

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 13 - ending March 30, 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 March 30, 2019 (Reporting Week 201913)

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	285	0	0	97	97	0	285	23	285	0	0	6	0	0	285	0	285	16	285	5	N.A.	N.A.
Prince Edward Island	53	1	10	1	12	0	53	10	3	0	0	1	0	0	3	0	3	0	3	0	3	1
Nova Scotia	187	0	0	39	39	1	191	25	12	0	0	4	0	0	12	0	12	1	12	1	12	0
New Brunswick	472	0	0	101	101	49	472	60	109	0	0	5	0	0	109	1	109	10	109	10	109	15
Atlantic	997	1	10	238	249	50	1001	118	409	0	0	16	0	0	409	1	409	27	409	16	124	16
Région Nord-Est	310	0	0	57	57	3	240	36	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	303	0	0	47	47	1	324	28	102	0	0	6	0	0	107	4	79	5	N.A.	N.A.	78	0
Centre-du-Québec	526	0	0	95	95	4	398	46	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1151	0	0	115	115	7	1133	77	503	1	2	17	0	0	503	11	489	29	N.A.	N.A.	489	22
Ouest du Québec	269	0	0	73	73	13	263	13	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	305	0	0	41	41	2	305	22	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2864	0	0	428	428	30	2663	222	605	1	2	23	0	0	610	15	568	34	N.A.	N.A.	567	22
Ottawa P.H.L.	24	0	5	0	5	0	24	2	10	0	0	1	0	0	10	0	10	0	0	0	0	0
CHEO - Ottawa	237	0	0	22	22	0	237	18	26	0	1	2	0	0	26	3	26	1	26	3	25	4
Kingston P.H.L.	36	2	8	1	11	1	36	0	17	0	0	0	0	0	17	0	17	1	0	0	0	0
UHN / Mount Sinai Hospital	325	0	1	20	21	0	325	5	26	1	0	2	1	0	0	0	26	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	306	12	32	6	50	3	293	7	221	0	1	5	0	0	221	2	214	8	7	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	74	0	5	0	5	0	74	1	74	0	0	0	0	0	74	0	74	7	74	5	74	3
Sault Ste. Marie P.H.L.	18	2	5	0	7	0	14	1	11	0	0	0	0	0	11	0	11	0	0	0	0	0
Timmins P.H.L.	9	0	1	0	1	0	8	2	8	0	0	0	0	0	8	0	8	0	0	0	0	0
St. Joseph's - London	160	0	0	25	25	1	35	6	35	0	1	1	0	0	35	2	35	2	17	3	17	1
London P.H.L.	101	1	8	1	10	0	99	7	61	0	0	1	0	0	61	1	56	3	5	0	0	0
Orillia P.H.L.	42	1	1	0	2	0	42	2	31	0	0	3	0	0	31	0	30	3	1	0	0	0
Thunder Bay P.H.L.	8	0	1	0	1	0	6	0	6	0	0	1	0	0	6	0	6	0	0	0	0	0
Sudbury P.H.L.	27	1	3	0	4	0	23	0	22	1	0	0	0	0	22	0	21	0	1	0	0	0
Hamilton P.H.L.	114	2	14	2	18	1	102	4	70	1	0	1	0	0	70	0	69	0	1	0	0	0
Peterborough P.H.L.	29	0	5	1	6	0	29	0	15	0	0	0	0	0	15	0	14	0	1	0	0	0
Province of Ontario	1510	21	89	78	188	6	1347	55	633	3	3	17	1	0	607	8	617	26	159	11	142	8
Manitoba	320	1	9	3	13	7	276	36	169	0	0	11	0	0	169	1	120	0	169	6	120	11
Regina	103	4	2	0	6	9	103	8	103	0	0	2	0	0	103	1	103	1	103	7	103	4
Saskatoon	173	0	0	17	17	3	173	21	173	0	0	0	0	15	173	7	173	17	173	14	173	2
Province of Saskatchewan	276	4	2	17	23	12	276	29	276	0	0	2	0	15	276	8	276	18	276	21	276	6
Province of Alberta	875	21	100	57	178	21	712	0	712	0	1	29	3	0	712	13	712	50	712	67	712	41
Prairies	1471	26	111	77	214	40	1264	65	1157	0	1	42	3	15	1157	22	1108	68	1157	94	1108	58
British Columbia	1211	59	147	293	499	38	1211	51	369	2	3	21	3	0	369	3	369	3	233	29	233	23
Yukon	18	0	0	7	7	0	18	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	21	4	0	0	4	0	21	0	21	0	0	1	0	0	21	0	21	0	21	2	21	0
Nunavut	5	0	0	0	0	0	5	0	5	0	0	1	0	0	5	0	5	0	5	0	5	0
Territories	44	4	0	7	11	0	44	1	26	0	0	2	0	0	26	0	26	0	26	2	26	0
CANADA	8097	111	357	1121	1589	164	7530	512	3199	6	9	121	7	15	3178	49	3097	158	1984	152	2200	127

