

INFECTION PREVENTION AND CONTROL

PROVINCIAL GUIDELINES

Provincial Outbreak Guidance for Viral Respiratory Illness in Acute Care Settings in British Columbia

April 13, 2026



Ministry of
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Guideline Update Overview

Summary of Changes

Version	Summary of Major Updates
April 13, 2026	<p>Replaces:</p> <ul style="list-style-type: none"> This guideline replaces Provincial Outbreak Guidance for Viral Respiratory Illness in Acute Care Settings in British Columbia (January 14, 2025). <p>Updates:</p> <ul style="list-style-type: none"> Updated for alignment with BC Ministry of Health Policy Communiqué: Infection Prevention and Control Measures for Preventing Viral Respiratory Illness (November 27, 2025). Removed reference to facility entrance screening tool and mask required poster. Updated links to current guidance documents, tools (e.g., signage and posters), and resources.
January 14, 2025	<p>Replaces:</p> <ul style="list-style-type: none"> Provincial Infection Control Network Respiratory Infection Outbreak Guidelines for Health Care Facilities (April 2018). COVID-19: Outbreak Management Protocol for Acute Care Settings (August 2022). <p>Updates:</p> <ul style="list-style-type: none"> Title changed to reflect broader scope of viral respiratory pathogens in BC health care facilities. Rather than one omnibus viral respiratory illness (VRI) outbreak document, the document was split into two and separated for acute care and long-term care. Movement of case definitions and outbreak declaration definitions further up in the guidance. Outbreak definitions were separated by pathogen (i.e. COVID-19, influenza, RSV, and other VRI pathogens). Movement of sections within the documents to improve flow. Some information has been moved to the appendix. Scope of health care facility inclusion clarified. Inclusion of COVID-19 and SARS-CoV-2 information. Removal of duplicated information and referral to the Provincial Infection Prevention and Control Guidance for Viral Respiratory Illness in Acute Care and Ambulatory Health care settings. Updated roles and responsibilities of the Outbreak Management Team. Updated viral respiratory illness definitions and outbreak considerations.

	<ul style="list-style-type: none"> • New recommendation for wearing medical masks in outbreak patient care areas. • Updated recommendations for influenza antiviral prophylaxis for high-risk health care workers. • Updated VRI symptomatic health care worker exclusion information. • Updated outbreak preparedness checklist. • Addition of food handling practices. • Addition of VRI tools and resources.
November 2018	Respiratory Infection Outbreak Guidelines for Health Care Facilities was first published.

Acknowledgement

The guideline was updated in collaboration with the Viral Respiratory Illness Outbreak Working Group. It received review and approval from the BC Ministry of Health, endorsement from the Viral Respiratory Illness Outbreak Working Group and the BC Communicable Disease Policy Committee, and additional review from the Occupational Health and Safety Council and the Provincial Infection Prevention and Control/Workplace Health & Safety COVID-19 Task Group. Further details are provided in [Appendix A: Guideline Approvals and Update Strategy](#).

Abbreviations

ABHR	Alcohol-Based Hand Rub
AGMP	Aerosol Generating Medical Procedure
CAI	Community-Associated Infection
COVID-19	Coronavirus Disease, 2019
GPS	Good Practice Statement
HCW	Health care worker
IPC	Infection prevention and control
MHO	Medical Health Officer
OMT	Outbreak Management Team
PHAC	Public Health Agency of Canada
PHO	Provincial Health Officer
PICNet	Provincial Infection Control Network of British Columbia
PPE	Personal Protective Equipment
SARS-CoV-2	Severe Acute Respiratory Syndrome – Coronavirus-2
VRI	Viral Respiratory Illness
WHS	Workplace Health and Safety/Occupational Health and Safety

Key Terms

Acute care facility: A hospital where lengths of stay average <30 days, and where a variety of services are provided, including surgery and intensive care.

Additional precautions: Interventions implemented for certain pathogens or clinical presentations in addition to routine infection prevention and control practices, to reduce the risk of transmission of microorganisms from patient to patient, patient to health care worker (HCW), and HCW to patient.

Aerosol generating medical procedure (AGMP): Medical procedure(s) that can generate a large volume of very small droplets (aerosols) as a result of artificial manipulation of a person's airway.

Airborne precautions: Interventions to reduce the risk of transmission of microorganisms through airborne droplet nuclei (small particle residue of evaporated droplets containing microorganisms that remain suspended in the air for long periods of time) or dust particles containing the infectious agent. This intervention is one of a number of additional precautions.

Alcohol-based hand rub (ABHR): A liquid, gel, or foam formulation of alcohol (e.g., ethanol, isopropanol) which is used to reduce the number of microorganisms on hands in clinical situations when the hands are not visibly soiled. Optimal strength of ABHRs used in health care settings should be 70% to 90% alcohol.

Case: An epidemiological term for a person in the population or study group identified as having a particular disease, health disorder or condition under investigation. The epidemiologic definition of a case is not necessarily the same as the ordinary clinical definition.

Case definition: A set of diagnostic criteria that must be fulfilled to identify a person as a case for a particular disease. Case definition can be based on clinical and/or laboratory criteria.

Cleaning: The physical removal of foreign material, e.g., dust, soil, organic material such as blood, secretions, excretions, or microorganisms, using mechanical and/or chemical means. Cleaning physically removes rather than kills microorganisms.

Cohort: Two or more patients colonized or infected with or exposed to the same organism that are separated physically, in a room or unit, away from other patients.

Cohorting health care workers: The practice of assigning specified personnel to only care for patients known to be colonized/infected with or exposed to the same organism. Such individuals would not participate in the care of other patients.

Contact precautions: Interventions to reduce the risk of transmission of microorganisms through direct or indirect contact. This intervention is one of a number of additional precautions.

Community-associated infection: An infection likely acquired before a healthcare encounter or accessing health care services, not a healthcare-associated infection.

Diarrhea: The passage of three or more loose or liquid stools per day (or more frequent passage than is normal for the individual).

Drug Identification Number (DIN): In Canada, disinfectants are regulated under the Food and Drugs Act and Regulations. Disinfectants must have a drug identification number (DIN) from Health Canada prior to marketing. This ensures that labeling and supportive data have been provided and that it has been established by the Therapeutic Products Directorate (TPD) that the product is effective and safe for its intended use.

Disinfection: The inactivation of disease-producing microorganisms. Disinfection does not destroy bacterial spores. Disinfection usually involves chemicals, heat, or ultraviolet light.

Droplet and contact precautions: Interventions used, in addition to routine practices, to reduce the risk of transmission of microorganisms via respiratory droplets. Droplet and contact precautions include the use of personal protective equipment (PPE) such as a medical mask, eye protection, gown, and exam gloves whenever an individual is within two metres of the patient. Signage to communicate the level of precautions, cleaning and disinfection, and appropriate room placement are also used. This intervention is one of a number of additional precautions.

Epidemiology: A method used to find the causes of health outcomes and diseases in populations by studying the distribution and determinants of health-related states and events in specified populations and the application of this study to the control of health problems

Epidemiologically-linked: Reasonable evidence of transmission from one or more persons who have/had the infection to others within the unit or facility. Determining epidemiological linkages requires judgement and accounting for likely sources of exposure outside the unit or facility.

Hand hygiene: A process for the removal of soil and transient microorganisms from the hands. Hand hygiene may be accomplished using soap and running water or the use of ABHRs. Hand washing with soap is required whenever hands are visibly soiled.

Health care-associated infection: An infection acquired during the delivery of health care that was not present or incubating at the time of admission. This includes infections in patients as well as health care workers. Also known as a nosocomial infection.

Health care worker (HCW): Individuals providing or supporting health care services. This includes, but is not limited to emergency service providers, physicians, dentists, chiropractors, nurses, podiatrists, respiratory therapists and other allied health professionals, students, support services (e.g., housekeeping, dietary, maintenance, hairdressers), and volunteers.

Hospital-grade disinfectant: A disinfectant that has a drug identification number/natural product number (DIN/NPN) from Health Canada indicating its approval for use in Canadian hospitals.

