

British Columbia Influenza Surveillance Bulletin

Influenza Season 2017-18, Number 9, Week 2

January 7 to 13, 2018

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Influenza Activity Remains Elevated in BC

During week 2 (January 7 to 13, 2018), most influenza surveillance indicators remained stable at elevated levels in BC, and it is not yet possible to determine whether the epidemic has peaked.

Influenza positivity at the BCCDC Public Health Laboratory remained above 40% in week 2 but declined slightly from a peak of more than 50% in week 52. An equal mix of influenza types A and B continue to circulate with A(H3N2) remaining the dominant subtype among influenza A detections.

Since our last bulletin, 25 new lab-confirmed outbreaks were reported: 24 from long-term care facilities (LTCFs) and one from acute care. Of the 25 outbreaks, 18 had influenza B, 6 had influenza A, and 1 had influenza A and B detected. So far during this season of mixed A(H3N2) and influenza B co-circulation, the number of LTCF outbreaks reported since week 40 (n=78) is lower than for the same period during recent A(H3N2) dominant epidemics in 2014-15 (n=118) and 2016-17 (n=104) but higher than during recent A(H1N1)pdm09 dominant epidemics in 2013-14 (n=3) and 2015-16 (n=9), bearing in mind variation in the timing of seasonal epidemics.

Medical Services Plan (MSP) claims for influenza illness were elevated but stable for the province overall; however, variable trends were seen across the regions. Sentinel ILI rates were significantly above 10-year historical averages for the past 2 weeks.

Prepared by BCCDC Influenza & Emerging Respiratory Pathogens Team

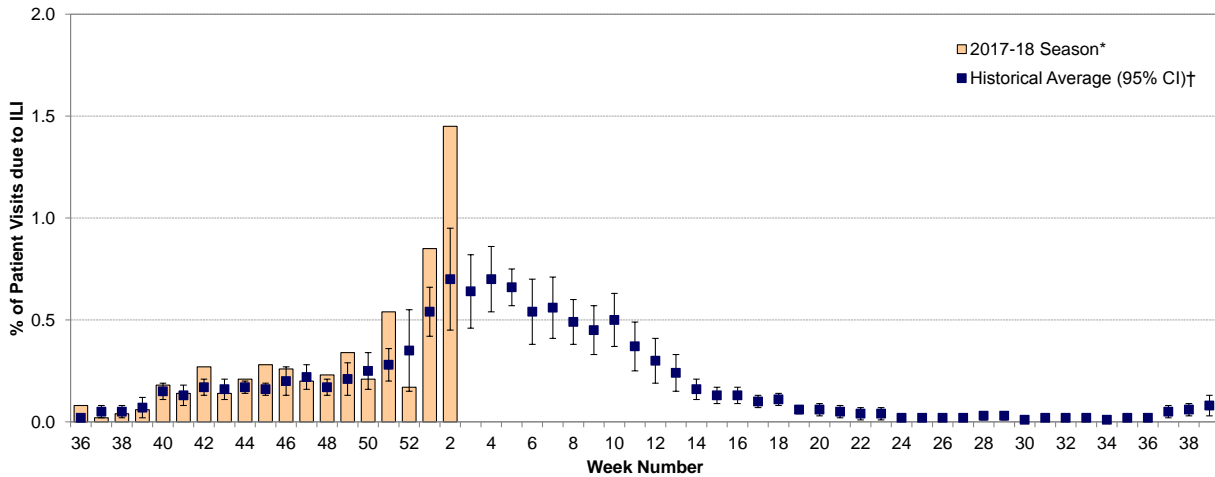
Report Disseminated: January 18, 2018

British Columbia

Sentinel Physicians

The proportion of patients with influenza-like illness (ILI), among those presenting to sentinel sites, was significantly above the 10-year historical average for the past two weeks. Rates are subject to change as reporting becomes more complete. To date, 62% of sentinel sites have reported data for week 2, whereas 72% have reported for week 1.

Percent of patient visits to sentinel physicians due to influenza-like illness (ILI) compared to historical average, British Columbia, 2017-18



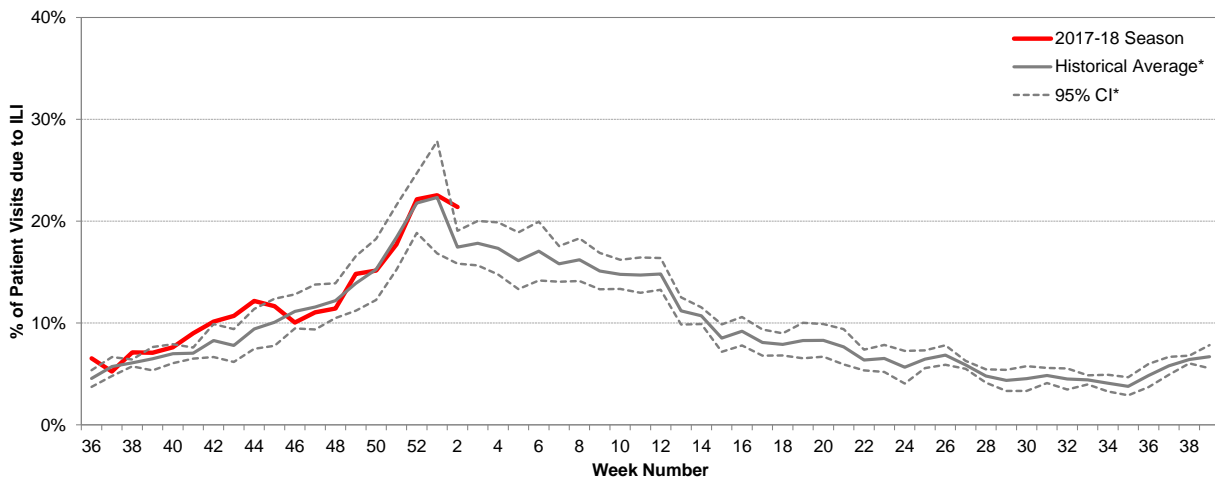
* Data are subject to change as reporting becomes more complete.

