

Community of Practice:

The Upcoming Respiratory Virus Season

July 2022



Topics Covered

- 1. Respiratory Viruses Overview
- 2. COVID-19
- 3. Influenza
- 4. RSV
- 5. Other Respiratory Viruses



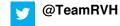


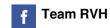


Respiratory Viruses Overview

- Respiratory Season has historically been November through April and is triggered by the initial detection of Influenza cases.
- Respiratory Viruses are a common concern and cause for Outbreaks in congregate settings.
- We have access to vaccines for two of the viruses; COVID-19 and Influenza.
- The severity of the influenza season and circulating strains are challenging to predict.
- It remains unclear how the COVID-19 pandemic will affect the influenza season; however it is evident already that we will have other respiratory viruses circulating in addition to COVID-19 this fall.





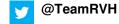


Routine Practices

Used with every person, every time.

- 1. Point of Care Risk Assessment
- 2. Hand Hygiene
- 3. Personal Protective Equipment
- 4. Respiratory Hygiene
- 5. Antimicrobial Stewardship
- 6. Aseptic Practice
- 7. Resident/Person Supported Placement
- 8. Waste Management







Point of Care Risk Assessment (PCRA)

Before each patient/resident/client interaction, the health care worker completes a 'Point of Care Risk Assessment' (PCRA) by asking the following questions to determine the risk of exposure and appropriate Routine Practices and Additional Precautions required for safe care:

- What are the patient's symptoms?
- What is the degree of contact?
- What is the degree of contamination?
- What is the patient's level of understanding and cooperation?
- What is the degree of difficulty of the procedure being performed and the experience level of the care provider?
- What is my risk of exposure to blood, body fluids, excretions, secretions, nonintact skin and mucous membranes?





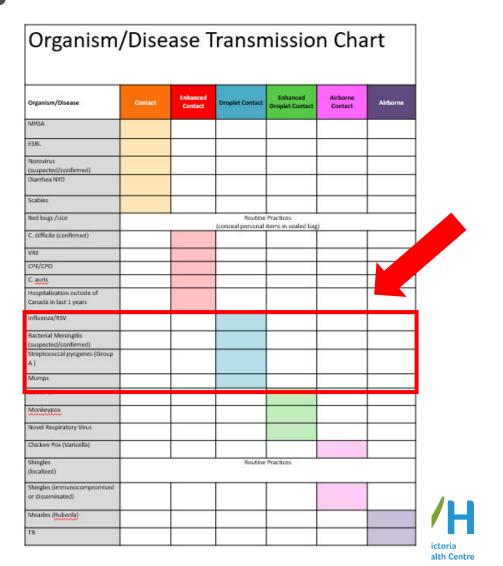


Additional Precautions

Droplet/Contact Precautions

(mask, eye protection, gown, gloves)





What to do when an Acute Respiratory Illness (ARI) is suspected:

Identify person(s) with signs or symptoms concerning for respiratory virus via your Routine Screening

Initiate Enhanced **Droplet/Contact Precautions** by moving person into a private space/room/area away from others

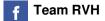
Droplet/Contact Precautions until COVID-19 is ruled out

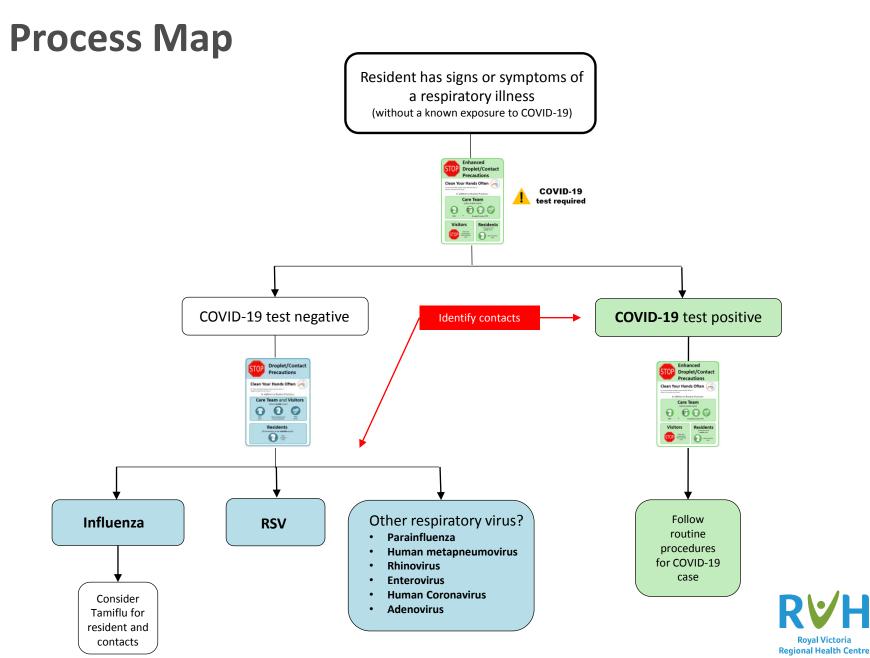
Collect NP swab for respiratory virus testing and maintain Enhanced Droplet/Contact **Precautions** while awaiting results











