

Provincial Reporting Requirements for Severe Outcomes Associated with Laboratory Confirmed Influenza 2019–2020

The data collection of influenza associated hospitalizations, ICU admissions, and deaths is required in the 2019–2020 influenza season. This surveillance system has been implemented since the H1N1 pandemic and continues to monitor the severity/burden of illness during an influenza season.

If there is a significant¹ change in the level or severity of influenza activity, please refer to Appendix A for **Enhanced Surveillance for ICU Admissions**.

Objective

- Monitor the severity of circulating influenza types/strains in Manitoba
- Describe the characteristics and clinical outcomes
- Guide public health interventions

Surveillance Period

September 1, 2019 to August 31, 2020

Eligible Cases

All laboratory-confirmed influenza cases living in the reporting region who were admitted to **hospitals** in Manitoba for at least **an overnight stay** or **who have died** should be reported.

Note that the reason for hospitalization, ICU admission, or cause of death does not have to be attributable to influenza. A positive laboratory test is sufficient for reporting.

Facilities

All regions are required to report admissions to the below hospitals and ICUs (adult and pediatric) in Manitoba:

1. Health Sciences Centre ICU
2. Children's Hospital ICU
3. St. Boniface ICU
4. Victoria General
5. Grace General
6. Seven Oaks General
7. Concordia General
8. Brandon General Hospital
9. Norway House Hospital
10. Percy E. Moore Hospital

¹ As determined by provincial Medical Officers of Health, Epidemiologists, and other provincial surveillance personnel.

Laboratory Referral

Fax

The Surveillance unit at Manitoba Health Seniors and Active Living (MHSAL) refers all laboratory confirmed cases of influenza to RHAs:

1. Laboratory reports are faxed to RHAs of residence for cases living in Manitoba, or to province/territory for cases living outside of Manitoba, or to Public Health Agency of Canada for cases living outside of Canada.
2. A copy is faxed to the Winnipeg Regional Health Authority if testing occurred in a *Winnipeg hospital*.

RHAs are expected to review all positive lab reports and determine if their cases have been hospitalized, admitted to an ICU, or have died. The process by which these cases are identified is deferred to the regional health authorities.

Data Submission Option 1: Outside of PHIMS

RHAs can submit a line list of severe outcomes associated with influenza (hospital admissions, ICU admissions, and deaths) through the secure online file transfer site at <https://mbhtransfer.mbhealth.ca/> every **Wednesday** morning.

To identify these cases with severe outcomes at the provincial level and minimize data errors, the weekly line list should include the laboratory requisition number², Personal Health Identification Number (PHIN), and Date of Birth. See the [report template](#) at the website <http://www.gov.mb.ca/health/publichealth/surveillance/forms.html> under the heading “Influenza”.

Data Submission Option 2: Inside PHIMS

RHAs can enter severe outcomes associated with influenza within PHIMS. Please refer to the document, **QRC 7.9** about the general process to enter outcomes of investigation into PHIMS that is available online at <https://phimsmb.ca/document/22/7-0-investigations/869/qrc-7-9.pdf>.

Data entered by Thursday morning will be included in the influenza report on Friday.

1. Enter all severe outcomes (“Hospitalization admission”, “ICU admission”, and “Fatal”) and outcome dates;
2. For each entry of “ICU admission”, there should have at least one entry of “Hospitalization admission”. If the outcome date for “Hospitalization admission” is unknown, please enter the outcome date for “ICU admission”.
3. If information is available, enter more fields for deceased cases:
 - a. Add one comment regarding the location of death, for example “Fatal: Community.”
 - b. Complete the table “Cause of Death Details” including items such as Cause of Death, Contributing Level, Relationship to Communicable Disease, and Autopsy Performed.

Reporting

Influenza associated hospitalizations, ICU admissions, and deaths will be included in the weekly influenza report and in the end of season report.

² Requisition numbers are provided on the Cadham Provincial Laboratory influenza reports forwarded to regions.

Appendix A

Enhanced Surveillance for ICU Admissions Associated with a Positive Laboratory Report of Influenza

If a significant³ change in the level or severity of influenza activity warrants the implementation of this surveillance component, more detailed information on influenza positive cases admitted to the ICU will allow for characterization of those patients with severe disease. These data are important to:

- Determine whether this influenza season is characteristic of previous non-pandemic seasons
- Detect the potential emergence of novel (and more pathogenic) influenza viruses; target intervention strategies at populations that are experiencing severe clinical outcomes
- Anticipate potential increases in medical resources required for care/treatment

Methodology

A.) Surveillance Period

September 1, 2019 to August 31, 2020

B.) Eligible Cases

All Manitoba residents with laboratory confirmed influenza admitted to an ICU are to be included.

C.) Facilities

All cases admitted to all ICUs (adult and pediatric) in Manitoba are eligible:

1. Health Sciences Centre ICU
2. Children's Hospital ICU
3. St. Boniface ICU
4. Victoria General
5. Grace General
6. Seven Oaks General
7. Concordia General
8. Brandon General Hospital
9. Norway House Hospital
10. Percy E. Moore Hospital

D.) Data Collection and Submission

Winnipeg and Brandon will be asked to complete detailed investigation forms for **all** cases admitted to ICUs. This form will be circulated once this surveillance component is activated. Blank forms will be made available on the Manitoba Health website at

<http://www.gov.mb.ca/health/publichealth/surveillance/forms.html> under the heading "Influenza".

³ As determined by provincial Medical Officers of Health, Epidemiologists, and other provincial surveillance personnel.

It is required that the ICU case investigation reporting form be completed within 72 hours of receipt of an influenza positive test result (if activity/severity indicates otherwise, an MOH may request expedited follow-up). All completed forms should be submitted to the Manitoba Health's Surveillance unit by confidential fax to **(204)948-3044**.

E.) Reporting

Should this program be implemented, enhanced surveillance data on ICU-admitted cases will be included in the end of season influenza report.