

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 11 - ending March 16, 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 16, 2019 (Reporting Week 201911)

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	182	0	0	46	46	0	182	22	182	0	2	4	0	0	182	1	182	9	182	3	N.A.	N.A.
Prince Edward Island	54	6	11	0	17	0	54	8	1	0	0	0	0	0	1	0	1	1	1	0	1	0
Nova Scotia	222	0	0	57	57	0	222	27	21	0	0	0	0	0	21	0	21	1	21	0	21	3
New Brunswick	459	7	7	108	122	4	459	70	127	0	0	7	0	0	127	1	127	18	127	14	127	10
Atlantic	917	13	18	211	242	4	917	127	331	0	2	11	0	0	331	2	331	29	331	17	149	13
Région Nord-Est	321	0	0	42	42	1	276	54	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	608	0	0	104	104	2	357	24	88	0	2	3	0	0	93	3	70	1	N.A.	N.A.	70	1
Centre-du-Québec	672	0	0	91	91	1	532	64	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1203	0	0	157	157	6	1185	82	500	2	0	10	0	0	500	15	490	20	N.A.	N.A.	490	15
Ouest du Québec	346	0	0	65	65	2	323	26	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	259	0	0	40	40	5	208	20	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	3409	0	0	499	499	17	2881	270	588	2	2	13	0	0	593	18	560	21	N.A.	N.A.	560	16
Ottawa P.H.L.	22	3	1	0	4	1	22	3	7	0	0	0	0	0	7	0	6	0	1	0	0	0
CHEO - Ottawa	254	0	0	40	40	2	254	25	16	0	0	1	0	0	16	0	16	0	16	2	14	1
Kingston P.H.L.	21	2	1	1	4	0	21	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
UHN / Mount Sinai Hospital	295	0	1	14	15	4	295	11	21	0	0	0	0	0	0	0	21	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	336	20	34	4	58	1	311	16	244	0	0	2	0	0	244	3	236	7	8	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	72	3	4	0	7	1	72	2	72	0	0	1	0	0	72	0	72	5	72	4	72	5
Sault Ste. Marie P.H.L.	26	3	6	0	9	0	18	1	13	0	0	0	0	0	13	0	12	0	1	0	0	0
Timmins P.H.L.	7	0	1	0	1	0	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
St. Joseph's - London	165	0	0	23	23	0	165	5	46	0	0	2	0	0	46	0	46	0	24	1	21	0
London P.H.L.	123	5	17	6	28	2	120	5	74	2	0	0	0	0	74	0	71	0	3	0	0	0
Orillia P.H.L.	30	2	2	1	5	0	30	2	18	0	0	0	0	0	18	0	18	0	0	0	0	0
Thunder Bay P.H.L.	14	0	1	0	1	0	12	1	12	0	0	0	0	0	12	2	12	0	0	0	0	0
Sudbury P.H.L.	23	4	0	0	4	0	19	0	18	0	0	0	0	0	18	0	18	0	0	0	0	0
Hamilton P.H.L.	103	9	12	3	24	0	98	0	74	0	0	2	0	0	74	1	73	3	1	0	0	0
Peterborough P.H.L.	29	1	4	0	5	0	29	1	14	0	0	0	0	0	14	0	13	0	1	0	0	0
Province of Ontario	1520	52	84	92	228	11	1472	72	641	2	0	8	0	0	620	6	626	15	148	10	128	7
Manitoba	266	3	8	1	12	0	221	38	122	0	0	4	0	0	122	0	100	4	122	7	100	7
Regina	143	5	5	1	11	9	143	26	143	0	0	13	0	0	143	3	143	5	143	9	143	22
Saskatoon	187	0	0	19	19	0	187	26	187	0	0	1	0	0	187	2	187	7	187	5	187	3
Province of Saskatchewan	330	5	5	20	30	9	330	52	330	0	0	14	0	0	330	5	330	12	330	14	330	25
Province of Alberta	650	9	58	52	119	20	502	0	502	0	4	17	3	0	502	10	502	21	502	56	502	36
Prairies	1246	17	71	73	161	29	1053	90	954	0	4	35	3	0	954	15	932	37	954	77	932	68
British Columbia	1169	106	168	248	522	27	1169	109	406	0	0	13	1	0	406	11	406	1	246	28	246	27
Yukon	5	0	0	0	0	0	5	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	24	3	0	0	3	0	24	0	24	1	0	0	0	0	24	0	24	1	24	4	24	4
Nunavut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Territories	29	3	0	0	3	0	29	0	24	1	0	0	0	0	24	0	24	1	24	4	24	4
CANADA	8290	191	341	1123	1655	88	7521	668	2944	5	8	80	4	0	2928	52	2879	104	1703	136	2039	135

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 16, 2019 (Reporting Weeks 201835-201911)