† 10-year historical average for 2017-18 season based on 2005-06 to 2016-2017 seasons, excluding 2008-09 and 2009-10 due to atypical seasonality; CI=confidence interval.

BC Children's Hospital Emergency Room

In week 2, the proportion of visits to BC Children's Hospital Emergency Room (ER) attributed to ILI remained elevated and was slightly higher than the historical average for the past 5 seasons.

Percent of patients presenting to BC Children's Hospital ER attributed to influenza-like illness (ILI), British Columbia, 2017-18



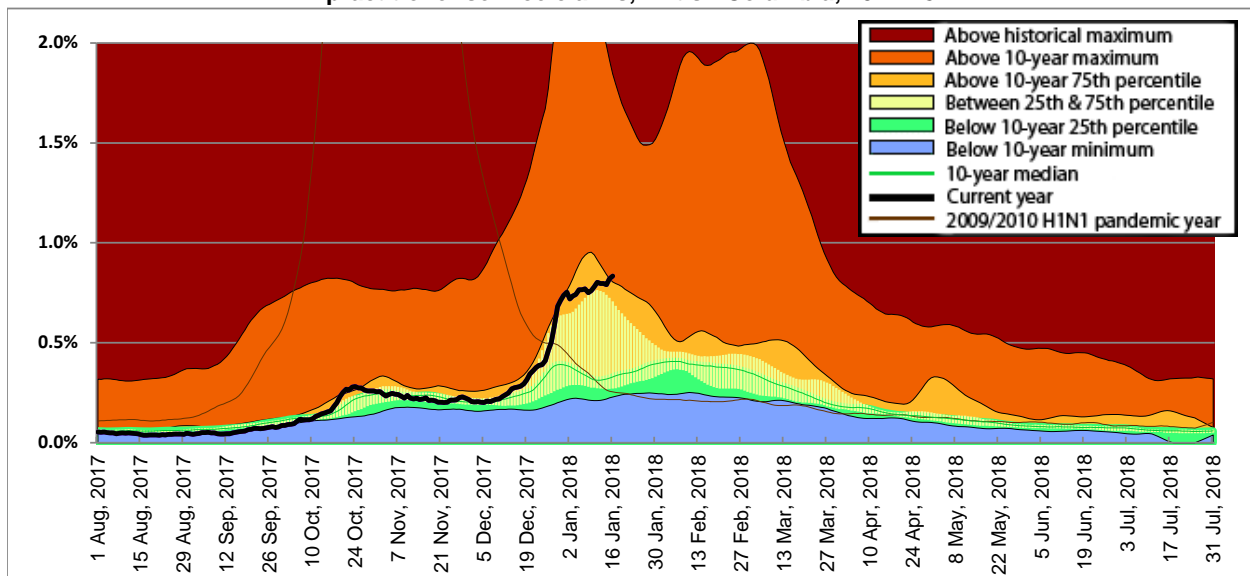
Source: BCCH Admitting, Discharge, Transfer database (ADT). Data includes records with a triage chief complaint of "flu" or "influenza" or "fever/cough."

* 5-year historical average for 2017-18 season based on 2012-13 to 2016-17 seasons; CI=confidence interval.

Medical Services Plan

In week 2, BC Medical Services Plan (MSP) general practitioner claims for influenza illness (II), as a proportion of all submitted MSP claims remained stable but at elevated levels for the province overall following a sharp increase in previous weeks. MSP rate trends varied across regions with some regions (FHA and VCHA) continued to increase while others (IHA) began to decline. In week 2, rates for the province overall and in FHA and VCHA were above the 10-year maximum, while rates in IHA, and NHA were above the 10-year 75th percentile; rates in VIHA were within expected levels for this period.

Service claims submitted to MSP for influenza illness (II)* as a proportion of all submitted general practitioner service claims, British Columbia, 2017-18

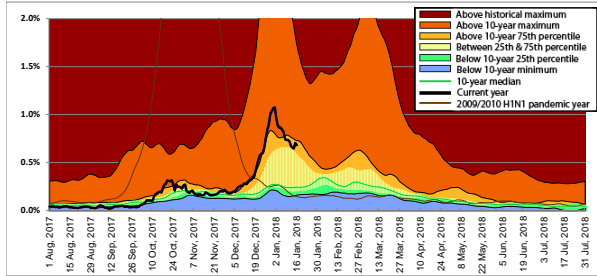


* Influenza illness is tracked as the percentage of all submitted MSP general practitioner claims with ICD-9 code 487 (influenza).

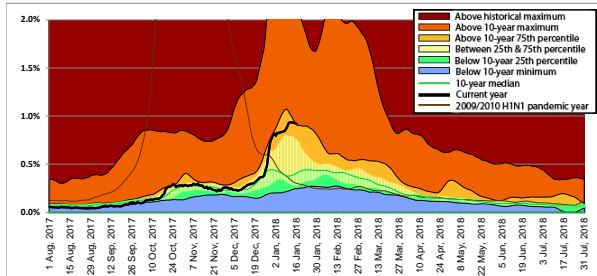
Data for the period August 1, 2009 to July 31, 2010 have been excluded from the 10-year median calculation due to atypical seasonality during the 2009/2010 H1N1 pandemic year. MSP data beginning August 1, 2017 corresponds to sentinel ILI week 31; data are current to January 16, 2018.