Infection prevention and control (IPC): Measures practiced by health care workers and others in health care facilities to decrease transmission and acquisition of infectious agents (e.g., hand hygiene, use of personal protective equipment, and cleaning and disinfection). IPC measures include routine practices, and contact, droplet, and airborne precautions.

Infection Prevention and Control Professional (IPCP): A trained and knowledgeable individual who has the primary responsibility for development, implementation, evaluation, and education related to policies, procedures, and practices that impact the prevention of infections in health care settings.

Isolation: The physical separation of infected individuals from those uninfected for the period of communicability of a particular disease.

Line list: A list established to assist and guide an outbreak investigation by documenting and organizing demographic data, clinical risk factors, host, or other contributing factors.

Medical Health Officer (MHO): A medical practitioner with training, knowledge, skills and experience in public health and preventative medicine who is designated to this position, for a geographical area, by the Lieutenant Governor of BC under the Public Health Act. The MHO has responsibilities under the Public Health Act to monitor the health of the population, provide advice and direction on public health issues including health promotion and health protection and their related practices, bylaws, and policies. The MHO also has responsibilities for directing the response to health hazards that threaten public health.

Medical mask: A medical grade face mask that meets ASTM International (or equivalent) performance requirements for bacterial filtration efficiency, particulate filtration efficiency, fluid resistance (synthetic blood), pressure differential, and flame spread. Respirators have differing characteristics from medical mask and are defined below. Medical masks include surgical and procedure masks.

MHO official designate: A person who has specific designated authority and duties of a Medical Health Officer. Designates can be public health professionals or are typically IPC physicians and IPC professionals in health authority operated sites. Official designates advise and direct outbreaks in jointly developed protocols with Public Health.

Outbreak: An increase in the occurrence of cases of infection or disease over what is expected in a defined setting or group in a specified time period; synonym of epidemic but used more often when limiting the geographic area.

Organizational risk assessments (ORA): An assessment done by organizations/institutions to identify and evaluate the risk of exposure to infectious agents in the health care environment and to implement appropriate control measures (e.g., communicable disease safety plan) according to the hierarchy of controls to minimize the risks.

Patient: Any person receiving health care within a health care setting or service. The term is inclusive of patients, clients, and residents.

Patient care area: Any room or area within a health care setting (including a contracted facility), where patients are actively receiving care. This includes waiting rooms and any location where emergency health services are being provided. It does not include locations such as administrative areas or private offices, which are not generally accessed by patients or areas where care is not being provided, such as foyers, hallways, cafeterias, chapels and family rooms.

Personal protective equipment (PPE): Clothing or equipment worn by individuals for protection against hazards such as chemicals, blood, body fluids, and infectious secretions.

Public Health Nurse: Public health nurses care for the physical and mental health needs of the community as a whole. They may work with families in the home, with community groups, in schools, in government agencies and at workplaces.

Respirator: PPE that provides respiratory protection for the wearer to reduce the risk of inhaling airborne particles, including infectious agents by forming a tight seal, protecting the mouth and nose, and filtering out air particles. The device is tested and certified in accordance to established standards by the Canadian Standards Association, Health Canada, National Institute for Occupational Health and Safety or equivalent and approved for use by the health authority or organization. Examples include disposable filtering facepiece respirators such as N95 respirators, as well as elastomeric respirators, and powered air-purifying respirators (PAPRs).

Respiratory droplets: Range of small (aerosols) and large fluid particles that are generated when a person coughs or sneezes or where AGMP is done.

Routine practices: The term used to describe the practices recommended in Canada to be used with all patients to prevent and control transmission of infectious microorganisms in health care settings. These include: point-of-care risk assessment, hand hygiene, respiratory hygiene, patient placement and accommodation, use of PPE, aseptic technique, safe linen and waste handling practices, and equipment cleaning and disinfection.¹

Surveillance: Systematic, ongoing collection, collation, and analysis of health-related information that is communicated in a timely manner to all who need to know.

Viral respiratory illness (VRI): Any new-onset of acute infectious respiratory illness suspected or confirmed to be caused by a viral agent with either upper- or lower-respiratory tract involvement, presenting with symptoms of a new or worsening cough and often fever. Refer to [Section 2](#) of this document for Probable VRI and Confirmed VRI case definitions.

Workplace Health and Safety (WHS): Trained individuals responsible for anticipation, recognition, evaluation, and control of hazards arising in or from the workplace that could impair worker health and well-being. This includes prevention of communicable disease transmission to workers.

1. Introduction

Viral respiratory illnesses (VRIs), such as that caused by influenza, coronavirus, respiratory syncytial virus (RSV), and ‘common cold’ viruses are widespread around the globe. VRIs are most often transmitted across a spectrum of small (aerosols) and large sized respiratory droplets expelled when an infected person coughs or sneezes, and when aerosol generating medical procedures (AGMP) are done.^{2,3} Research on the modes of transmission is ongoing.^{3,4} Multiple factors may influence transmission and infection with VRI (e.g., transmissibility of the virus, enclosed spaces, relative humidity, ventilation, etc.). Viruses in respiratory droplets can **land on the recipient’s eyes, nose, or mouth**, or are inhaled when close to an infected person. Because microorganisms in droplets can often survive on surfaces, infections can also be spread indirectly when people touch contaminated hands, surfaces and objects and then touch their mouth, nose, or eyes.^{5,6}

Infections in healthy individuals are generally mild and self-limiting, but they can lead to severe illness and death, especially in people who are more clinically vulnerable. Several microorganisms cause infectious outbreaks in LTC and inpatient units/facilities (e.g., acute care, mental health inpatient settings). COVID-19 and influenza viruses continue to be an important cause of morbidity and mortality in patients and residents in health care facilities, including immune compromised, frail, and elderly individuals.⁷

Outbreaks of VRI in BC long-term care (LTC) and acute care settings cause significant disruption and harm to patients, residents, and health care workers (HCWs) every year, and carry a high cost, both financial and emotional.⁸ Preventing VRI and outbreaks is a high priority in all settings. VRIs (influenza, coronavirus, RSV, and “common cold” viruses) have similar routes of transmission, which means that measures to prevent and control transmission acute care settings can be highly effective against all of them. Best practices for effective outbreak prevention and management are provided within these guidelines.

1.1 Purpose and Scope

This document provides the infection prevention and control (IPC) guidance for outbreaks of VRIs that are primarily spread through close-range respiratory droplets, in hospital settings with admitted patients (i.e., acute care, rehabilitation, and mental health & substance use inpatient units).

The guidance in these documents is intended to serve as the Provincial guidance document for use by health authority owned, operated and/or funded acute care facilities and other health care organizations for their internal policy/protocol development, as relevant. This guideline should be used in conjunction with the [Provincial Infection Prevention and Control Guidance for Viral Respiratory Illness in Acute Care and Ambulatory Health Care Settings in British Columbia](#). Implementing these guidelines will aid the health care system to detect and contain clusters and outbreaks of common VRIs, and to prevent associated morbidity and mortality.

In the event of emergent threats (e.g., fire, floods etc.), mitigation to address immediate threats to patient, visitor, and HCWs should be prioritized. IPC measures should be re-evaluated and implemented once immediate safety concerns are mitigated.

Although not within the scope of these guidelines, it is important to note that some infections, such as tuberculosis (TB) and emerging pathogens with unknown characteristics, require special consideration and additional control measures. For airborne-spread infections (e.g., measles, tuberculosis), or for emerging pathogens with uncertain modes of transmission, organism-specific guidelines should be followed as laid out by your regional health authority, the BC Centre for Disease Control,⁹ and the Public Health Agency of Canada.¹⁰

Notes:

- Where the term *patient* is used in this document, it also refers to residents or clients.
- Where graded recommendations are included in the guideline, the strength and quality of evidence rating scale found in [Appendix B](#) was used.
- Some recommendations fall within well-known practices that are widely accepted and have been categorized as “Good Practice Statements” (*GPS*).

Further Information/Resources:

- Refer to the [Provincial Infection Prevention and Control Guidance for Viral Respiratory Illness in Acute Care and Ambulatory Health Care Settings in British Columbia](#).
- Refer to [Appendix D: Provincial VRI Outbreak Preparedness Checklist](#) to assist with implementing this guidance.
- Refer to [Appendix E: Common VRI Pathogens](#) for organism-specific information, including incubation and communicability periods.
- Refer to the [BCCDC webpage](#) for VRI data on morbidity and mortality in BC.