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 - March 30, 2019 (Reporting Weeks 201835-201913)

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	3648	1	0	672	673	3	3648	389	3648	0	50	104	0	0	3648	32	3648	87	3648	281	N.A.	N.A.
Prince Edward Island	1056	217	37	1	255	0	1054	119	72	1	0	2	3	0	67	5	67	2	67	22	67	3
Nova Scotia	3171	0	0	667	667	11	3176	312	462	0	4	16	2	0	462	0	462	7	462	61	462	9
New Brunswick	11306	230	34	2276	2540	82	11309	1046	2849	0	16	31	38	0	2849	116	2849	105	2849	306	2849	138
Atlantic	19181	448	71	3616	4135	96	19187	1866	7031	1	70	153	43	0	7026	153	7026	201	7026	670	3378	150
Région Nord-Est	7470	0	0	1420	1420	18	5858	540	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	12830	0	0	2810	2810	19	12989	1423	2459	4	32	27	9	0	2541	84	2059	26	N.A.	N.A.	1896	21
Centre-du-Québec	15252	0	0	3173	3173	144	12142	1482	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	33531	0	0	4072	4072	100	32461	2819	17404	61	149	136	35	0	17404	498	17062	297	N.A.	N.A.	17011	679
Ouest du Québec	11058	0	0	2444	2444	55	10063	1352	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	7421	0	0	1244	1245	24	7048	640	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	87562	0	0	15163	15164	360	80561	8256	19863	65	181	163	44	0	19981	582	19121	323	N.A.	N.A.	18907	700
Ottawa P.H.L.	842	91	53	19	163	2	837	86	454	0	3	4	0	0	454	0	435	6	22	0	0	0
CHEO - Ottawa	6667	0	0	709	709	16	6667	877	717	2	10	10	5	0	718	23	717	14	710	182	697	35
Kingston P.H.L.	811	66	53	13	132	8	811	61	556	0	3	5	0	0	556	0	534	6	68	0	0	0
UHN / Mount Sinai Hospital	9682	5	11	658	674	28	9682	450	515	1	9	3	3	0	0	0	472	4	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	11470	846	512	86	1444	46	11094	491	8901	13	59	43	0	0	8902	40	8657	98	401	0	0	0
Sick Kids Hospital - Toronto	2122	110	32	107	249	12	1789	213	1789	13	35	27	21	0	1789	67	1789	61	1789	429	1789	119
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.	375	47	31	2	80	0	312	13	291	0	3	0	0	0	291	0	285	5	8	0	0	0
Timmins P.H.L.	318	56	4	1	61	0	257	6	257	0	7	3	0	0	257	0	250	1	15	0	0	0
St. Joseph's - London	3695	3	0	456	459	2	3563	347	1221	4	6	11	14	0	1221	29	1221	37	895	149	686	15
London P.H.L.	3413	311	126	66	503	9	3374	308	2310	4	21	13	0	0	2310	14	2232	20	131	0	0	0
Orillia P.H.L.	961	66	36	20	122	1	961	122	661	2	2	8	0	0	661	1	648	8	27	0	0	0
Thunder Bay P.H.L.	344	28	21	5	54	0	285	11	278	1	1	11	0	0	277	2	264	7	23	0	0	0
Sudbury P.H.L.	728	46	8	0	54	0	678	29	658	2	4	1	0	0	658	3	624	9	57	0	0	0
Hamilton P.H.L.	3130	227	126	33	386	5	3047	128	2406	8	14	25	0	0	2406	14	2365	25	87	0	0	0
Peterborough P.H.L.	921	43	44	19	106	2	918	47	712	2	4	1	0	0	712	0	703	6	11	0	0	0
Province of Ontario	47600	2016	1122	2204	5342	136	46396	3250	23847	56	186	174	44	0	23333	194	23317	361	6524	944	5459	261
Manitoba	8444	293	43	722	1058	18	8150	500	3434	1	12	41	12	0	3434	33	2152	59	3434	377	2186	104
Regina	7461	1417	90	149	1656	50	7461	454	9394	4	60	155	35	0	7461	107	7461	113	7461	1324	7461	208
Saskatoon	5377	0	0	776	776	17	5377	389	5377	2	7	21	13	21	5377	37	5377	71	5377	306	5377	64
Province of Saskatchewan	12838	1417	90	925	2432	67	12838	843	14771	6	67	176	48	21	12838	144	12838	184	12838	1630	12838	272
Province of Alberta	30124	3572	549	1967	6088	163	24254	0	24254	25	209	374	221	0	24254	334	24254	601	24254	3618	24254	1133
Prairies	51406	5282	682	3614	9578	248	45242	1343	42459	32	288	591	281	21	40526	511	39244	844	40526	5625	39278	1509
British Columbia	21432	2981	1065	2019	6065	143	21432	1343	8623	13	65	234	95	0	8623	121	8623	36	6451	1346	6451	389
Yukon	296	50	4	27	81	0	296	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	678	168	2	0	170	1	674	0	674	2	0	24	4	0	674	20	674	4	674	115	674	41
Nunavut	76	20	0	0	20	0	76	0	76	0	0	1	0	0	76	11	75	0	76	22	75	7
Territories	1050	238	6	27	271	1	1046	18	750	2	0	25	4	0	750	31	749	4	750	137	749	48
CANADA	228231	10965	2946	26643	40555	984	213864	16076	102573	169	790	1340	511	21	100239	1592	98080	1769	61277	8722	74222	3057