Data provided by Population Health Surveillance and Epidemiology, BC Ministry of Health Services.

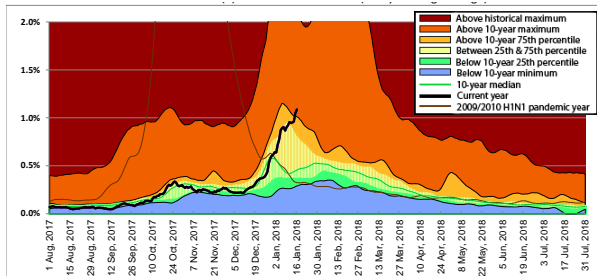
Interior



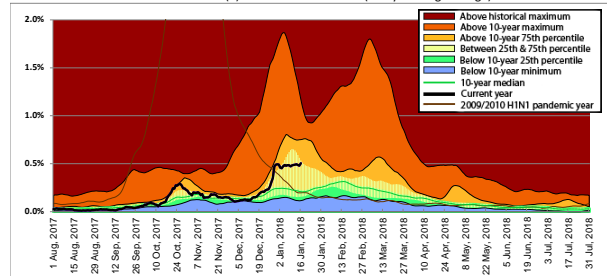
Fraser



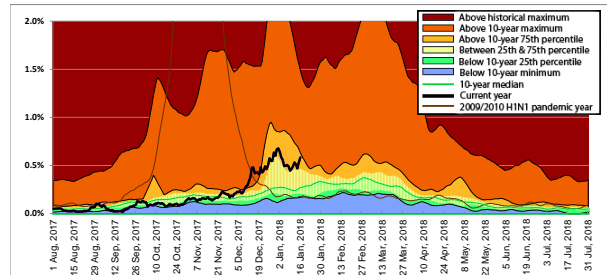
Vancouver Coastal



Vancouver Island



Northern



Laboratory Reports

BCCDC Public Health Laboratory

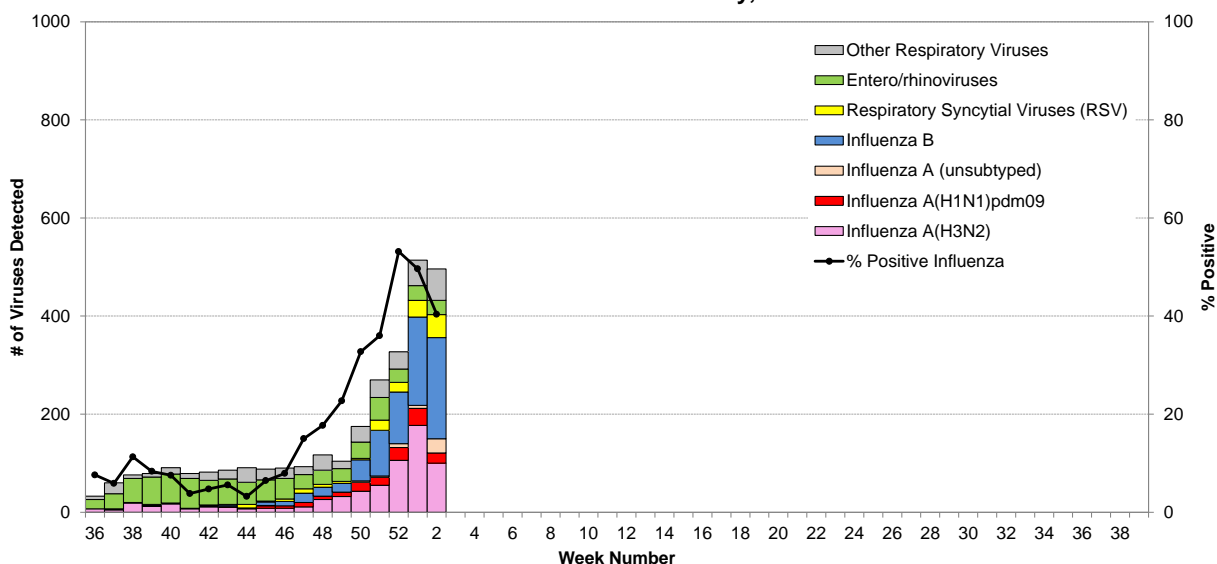
In week 2, 881 patients were tested for respiratory viruses at the BCCDC Public Health Laboratory (PHL). Of these, 355 (40%) tested positive for influenza; 149 (42%) had influenza A detected [100 A(H3N2), 21 A(H1N1)pdm09 and 28 subtype pending], 205 (58%) had influenza B detected and 1 (<1%) had both influenza A (subtype pending) and B detected. Influenza positivity at the BCCDC PHL remained elevated at above 40% in week 2 but declined from a peak of more than 50% in week 52. Among influenza A detections, A(H3N2) remained the dominant subtype during this period. Influenza B positivity remained greater than in previous years for this period, comprising more than half of all influenza detections in week 2. Based on national surveillance reports, B(Yamagata) is the predominant influenza B lineage circulating in BC and elsewhere in Canada this season.

Cumulatively during the 2017-18 season (since week 40, starting October 1, 2017), 1513 (28%) patients tested positive for influenza at the BCCDC PHL, including 814 (54%) with influenza A [612 A(H3N2), 152 A(H1N1)pdm09, 50 subtype pending], 696 (46%) with influenza B and three patients with both influenza A [one with A(H3N2), one with A(H1N1)pdm09, and one with A(subtype pending)] and B detected.

