

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 06 - ending February 9, 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 February 9, 2019 (Reporting Week 201906)

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.
Prince Edward Island	66	21	0	0	21	0	66	8	2	1	0	0	0	0	2	0	2	0	2	0	2	0
Nova Scotia	174	0	0	41	41	0	176	19	15	0	0	1	0	0	15	0	15	0	15	2	15	0
New Brunswick	674	20	2	103	125	0	674	85	163	0	1	1	2	0	163	2	163	11	163	7	163	20
Atlantic	914	41	2	144	187	0	916	112	180	1	1	2	2	0	180	2	180	11	180	9	180	20
Région Nord-Est	343	0	0	75	75	1	301	53	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	610	0	0	148	148	0	646	97	103	0	0	0	0	0	101	0	82	1	N.A.	N.A.	82	4
Centre-du-Québec	834	0	0	160	160	8	634	129	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1307	0	0	197	197	5	1268	136	559	1	0	7	0	0	559	14	548	12	N.A.	N.A.	548	35
Ouest du Québec	538	0	0	156	156	7	490	79	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	350	0	0	79	79	0	350	41	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	3982	0	0	815	815	21	3689	535	662	1	0	7	0	0	660	14	630	13	N.A.	N.A.	630	39
Ottawa P.H.L.	48	9	3	2	14	0	48	10	12	0	0	0	0	0	12	0	12	0	0	0	0	0
CHEO - Ottawa	340	0	0	52	52	0	340	70	25	0	0	0	0	0	26	0	26	1	26	5	22	1
Kingston P.H.L.	34	10	0	0	10	0	34	6	5	0	0	0	0	0	5	0	5	0	0	0	0	0
UHN / Mount Sinai Hospital	428	1	1	36	38	1	428	21	23	0	0	0	0	0	0	0	23	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	447	40	43	5	88	4	423	35	302	0	0	0	0	0	302	1	296	5	6	0	0	0
Sick Kids Hospital - Toronto	52	2	3	0	5	0	52	6	52	0	0	0	0	0	52	4	52	3	52	11	52	3
Sunnybrook & Women's College HSC	70	1	2	0	3	0	70	5	70	0	0	0	0	0	70	0	70	2	70	5	70	5
Sault Ste. Marie P.H.L.	14	3	0	1	4	0	11	0	11	0	0	0	0	0	11	0	11	0	0	0	0	0
Timmins P.H.L.	17	4	0	0	4	0	12	1	12	0	0	0	0	0	12	0	12	0	0	0	0	0
St. Joseph's - London	216	0	0	51	51	0	216	31	51	0	0	0	0	0	51	0	51	0	24	1	24	2
London P.H.L.	164	16	1	11	28	1	161	24	105	0	0	0	0	0	105	0	103	0	2	0	0	0
Orillia P.H.L.	57	8	3	2	13	0	57	13	18	0	0	0	0	0	18	0	18	1	0	0	0	0
Thunder Bay P.H.L.	18	5	1	0	6	0	11	1	11	0	0	0	0	0	11	0	8	0	3	0	0	0
Sudbury P.H.L.	30	8	0	0	8	0	21	1	20	0	0	0	0	0	20	0	20	0	0	0	0	0
Hamilton P.H.L.	140	15	5	7	27	1	130	15	84	0	1	0	0	0	84	1	82	0	2	0	0	0
Peterborough P.H.L.	22	4	0	2	6	0	22	3	9	0	0	0	0	0	9	0	8	0	1	0	0	0
Province of Ontario	2097	126	62	169	357	7	2036	242	810	0	1	0	0	0	788	6	797	12	186	22	168	11
Manitoba	249	4	1	21	26	1	238	30	63	0	0	1	0	0	63	1	45	0	63	6	45	2
Regina	194	9	1	2	12	1	194	42	194	0	4	9	0	0	194	1	194	6	194	18	194	11
Saskatoon	168	0	0	5	5	0	168	24	168	0	0	1	0	0	168	0	168	5	168	7	168	2
Province of Saskatchewan	362	9	1	7	17	1	362	66	362	0	4	10	0	0	362	1	362	11	362	25	362	13
Province of Alberta	836	17	17	17	51	8	707	0	707	1	11	9	8	0	707	12	707	18	707	86	707	77
Prairies	1447	30	19	45	94	10	1307	96	1132	1	15	20	8	0	1132	14	1114	29	1132	117	1114	92
British Columbia	822	85	23	59	167	2	822	90	296	0	1	7	0	0	296	7	296	1	197	34	197	27
Yukon	15	4	0	2	6	0	15	3	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	6	2	0	0	2	0	6	0	6	0	0	0	0	0	6	0	6	0	6	1	6	1
Nunavut	4	2	0	0	2	0	4	0	4	0	0	0	0	0	4	0	4	0	4	0	4	1
Territories	25	8	0	2	10	0	25	3	10	0	0	0	0	0	10	0	10	0	10	1	10	2
CANADA	9287	290	106	1234	1630	40	8795	1078	3090	3	18	36	10	0	3066	43	3027	66	1705	183	2299	191