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

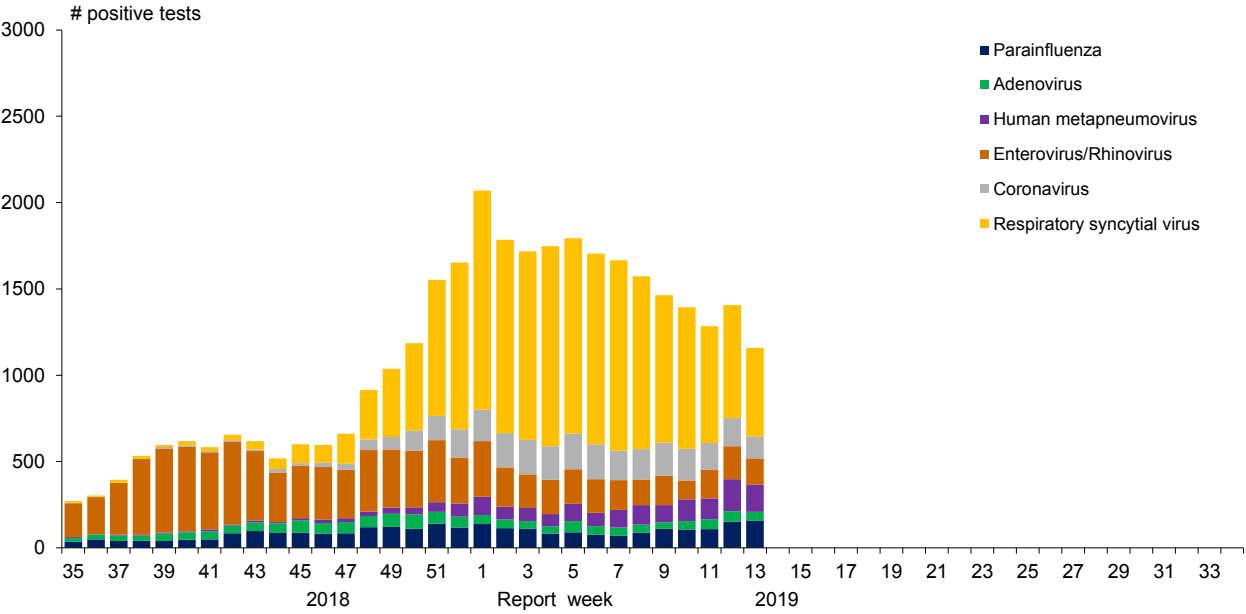


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