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	3143	1	0	497	498	2	3143	344	3143	0	49	88	0	0	3143	29	3143	56	3143	271	N.A.	N.A.	
Prince Edward Island	938	211	18	0	229	0	936	94	67	1	0	1	3	0	62	5	62	2	62	21	62	2	
Nova Scotia	2746	0	0	551	551	8	2746	270	440	0	3	11	2	0	440	0	440	5	440	58	440	9	
New Brunswick	10240	217	28	2074	2319	9	10243	932	2606	0	16	23	38	0	2606	111	2606	82	2606	286	2606	113	
Atlantic	17067	429	46	3122	3597	19	17068	1640	6256	1	68	123	43	0	6251	145	6251	145	6251	636	3108	124	
Région Nord-Est	6835	0	0	1319	1319	10	5344	454	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	12005	0	0	2655	2655	15	12134	1353	2291	4	31	21	9	0	2369	80	1925	17	N.A.	N.A.	1763	21	
Centre-du-Québec	14152	0	0	3002	3002	135	11255	1370	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0	
Montréal-Laval	31308	0	0	3844	3844	87	30264	2671	16427	58	147	97	35	0	16427	470	16104	233	N.A.	N.A.	16053	646	
Ouest du Québec	10474	0	0	2324	2324	37	9511	1314	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0	
Montérégie	6831	0	0	1168	1169	20	6458	589	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0	
Province of Québec	81605	0	0	14312	14313	304	74966	7751	18718	62	178	118	44	0	18832	550	18029	250	N.A.	N.A.	17816	667	
Ottawa P.H.L.	799	91	46	19	156	1	794	82	431	0	3	4	0	0	431	0	412	5	23	0	0	0	
CHEO - Ottawa	6165	0	0	658	658	14	6165	833	664	2	8	7	5	0	665	20	664	12	657	171	647	29	
Kingston P.H.L.	740	61	37	11	109	5	740	57	519	0	3	5	0	0	519	0	499	3	65	0	0	0	
UHN / Mount Sinai Hospital	9034	5	10	612	627	25	9034	433	465	0	9	0	2	0	0	0	422	2	N.A.	N.A.	N.A.	N.A.	
P.H.O.L. - Toronto	10853	822	453	74	1349	41	10498	472	8466	12	57	36	0	0	8467	37	8231	81	393	0	0	0	
Sick Kids Hospital - Toronto	1994	109	27	95	231	9	1689	208	1689	12	35	26	21	0	1689	64	1689	54	1689	404	1689	113	
Sunnybrook & Women's College HSC	1958	71	52	10	133	5	1958	59	1958	4	5	9	1	0	1958	1	1958	42	1958	168	1958	78	
Sault Ste. Marie P.H.L.	328	43	14	1	58	0	280	10	263	0	3	0	0	0	263	0	257	3	8	0	0	0	
Timmins P.H.L.	302	55	2	1	58	0	244	4	244	0	7	3	0	0	244	0	237	1	15	0	0	0	
St. Joseph's - London	3358	3	0	399	402	1	3351	338	1143	3	5	9	14	0	1143	27	1143	32	835	144	641	14	
London P.H.L.	3204	306	108	56	470	8	3164	296	2175	4	19	10	0	0	2175	13	2104	16	117	0	0	0	
Orillia P.H.L.	879	62	30	16	108	1	879	116	610	1	2	5	0	0	610	1	598	5	26	0	0	0	
Thunder Bay P.H.L.	326	28	20	5	53	0	271	8	264	1	1	9	0	0	263	2	250	7	24	0	0	0	
Sudbury P.H.L.	676	44	5	0	49	0	632	28	615	1	4	1	0	0	615	2	583	9	56	0	0	0	
Hamilton P.H.L.	2887	223	99	30	352	4	2827	122	2227	5	14	22	0	0	2227	12	2190	18	77	0	0	0	
Peterborough P.H.L.	860	43	30	17	90	2	857	47	674	2	3	0	0	0	674	0	666	5	10	0	0	0	
Province of Ontario	44363	1966	933	2004	4903	116	43383	3113	22407	47	178	146	43	0	21943	179	21903	295	6062	895	5051	240	
Manitoba	7922	288	35	711	1034	8	7692	441	3159	1	11	28	12	0	3159	30	1948	52	3159	360	1982	78	
Regina	7160	1410	79	148	1637	27	7160	402	9093	4	60	141	35	0	7160	102	7160	100	7160	1302	7160	177	
Saskatoon	4803	0	0	709	709	9	4803	318	4803	2	7	17	13	0	4803	29	4803	44	4803	274	4803	53	
Province of Saskatchewan	11963	1410	79	857	2346	36	11963	720	13896	6	67	158	48	0	11963	131	11963	144	11963	1576	11963	230	
Province of Alberta	28235	3526	344	1847	5717	118	22706	0	22706	23	203	311	217	0	22706	302	22706	500	22706	3465	22706	1037	
Prairies	48120	5224	458	3415	9097	162	42361	1161	39761	30	281	497	277	0	37828	463	36617	696	37828	5401	36651	1345	
British Columbia	18923	2878	811	1190	4879	84	18923	1193	7807	11	61	189	90	0	7807	110	7807	27	5927	1285	5927	331	
Yukon	272	50	4	20	74	0	272	17	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	640	160	2	0	162	1	636	0	636	2	0	24	3	0	636	20	636	4	636	110	636	38	
Nunavut	68	20	0	0	20	0	68	0	68	0	0	0	0	0	68	11	67	0	68	20	67	7	
Territories	980	230	6	20	256	1	976	17	704	2	0	24	3	0	704	31	703	4	704	130	703	45	
CANADA	211058	10727	2254	24063	37045	686	197677	14875	95653	153	766	1097	500	0	93365	1478	91310	1417	56772	8347	69256	2752	

