

Community of Practice: Planning and Tools for Respiratory Virus Season

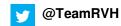
October 2021



Topics Covered

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







Quick Video







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 now have a vaccine for the most impactful of the two; COVID-19 and Influenza.
- The severity of the influenza season and circulating strains are difficult to predict.
- It remains unclear how the COVID-19 pandemic will affect the influenza season; it is unlikely the influenza season will be as quiet as the 2020-2021.







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







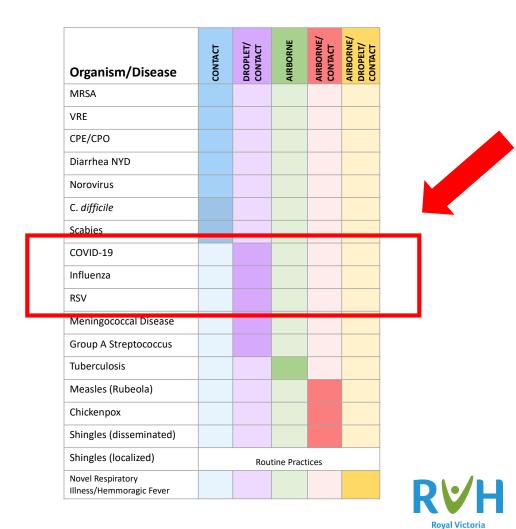


Additional Precautions

Droplet/Contact Precautions

(mask, eye protection, gown, gloves)





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

1

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

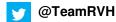
2

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

3

respiratory virus
testing and
maintain
Droplet/Contact
Precautions while
awaiting results







COVID-19



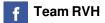
- There have been 13,836 confirmed COVID-19 cases in Simcoe Muskoka since COVID-19 was first identified in Canada.
- There have been 46 new cases reported to the health unit for the current week.
- COVID-19 continues to be a significant concern for transmission and Outbreaks in congregate settings.
- Delta variant is the dominant variant circulating at this time.
- The COVID-19 vaccines continue to be successful at preventing severe illness and lowering the rates of transmission.
- It is important to continue to practice public health measure to prevent the spread of COVID-19.

COVID-19 Case and Vaccine Summary Table, 9	Simcoe Musko
COVID-19 Vaccines	
Total # Vaccinated with First Dose (% of Population)	457,833 (75.7%)
Total # Vaccinated with Second Dose (% of Population)	433,926 (71.8%)









Influenza

Droplet/Contact

- 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%.





Influenza Vaccine

- The *influenza vaccine* is very safe: it has been administered routinely in Canada since 1946. More than 400 million people worldwide get the flu shot every year (about 15 million in Canada). No long-term adverse effects have been recorded
- The influenza vaccine works: As with any adult vaccine, the flu shot does not provide 100% protection. However, with a good match to circulating strains, influenza vaccination prevents illness in 70-90% of healthy children and adults. Additionally, vaccinated people who do still get influenza experience only mild symptoms
- Influenza vaccine is particularly important for pregnant women: Pregnant women who are vaccinated are less likely to have babies who are born prematurely or of low birth weight, and their infants are less likely to get influenza during the first six months of life.