More than half (60%) of A(H3N2) cases have been detected among elderly adults ≥ 65 years old, with 6% <20 years old, 17% 20-49 years old, and 16% 50-64 years old. Conversely, 43% of influenza B cases have been detected among elderly adults ≥ 65 years old, with 15% <20 years old, 22% 20-49 years old, and 21% 50-64 years old. Among A(H1N1)pdm09 cases, only 14% have been detected among elderly adults ≥ 65 years old, with 29% <20 years old, 42% 20-49 years old, and 16% 50-64 years old.

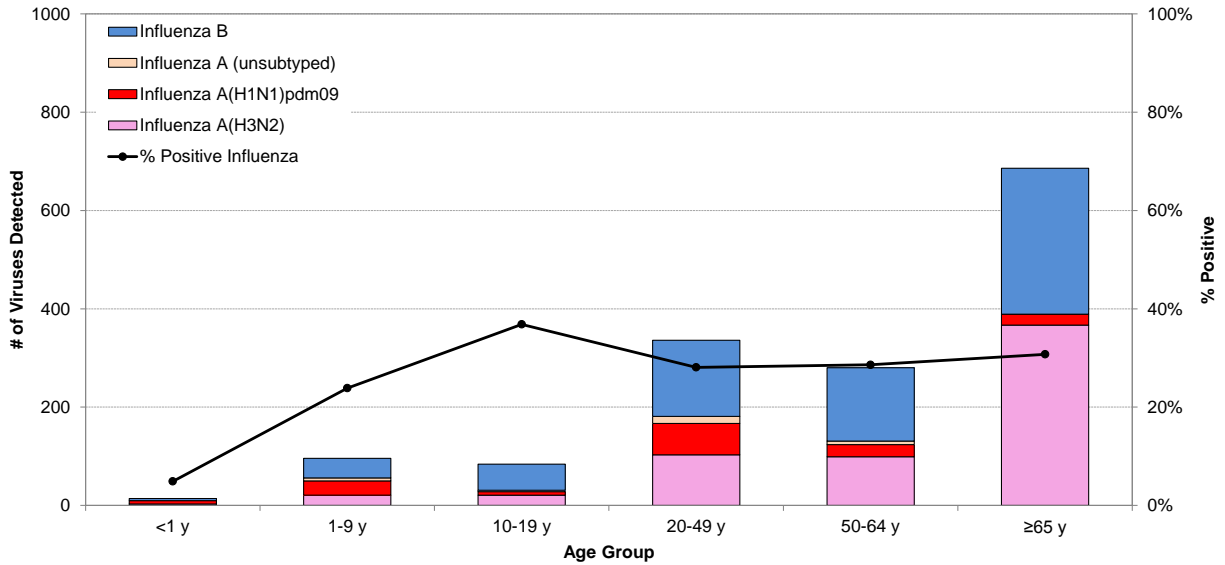
RSV was the most commonly detected non-influenza respiratory virus during this period. RSV detections have been less frequent than in the 2016-17 season; 5% of patients tested positive for RSV in week 2 this season compared to 12% in the 2016-17 season during the same period.

Influenza and other virus detections among respiratory specimens submitted to BCCDC Public Health Laboratory, 2017-18



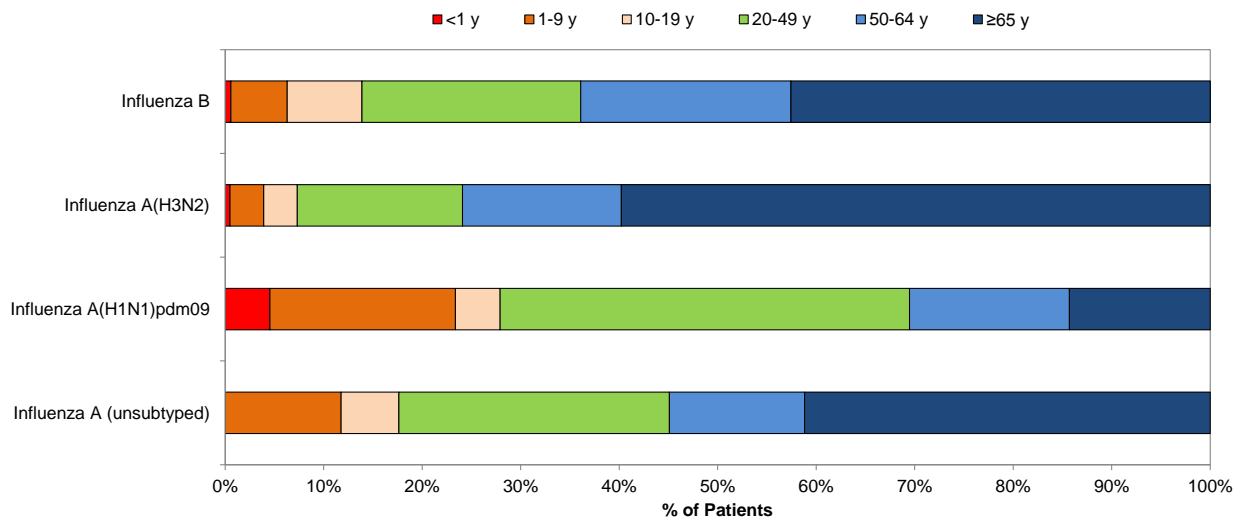
Source: BCCDC Public Health Laboratory (PHDRW); Data are current to January 17, 2018.