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 - February 9, 2019 (Reporting Weeks 201835-201906)

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	1988	1	0	250	251	1	1988	169	1988	0	26	48	0	0	1988	20	1988	17	1988	236	N.A.	N.A.
Prince Edward Island	675	172	0	0	172	0	673	35	60	1	0	1	3	0	55	5	55	0	55	21	55	0
Nova Scotia	1594	0	0	202	202	3	1607	137	376	0	3	10	2	0	376	0	376	4	376	58	376	3
New Brunswick	7643	160	13	1548	1721	2	7646	511	1969	0	16	9	38	0	1969	104	1969	28	1969	248	1969	65
Atlantic	11900	333	13	2000	2346	6	11914	852	4393	1	45	68	43	0	4388	129	4388	49	4388	563	2400	68
Région Nord-Est	5339	0	0	1075	1075	5	4054	211	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	8779	0	0	1978	1978	13	9031	974	1813	4	29	11	8	0	1867	67	1525	8	N.A.	N.A.	1377	10
Centre-du-Québec	10471	0	0	2418	2418	120	8435	908	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	25103	0	0	2927	2927	48	24236	2178	13833	47	145	58	35	0	13833	399	13555	129	N.A.	N.A.	13504	535
Ouest du Québec	8382	0	0	1888	1888	21	7553	1039	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	5378	0	0	928	928	8	5365	427	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	63452	0	0	11214	11215	215	58674	5737	15646	51	174	69	43	0	15736	466	15080	137	N.A.	N.A.	14881	545
Ottawa P.H.L.	603	74	21	15	110	0	598	53	342	0	2	3	0	0	342	0	326	1	18	0	0	0
CHEO - Ottawa	4784	0	0	437	437	10	4784	619	566	0	7	5	5	0	567	17	566	9	559	150	554	23
Kingston P.H.L.	590	46	17	5	68	0	590	40	440	0	3	3	0	0	440	0	424	2	56	0	0	0
UHN / Mount Sinai Hospital	7273	5	8	483	496	16	7273	361	381	0	9	0	2	0	0	0	357	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	9125	708	288	61	1057	30	8845	374	7220	12	56	27	0	0	7221	30	7034	45	322	0	0	0
Sick Kids Hospital - Toronto	1646	98	9	71	178	3	1458	194	1458	9	34	20	21	0	1458	54	1458	40	1458	371	1458	94
Sunnybrook & Women's College HSC	1574	64	28	8	100	2	1574	44	1574	4	5	5	1	0	1574	1	1574	22	1574	143	1574	57
Sault Ste. Marie P.H.L.	207	17	1	1	19	0	193	5	186	0	1	0	0	0	186	0	182	2	5	0	0	0
Timmins P.H.L.	214	34	0	0	34	0	179	1	179	0	7	3	0	0	179	0	173	1	14	0	0	0
St. Joseph's - London	2496	3	0	236	239	0	2489	263	925	2	5	6	11	0	925	23	925	29	657	134	527	10
London P.H.L.	2570	254	32	47	333	5	2535	223	1800	2	18	8	0	0	1800	12	1746	10	91	0	0	0
Orillia P.H.L.	686	43	12	8	63	1	686	91	488	1	2	4	0	0	488	1	476	4	19	0	0	0
Thunder Bay P.H.L.	225	26	3	5	34	0	194	4	187	1	1	8	0	0	186	0	176	5	18	0	0	0
Sudbury P.H.L.	504	25	2	0	27	0	476	22	466	1	4	0	0	0	466	2	442	8	42	0	0	0
Hamilton P.H.L.	2347	180	54	27	261	4	2306	112	1825	2	14	13	0	0	1825	10	1793	7	65	0	0	0
Peterborough P.H.L.	730	40	12	15	67	2	727	37	590	2	3	0	0	0	590	0	584	4	8	0	0	0
Province of Ontario	35574	1617	487	1419	3523	73	34907	2443	18627	36	171	105	40	0	18247	150	18236	191	4981	801	4195	189
Manitoba	6583	254	6	711	971	6	6466	266	2602	0	10	15	11	0	2602	29	1492	35	2602	328	1526	32
Regina	6360	1387	64	146	1597	4	6360	226	8293	3	58	92	35	0	6360	89	6360	67	6360	1226	6360	89
Saskatoon	4062	0	0	676	676	8	4062	223	4062	1	5	8	10	0	4062	26	4062	24	4062	245	4062	21
Province of Saskatchewan	10422	1387	64	822	2273	12	10422	449	12355	4	63	100	45	0	10422	115	10422	91	10422	1471	10422	110
Province of Alberta	24159	3431	131	1680	5242	54	19351	0	19351	23	181	225	201	0	19351	247	19351	326	19351	3157	19351	749
Prairies	41164	5072	201	3213	8486	72	36239	715	34308	27	254	340	257	0	32375	391	31265	452	32375	4956	31299	891
British Columbia	14091	2334	199	789	3322	23	14091	668	6034	10	54	136	84	0	6034	81	6034	19	4696	1165	4696	176
Yukon	229	45	1	12	58	0	229	9	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	525	149	2	0	151	0	521	0	521	0	0	19	3	0	521	17	521	3	521	99	521	12
Nunavut	55	14	0	0	14	0	55	0	55	0	0	0	0	0	55	6	54	0	55	17	54	2
Territories	809	208	3	12	223	0	805	9	576	0	0	19	3	0	576	23	575	3	576	116	575	14
CANADA	166990	9564	903	18647	29115	389	156630	10424	79584	125	698	737	470	0	77356	1240	75578	851	47016	7601	58046	1883