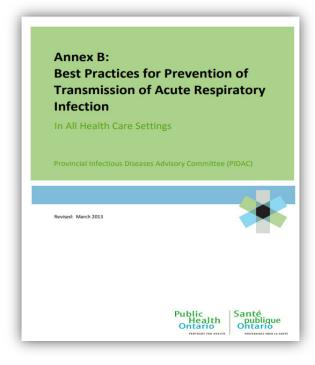




Influenza Resources

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

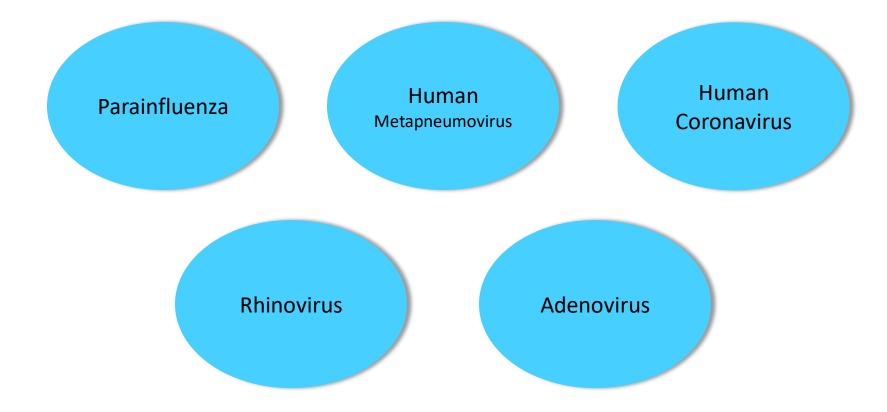
- Respiratory syncytial virus, or RSV, is a common respiratory virus that usually causes mild, cold-like symptoms.
- Most people recover in a week or two, but RSV can be serious, especially for infants and older adults.
- RSV is the most common cause of bronchiolitis (inflammation of the small airways 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









ARI Comparisons

Guiding Procedures - Respiratory Viruses

Respiratory Season 2021/2022

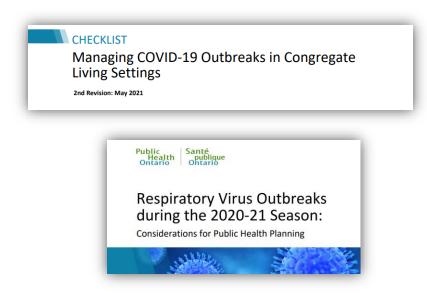
	COVID-19	INFLUENZA	RSV	Other Respiratory Viruses (HMPV, Rhinovirus, Adenovirus, Parainfluenza)
Additional Precautions	Droplet/Contact	Droplet/Contact	Droplet/Contact	Droplet/Contact
	Precautions	Precautions	Precautions	Precautions
Incubation Period	1-10 days	1-4 days	3-7 days	Varies by organism
Period of	14 days	3-5 days	3-8 days	Varies by organism
Communicability				
Duration of	Minimum 10 days	7 days after illness onset	8 days from symptom	Varies by organism
Droplet/Contact		*or until 24 hours after resolution	onset	
Precautions		of fever and respiratory symptoms, whichever is longer		
Nosocomial	Consider nosocomial if	Symptom onset ≥72 hours	Symptom onset ≥72 hours	Symptom onset ≥72 hours
(originating in facility)	symptom onset ≥ 5 days	after admission	after admission	after admission (or identified at another
	after admission.			institutions), and
	Clinical judgement if			presumptively acquired at
	between Day 1-5.			SH
Contacts / Exposures	Droplet/Contact Precautions	Droplet/Contact Precautions	Droplet/Contact	Droplet/Contact
	for 10 days from last	for 96 hours	Precautions and	Precautions and monitoring for symptom
	exposure.	*Start Tamiflu based on the recommendation of PH/Outbreak	monitoring for symptom development for 7 days.	development for 7 days.
	COVID-19 test immediately	management team for residents		
	and again @ day 8-9.	and possibly staff.		
	0 0 7			
Enhanced Surveillance	One case (resident/staff)	One case (resident/staff)	One case (resident/staff)	N/A
	identified.	identified.	identified.	
Outbreak	Public Health to determine.	Public Health to determine.	Public Health to determine.	Public Health to
	*One resident/person supported	*Two or more nosocomial patient	*Two or more nosocomial patient	determine.
	nosocomial case identified.	cases are identified, within 72 hours OR 1 noso patient AND 2 or	cases are identified, within 72 hours	*Two or more nosocomial
		more potentially occupationally	liouis	patient cases are identified, within 72 hours
		acquired		identified, within 72 hours
Outbreak Declared Over	Public Health to determine.	Public Health to determine.	Public Health to determine.	Public Health to
	*Usually no new cases for 14 days	*Usually no new cases for 10 days	*Usually no new cases for 16 days	determine.

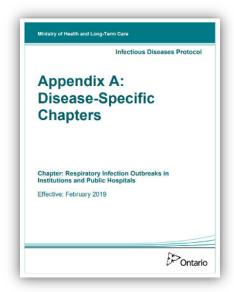




Outbreak

- 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.













Thank you!









Questions?