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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

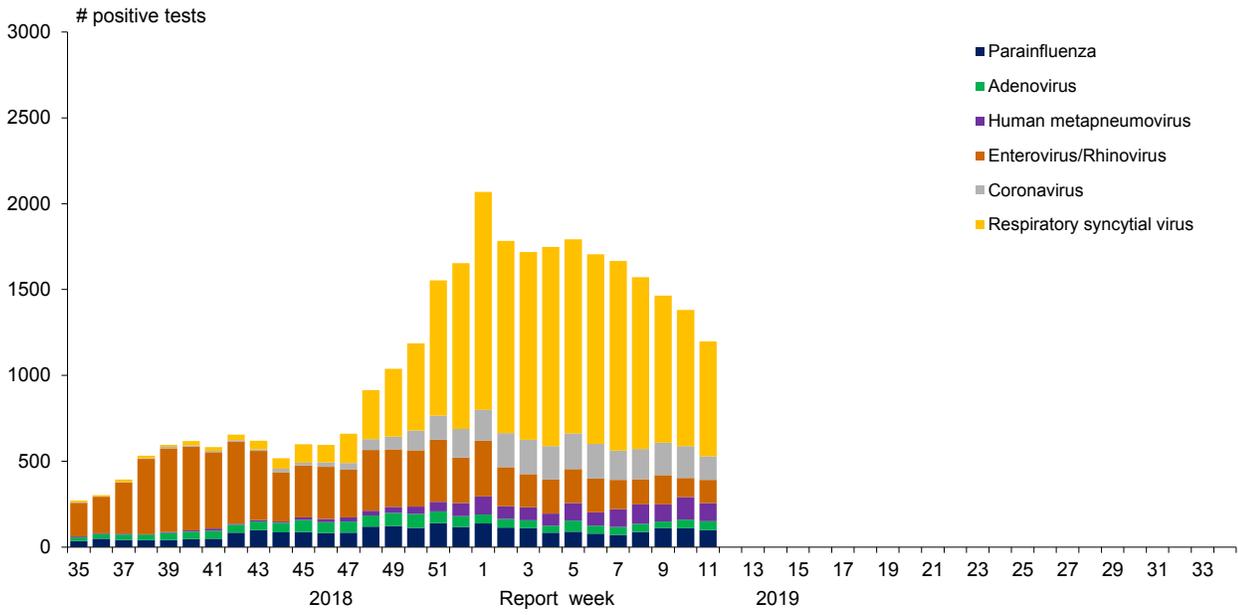