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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

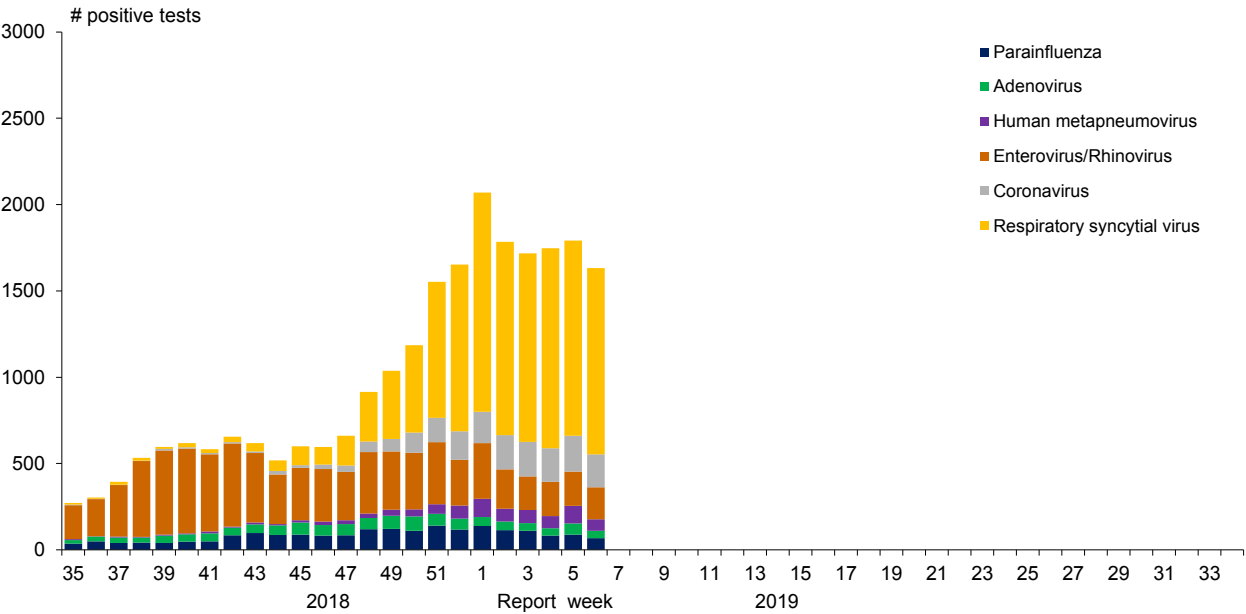