COVID-19

Enhanced Droplet/Contact

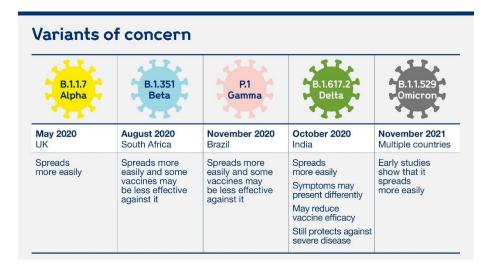
- Simcoe Muskoka has entered a seventh wave of COVID-19, being driven by the new Omicron subvariant BA.5, which has become the dominant strain in our community and the province.
- We are seeing a rise in the rate of transmission through increases in local case counts, active outbreaks, hospitalizations, and waste water signals in some communities.
- The BA.5 subvariant spreads even faster between people than the last strain of COVID-19, has similar severity, and can reinfect those who have previously had COVID-19.
- COVID-19 booster vaccine eligibility has been expanded at this time.
- The *bivalent COVID-19 vaccine* is anticipated to be available around Thanksgiving for high risk groups first.
- You can get the COVID-19 vaccine and the Influenza vaccine at the same time

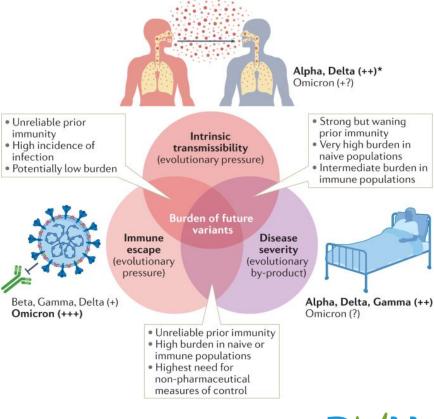




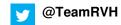


Evolution and Impact of the COVID-19 Virus











Droplet/Contact

Influenza

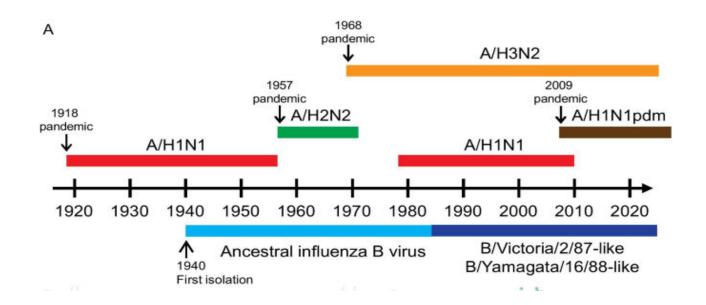
- Influenza is contagious: it is spread by direct contact and by droplets expelled during breathing, talking, sneezing or coughing.
- Influenza is common: About one in 20 healthy unvaccinated adults gets infected with influenza each year; as many as 1 in 6 unvaccinated healthcare workers get influenza.
- At least 1 in every 300 adults over the age of 65, and 1 in every 200 children under the age of one are hospitalized due to influenza each year.
- Influenza can be fatal: In Canada, up to 12,200 hospitalizations related to influenza; and approximately 3500 deaths attributable to influenza occur annually.
- As a health-care worker you can help protect yourself and your patients: four randomized control clinical trials found that vaccination of health-care workers reduced the number of deaths in the patients they cared for by 20-40%.





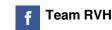


Evolution and Impact of the Influenza Virus





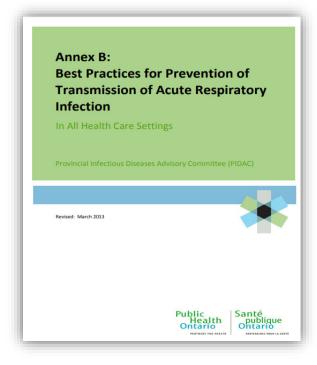




Influenza Resources

PHO Influenza Webpage





Testing Indications

Public Health Ontario (PHO) Laboratory utilizes a testing algorithm for influenza and other respiratory viruses.