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

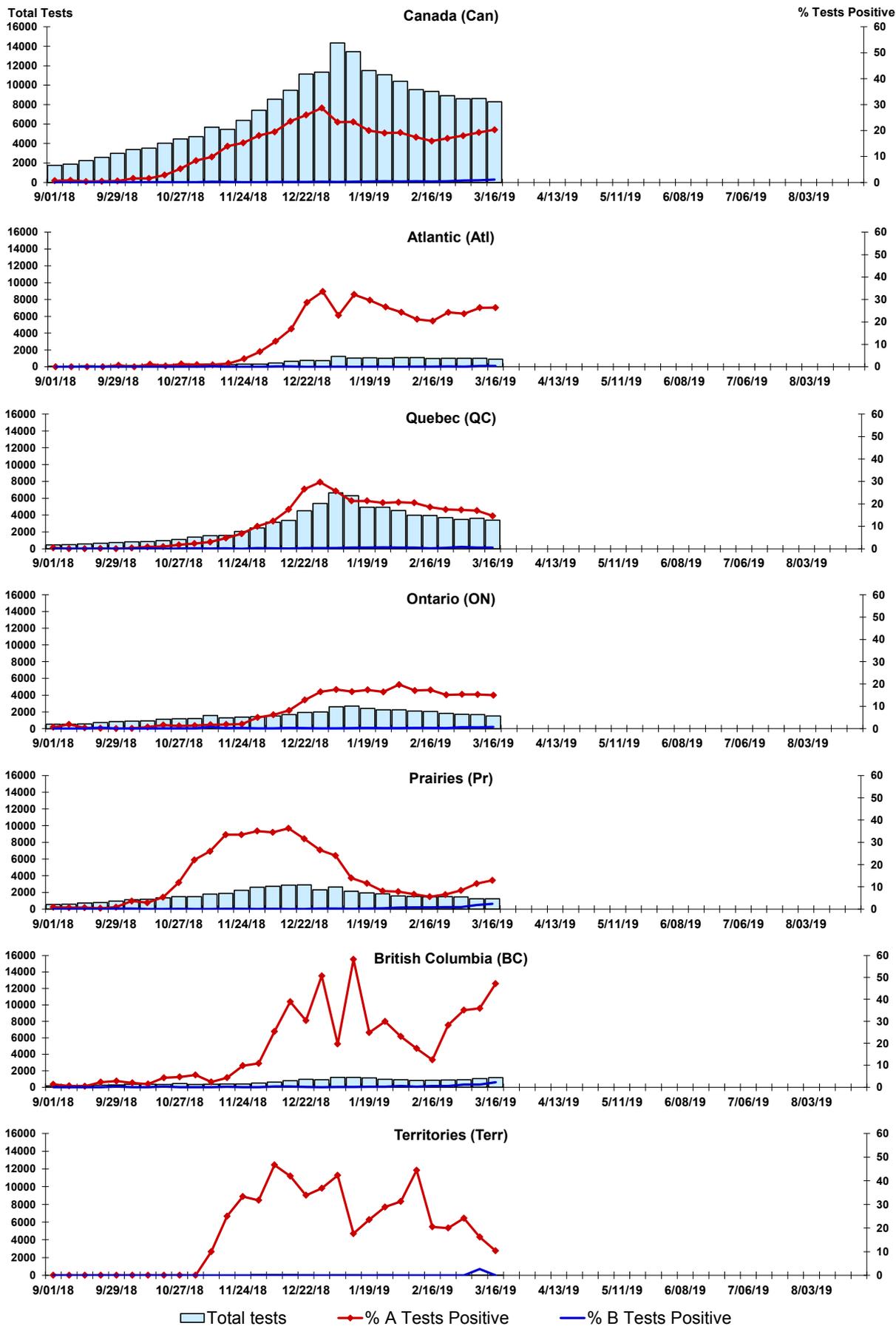


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