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

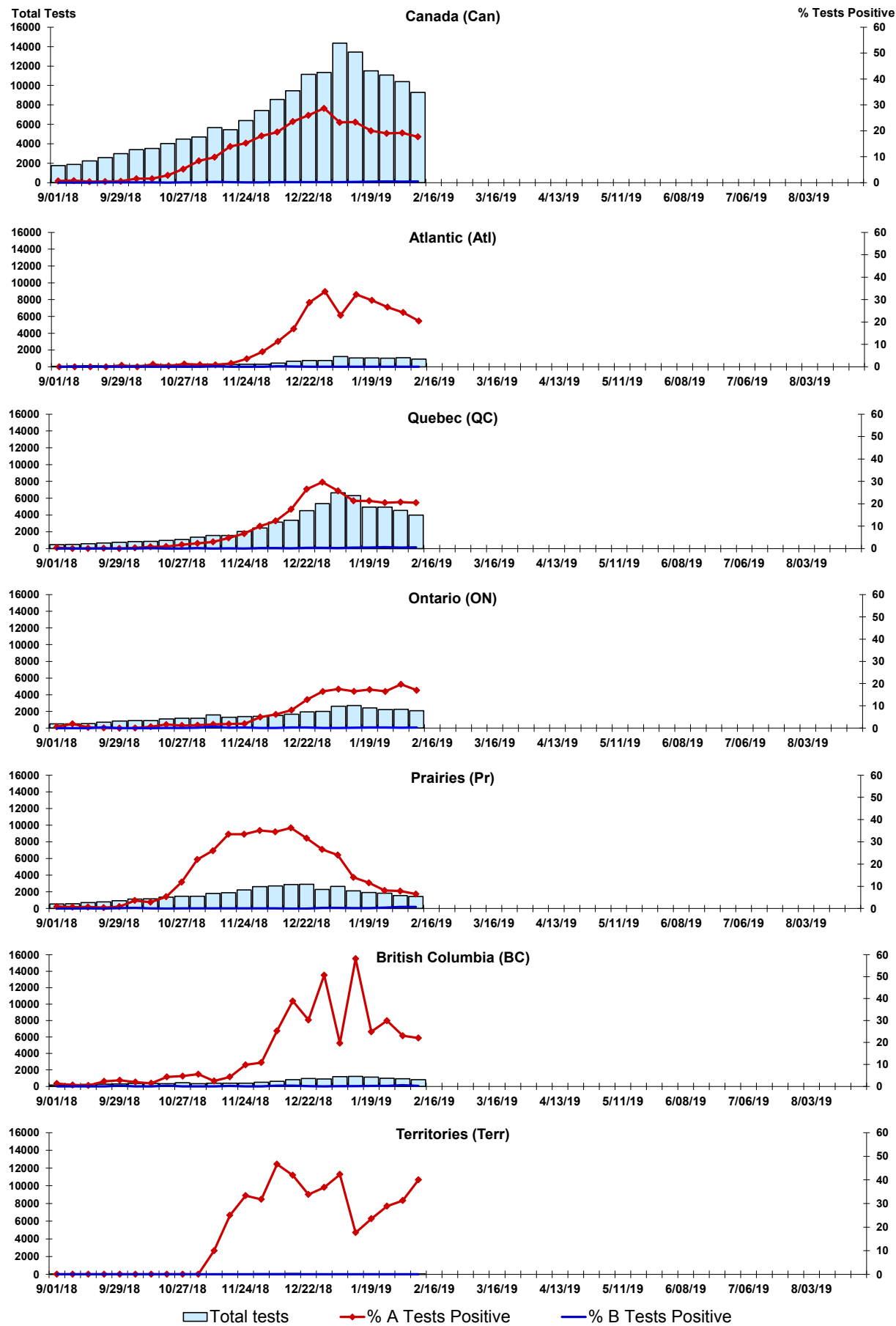


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