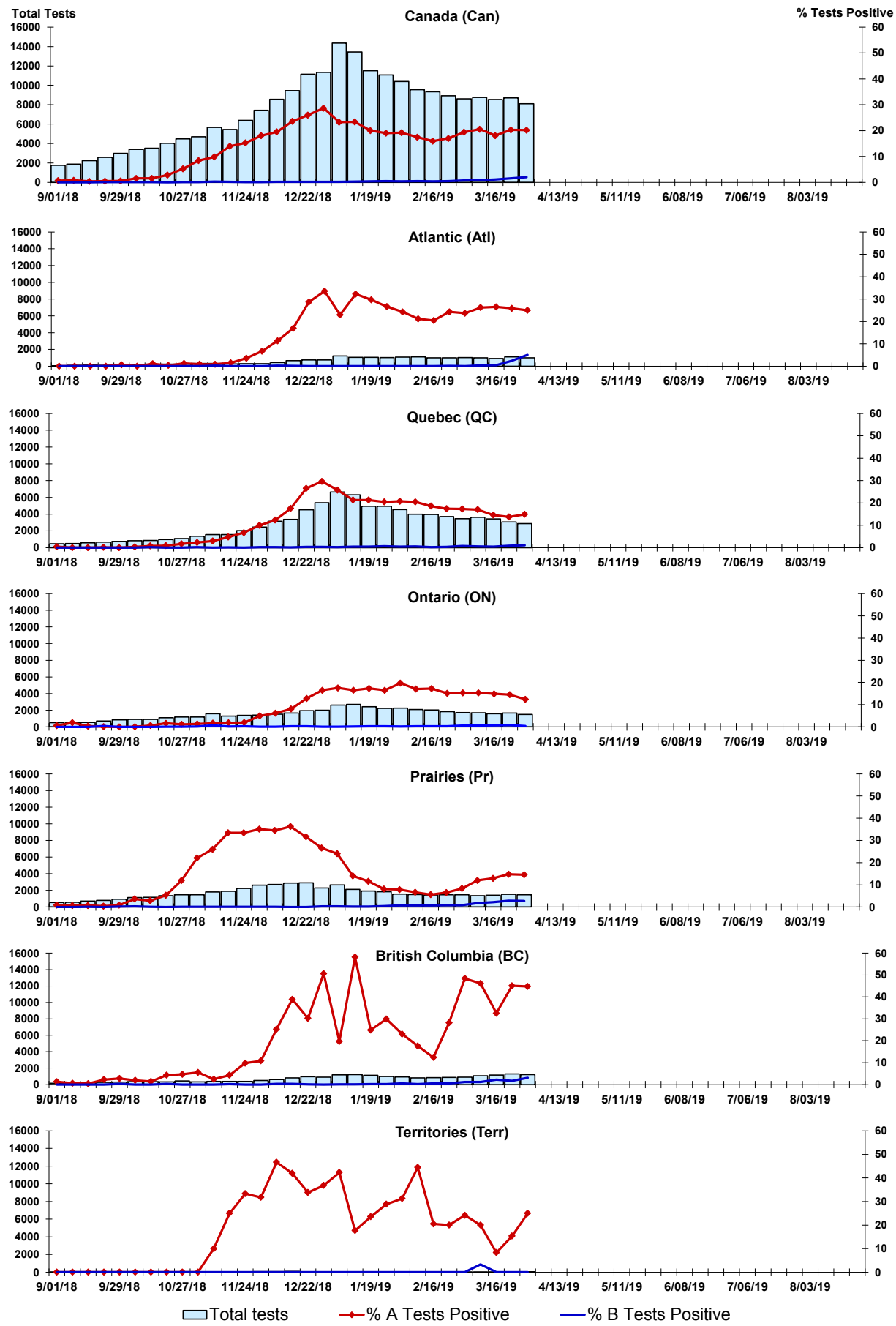


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

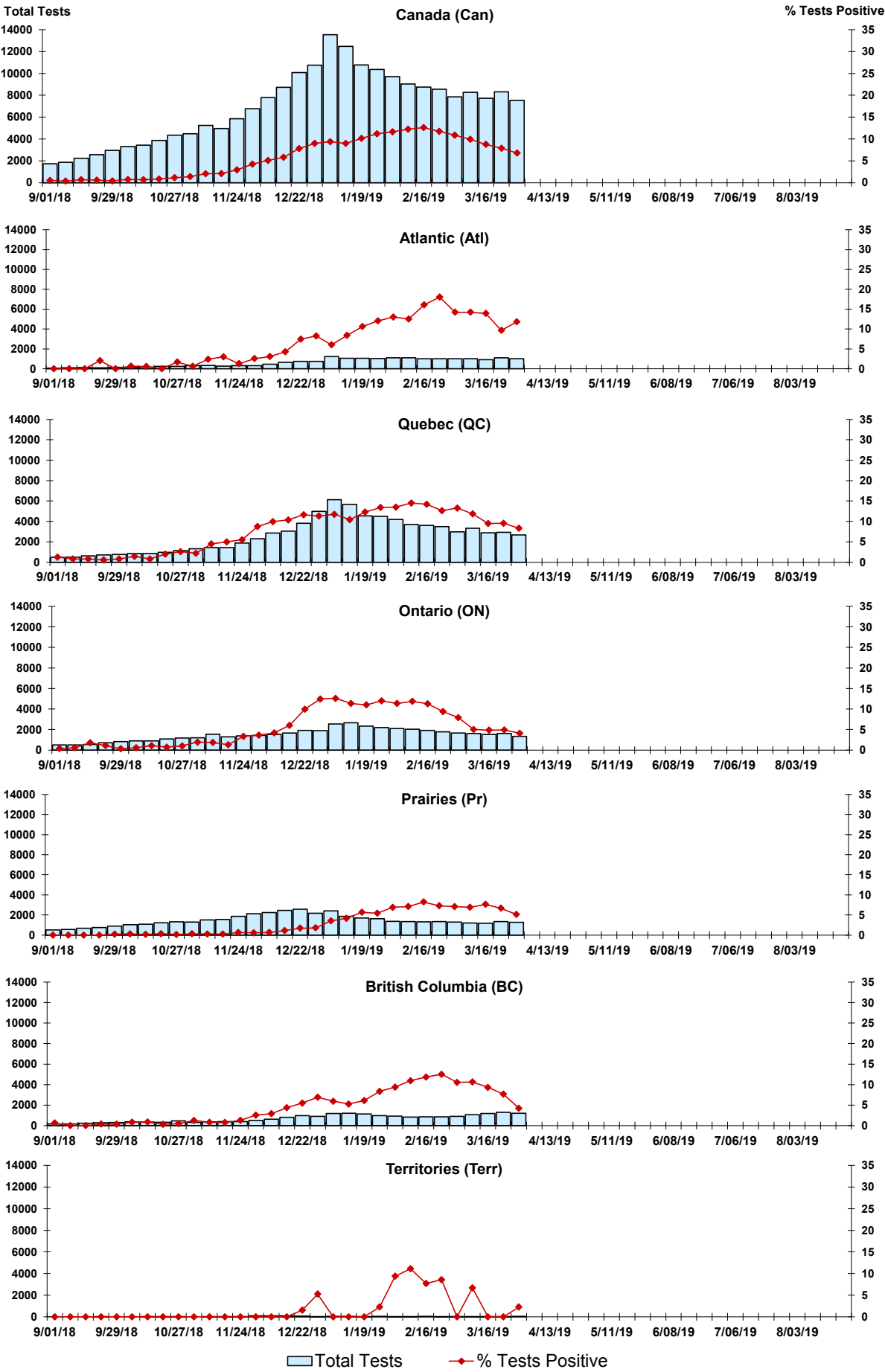