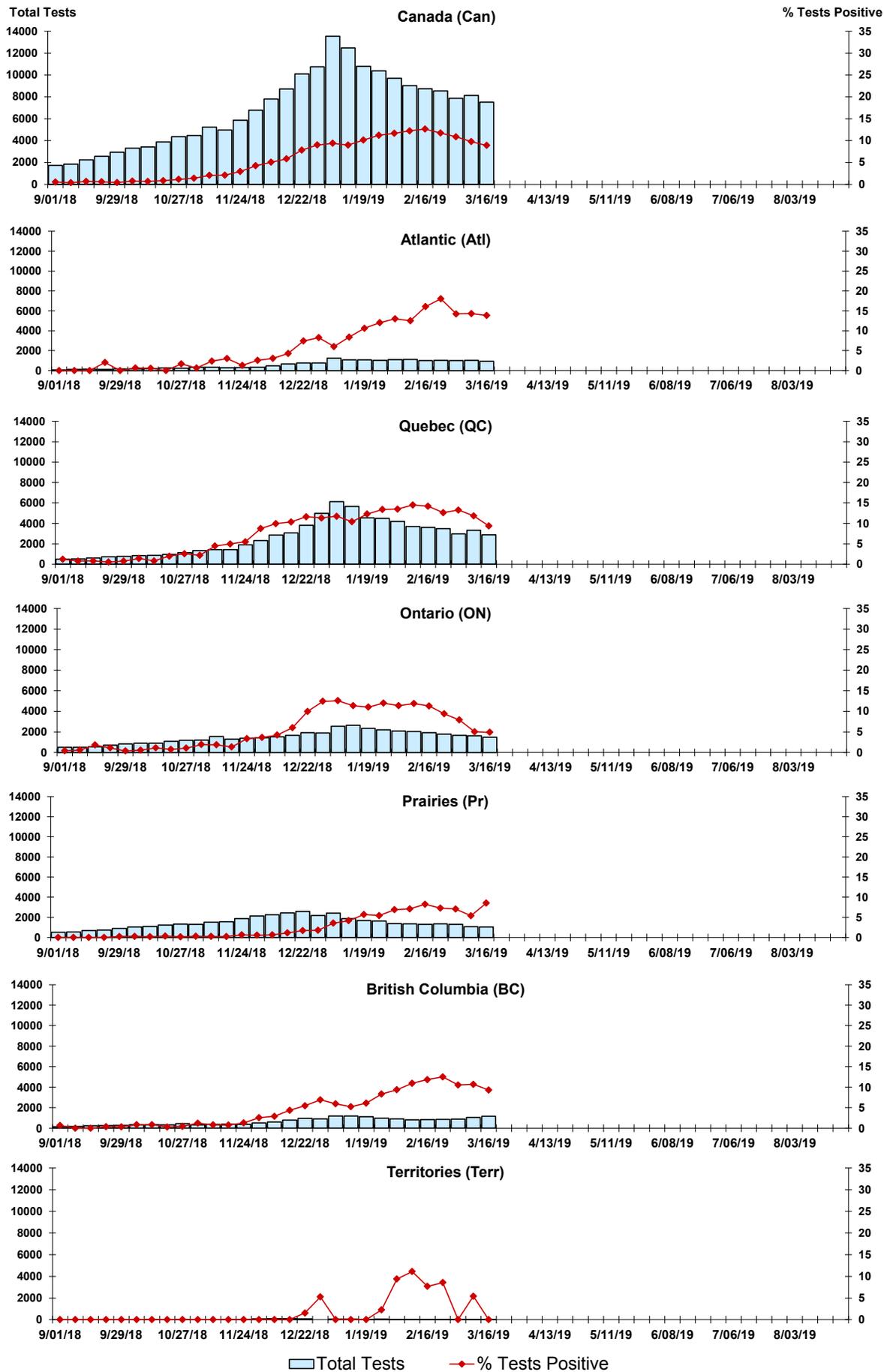


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

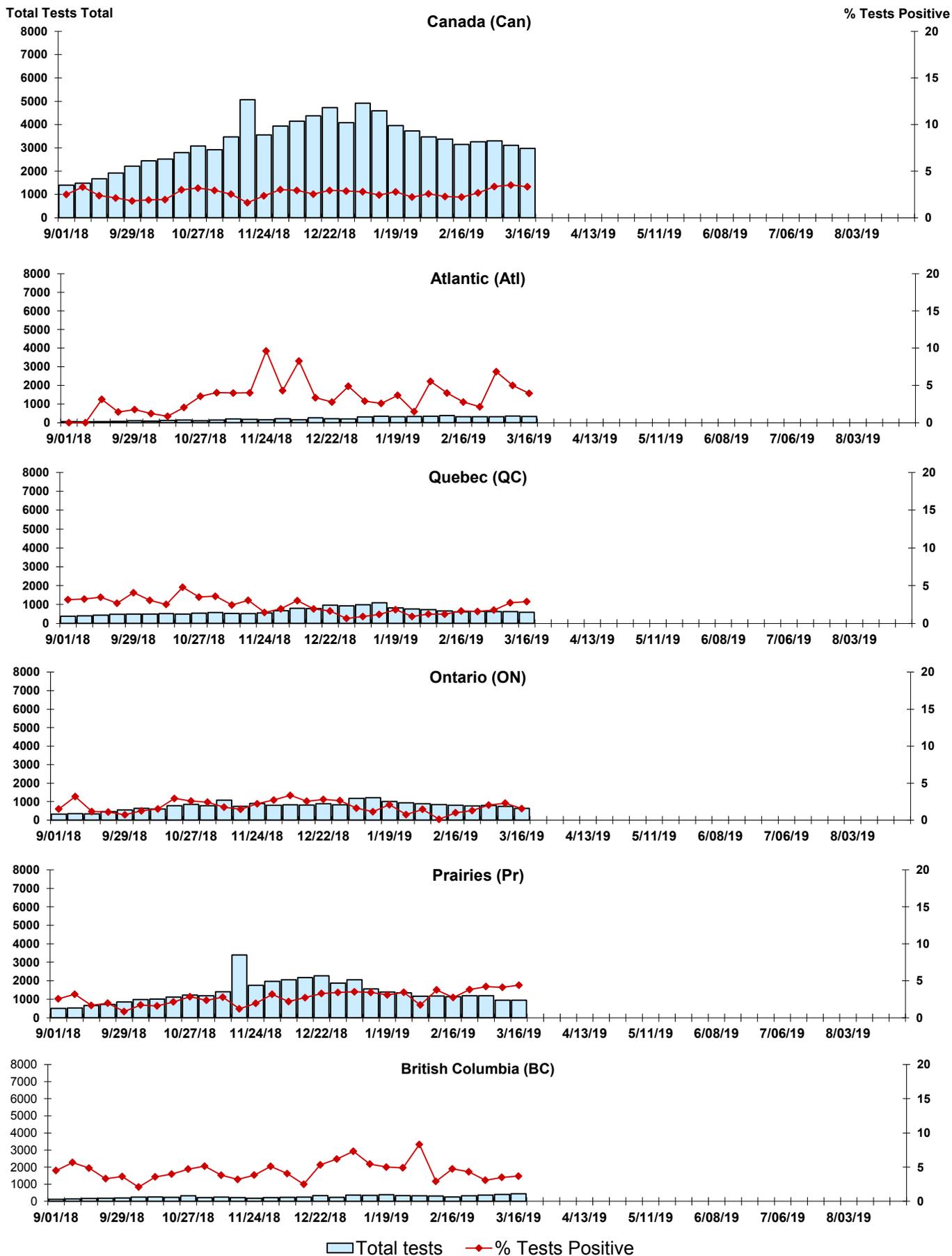