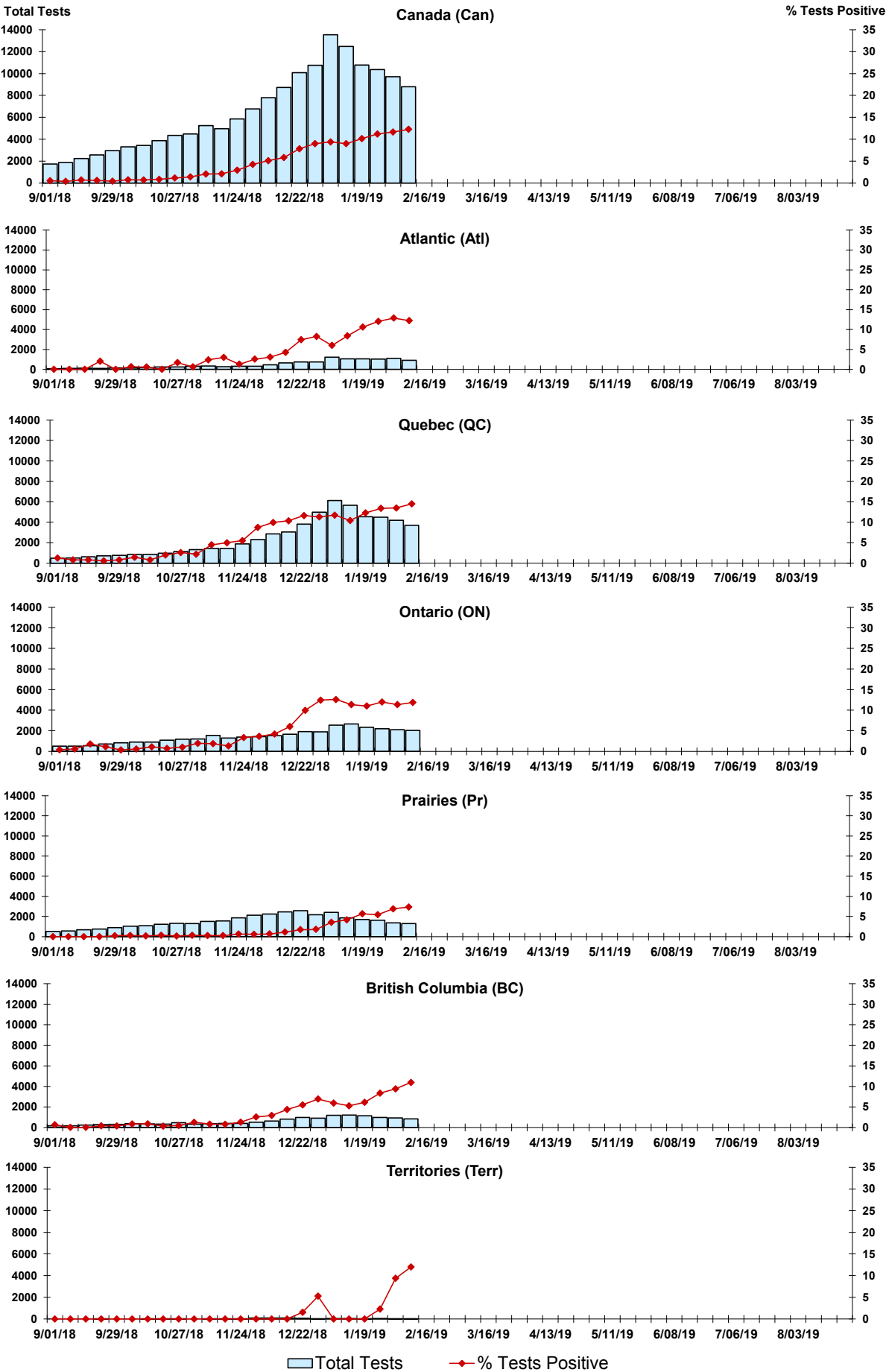


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

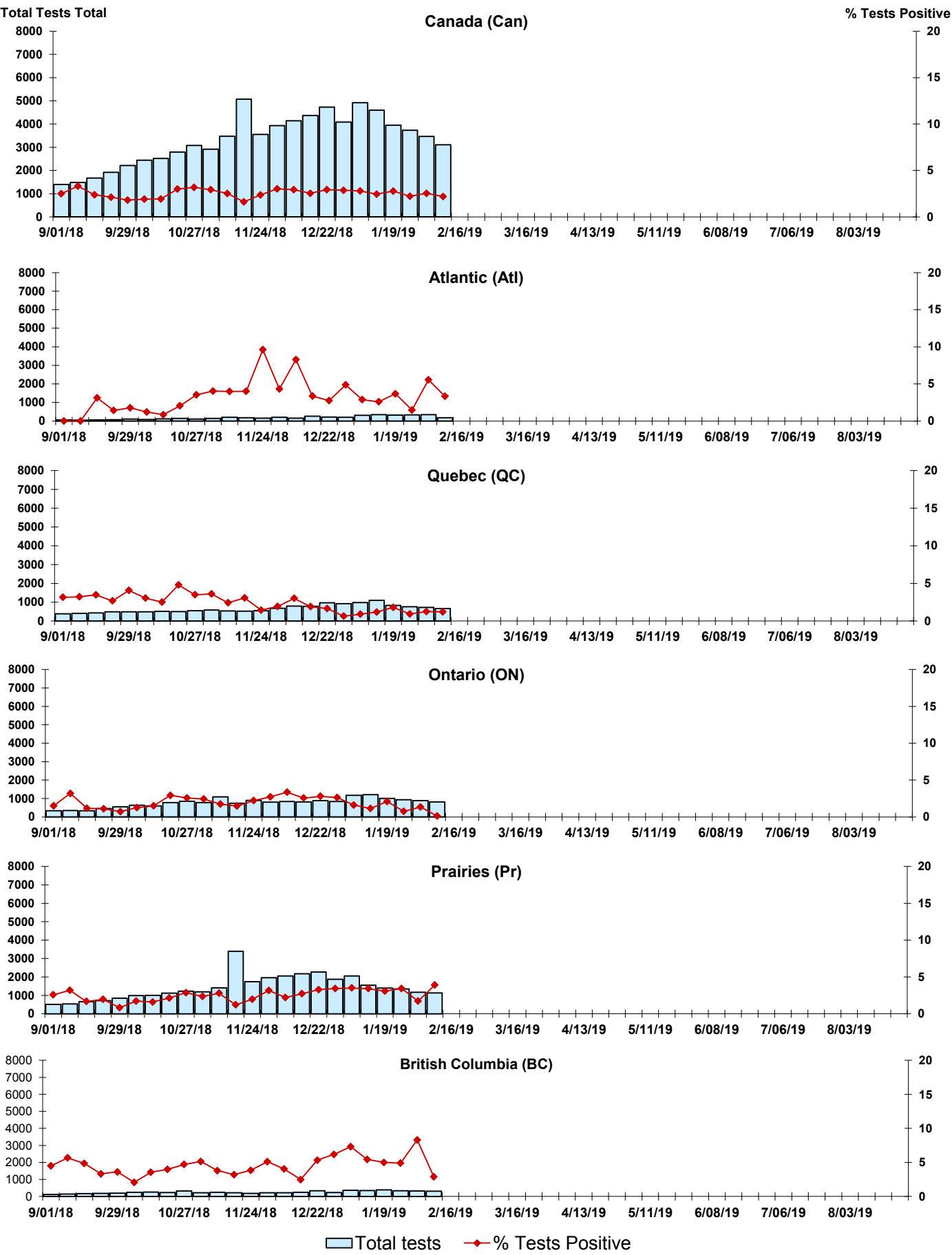