2. Viral Respiratory Illness Definitions

Early detection of VRI symptoms, as well as laboratory testing of patients, will facilitate the rapid implementation of effective control measures to limit the spread and duration of an outbreak.

2.1. Probable Viral Respiratory Illness Case Definition

A patient is suspected to have VRI when they have acute onset of signs and symptoms of VRI based on clinical judgement* AND testing results maybe pending.

VRI signs and symptoms including a new or worsening cough with fever** and one or more of the following (not listed in any particular order of significance):

- Shortness of breath
- Runny or stuffy nose (i.e., congestion) or sneezing
- Sore throat or hoarseness or difficulty swallowing

- Other non-specific symptoms can include tiredness, malaise, muscle aches (i.e., myalgia), headache, and nausea, vomiting, or diarrhea (maybe present in some patients, particularly children).

Factors to consider in case investigation include:

- An epidemiological link to the facility;
- An exposure source outside the facility; and
- The interval between exposure(s) and symptom onset.

**Note: Clinical judgement is required to assess probable VRI. Other etiologies including non-infectious causes must be considered and ruled out (e.g., side effect of medication or chronic health conditions).*

*** Fever may or may not be present, particularly in young children, the elderly, the immuno-compromised, or those taking medications such as steroids, Non-Steroidal Anti-Inflammatory Drugs (NSAIDs), or Acetylsalicylic Acid (ASA). A temperature <35.6°C or > 37.4°C in the elderly may be an indication of infection.*

2.2. Confirmed Viral Respiratory Illness Case Definition

A confirmed case of VRI is a patient with:

- Signs and symptoms of acute respiratory infection (as listed above);
AND
- Confirmation of infection with the pathogen causing VRI, (i.e., influenza, SARS-CoV-2, parainfluenza, RSV, adenovirus, rhinovirus, metapneumovirus)* by validated laboratory testing.

Note: Once initial testing has identified the causative agent within a select group of symptomatic patients, further testing of symptomatic patients may be suspended at the discretion of the IPC Medical Director and/or MHO/official designate.

*Further Information/Resources: Refer to [Appendix E: Common VRI outbreak pathogens](#) for organism-specific information, including incubation and communicability periods.

2.3. Health care-Associated Viral Respiratory Illness Case Definition

A patient who:

- Has developed VRI signs and symptoms (as listed above) after the typical incubation period for that illness (e.g., COVID-19 onset >10 days after admission)*;
AND
- Had no known exposure to the VRI outside the facility within the incubation period;
AND
- An epidemiological investigation suggests an infection was more likely to have been acquired in the facility or unit than from outside it.

(E.g., placed in the same room as another patient while the other patient was infectious, direct physical contact with a case or exposure to infectious body fluids.)

Note: Contact local IPC or Public Health team to assist with identification and confirmation of health care-associated VRI cases.

*Further Information/Resources: Refer to [Appendix E: Common VRI pathogens](#) for organism-specific information, including incubation and communicability periods.

2.4. Viral Respiratory Illness Cases/Clusters

Whenever a cluster of VRI cases occurs, it warrants an investigation to determine possibility of epidemiological links, risk for further transmission, and consideration for additional measures. A cluster may involve a high prevalence of community-associated cases in a unit or localized area or possible health care-associated cases where epidemiological links cannot be conclusively determined.

2.4.1. Reporting/Notification

- Each health authority sets thresholds for reporting concerns at facility and/or unit level (e.g., two or more epidemiologically connected cases within 7 days) to their local IPC and/or MHO/official designate. Criteria for these thresholds can vary based on the setting, patient population, and local epidemiology.

2.4.2. Investigation

- Once notified, IPC and/or public health professionals must undertake an investigation and risk assessment.
- The assessment considers multiple risk factors, including clinical vulnerability of patients on affected units, number of cases or the rate of increase in cases, severity of illness, IPC measures that are already in place, vaccination coverage, and availability of effective interventions (e.g., antiviral prophylaxis medication).

2.4.3. Supplementary Infection Prevention and Control Measures

- When a cluster of VRI at a unit or a health care facility is identified but does not meet criteria for an outbreak, organizations can use a phased approach, implementing supplementary IPC measures under the direction of the IPC professional and/or the MHO/official designate to prevent further transmission or escalation to an outbreak. Some of these measures may include those listed in [Section 6](#) of this guidance.
- IPC measures should be applied and adjusted as necessary based on assessed risks and in discussion between the MHO/official designate, IPC and the facility.

3. Declaring a Viral Respiratory Illness Outbreak

- The MHO or their official designate is responsible for the following:
 - declaring an outbreak of VRI within a health care facility;
 - determining the duration of outbreak control measures; and
 - declaring the outbreak over.
- In acute care facilities, the IPC Medical Director (where available) has the authority to declare outbreaks. In settings where there is no IPC Medical Director, the MHO has responsibility and authority to declare outbreaks.
- VRI outbreak surveillance forms should be used for ongoing monitoring of VRI data, including test results for all HCW and patients.

3.1. COVID-19 Outbreak Definition in Acute Care Settings

A COVID-19 outbreak in an acute care facility is declared by the IPC Medical Director and/or the MHO/official designate when the following are met:

- The number of cases exceeds a pre-determined threshold:
 - Three or more epidemiologically linked health care associated cases of confirmed COVID-19 occurring within 7 days in a geographic area (e.g., unit or floor; this may vary depending on facility layout and movement of HCWs and patients). This excludes cases transmitted within the same multi-bedroom;
- OR
- The IPC Medical Director and/or the MHO/official designate determines that there is a need for additional control measures beyond individual case management, based on risk factors in the situation and acute care facility;
- AND
- The occurrence or suspicion of epidemiologically linked cases of confirmed health care-associated COVID-19 within the incubation period;
- AND
- An investigation indicates that transmission most likely occurred within the same unit or facility rather than prior to admission;
- AND
- Additional measures are considered to have a higher overall benefit than harm. Considerations include, but are not limited to, illness severity, patient population, facility or unit layout, attack rates, and social isolation.

3.2. Influenza Outbreak Definition in Acute Care Settings

An influenza outbreak in an acute care facility is declared by the IPC Medical Director and/or the MHO/official designate when the following are met:

- Two or three or more epidemiologically linked health care-associated cases of confirmed influenza occurring within 7 days in a geographic area (e.g., unit or floor)

– may vary depending on facility layout and movement of HCWs and patients). This excludes cases transmitted within the same multi-bedroom;

AND

- The IPC Medical Director and/or the MHO/official designate determines that there is a need for additional control measures beyond individual case management, based on risk factors in the situation and acute care facility;
- AND
- An investigation indicates that transmission most likely occurred within the same unit or facility rather than prior to admission;
- AND
- Additional measures are considered to have a higher overall benefit than harm. Considerations include, but are not limited to, illness severity, patient population, facility/unit layout, attack rates, and social isolation.

3.3. Respiratory Syncytial Virus/Other VRI Pathogens in Acute Care Settings

- Where an organism is unknown or testing indicates other VRI etiologies, an outbreak may be declared at the discretion of the IPC Medical Director where available in acute care and/or the MHO/official designate.
- Consideration should be given to overall harms and benefits of a formal outbreak declaration as well as illness severity, patient population, facility or unit layout, attack rates, etc.

Further Information/Resources:

- Refer to [Appendix E: Common VRI Outbreak Pathogens](#) for organism-specific information, including incubation and communicability periods.
- Refer to [Appendix I](#) for a sample patient case surveillance form and [Appendix J](#) for a sample HCW surveillance form.

4. Specimen Collection and Transport

As part of an investigation into cases or outbreaks, specimens are collected and submitted for testing. The choice of test, frequency of testing and who gets tested will be determined by the IPC Medical Director and/or the MHO/official designate.

