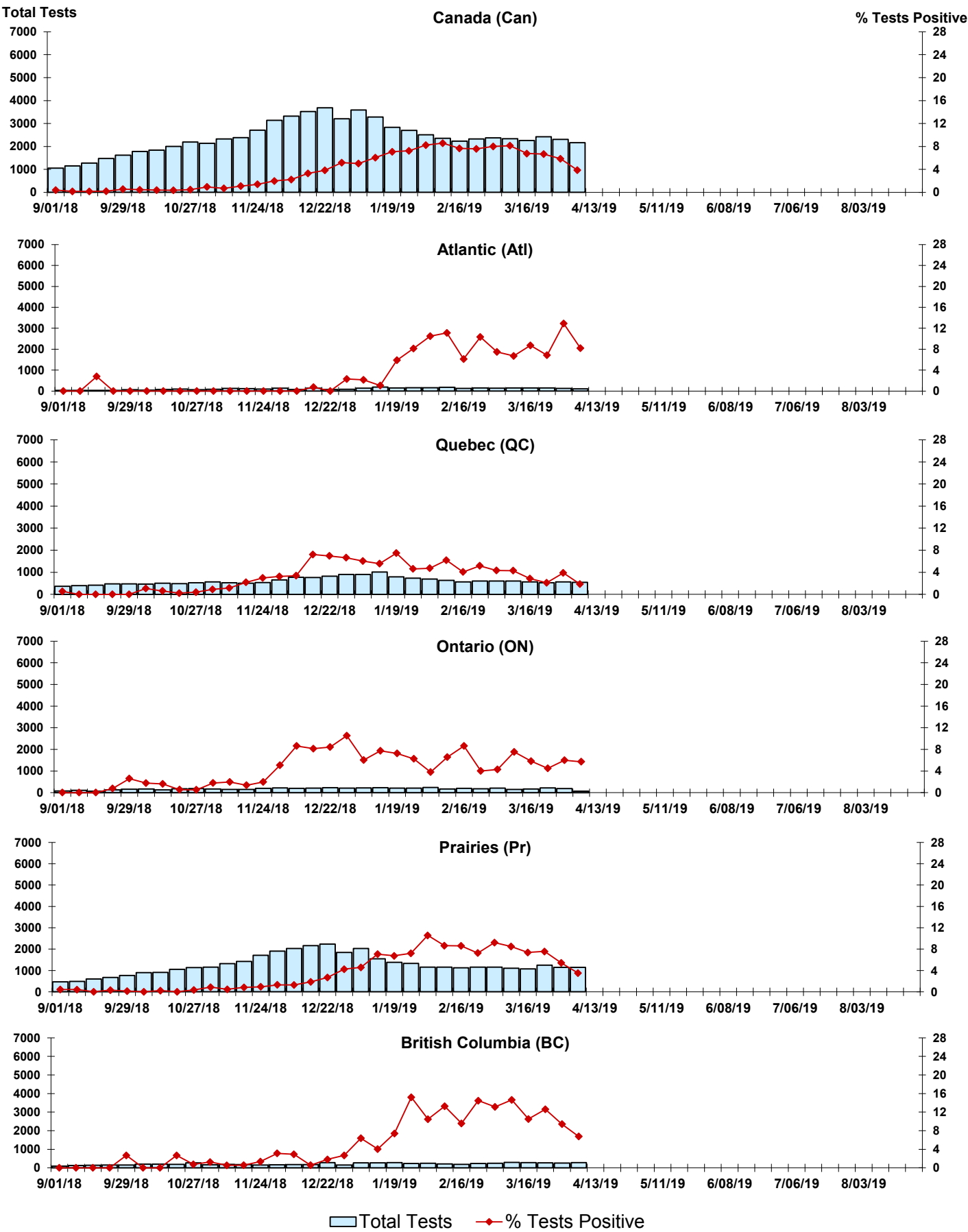


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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