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

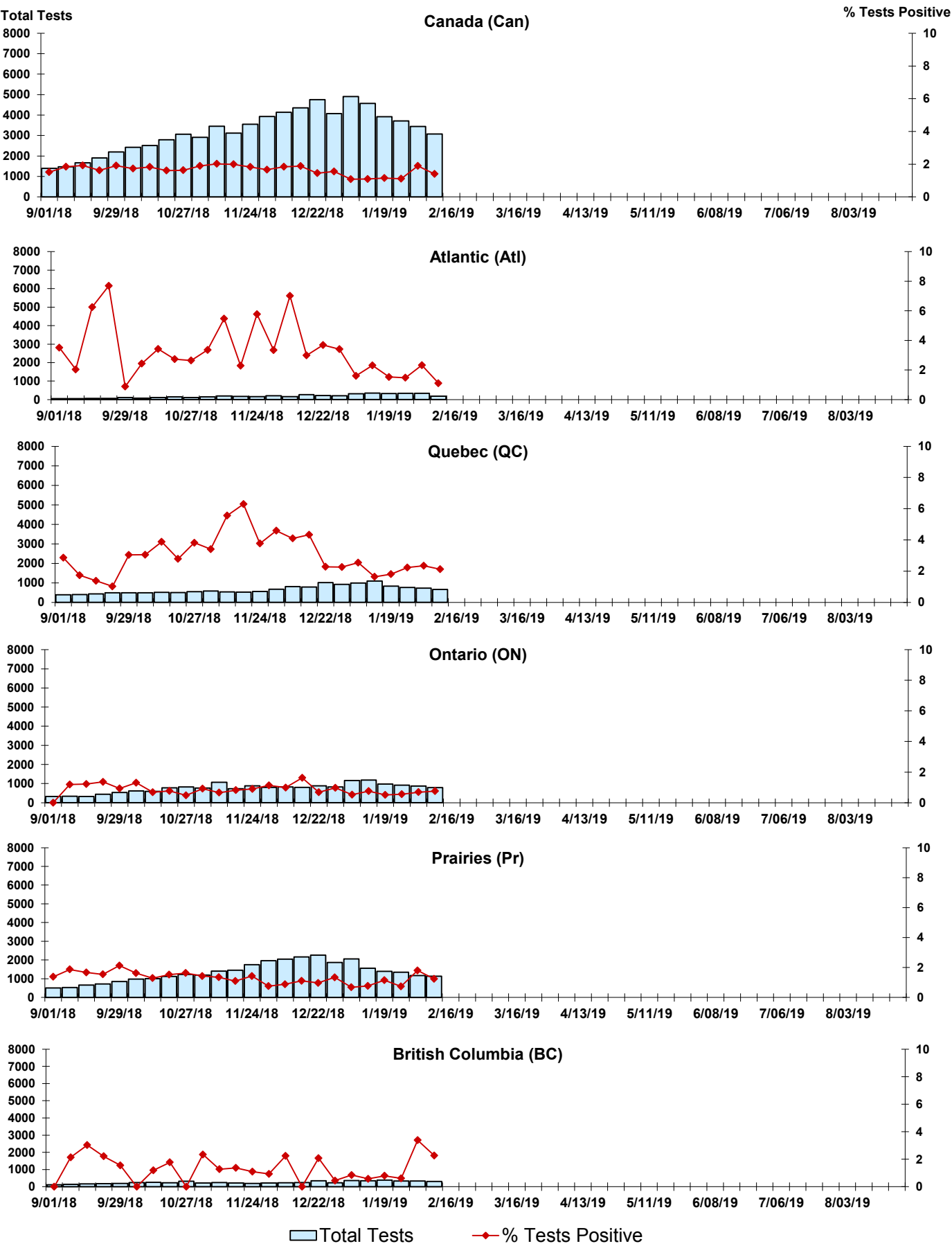


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