- The unit or facility should:
 - Refer to the [BCCDC's viral testing](#), [Laboratory Services](#), and [Laboratory Memos and Communications](#) web pages for information on testing and specimen collection. Alternatively, health care facilities should follow their local health authority or institutional process and procedures for specimen collection, transport, and testing.

- Ensure the outbreak unit/facility has direct communications with the testing laboratory, as well as reporting to the Outbreak Management Team (OMT). Refer to [Section 5](#) for information on the OMT.
- Ensure specimen information and testing results are communicated to the OMT every day for tracking.
- Train unit or facility HCWs on specimen collection, packaging, and transport (e.g., transport of dangerous goods) of clinical specimens.
- Consult with medical microbiology, IPC, and public health if alternative testing strategies are requested.
 - Indicate testing for other pathogens if not already part of outbreak VRI pathogen testing panel (e.g., respiratory syncytial virus [RSV], influenza).
- Once initial testing has identified the causative agent within a select group of symptomatic patients, further testing of symptomatic patients may be suspended at the discretion of the IPC Medical Director and/or the MHO/official designate.
- Testing of asymptomatic individuals is generally not indicated. However, it may be conducted as part of public health investigations at the discretion of the IPC Medical Director and /or the MHO/official designate.
- Repeat testing of laboratory-confirmed cases upon recovery is generally not necessary but may be requested in certain circumstances (e.g., patients who had severe illness requiring hospitalization or who are immune suppressed) by the IPC Medical Director and/or the MHO/official designate, in consultation with medical microbiologist.

5. Viral Respiratory Illness Outbreak Management

- A written process for VRI outbreak management should be available to all HCWs.
 - The process should include membership of the OMT with current names and contact information and be reviewed and updated annually.
- Once an outbreak is declared, the OMT should be mobilized to coordinate the facility's response. Institutions should ensure roles and responsibilities are clearly outlined.

5.1. Roles and Responsibilities during a VRI Outbreak

The [BC Public Health Act](#) and [Community Care and Assisted Living Act](#) define the roles and responsibilities of the Medical Health Officer (MHO) and Public Health in outbreak control.

The remaining roles and responsibilities have been recommended by consensus of the VRI Outbreak Guidelines Working Group with the understanding that in some health authorities or facilities responsibilities may be delegated or shared differently depending upon the facility's location, size, physical setting, contractual status, type of care provided, or availability of resources. Therefore, there may be overlap in the description of roles and responsibilities.¹¹

5.2. Outbreak Management Team (OMT)

Having a multi-disciplinary outbreak management team (OMT) facilitates outbreak prevention and prompt responses to minimize the impact of outbreaks.

- OMT duties at the facility level include:¹¹
 - Supporting outbreak prevention and preparation.
 - Guiding facility level outbreak response by:
 - Reviewing cases in order to determine source of VRI and factors affecting transmission within the facility;
 - Implementing control measures in proportion to the level of transmission;
 - Supporting quality improvement activities such as hand hygiene and PPE assessments;
 - Ensuring staffing requirements for response during the day and after hours are adequate/appropriate; and
 - Informing outbreak related communication.
 - Conducting a debrief exercise after an outbreak is declared over, to identify and communicate lessons learned, and implement any actions.

5.2.1. Outbreak Management Team Membership

Core membership of the OMT can include, but is not limited to, the following:

- Director of care or clinical operations (usually the OMT Lead)
- IPC Medical Director/MHO or their official designate
- IPC professional and/or person responsible for infection prevention and control (IPC) at the site
- IPC physician (e.g., medical microbiologist or infectious diseases specialist)
- Public health/IPC surveillance representative
- Unit/facility medical lead (e.g., physician director or division head/lead)
- Public health professional (public health nurse, environmental health officer, communicable disease representative, or licensing officer)
- Environmental service (housekeeping) manager
- Laundry and food services manager
- Administrative support personnel
- Staffing representative
- Workplace health and safety (WHS) representative
- Patient care coordinator/manager
- Others as needed or as appropriate:
 - Supply chain representative
 - Pharmacist
 - Facilities maintenance and operations representative
 - Communications representative
 - Risk management/client relations representative

Further Information/Resources: Refer to [Appendix C](#) for sample descriptions of OMT member roles and responsibilities.

5.2.2. Outbreak Management Team Responsibilities

- The facility OMT lead, and the IPC Medical Director/MHO or official designate should meet as soon as possible after an outbreak is suspected or confirmed to take the following actions:
 - Review the line listing information to ensure that all members of the team have a common understanding of the situation.
 - Develop a working case definition for this particular outbreak. The signs and symptoms noted in a particular outbreak may be somewhat different from the generic case definition for VRI. Furthermore, the case definition for patients may be different from that developed for HCWs. Patients who meet the working case definition will be considered as 'cases' regardless of the results of laboratory testing unless another diagnosis is confirmed.
 - Plan for the implementation of control measures during an outbreak:
 - Ensure that posters, educational materials, and control measures are available and discussed with HCWs.
 - Discuss the use of additional control measures, such as antiviral prophylaxis (if appropriate), and plan for their implementation (i.e., pre-written orders for antiviral medication).
 - Ensure appropriate and sufficient quantities of PPE and supplies are accessible (i.e., specimen collection kits, ABHR, cleaner/disinfectants, medical masks, gowns, etc.).
 - Determine if additional immunizations are required for non-immunized or under-immunized patients or HCWs, and if so, plan how they will be implemented.
 - Discuss and plan for the need for antivirals.
 - Confirm the plan for the collection and submission of specimens for laboratory testing.
 - Plan a communication strategy to leverage during an outbreak:
 - Identify any additional persons/institutions that require notification of the outbreak, and person responsible for doing so. This may include the facility director of care or operations, any OMT members who are not present at the meeting, the Licensing Program (for settings licensed under the Community Care and Assisted Living Act), facility laboratory services, BC Ambulance, HandyDART, Medigas, etc.
 - Identify facilities or institutions that have, during an outbreak, admitted a patient from the facility up to two days before symptoms started in the first case of the outbreak.

- Determine if additional communication or education is required for patient, family, and HCWs.
- Identify the individual(s) who will be responsible for the ongoing monitoring of the outbreak in both patients and HCWs, and the most efficient and effective method for doing this.
- Identify the individual(s) who will be receiving the laboratory results and how this information will be communicated within the facility.
- Identify the individual(s) who will be communicating with the MHO/official designate on a daily basis and ensure that contact numbers are readily available.
- Identify who will be the media spokesperson (this may be a designated person from the health authority), if needed.
- Decide how frequently the OMT will meet, and to set the next meeting date and time.

5.2.3. Outbreak Management Team Meetings

- OMT meetings should occur daily (or as needed) to discuss operations and issues arising at the facility, including:¹¹
 - Daily review of line lists for patients and HCWs with VRI signs and symptoms, as well as testing results to determine the status of existing cases and any new cases associated with the outbreak.
 - Identification of the first case and source of any ongoing transmission, if possible.
 - Review of implemented outbreak control measures against the level of transmission to determine required mitigation actions.
 - Review of audit results available for the unit, including hand hygiene, environmental cleaning and disinfection, PPE, and other assessments.
 - Daily review of communication requirements related to the outbreak, including messaging for patients, families, HCWs and the general public.
 - Verifying after-hours and weekend requirements (e.g., staff coverage).

5.3. Viral Respiratory Illness Outbreak Preparedness

- To prepare for and respond to a potential VRI outbreak, all facilities should:
 - Ensure a comprehensive VRI outbreak prevention and management plan is in place.
 - Ensure all HCWs, including students, contracted HCW, and volunteers, are familiar with their responsibilities regarding VRI outbreak prevention, detection, and management in the facility.
 - Ensure outbreak tools and resources are accessible to HCWs. This includes outbreak kits and/or appropriate specimen containers and labels, signage, and PPE.

- Maintain an updated membership list of the facility OMT that includes contact information for unit/facility leadership, local IPC, and the most responsible MHO or their designate (e.g., public health professional) at your local health authority.
- Ensure roles and responsibilities of the OMT membership are clearly defined and understood by all.
- Educate and/or conduct a tabletop exercise to discuss outbreak roles and responsibilities and prepare units/facilities for their first VRI case.
- Designate a facility outbreak lead (e.g., facility manager or coordinator) who will provide daily information updates to the OMT and oversee the implementation of control measures.
- Ensure heating, ventilation, and air conditioning (HVAC) systems are properly installed and regularly inspected and maintained according to HVAC standards by the Canadian Standards Association and other building code requirements. When adjustments are needed, it is recommended that HVAC specialists are consulted.