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

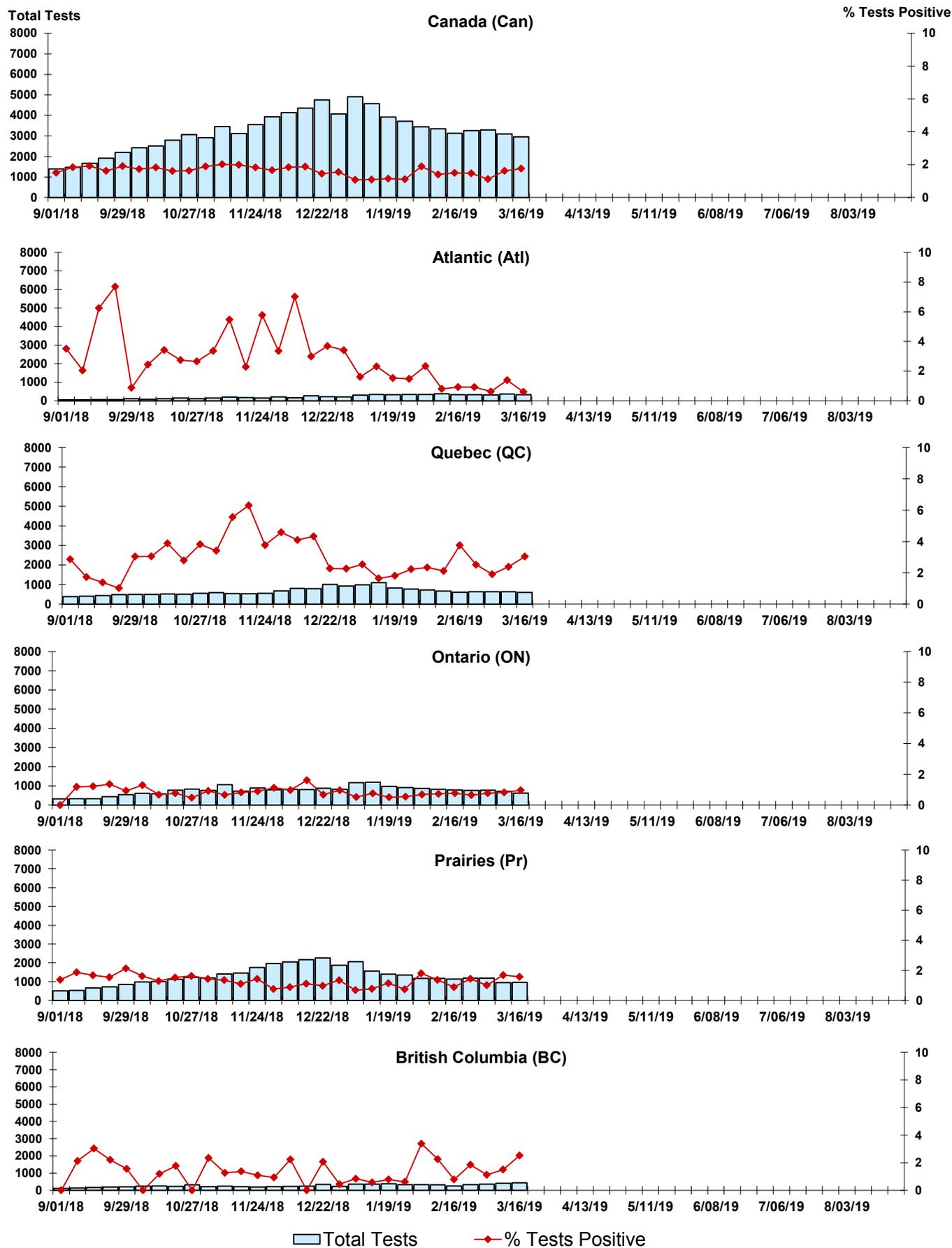
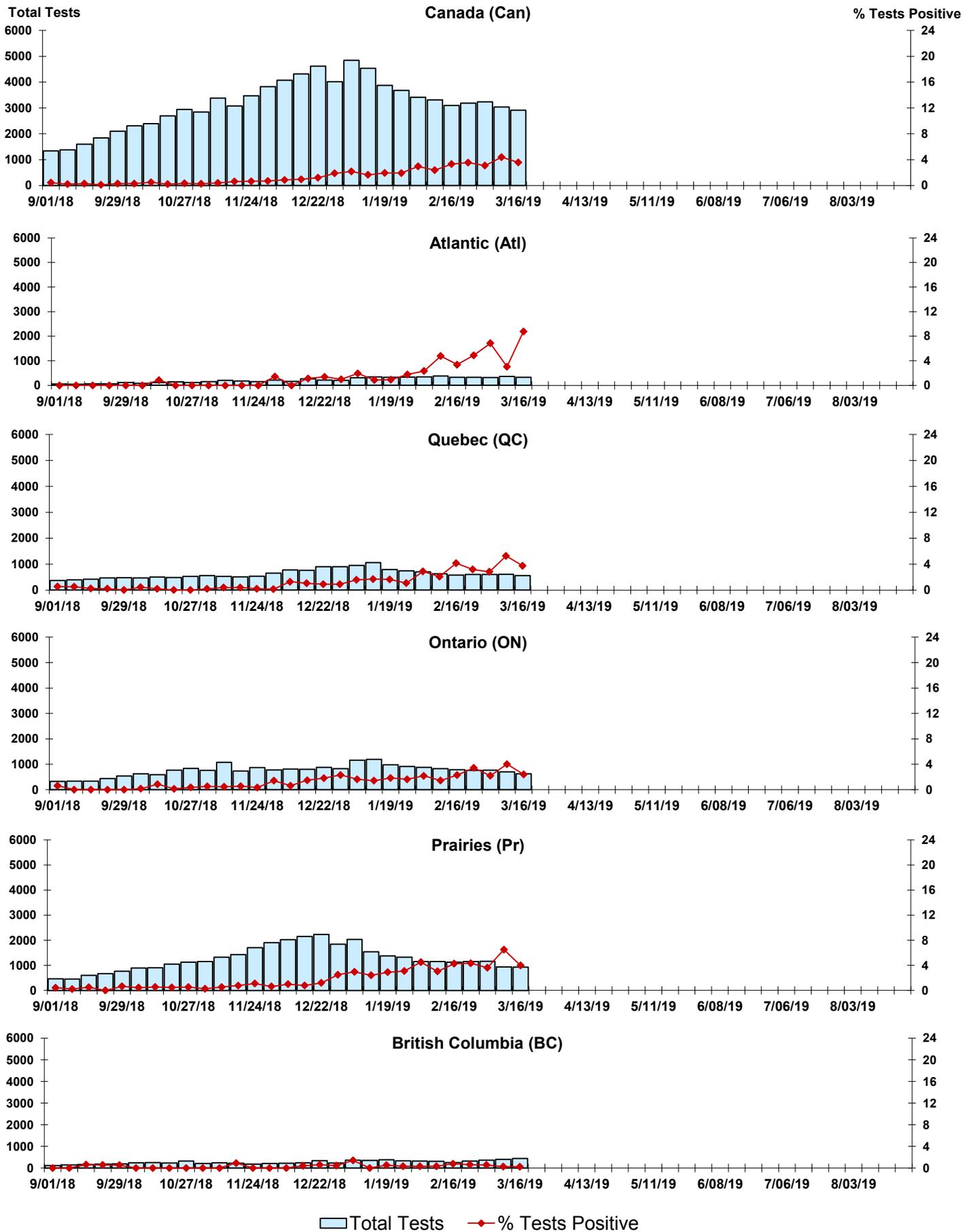