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

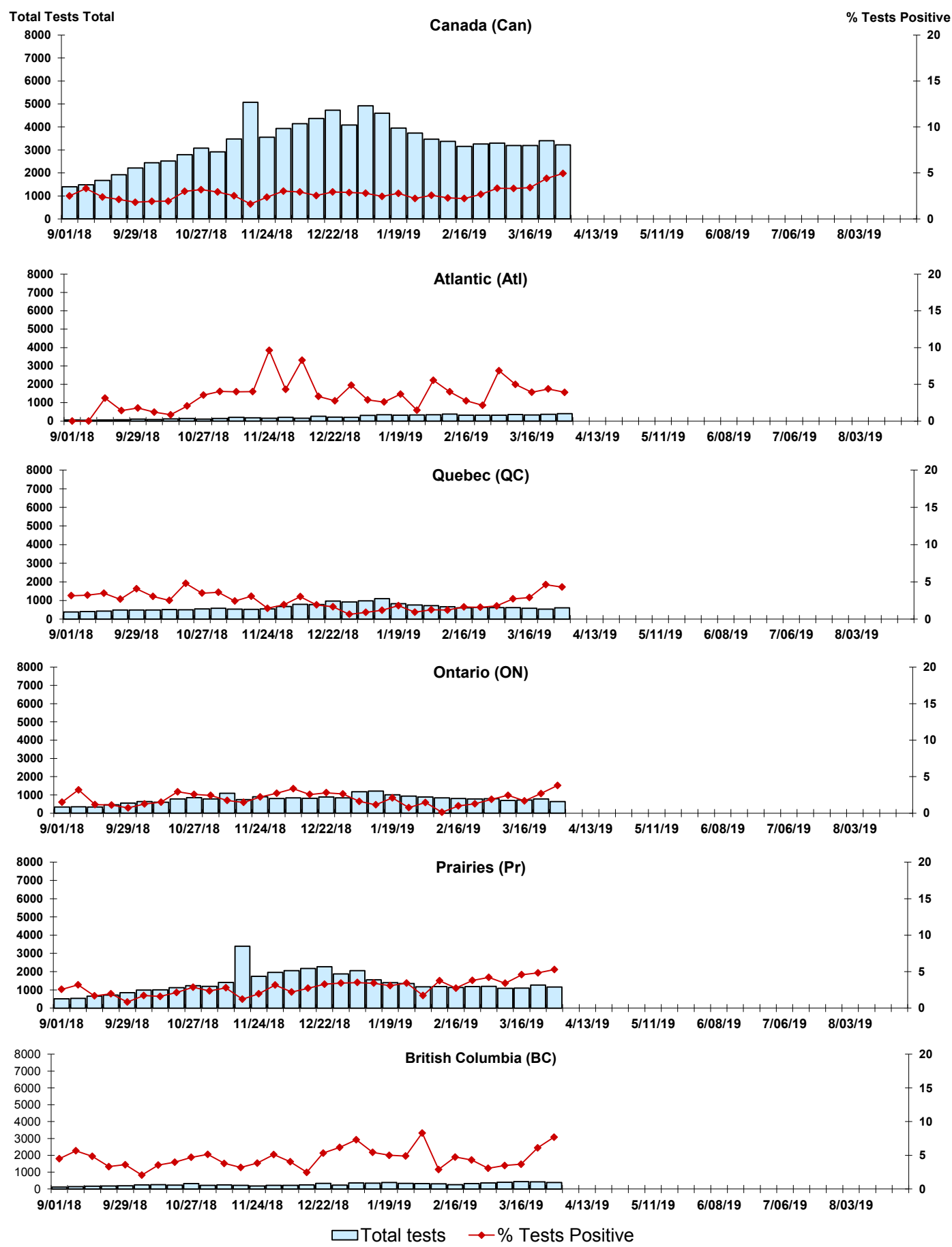