Further Information/Resources:

- Refer to [Appendix D: Provincial VRI Outbreak Preparedness Checklist](#)
- Information on optimizing ventilation resources can be found on the [PICNet webpage](#).

5.4. Viral Respiratory Illness Outbreak Management Communication

- To ensure appropriate and timely communication during a potential VRI outbreak, all facilities should:
 - Follow organizational/institutional processes for reporting the declaration of an outbreak and summary information, periodic updates, and notification of when the outbreak is declared over.¹¹
 - The [British Columbia Public Health Act](#) requires that infectious VRI outbreaks in health care facilities be reported to the MHO and/or designated public health contact (i.e., public health professional, Communicable Disease team).¹²
 - [Post outbreak notification signage](#) at the entrances of all outbreak-affected units, floor, areas, and facility entrances (as needed) advising of the current outbreak and that additional measures are in place.
 - Provide site communication and key messages to all HCWs, patients and families that are communicated by facility leadership, in collaboration with IPC, and/or the MHO/official designate, as applicable. For example, establish a physical or virtual staff communication board with key messages and regular updates.
 - Provide daily outbreak email communication to a site-specific distribution list with relevant details on the status of the outbreak.
 - Provide daily outbreak management (situation report) to the health authority program lead.

- Notify all non-facility and ancillary HCWs, professionals and service providers about the control measures that may affect their provision of services. Assess whether these individuals need to enter the facility or unit during the outbreak.
- Notifications may include, but are not limited to:
 - BC Emergency Health Service
 - HandyDART
 - Health and wellness service providers such as Lab, Medigas, pharmacy, physiotherapy, podiatry, spiritual care, hairdressing, music therapists, volunteers, and paid companions.
 - Support service providers such as environmental cleaning, linen, and meals.

6. General Principles of Infection Prevention and Control

6.1. Immunization

Effective vaccines are widely used and publicly funded in Canada for influenza, COVID-19, and *Streptococcus pneumoniae* (the cause of pneumococcal pneumonia). These are strongly recommended for the reduction of infections, serious respiratory illness, and outbreaks.

- All HCWs, visitors, volunteers, and students are recommended to keep their vaccinations up to date.
- HCWs and staff in health care settings must meet immunization requirements in accordance with Ministry of Health and employer policies, and when directed by a medical health officer.

6.1.1. Influenza Immunization

- Health care settings are encouraged to have pre-printed orders for the administration of influenza vaccine for all patients on admission and on an annual basis.
- Screen patients for contraindications to the vaccine prior to receiving it.^{13,14} (GPS) Unless they have a valid medical contraindication, settings should offer influenza vaccine as soon as it is available.
- Any new admissions during the influenza season (timing may vary and will be determined by the local MHO) should have their immunization status assessed for influenza, and immunization should be provided as required.
- A record of immunization status should be maintained so that it is readily available in the event of a respiratory outbreak. (GPS)

6.1.2. COVID-19 Immunization

- Settings should confirm patient's immunization status on admission, interfacility transfer to an LTC or seniors' AL residence and on an annual basis.
- Settings should offer patient's COVID-19 vaccination as required at the earliest opportunity.
- A record of immunization status should be maintained so that it is readily available in the event of a respiratory outbreak. (GPS)

6.1.3. Pneumococcal Immunization

Streptococcus pneumoniae is the causative bacterium of pneumococcal infections and is an important contributor to morbidity and mortality associated with influenza complications. Pneumococcal vaccines for adults are given once. Therefore, ensuring that eligible people receive their free pneumococcal vaccine will ensure they are protected.^{15,16}

- The 20 – valent pneumococcal conjugate vaccine (PCV 20) is recommended for and provided free to people who are at high risk of getting serious complications from pneumococcal infection including adults 65 years of age and older, children 2-59 months of age, and people who are at increased risk of invasive pneumococcal disease due to certain medical conditions.
- Health care settings are encouraged to develop processes for obtaining pre-printed orders for pneumococcal immunization for patients on admission to complex care settings.¹⁷
- Assessment of eligibility for pneumococcal immunization should be part of yearly immunization clinics for all health care settings.

Further Information/Resources:

- Information about vaccines for influenza, COVID-19 can be found in [Appendix M](#).
- Refer to Part 4 of the [BC Immunization Manual](#) and the [BCCDC website](#) for additional information on pneumococcal vaccines.¹⁸

6.2. Routine Practices

Routine Practices are fundamental to preventing transmission of microorganisms among patients and HCWs in all health care settings.

Further Information/Resources information on Routine Practices that are especially important for control of respiratory infections including point-of-care risk assessment (PCRA), appropriate use of personal protective equipment (PPE), hand hygiene, respiratory hygiene, cleaning and disinfection, refer to the [Provincial Infection Prevention and Control Guidance for Viral Respiratory Illness in Acute Care and Ambulatory Health Care Settings in British Columbia](#).

6.3. Risk Reduction Strategies

Risk reduction strategies include: patient screening, use of personal protective equipment (PPE), environmental cleaning, proper disinfection and sterilization of reusable equipment or use of “single use” only equipment, appropriate waste management and safe sharps handling, appropriate patient placement, preventative workplace practices such as HCWs immunization policies and engineering measure such as airborne infection isolation rooms (i.e., negative pressure rooms), and HCW screening or self-monitoring.¹⁹

Additional measures may be recommended by the IPC Medical Director/MHO or their official designate.

Further Information/Resources:

- Refer to [Appendix F](#), which provides links to a variety of provincial tools and resources for VRI and general IPC practices to facilitate risk reduction strategies. These tools and resources may be used or adapted based on current context or specific settings where they are being applied.
- Refer to [Appendix M](#) for additional pathogen specific information including epidemiology, immunization, and treatment.

6.3.1. Education for Health Care Workers, Staff, Patients, and Visitors

- All HCWs and volunteers require general education on health authority or organizational policies, which includes information regarding the principles of infection prevention and control such as routine practices and additional precautions. Yearly review of all infection control principles enhances good practices.¹⁹ (GPS)
- Additionally, HCWs should:
 - Educate patients about hand and respiratory hygiene. If the patient has an infection, include practices necessary to reduce the risk of spread. (GPS)
 - Educate families, visitors and volunteers on respiratory and hand hygiene and any other situationally appropriate practices. (GPS)
 - Provide demonstrations or illustrated visuals, especially where language barriers exist.

6.3.2. Food Handling Practices

- Food service providers and delivery staff must follow food safety requirements, including hand hygiene, when preparing, delivering, and picking up meal trays.
- Additionally, food delivery staff should not enter patient rooms in VRI cohort or outbreak units.
- Food delivery staff should notify the care team when leaving meal trays outside of affected rooms or outbreak unit. Disposable dishes are not required.

- To minimize the transmission risk of microorganisms, open or shared food items (e.g., candy, cookies, chocolates, nuts, fruit) should not be kept in patient care areas, staff lounges, or staffing workspaces including the care team/nursing station.
- HCWs must follow organizational workplace policies for food consumption in clinical and patient care areas.

6.4. Additional Precautions

Additional precautions are used in addition to routine practices when an infection with a specific mode of transmission is suspected or confirmed.¹⁹ These are specific and extra measures required in conjunction with routine practices to prevent transmission. Generally, the most common viral respiratory illnesses require droplet and contact precautions.

- Droplet and contact precautions should be implemented for cases of probable and confirmed VRI.
- Additional precautions signage should be placed at the outside entrance of the patient room and at the bedside in multi-bedrooms. Use precaution signs from your organization or precaution signs available on the [PICNet website](#).
- HCWs should follow their institutional IPC processes for implementing additional precautions.
- HCWs should engage and communicate with patients, families, and care providers to help them understand the nature of the infection and the precautions being used, as well as the prevention of transmission of disease to others during their stay in the facility and upon their return to the community.
- Ensure that HCWs have quick and easy access to PPE and cleaning/disinfecting products required when providing care. (GPS)

Note: In outbreak situations, additional precautions may differ based on causative organism and severity of illness. They may need to be modified in consultation with the IPC Medical Director/MHO or their official designate on an ongoing basis as the outbreak progresses.