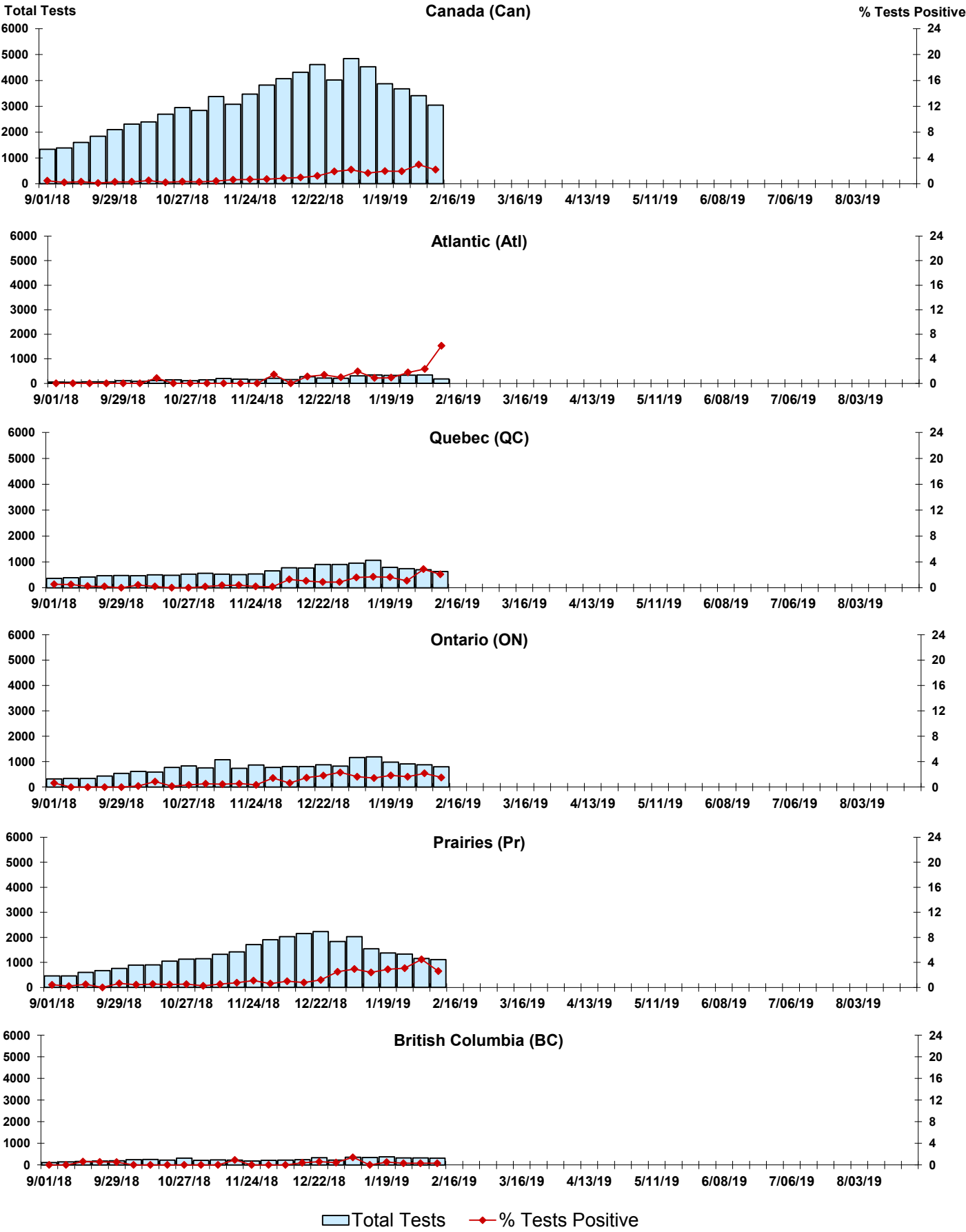


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

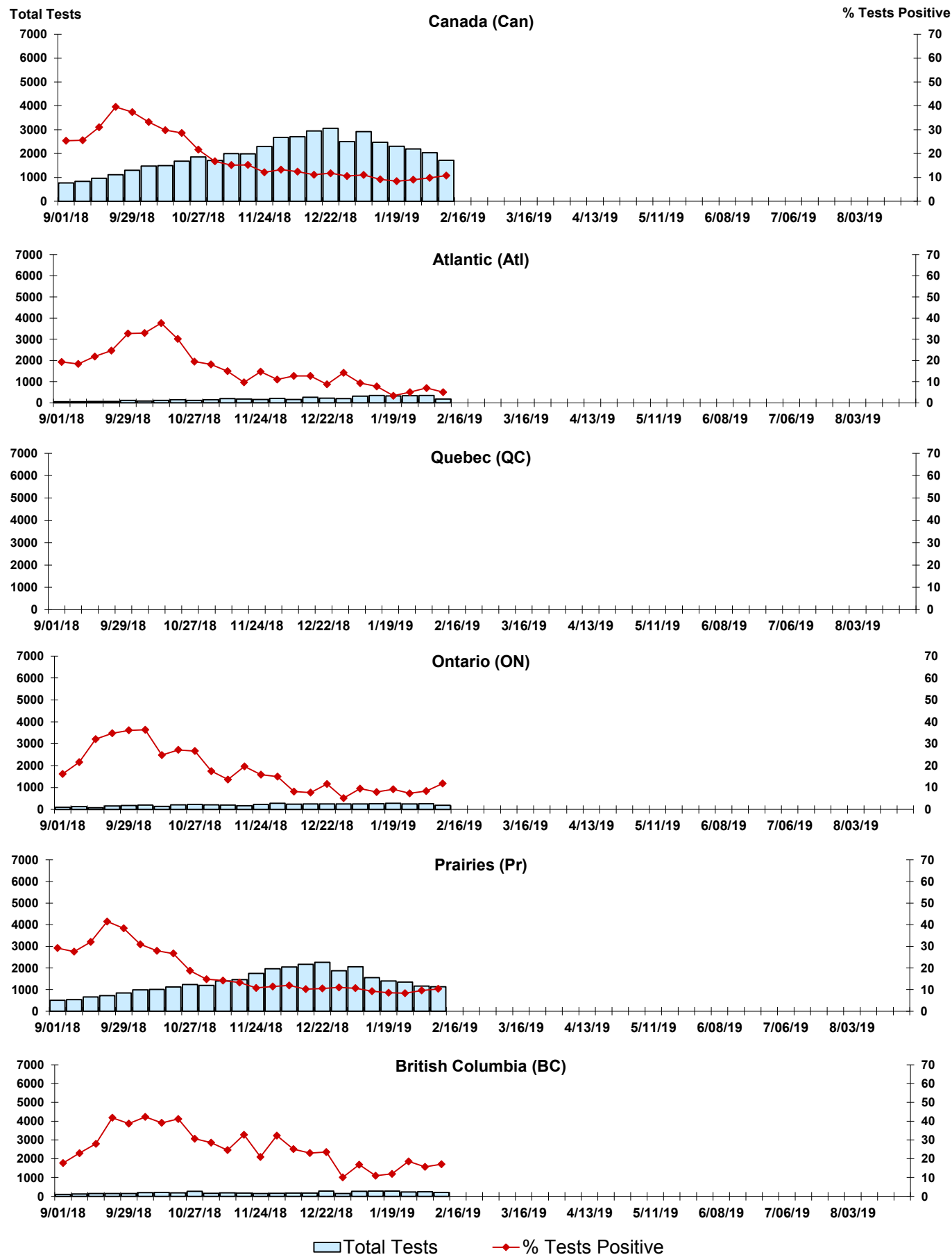