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

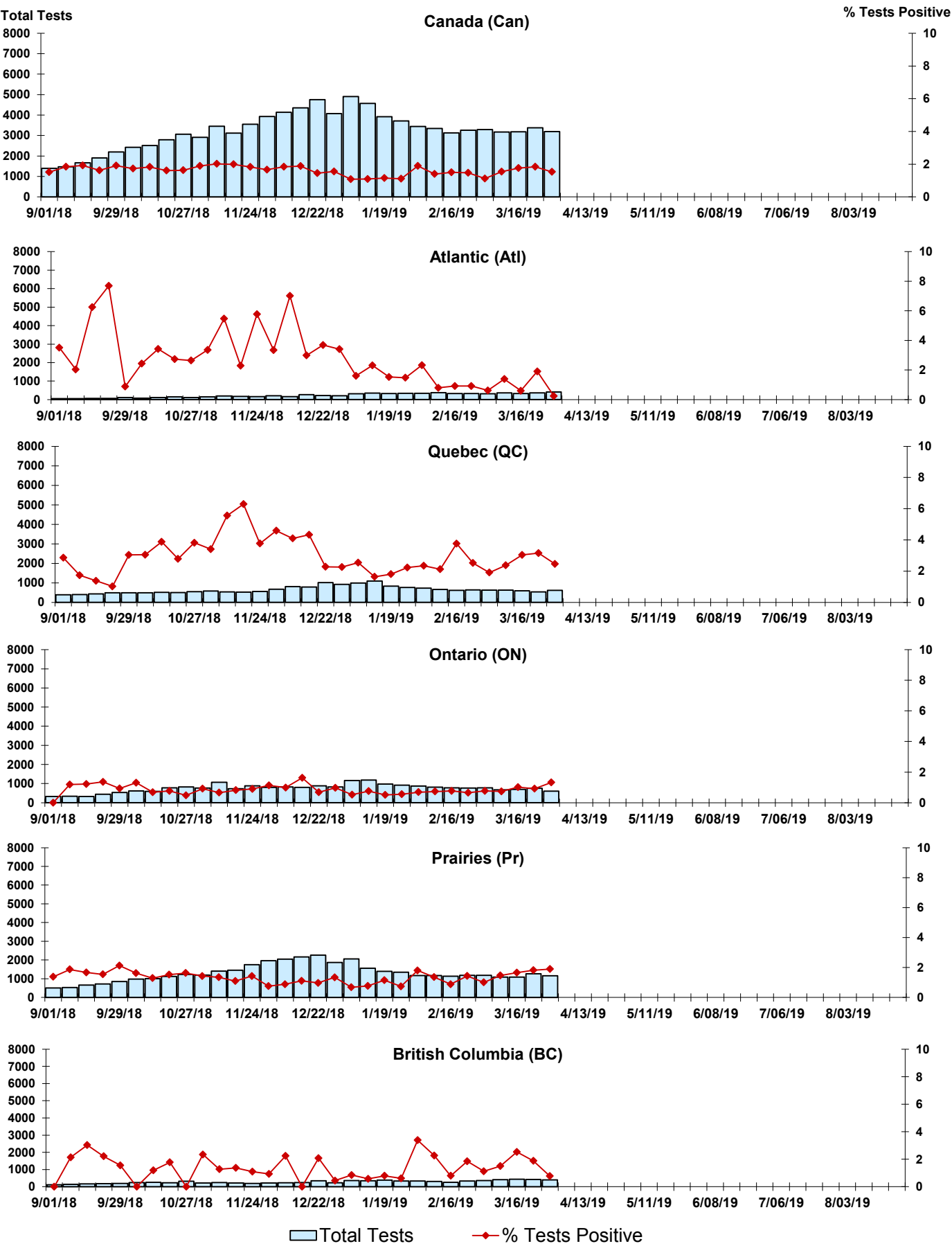


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