Further Information/Resources:

- Refer to [Appendix H](#): Droplet and Contact Precautions Quick Reference Guide.
- Refer to the [PICNet website](#) for up-to-date posters and signage.

6.4.1. Personal Protective Equipment for Droplet and Contact Precautions

- HCWs must follow their institutional/health authority guidelines for PPE and use PPE that is approved and endorsed by their organization.
- In addition to the recommended PPE, HCW must do a PCRA to determine additional PPE or IPC measures.

Further Information/Resources:

- Refer to PPE recommendations in the [Provincial Infection Prevention and Control Guidance for Viral Respiratory Illness in Acute Care and Ambulatory Health Care Settings in British Columbia](#) and to [Appendix F](#) for additional provincial PPE resources.
- Refer to the [AGMP guidance on the PICNet website](#) for information and examples of AGMPs and/or your local health authority guidance.

6.4.2. Single Room, Spatial, and Barrier Separation

Single rooms can facilitate IPC activities and increase privacy. However, the number of single rooms in some health care settings is limited and some patient rooms and bathrooms are shared. Critical care areas are frequently large open units or are divided into cubicles without doors. Waiting areas (e.g., emergency departments) are often crowded which facilitates ill patients to be in close proximity with other people for long periods of time.

- Where possible and in consultation with IPC, place any patient with suspected or confirmed VRI in a single room with a private toilet and sink for hand washing.
- Encourage patients who meet the case definition for a VRI to remain in their room until they are no longer considered to be infectious, or in the case of an outbreak, the date determined by the IPC Medical Director/MHO or their official designate.
- Arrange meal tray service for patients placed on additional precautions.
- When a patient with a VRI must remain in a common area or must share a room with others, ensure that there is a distance of at least two metres from other patients, physical barriers (e.g., privacy curtain, screens) are maintained, and roommate(s) and essential visitors are aware of precautions to follow.
- In acute care facilities, consideration should be given to ensuring that roommate(s) are not at high risk of serious disease if transmission occurs and are able to comply with precautions. This is not generally possible in LTC care facilities where patients' rooms are their homes. (GPS)
- If a patient meeting the definition for a VRI needs to remain in a common area of the facility, they should be encouraged, instructed and assisted to don a medical mask to reduce the likelihood of transmission of the infection to others.²⁰⁻²² (*Category BII*)
 - If unable to tolerate a medical mask (e.g. children, people who have difficulties breathing under the mask, people with dementia or other mental health conditions), ill individuals should be asked to remain in a separate area or at least two metres away from others.^{19,23}
- It should be noted that the isolation of patients, even for a few days, could have adverse effects on the **individual's physical and emotional** well-being, especially those with mental illness or dementia.²⁴⁻²⁷ HCWs need to make efforts not to socially isolate these individuals. Implement strategies designed to diminish the negative impact and protect the patient such as:
 - One to one supervision of meals for those who have difficulty swallowing.

- Monitoring of patients to ensure adequate nutritional and fluid intake.
- Increasing frequency of rounds to provide oral fluids for patients.
- Planned one to one (or room to room) interactions, with priority given to those who have cognitive issues.
- Physiotherapy or other rehabilitative therapy should continue if the individual is well enough.
- Supported mobilization in partnership with local IPC team and in compliance with IPC measures that may be advised for some individuals based on their risks.
- Maintain physical distancing from others.
- In acute care facilities, consideration should be given to ensuring that roommate(s) are not at high risk of serious disease if transmission occurs and are able to comply with precautions. *(GPS)*

6.4.3. Cohorting of Patients and Health Care Workers

“Cohorting” refers to the grouping together of individuals suspected or confirmed to have an infection with the same pathogen within a specific area to limit the direct or indirect contact between infected individuals and non-infected individuals, to decrease opportunities for transmission of infectious agents.

- Decisions regarding patient cohorting should be made in consultation with the facility director/administrator, the IPC Medical Director/MHO or their official designate, and the patient care leader.
- Patients known to be infected with the same organism (identified by diagnostic testing) may be grouped together, if possible.
- When patients are cohorted, maintain a physical separation of two metres between the beds of patients and all roommates. Keep the privacy curtain or screen drawn between patients.
- Where possible, assign dedicated HCWs to work in either affected or unaffected areas of a facility but not both, or either with ill or with well patients but not both.
- If this is not possible, HCWs should begin working in unaffected areas or with well patients first, and hand hygiene performed between patients.
- Minimize movement of HCWs, students, or volunteers between floors, especially if some areas are unaffected. *(GPS)*

6.5. Medical Masks for Source Control

Respiratory source control is practiced by containing a person’s respiratory droplets through respiratory hygiene or the use of a medical mask.

- During a VRI outbreak, medical masks are recommended to be worn at all times by HCWs, visitors, and families when present in patient care or common areas of the unit.
- Additional considerations for continuous use of medical masks may also be recommended at the discretion of IPC Medical Director MHO or official designate.

- HCWs must adhere to additional provincial and health authority policies and/or applicable public health orders/guidance for indications when medical masks are required or recommended.

Further Information/Resources, refer to the following:

- [BC Influenza Prevention Policy](#)²⁸
- [BC Ministry of Health policy communiqué: Infection Prevention and Control Measures for Preventing Viral Respiratory Illness](#)

6.6. Group Activity Restrictions

- The OMT should find a balance between restricting activities to control the spread of infection, and providing therapeutic opportunities for ambulation, physical, and social activities.
- In addition to restricting ill/symptomatic patients to their room, as much as possible, if cases are restricted to one unit, all patients from that unit should avoid contact with those from the remainder of the facility.
- Previously scheduled events (e.g., holiday communal events), may need to be rescheduled.
- Social activities may require restriction within each respective affected unit.
 - This may include suspending group activities within the affected unit or facility, including group meals, and potentially limiting access to common areas on the outbreak unit(s) to HCWs only.
- Hand hygiene should be performed by all patients before and after any social activity and respiratory hygiene should be reinforced. (*Category C11*)
- The OMT should discuss restriction of activities with the IPC Medical Director/MHO or their official designate, and this issue should be re-examined as the outbreak progresses. (*Category C11*)

6.7. Visitor Considerations

- Follow local and provincial visitor guidance and additional measures.
- In the event of an outbreak, the unit or facility may implement partial or full restrictions on visits/visitation under guidance and direction from the IPC Medical Director and/or the MHO/official designate to manage traffic into and out of the unit/facility.
- In general, a complete closure of the facility to all visitors/volunteers should only be done in consultation with the IPC Medical Director/MHO or official designate and with careful consideration of the risks/benefits to all patients. (*Category C11*)
- When or if visitor restrictions are put in place:
 - Provide timely, engaged communications to families, caregivers, and visitors, as the outbreak progresses, taking into account language barriers that may exist.

- Provide a rationale for the visitor restrictions currently in place and advising on the potential risk of acquiring infections within the facility, and of re-introducing infections into the facility.
- Provide timely and regular updates to improve the patient and visitor experience and prevent misunderstandings during an outbreak.
- A thoughtful assessment to continue and include the provision of essential visitor services (e.g., family members and caregivers who provide direct care and/or impact patient quality of life) should be considered.
- All visitors, family members, community and professional groups who carry on activities within the health care setting should self-screen based on the signage posted and postpone or reschedule visits if symptomatic. (*GPS*)
- Symptomatic or ill visitors should not visit.
- Symptomatic designated visitors, who are essential for the patient's wellbeing or are part of the care team (e.g., parent/guardian of small children), may visit after consultation with the care team.
 - Additionally, consideration may be given to visits for compassionate reasons.
 - The OMT should ensure a process is in place to support these visits.
- In addition, during an influenza outbreak, visitors who have not been immunized against influenza should be encouraged to postpone visits.
- Visitors who choose to visit during an outbreak should be required to:
 - Perform hand hygiene on arrival and immediately prior to leaving the patient room.
 - Visit only one patient and exit the facility immediately after the visit.
 - Follow IPC measures as directed by HCW staff.
 - Follow respiratory hygiene.
- Hand-washing facilities and/or hand hygiene products should be made available throughout the health care setting for use by all persons entering and exiting. (*GPS*)

Note: Generally, symptom or test-based screening of asymptomatic visitors for VRIs is not an essential component of prevention or outbreak control. There may be exceptions based on IPC Medical Director and/or the MHO/official designate direction and/or provincial policy.