Cumulative number (since week 40) of influenza detections by type subtype and age group, BCCDC Public Health Laboratory, 2017-18



Source: BCCDC Public Health Laboratory (PHDRW); Data are current to January 17, 2018; figure includes cumulative influenza detections for specimens collected from weeks 40-2.

Age distribution of influenza detections (cumulative since week 40), BCCDC Public Health Laboratory, 2017-18

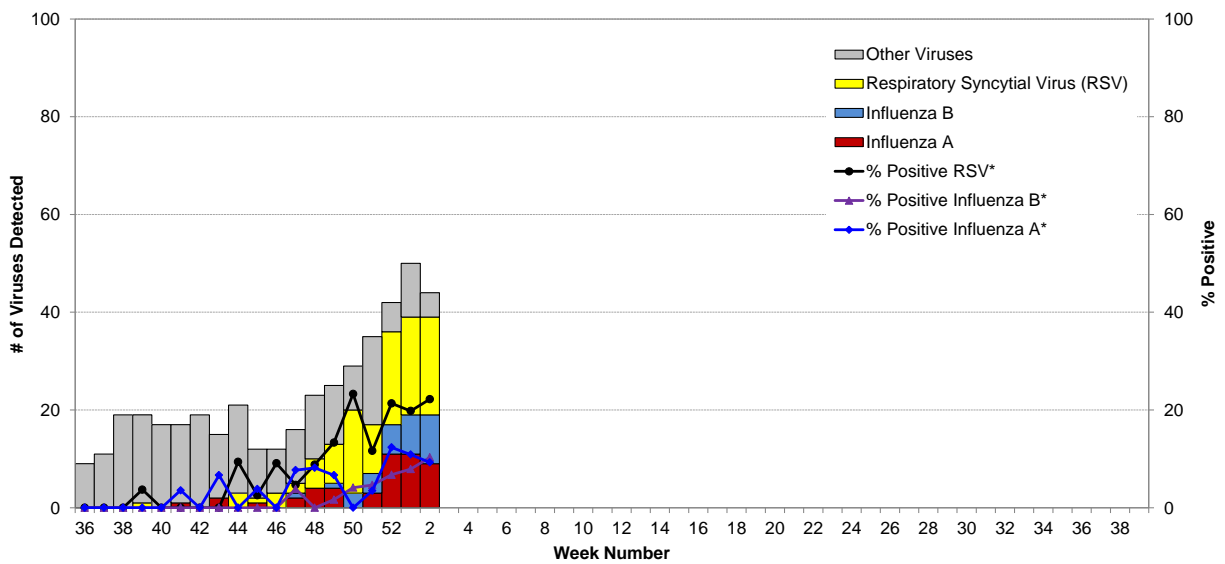


Source: BCCDC Public Health Laboratory (PHDRW); Data are current to January 17, 2018; figure includes cumulative influenza detections for specimens collected from weeks 40-2.

BC Children's and Women's Health Centre Laboratory

In week 2, 97 tests for influenza viruses were conducted at the BC Children's and Women's Health Centre (CWHC) laboratory. Of these, 9 (9%) were positive for influenza A and 10 (10%) were positive for influenza B. Additionally, 20 out of 90 (22%) tests were positive for respiratory syncytial virus (RSV). RSV was the most commonly detected respiratory viruses during this period.

Influenza and other virus detections among respiratory specimens submitted to BC Children's and Women's Health Centre Laboratory, 2017-18



* Positive rates were calculated using aggregate data. The denominators for each rate represent the total number of tests; multiple tests may be performed for a single specimen and/or patient.

Influenza-like Illness (ILI) Outbreaks

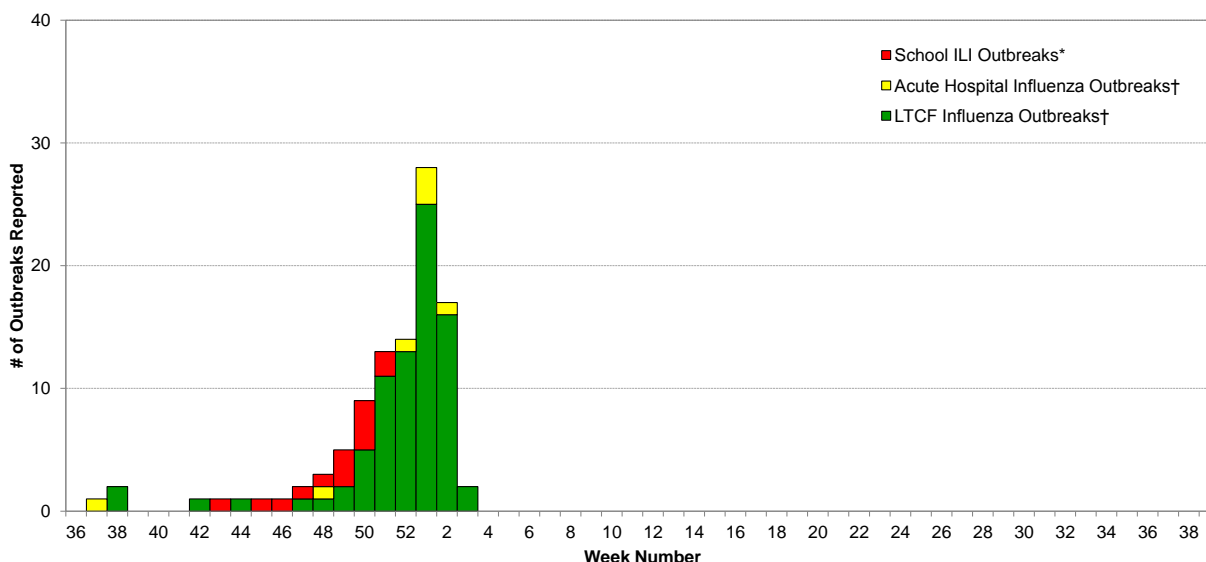
Since our last bulletin, 25 new lab-confirmed outbreaks were reported, including 24 from long-term care facilities (LTCFs) and 1 from an acute care hospital. Of the 25 newly reported outbreaks, 1 had onset in week 52 in VIHA, 8 had onset in week 1 (5 in FHA, 1 in IHA, 1 in VCHA, 1 in VIHA), 14 had onset in week 2 (6 in FHA, 6 in IHA, 1 in NHA, 1 in VIHA), and 2 had onset in week 3 (1 in FHA, 1 in VIHA).