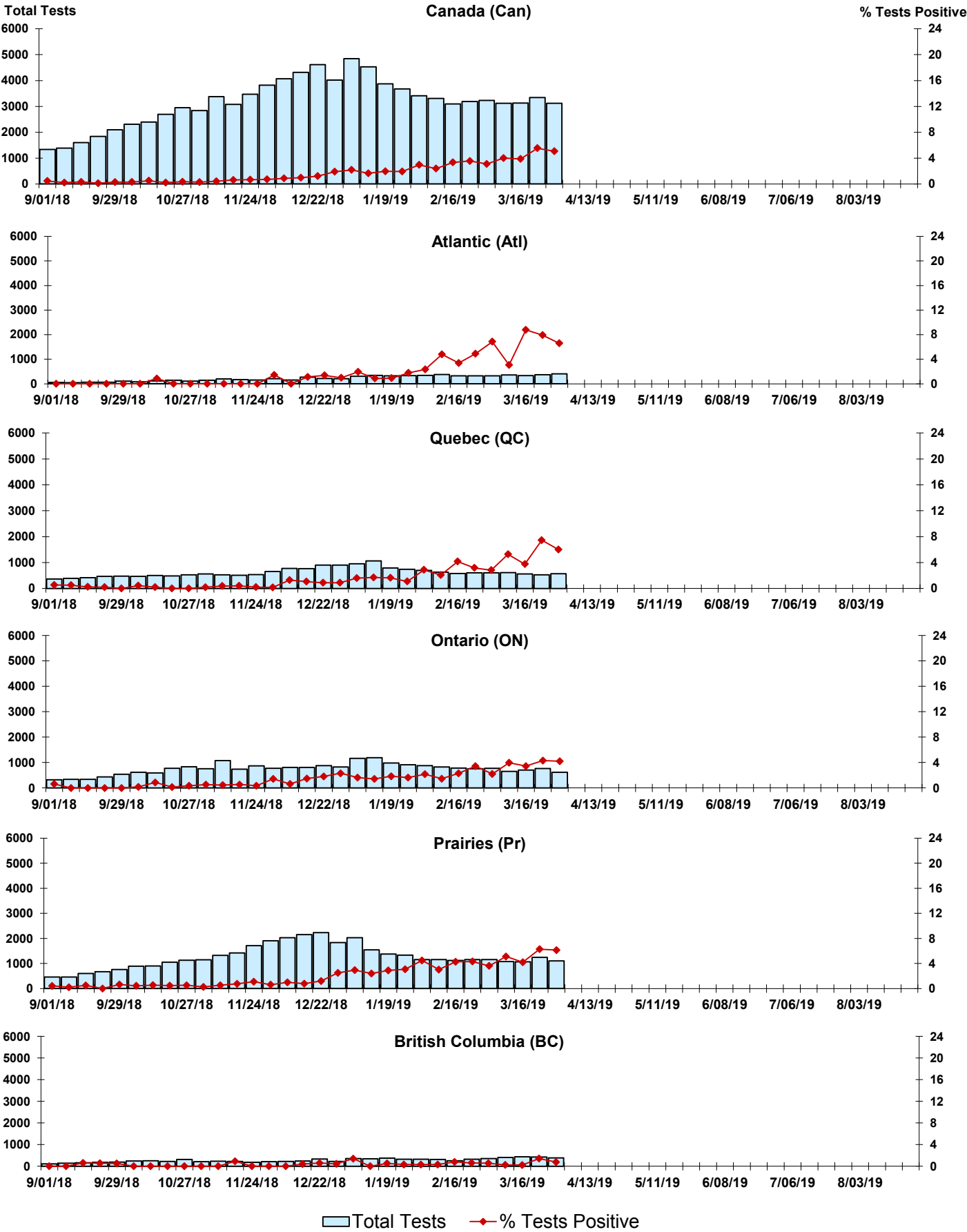


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

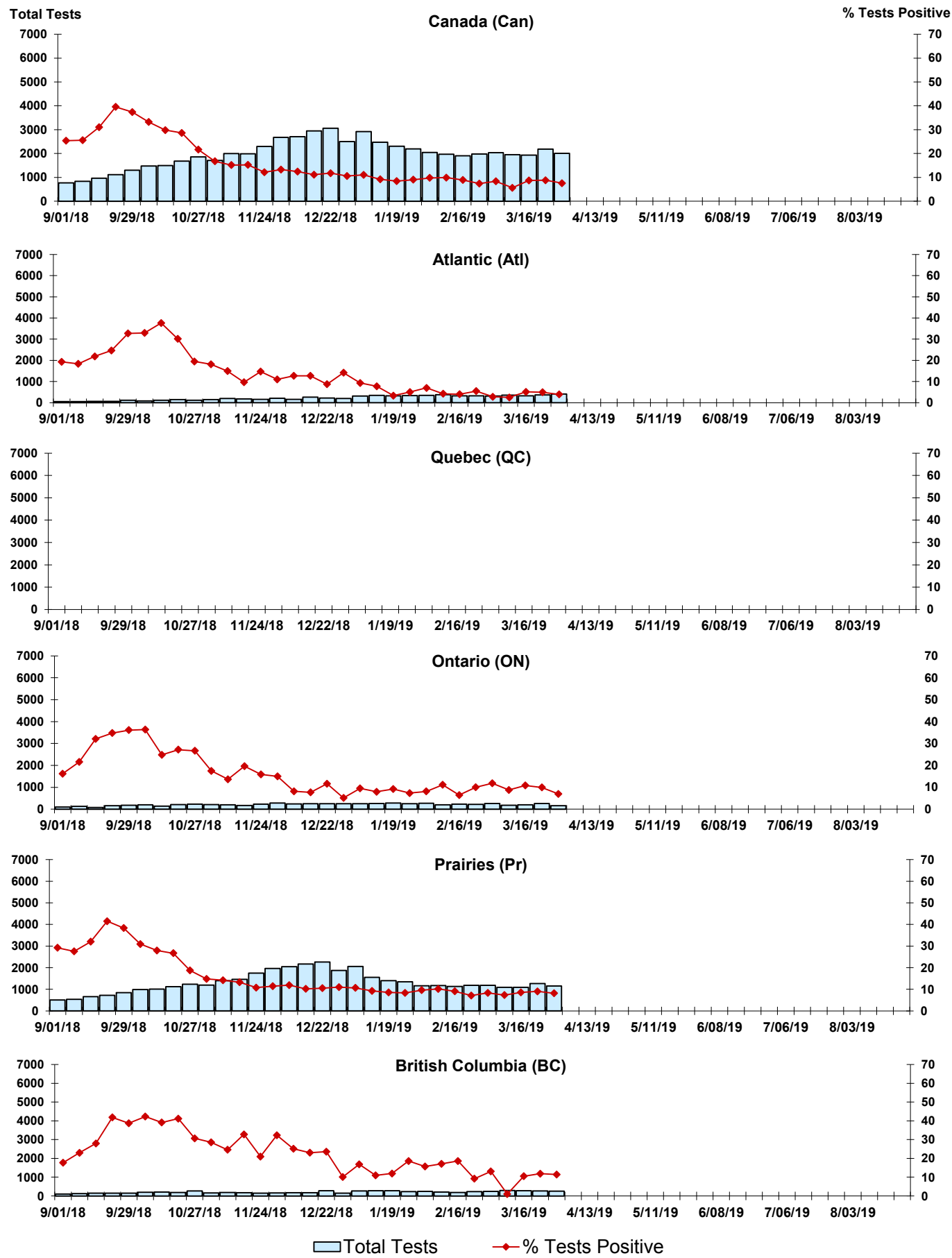