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



Legend: Total Tests (light blue bar), % Tests Positive (red line with diamond)

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

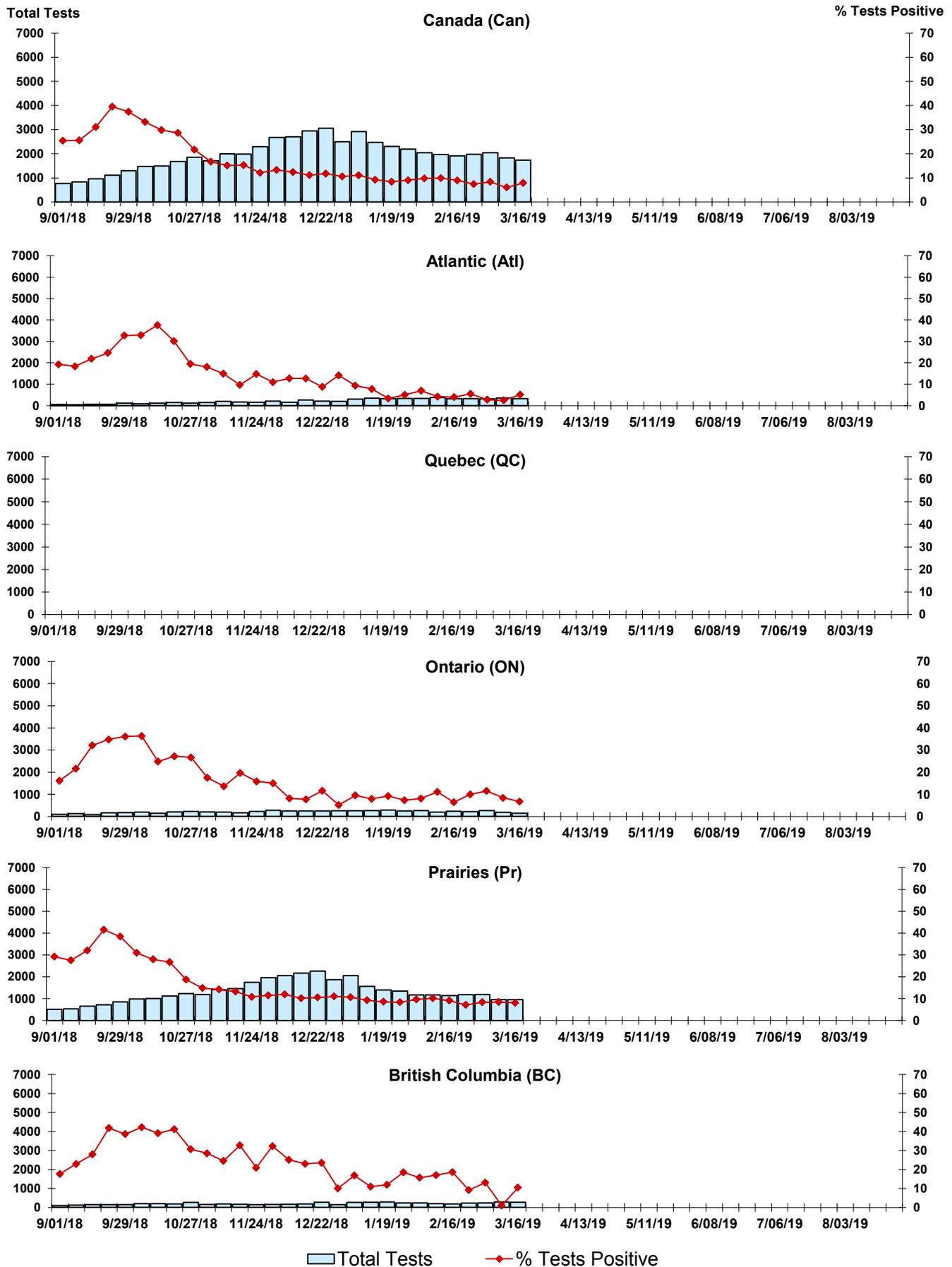