Of the 25 outbreaks, 18 had influenza B detected, 6 had influenza A detected, and 1 had influenza A and B detected; none of the influenza A outbreaks had subtype information available.

Cumulatively during the 2017-18 season (since week 37, starting September 10, 2017), 87 lab-confirmed influenza outbreaks have been reported, including 33 with influenza A detected [11 A(H3N2) and 22 subtype unknown], 49 with influenza B, 1 with influenza A (H3N2) and influenza B, and 4 with influenza A (unspecified subtype) and influenza B; of these, 80 were reported in LTCFs and 7 were reported from an acute care facility. No influenza A outbreaks have been subtyped as A(H1N1)pdm09 so far this season. Additionally, 14 school ILI outbreaks have occurred without etiologic agent identified.

So far during this season of mixed A(H3N2) and influenza B co-circulation, the number of long term care facility outbreaks reported since week 40 (n=78) is lower than the tally for the same period during recent A(H3N2) dominant epidemics in 2014-15 (n=118) and 2016-17 (n=104) but higher than during recent A(H1N1)pdm09 dominant epidemics in 2013-14 (n=3) and 2015-16 (n=9), bearing in mind variation in the timing of seasonal epidemics that may influence final end-of-season comparisons.

Number of influenza-like illness (ILI) outbreaks reported, British Columbia 2017-18



* School-based ILI outbreak defined as >10% absenteeism on any day, most likely due to ILI.

† Facility-based influenza outbreaks defined as 2 or more ILI cases within 7-day period, with at least one laboratory-confirmed case of influenza.

Updated Antiviral Guidelines

The Association of Medical Microbiology and Infectious Disease Canada (AMMI Canada) have released updated guidance on the use of antiviral drugs given potential low vaccine effectiveness for the 2017-18 influenza season. These guidelines are available at: <https://www.ammi.ca/Update/79.ENG.pdf>.

National

FluWatch (week 1, December 31, 2017 to January 6, 2018)

Overall, influenza activity in Canada is high and continues to increase. Most indicators of influenza activity increased in week 1, and are in the higher range of expected levels for this time of year. The majority of influenza detections continue to be A(H3N2), although the proportion of detections that are influenza B has been increasing steadily. Influenza B is circulating much earlier than usual this season. The number of influenza B detections remains substantially greater this season compared to previous years. To date this season, the majority of lab confirmations, hospitalizations and deaths have been among adults 65 years of age and older. Details are available at: www.canada.ca/en/public-health/services/diseases/flu-influenza/influenza-surveillance/weekly-influenza-reports.html.

National Microbiology Laboratory (NML): Strain Characterization

From September 1, 2017 to January 18, 2018, the National Microbiology Laboratory (NML) received 482 influenza viruses from Canadian laboratories for antigenic characterization.

Influenza A(H3N2): Of the 299 influenza A(H3N2) viruses, only 73 (24%) had sufficient haemagglutination titre for antigenic characterization by haemagglutination inhibition (HI) assay. Of the 73 viruses characterized by HI assay, 72 (99%) were considered antigenically similar to a cell culture-propagated A/Hong Kong/4801/2014-like virus, the WHO-recommended A(H3N2) component for the 2017-18 northern hemisphere influenza vaccine, while one virus (belonging to genetic clade 3C.3a) showed reduced titre with ferret antisera raised against cell culture-propagated A/Hong Kong/4801/2014. Of the 68 out of 73 viruses that were antigenically characterized with available sequencing information, 57 belonged to genetic clade 3C.2a and 10 belonged to subclade 3C.2a1; sequencing is pending for the remaining 5 isolates. Of the 227 viruses genetically characterized, 185 were reported to belong to genetic clade 3C.2a, which includes the A/Hong Kong/4801/2014 vaccine strain, while 41 belonged to subclade 3C.2a1 and 1 belonged to clade 3C.3a.

Influenza A(H1N1)pdm09: All of the 34 A(H1N1)pdm09 viruses characterized were antigenically similar to an A/Michigan/45/2015-like virus, the WHO-recommended influenza A(H1N1) component for the 2017-18 northern hemisphere influenza vaccine.

Influenza B: Of the 149 influenza B viruses characterized, 7 (5%) belonged to the B(Victoria) lineage and 142 (95%) belonged to the B(Yamagata) lineage. Among the 7 B(Victoria) viruses, 1 (14%) was characterized as antigenically similar to a B/Brisbane/60/2008(Victoria)-like virus, the WHO-recommended influenza B component for the 2017-18 northern hemisphere trivalent influenza vaccine, while 6 (86%) viruses showed reduced titre with ferret antisera produced against cell-propagated B/Brisbane/60/2008. Sequence analysis showed that the six viruses had a two-amino acid deletion in the hemagglutinin (HA) gene. Among the 142 B(Yamagata) viruses, all were antigenically similar to a B/Phuket/3073/2013(Yamagata lineage)-like virus, the WHO-recommended influenza B component for the 2017-18 northern hemisphere quadrivalent influenza vaccine containing two influenza B strains.