On July 26, 2021, PHO Laboratory implemented changes to eligibility of multiplex respiratory virus PCR (MRVP) testing for children -18 years old seen in the Emergency Department, hospitalized patients, outbreak-associated patients, and patients in institutions not in outbreak with acute respiratory illness (ARI).

Previously, MRVP testing was routinely available for persons tested in ICU/CCU and remote communities only. Starting July 26, 2021, PHO Laboratory has made the following changes to MRVP testing:

- To support enhanced respiratory virus surveillance, MRVP testing will be available for symptomatic children (<18 years) seen in the Emergency Department (ED). This testing, which is generally not required for clinical purposes, will be re-evaluated in fall/winter 2021.
- 2. MRVP testing will be available for all symptomatic hospitalized patients (ward and ICU/CCU).
- Specimens from the first four symptomatic patients in an outbreak that request respiratory virus testing will be tested by MRVP.
- Symptomatic patients tested in institutional settings (non-outbreak) will be eligible for MRVP testing when ordered on the PHO Laboratory requisition.

MRVP testing requests for patients with acute respiratory illness (ARI) in the settings described above should be clearly indicated on the requisition by selecting "Respiratory Viruses" or "COVID-19 Virus AND Respiratory Viruses" as appropriate in section 5 - "Test(s) Requested". Only mark one of the three test request options. In addition, the patient's setting and symptoms should be indicated on the requisition.



RSV (Respiratory Syncytial Virus)

Droplet/Contact

- Respiratory syncytial virus, or RSV, is a common respiratory virus that usually causes mild, cold-like symptoms.
- Most people recover in a week or two, but RSV can be serious, especially for infants and older adults.
- RSV is the most common cause of bronchiolitis (inflammation of the small airways in the lung) and pneumonia (infection of the lungs) in children younger than 1 year of age.
- When an adult gets RSV infection, they typically have mild cold-like symptoms.
 But RSV can sometimes lead to serious conditions such as
 - Pneumonia
 - More severe symptoms for people with asthma
 - More severe symptoms for people with chronic obstructive pulmonary disease (COPD)
 - Congestive heart failure (when the heart can't pump blood and oxygen to the body's tissues)



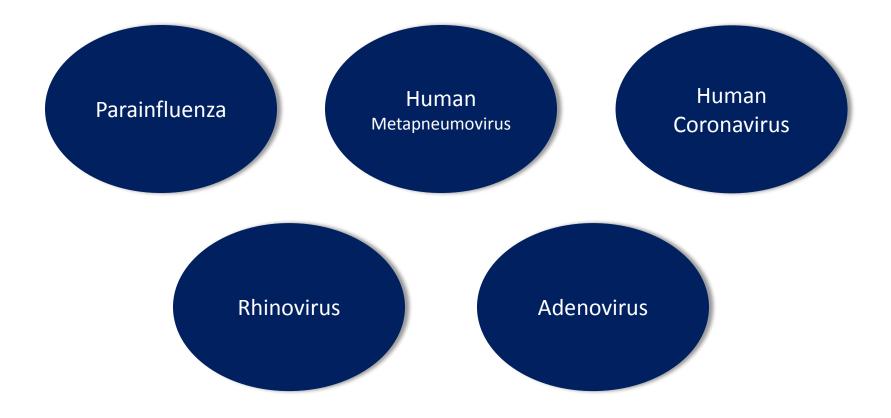






Other Respiratory Viruses

Droplet/Contact

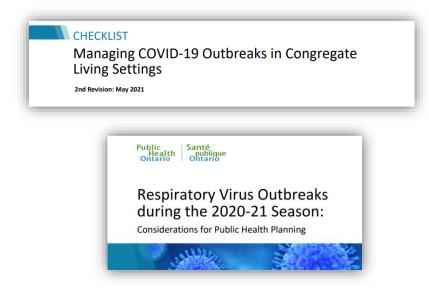


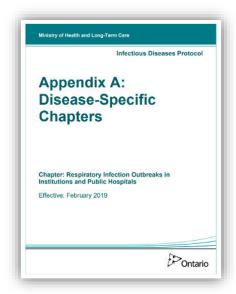




Outbreak

- Outbreak definitions are established to reflect the disease and circumstances of the outbreak under investigation.
- Outbreak definitions should be developed for each individual outbreak based on its characteristics, reviewed during the course of the outbreak, and modified if necessary.













Questions?