Further information/Resources: Refer to [Appendix F](#) for facility entrance posters with IPC and passive screening recommendations for families and visitors.

6.8. Close Contact Management

- Patients deemed to be close contacts of a confirmed case should be monitored for symptom development and may be placed on droplet and contact precautions if advised by IPC, MHO or their official designate.
- Consult with IPC Medical Director/MHO or their official designate for determining who the close contacts are and duration of additional precautions (if applicable) based on the suspected or confirmed causative agent.

6.9. Admissions and Transfers

Restricting admissions to a facility experiencing an outbreak may unnecessarily have the potential of creating a backlog in other acute care units/facilities, emergency departments or other community settings; on the other hand, admitting persons who are susceptible into an outbreak situation poses a risk to their health and has the potential to prolong the outbreak. Restrictions may also be harmful to patients accessing care or prolonging their stay. Therefore, it is always valuable to carefully evaluate the breadth and length of any admission restrictions.

Depending upon the infecting microorganism, the severity of illness, the extent of the outbreak and the physical layout of the building, the admission restriction might not be applied or may be applied to one floor, one wing, or the entire facility. These decisions need to be made by the OMT in consultation with the IPC Medical Director/MHO or their official designate.

6.9.1. Admission and/or Transfers during an Outbreak

New admissions or transfers to an acute care unit with a VRI outbreak can pose a risk to the individual patient as well as pose a risk of prolonging the outbreak.

- New admissions or transfers may be considered on a case-by-case basis in consultation with the IPC Medical Director and/or the MHO/official designate during an outbreak. Considerations include:
 - The current status of the outbreak and its management (e.g., attack rate, severity of illness, length of time since the last case).
 - Whether the patient would return to an area of the facility that is currently experiencing an outbreak.
 - The degree of protection for the patient offered by immunization and/or prophylactic antivirals for influenza.
 - Whether the patient/substitute decision maker and referring/receiving physician are aware of the outbreak and are agreeable to the move.
 - The overall benefit vs. risk to the health of the transferring patient considering an immediate vs. delayed placement in the appropriate unit/facility.
- Re-admission of a patient who had been assessed as a clinical case of the outbreak illness prior to their transfer/discharge may be considered and discussed with the IPC Medical Director/MHO or their official designate, as long as appropriate accommodations and care can be provided (it is assumed that the person is now immune to the pathogen causing the outbreak).
- Transfers for non-urgent medical appointments from a unit experiencing an outbreak should be re-scheduled.
- Medically necessary transfers (e.g., patients requiring a higher level of care or for medically necessary appointments or treatments) should not be delayed and should be undertaken with appropriate precautions.

- When transfers are medically necessary, the sending facility should notify the receiving unit/facility and transporting personnel of the outbreak status and if the patient is on additional precautions to ensure that care can be provided safely.

6.9.2. Transport to Another Facility/Department

- Where transfers are medically necessary, the receiving facility/unit, diagnostic service or transport personnel must be notified of the outbreak status and if the patient is on any additional precautions to ensure precautions are taken for care to be provided safely.
- For patients with suspected or confirmed VRI, a medical mask should be worn during transport, as tolerated.
- Precautions should be maintained during transport to minimize risk of transmission to others and contamination of environmental surfaces or objects.
- Those responsible for transporting the patient should apply additional precautions as required.

6.10. Health Care Worker Exposure and Illness

- Ensure that all HCWs have sound knowledge of the precautions and PPE required and know how to put on and take off PPE correctly to avoid exposure. (*GPS*)
- Until the outbreak is declared over, HCWs working in the outbreak area, should generally not work in non-outbreak areas or facilities, adhere to IPC and WHS safety measures in place, and follow direction and advice from IPC Medical Director/MHO or official designate.²⁹ Where this may jeopardize staffing levels, consult with the IPC Medical Director/MHO or official designate. (*Category C11*)

Further Information/Resources: Refer to the [Provincial Guidance on Return to Work and Exposure Management for Health Care Workers with Viral Respiratory Illness](#) for information on management of HCWs with suspected or confirmed VRI and following close contact exposures.

6.11. Ongoing Surveillance of Patients and Health Care Workers

- An updated report with new cases of both patients and HCWs should be created by the facility or unit manager or IPC professional and sent to the OMT on a regular basis.

Further information, please refer to the following:

- [Appendix I](#): provides an example form for patient surveillance.
- [Appendix J](#): provides an example form for HCW surveillance.
- [Appendix K](#): provides an example of a daily update outbreak report for OMT.

7. Enhanced Environmental Cleaning and Disinfection

- To ensure effective environmental cleaning and disinfection of the unit or facility during an outbreak, facilities should:
 - Notify Environmental Services (i.e., housekeeping) of the outbreak status and the need for enhanced outbreak environmental cleaning and disinfection measures;
 - Ensure enhanced environmental cleaning and disinfection takes place during an outbreak using dedicated housekeeping cart/supplies for the outbreak unit. This may require more staff or extra shifts to ensure environmental service workers are on site to respond when required;
 - Ensure frequent cleaning and disinfection of high-touch surfaces and items (e.g., handrails, elevator buttons, phones, door handles, light switches, remotes, etc.), server and dining room areas and the safe handling of waste (e.g., tissues) throughout the facility during the outbreak;
 - Increased frequency of cleaning and disinfection of high touch surfaces is an important contribution to controlling the spread of microorganisms during a VRI outbreak. Surfaces that are considered to be “high touch” include:
 - Bed rails
 - Call bell cords
 - TV remotes and overhead ceiling handles
 - Institutional telephones
 - Bathroom surfaces (taps, toilet handle)
 - Doorknobs, light switches
 - Handrails in rooms and hallways
 - Elevator buttons
 - Tables, counter tops
 - Nourishment areas (fridges, ice machines, cupboard handles)
 - **Nurse’s station**
 - Ensure cleaning and disinfectant supplies are readily available on the unit close to point of use;
 - De-clutter the outbreak unit/facility to ensure all surfaces (e.g., floors, bathrooms) can be appropriately cleaned and disinfected; and
 - Notify Environmental Services to do additional precautions discharge clean and disinfection for patient rooms when additional precautions are being discontinued.

Further Information: Refer [to Appendix F](#) for provincial environmental service provider resources.

8. Problem Solving for Prolonged Outbreaks

The incubation period for respiratory viral illness varies, as does the timeline for assessing when outbreak measures are successful or not. For example, the incubation period for influenza is one to four days. Therefore, in an influenza outbreak, it is expected that after a few days (four to five days) of outbreak control measures, the number of new cases should diminish.

- If new cases continue to appear after implementation of outbreak control measures and beyond expected timelines (i.e., incubation period of the causative agents), the OMT in consultation with IPC Medical Director/MHO or official designate with IPC team should evaluate the existing control measures and other causes for new VRI cases.
- Assessment examples may include, but are not limited, to the following:
 - Has anyone with a cough been moving around the facility without a medical mask, and/or without performing appropriate hand hygiene?
 - Is any equipment being used for sick and well patients without being cleaned and disinfected between uses?
 - Is PPE being changed between providing care to sick patients and those that are well?
 - Are there any lapses in hand hygiene?
 - Are all hand hygiene stations well stocked with soap or alcohol-based hand rub, and are new refills of products easily to locate by all HCW, volunteers and visitors?
 - Is the appropriate PPE available and being properly worn by HCWs?
 - Is there adequate ventilation?
 - Is cohorting of HCWs and/or patients in place?
 - Has there been additional testing to see if there is another respiratory virus contributing to the outbreak? Have more recent outbreak specimens been screened for the possible emergence of new strains associated with immune escape?
 - If influenza is involved in the outbreak and the above do not explain ongoing illness:
 - Are all patients immunized against influenza and taking antiviral medication, if appropriate?
 - Are all HCW, including physicians and volunteers, either immunized against influenza or have they taken an antiviral medication?
 - Have patients/HCW taking antiviral medication been appropriately screened for symptoms to ensure the proper treatment versus prophylactic dose of antiviral is being used (under-dosing may lead to the emergence of antiviral resistant strains)?
 - Have more recent outbreak specimens been screened for the possible emergence of antiviral resistance mutations in the virus?