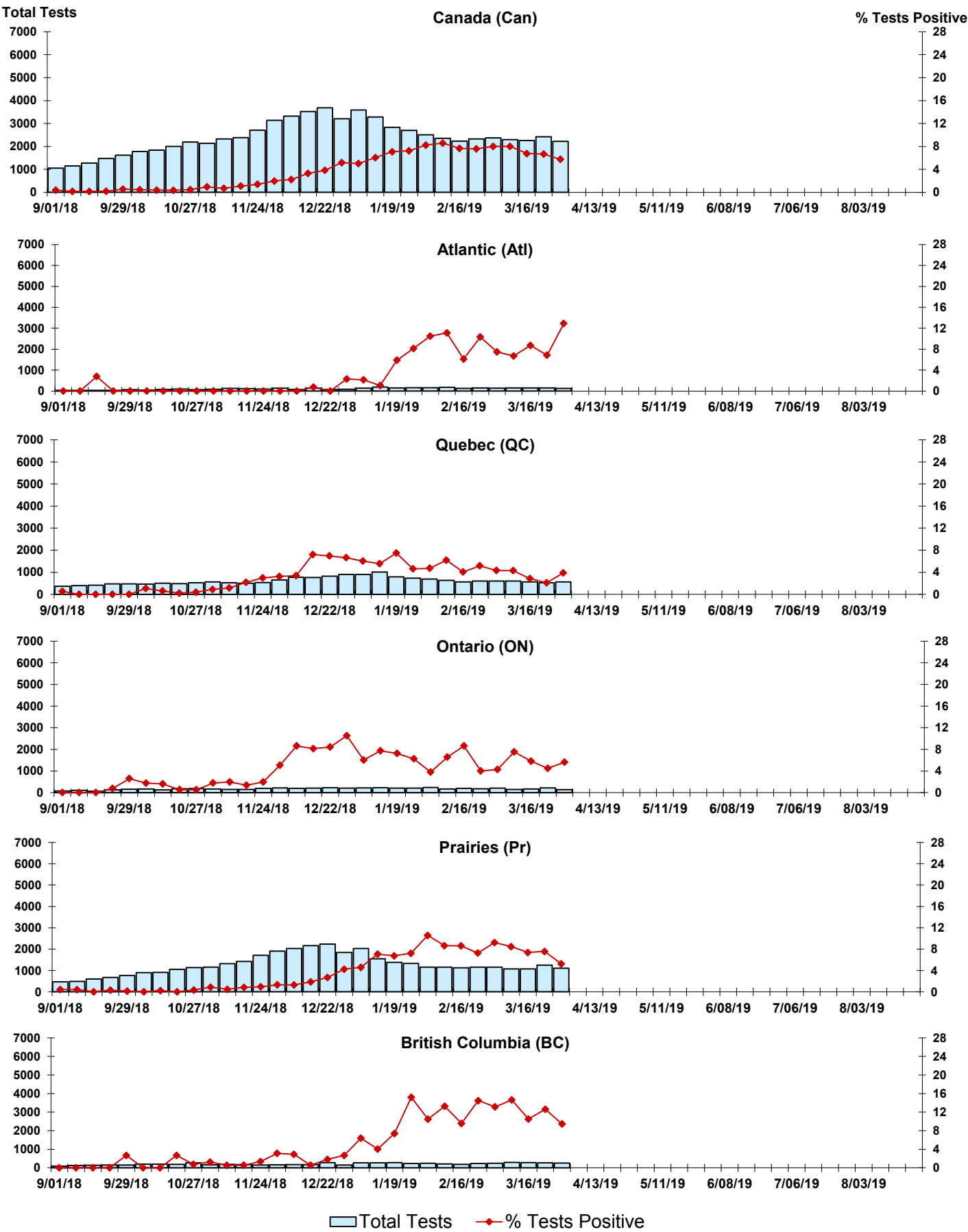


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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