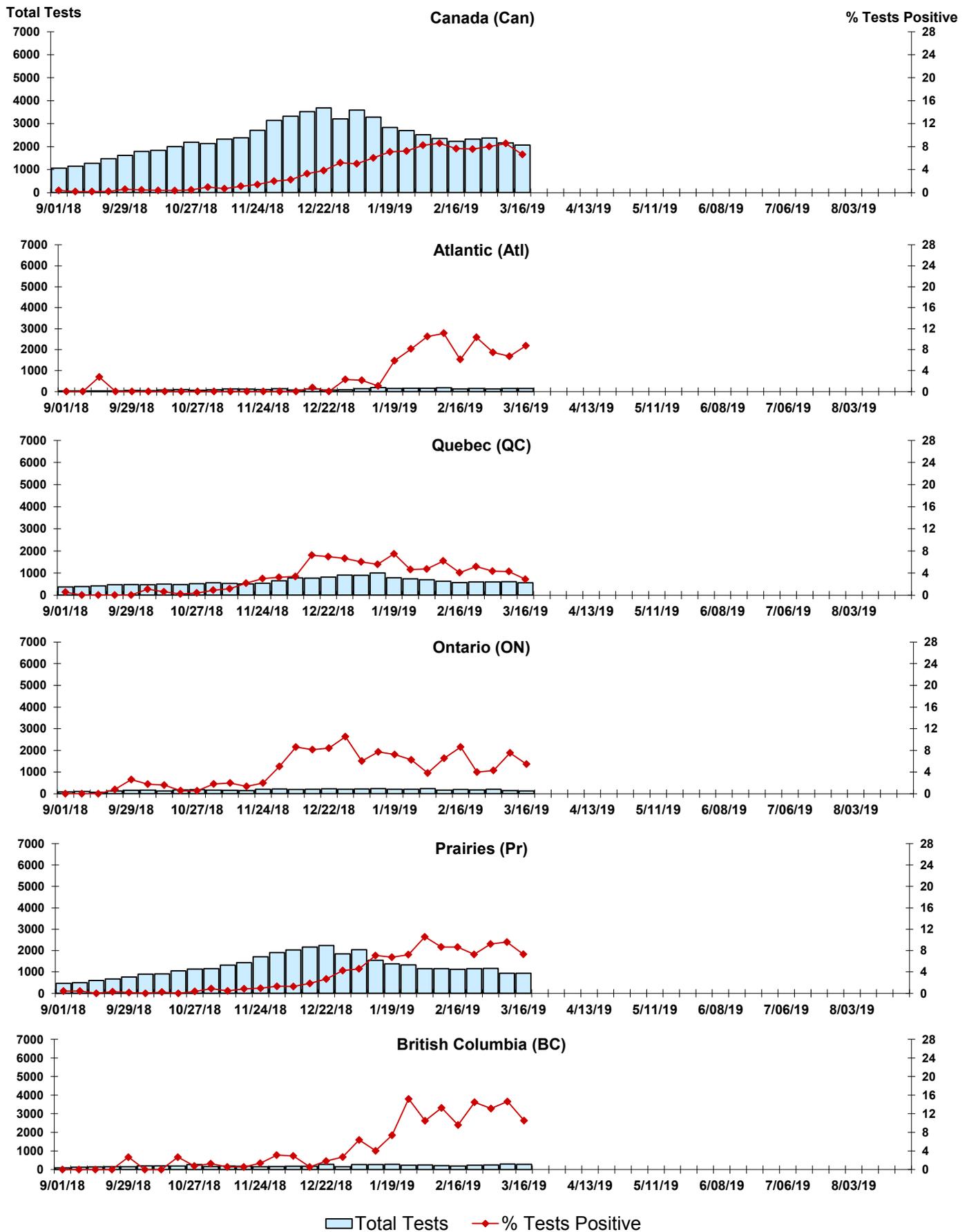


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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:

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