National Microbiology Laboratory (NML): Antiviral Resistance

From September 1, 2017 to January 18, 2018, the NML received influenza viruses from Canadian laboratories for drug susceptibility testing.

Amantadine: Of the 334 influenza A viruses [299 A(H3N2) and 35 A(H1N1)pdm09] tested against amantadine, all were resistant.

Oseltamivir: Of the 423 influenza viruses [255 A(H3N2), 32 A(H1N1)pdm09, and 136 B] tested against oseltamivir, all were sensitive.

Zanamivir: Of the 424 influenza viruses [255 A(H3N2), 33 A(H1N1)pdm09, and 136 B] tested against zanamivir, all were sensitive.

International

USA (week 1, December 31, 2017 to January 6, 2018)

During week 1, overall influenza activity increased in the United States. The most frequently identified influenza virus subtype reported by public health laboratories during week 1 was influenza A(H3N2). The percentage of respiratory specimens testing positive for influenza in clinical laboratories remained elevated. The proportion of deaths attributed to pneumonia and influenza (P&I) was at the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System. Seven influenza-associated pediatric deaths were reported. A cumulative rate of 22.7 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported. The proportion of outpatient visits for influenza-like illness (ILI) was 5.8%, which is above the national baseline of 2.2%. The geographic spread of influenza in 49 states was reported as widespread; Guam and one state reported regional activity; the District of Columbia reported local activity; the U.S. Virgin Islands reported sporadic activity; and Puerto Rico did not report. Details are available at: www.cdc.gov/flu/weekly/.

WHO

There have been no WHO influenza updates since our last bulletin. Previous updates are available at: www.who.int/influenza/surveillance_monitoring/updates/en/.

WHO Recommendations for Influenza Vaccines

WHO Recommendations for 2017-18 Northern Hemisphere Influenza Vaccine

On March 2, 2017, the WHO announced the recommended strain components for the 2017-18 northern hemisphere trivalent influenza vaccine (TIV):*

- an A/Michigan/45/2015 (H1N1)pdm09-like virus;†
- an A/Hong Kong/4801/2014 (H3N2)-like virus;
- a B/Brisbane/60/2008 (Victoria-lineage)-like virus.

It is recommended that quadrivalent influenza vaccines (QIV) containing two influenza B viruses contain the above three viruses and a B/Phuket/3073/2013 (Yamagata-lineage)-like virus.

* These recommended strains are the same as those recommended for the 2017 southern hemisphere TIV and represent a change for one of the three components used for the 2016-17 northern hemisphere TIV and 2016 southern hemisphere TIV.

† Recommended strain represents a change from an A/California/7/2009-like virus, which had been retained as the A(H1N1)pdm09 component since the 2009 pandemic, to an A/Michigan/45/2015-like virus belonging to the emerging phylogenetic subclade 6B.1.

For further details: www.who.int/influenza/vaccines/virus/recommendations/2017_18_north/en/.

WHO Recommendations for the 2018 Southern Hemisphere Influenza Vaccine

On September 28, 2017, the WHO announced recommended strain components for the 2018 southern hemisphere trivalent influenza vaccine (TIV):*

- an A/Michigan/45/2015 (H1N1)pdm09-like virus;†
- an A/Singapore/INFIMH-16-0019/2016 (H3N2)-like virus;‡
- a B/Phuket/3073/2013-like (Yamagata-lineage) virus.§

It is recommended that quadrivalent influenza vaccines (QIV) containing two influenza B viruses contain the above three viruses and a B/Brisbane/60/2008 (Victoria-lineage)-like virus.

* Recommended strains represent a change for two of the three components used for the 2017 southern hemisphere vaccines.

† Recommended strain is the same as recommended for the 2017 southern hemisphere and 2017-18 northern hemisphere vaccines. The A/Michigan/45/2015-like virus belongs to the emerging phylogenetic subclade 6B.1; it replaces the A/California/7/2009-like virus that had been retained as the previous A(H1N1) component since the 2009 pandemic.

‡ Recommended strain for the A(H3N2) component represents a phylogenetic clade-level change from a clade 3C.2a virus to a clade 3C.2a1 virus containing the amino acid substitution N121K in the HA which is found in the majority of recent A(H3N2) viruses.

§ Recommended strain for the influenza B component represents a lineage-level change from a B(Victoria)-lineage virus to a B(Yamagata)-lineage virus.

For further details: http://www.who.int/influenza/vaccines/virus/recommendations/2018_south/en/.

The European Centre for Disease Prevention and Control has also posted a useful summary of WHO recommendations for the 2018 southern hemisphere influenza season, including rationale, available at: <https://ecdc.europa.eu/en/news-events/who-recommendations-influenza-virus-vaccine-composition-2018-southern-hemisphere>

Additional Information

Explanatory Note:

The surveillance period for the 2017-18 influenza season is defined starting in week 40. Weeks 36-39 of the 2016-17 season are shown on graphs for comparison purposes.