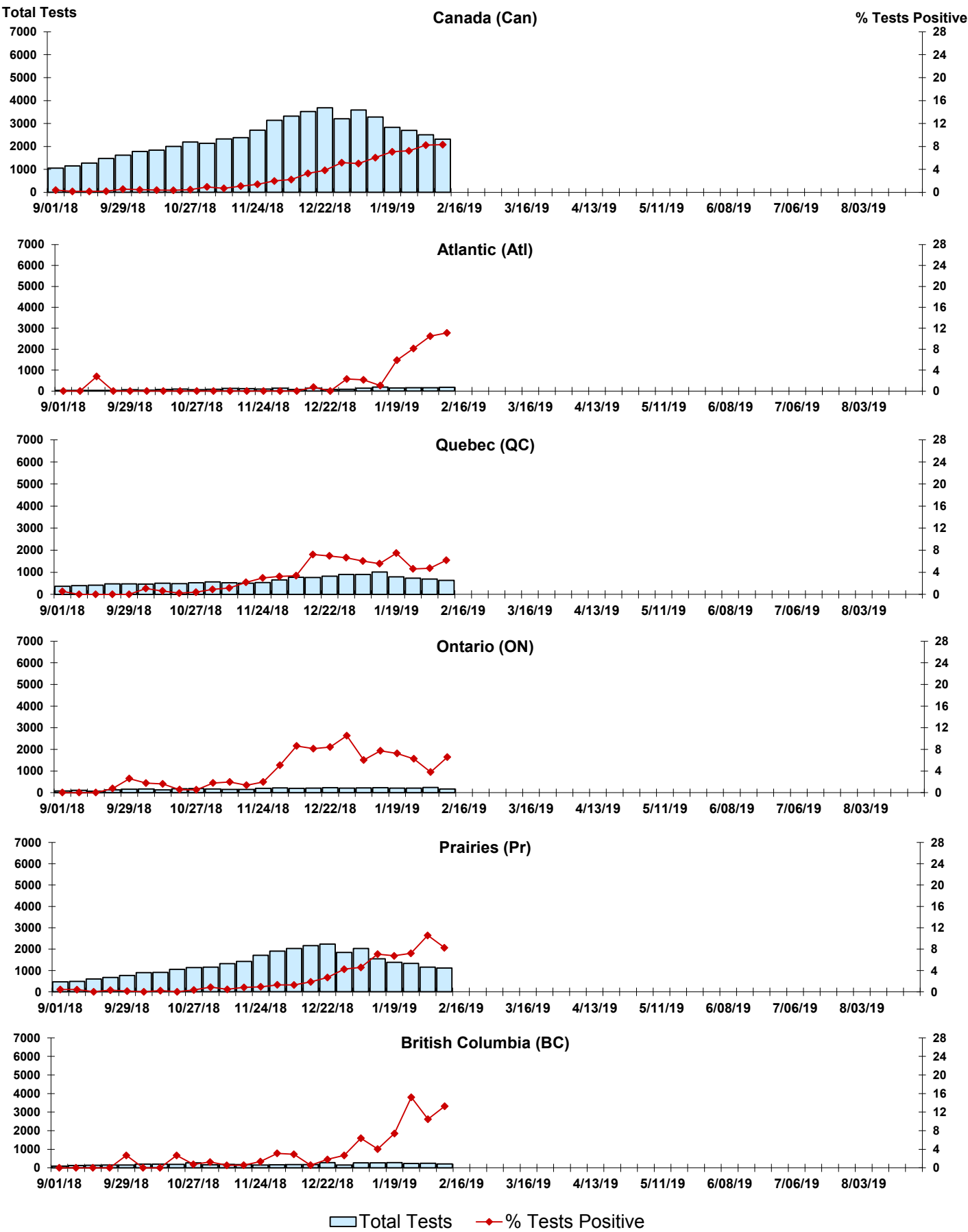


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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