List of Acronyms:

ACF: Acute Care Facility

AI: Avian influenza

FHA: Fraser Health Authority

HBoV: Human bocavirus

HMPV: Human metapneumovirus

HSDA: Health Service Delivery Area

IHA: Interior Health Authority

ILI: Influenza-Like Illness

LTCF: Long-Term Care Facility

MSP: BC Medical Services Plan

NHA: Northern Health Authority

NML: National Microbiological Laboratory

A(H1N1)pdm09: Pandemic H1N1 influenza (2009)

RSV: Respiratory syncytial virus

VCHA: Vancouver Coastal Health Authority

VIHA: Vancouver Island Health Authority

WHO: World Health Organization

Current AMMI Canada Guidelines on the Use of Antiviral Drugs for Influenza:

www.ammi.ca/Update/79.ENG.pdf

Web Sites:

BCCDC Emerging Respiratory Pathogen Updates:

www.bccdc.ca/health-professionals/data-reports/emerging-respiratory-virus-updates

Influenza Web Sites

Canada – Influenza surveillance (FluWatch): <https://www.canada.ca/en/public-health/services/diseases/flu-influenza/influenza-surveillance.html>

Washington State Flu Updates: <http://www.doh.wa.gov/portals/1/documents/5100/420-100-fluupdate.pdf>

USA Weekly Surveillance Reports: www.cdc.gov/flu/weekly/

Joint ECDC – WHO/Europe weekly influenza update (Flu News Europe): flunewseurope.org

WHO – Weekly Epidemiological Record: www.who.int/wer/en/

WHO Collaborating Centre for Reference and Research on Influenza (Australia):

www.influenzacentre.org/

Australian Influenza Report:

www.health.gov.au/internet/main/publishing.nsf/content/cda-surveil-ozflu-flucurr.htm

New Zealand Influenza Surveillance Reports: www.surv.esr.cri.nz/virology/influenza_weekly_update.php

Avian Influenza Web Sites

WHO – Influenza at the Human-Animal Interface: www.who.int/csr/disease/avian_influenza/en/

World Organization for Animal Health: www.oie.int/eng/en_index.htm

Contact Us:

Tel: (604) 707-2510

Fax: (604) 707-2516

Email: InfluenzaFieldEpi@bccdc.ca

Communicable Disease Prevention and Control Services (CDPACS)

BC Centre for Disease Control

655 West 12th Ave, Vancouver BC V5Z 4R4

Online: www.bccdc.ca/health-professionals/data-reports/influenza-surveillance-reports

Influenza-Like Illness (ILI) Outbreak Summary Report Form

Please complete and email to ilioutbreak@bccdc.ca

Note: This form is for provincial surveillance purposes.

Please notify your local health unit per local guidelines/requirements.

ILI: Acute onset of respiratory illness with fever and cough and with one or more of the following: sore throat, arthralgia, myalgia, or prostration which *could* be due to influenza virus. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not be prominent.

Schools and work site outbreak: greater than 10% absenteeism on any day, most likely due to ILI.

Residential institutions (facilities) outbreak: two or more cases of ILI within a seven-day period.

A	<p><u>Reporting Information</u> Health unit/medical health officer notified? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Person Reporting: _____ Title: _____</p> <p>Contact Phone: _____ Email: _____</p> <p>Health Authority: _____ HSDA: _____</p> <p>Full Facility Name: _____</p> <p>Is this report: <input type="checkbox"/> First Notification (<i>complete section B below; Section D if available</i>)</p> <p style="margin-left: 20px;"><input type="checkbox"/> Update (<i>complete section C below; Section D if available</i>)</p> <p style="margin-left: 20px;"><input type="checkbox"/> Outbreak Over (<i>complete section C below; Section D if available</i>)</p>															
B	<p><u>First Notification</u></p> <p>Type of facility: <input type="checkbox"/> LTCF <input type="checkbox"/> Acute Care Hospital <input type="checkbox"/> Senior's Residence <i>(if ward or wing, please specify name/number: _____)</i></p> <p><input type="checkbox"/> Workplace <input type="checkbox"/> School (grades: _____) <input type="checkbox"/> Other (_____)</p> <p>Date of onset of first case of ILI (dd/mm/yyyy): <u>DD / MMM / YYYY</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 25%;">Numbers to date</th> <th style="width: 45%;">Residents/Students</th> <th style="width: 30%;">Staff</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> <td></td> </tr> <tr> <td>With ILI</td> <td></td> <td></td> </tr> <tr> <td>Hospitalized</td> <td></td> <td></td> </tr> <tr> <td>Died</td> <td></td> <td></td> </tr> </tbody> </table>	Numbers to date	Residents/Students	Staff	Total			With ILI			Hospitalized			Died		
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C	<p><u>Update AND Outbreak Declared Over</u></p> <p>Date of onset for most recent case of ILI (dd/mm/yyyy): <u>DD / MMM / YYYY</u></p> <p>If over, date outbreak declared over (dd/mm/yyyy): <u>DD / MMM / YYYY</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 25%;">Numbers to date</th> <th style="width: 45%;">Residents/Students</th> <th style="width: 30%;">Staff</th> </tr> </thead> <tbody> <tr> <td>Total</td> <td></td> <td></td> </tr> <tr> <td>With ILI</td> <td></td> <td></td> </tr> <tr> <td>Hospitalized</td> <td></td> <td></td> </tr> <tr> <td>Died</td> <td></td> <td></td> </tr> </tbody> </table>	Numbers to date	Residents/Students	Staff	Total			With ILI			Hospitalized			Died		
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D	<p><u>Laboratory Information</u></p> <p>Specimen(s) submitted? <input type="checkbox"/> Yes (location: _____) <input type="checkbox"/> No <input type="checkbox"/> Don't know</p> <p>If yes, organism identified? <input type="checkbox"/> Yes (specify: _____) <input type="checkbox"/> No <input type="checkbox"/> Don't know</p>															