9. Declaring the Outbreak Over in Acute Care Settings

The IPC Medical Director/MHO or their official designate is responsible for declaring an outbreak of VRI over within a health care facility.¹²

- Generally, the IPC Medical Director/MHO or official designate will suspend outbreak control measures when two incubation periods (based on the suspected/confirmed causative agent) have passed without transmission, from the last case identified.
- The lifting of outbreak control measures sooner or later than the two incubation periods is at the discretion of the IPC Medical Director/MHO or their official designate.
- The length of time from the onset of symptoms of the last case until outbreak control measures can be lifted may vary and is dependent on a number of factors including:
 - The incubation period of the causative agent,
 - Whether the last case was a patient or HCW,
 - The adequacy of ongoing surveillance for new cases at the outbreak unit/facility, and
 - The epidemic curve of the outbreak.

9.1. Once the Outbreak Has Been Declared Over

- Provide notification of the end of the outbreak to all parties who were notified of the outbreak (and others as appropriate).
- Remove any signage related specifically to the outbreak.
- Re-stock any supplies depleted during the outbreak (e.g., replacement viral specimen kits).
- Remain alert for possible new cases in HCWs and patients.
- Restore patient flow patterns for discharge and transfer.
- Resume routine visitation and group activity practices on the unit.
- Compile a summary of the outbreak and send it to OMT. An example of an outbreak summary form is provided in [Appendix L](#).
- Conduct a debrief with the OMT to discuss and document lessons learned.

9.2. Debrief of Lessons Learned

- It is strongly recommended that the OMT schedule a debriefing session as soon as feasible following the conclusion of an outbreak. (*GPS*)
- The purpose of the debriefing session is to evaluate how the outbreak management process unfolded and identify interventions that worked well and opportunities for improvement, and take corrective actions as needed. Examples of opportunities for improvement are:
 - Communication within OMT, visitors, families, HCWs, service providers, and others;
 - Timeliness in recognizing and reporting outbreak;
 - Timeliness in implementing control measures; and
 - Effectiveness of control measures in limiting the outbreak.

Appendix A: Guideline Approvals and Update Strategy

Acknowledgements

Provincial Infection Control Network of BC (PICNet) would like to acknowledge and thank the following individuals for their contributions to this document:

Viral Respiratory Illness Outbreak Guidelines Revisions Working Group (*Listed by alphabetical order*)

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Ourania Chrisgian, Family Caregivers of BC Volunteer, who reviewed and provided input from a patient, family, and visitor perspective.

Contributors to Review and Approvals

The following committees, organizations and working groups provided either review and/or approval of the Provincial Outbreak Guideline for Viral Respiratory Illness in Acute Care settings in BC (2024):

Reviewed and approved by:	Date
BC Ministry of Health	April 13, 2026
Reviewed and endorsed by:	Date
Viral Respiratory Illness Outbreak Working Group	January 17, 2024
BC Communicable Disease Policy Committee	February 13, 2024
Reviewed by:	
Occupational Health and Safety Council	
Provincial Infection Prevention and Control/Workplace Health & Safety COVID-19 Working Group	

Guideline Update Strategy

In June 2022, PICNet and Public Health organized a working group of IPC, Workplace Health and Safety (WHS), and Public Health professionals with the goal of producing of an updated VRI outbreak guideline that unified guidance from the 2018 Respiratory Illness Outbreak version of this document and provincial guidelines developed for COVID-19.

In 2022, PICNet team members reviewed current guidance for COVID-19, which has been reviewed and updated through the pandemic frequently into 2022 to address new research, vaccines, variants of concern, and therapeutics. An environmental scan of the influenza and COVID-19 guidance in other jurisdictions was performed and reviewed by the Working Group. Updates considered by the Working Group included:

1. Appropriate definitions for VRI cases, clusters, and outbreaks.
2. Review and incorporation of current tools, resource materials, and organism-specific guidance.
3. New provincial practice resources such as AGMP, personal protective equipment (PPE) recommendations, and the use of respirators (e.g., N95 or equivalent).
4. Collective learnings and practice recommendations from the COVID-19 pandemic regarding outbreak prevention and management.

In October 2023, a focus group led by PICNet with regional IPC Medical and Operational Directors, provided recommendations for COVID-19 and Influenza outbreak definitions in acute care settings.

In January 2026, minor revisions were made for alignment with the BC Ministry of Health Policy Communiqué: Infection Prevention and Control Measures for Preventing Viral Respiratory Illness, issued on November 27, 2025. The revisions were reviewed and feedback obtained from the Provincial Infection Prevention and Control/Workplace Health & Safety COVID-19 Working Group and the BCCDC Communicable Diseases Medical Health Officer Group.

Where graded recommendations are included in the guideline, the strength and quality of evidence rating scale in [Appendix B](#) was used.

Some recommendations fall within well-known practices that are widely accepted and have been categorized as “Good Practice Statements” (GPS)

Appendix B: Rating Scale for Strength and Quality of Evidence

Where graded recommendations are included in the guideline; the following evidence rating scale was used.

Grade of Evidence		
Strength of Evidence	Grades	
Strong	A1	Direct evidence from meta-analysis or multiple strong design studies of high quality, with consistency of results
	A11	Direct evidence from multiple strong design studies of medium quality with consistency of results OR At least one strong design study with support from multiple moderate design studies of high quality, with consistency of results OR At least one strong design study of medium quality with support from extrapolation from multiple strong-design studies of high quality, with consistency of results
Moderate	B1	Direct evidence from multiple moderate design studies of high quality with consistency of results OR Extrapolation from multiple strong design studies of high quality, with consistency of results
	B11	Direct evidence from any combination of strong or moderate design studies of high/medium quality, with a clear trend but some inconsistency of results OR Extrapolation from multiple strong design studies of medium quality or moderate design studies of high/medium quality, with consistency of results OR One strong design study with support from multiple weak design studies of high/medium quality with consistency of results
Weak	C1	Direct evidence from multiple weak design studies of high/medium quality, with consistency of results OR Extrapolation from any combination of strong/moderate design studies of high/medium quality, with inconsistency of results
	C11	Studies of low quality regardless of study design OR Contradictory results regardless of study design OR Case series/case reports OR Expert opinion

Source: Public Health Agency of Canada: Critical Appraisal Toolkit

Appendix C: Outbreak Management Team Roles and Responsibilities

General descriptions of the typical roles for the members of the OMT are included here for information. Follow organizational guidance as roles may vary for organizations of different sizes and in different settings.

Director of care or clinical Operations

The Director of Clinical Operations/Care works collaboratively with MHO or their official designate, as well as IPC and WHS, to ensure that all preparations for an outbreak are complete and that HCW are familiar with outbreak prevention and control processes.

When an outbreak is declared, the Director creates and coordinates the OMT, organizes meetings and manages meeting information, ensures that the processes are maintained until the outbreak is declared over, and communicates with HCWs, senior management, patients, families, and others as needed.

Medical Health Officer (MHO)

The MHO has legislative authority and responsibility, according to the Public Health Act, to control the outbreak.¹² The MHO may delegate full or parts of outbreak management responsibility to other health care professionals (e.g., IPC physicians, IPC Professionals, Public Health Professionals) with jointly developed protocols. Even when such protocols are in place, the authority of the MHO remains in place.

The MHO or their official designate provides direction and consultation to the OMT concerning outbreak declaration, control measures, and declaring the outbreak over.

Infection prevention and control (IPC) Professional

- The IPC professional supports facilities with preventive measures and pre-outbreak preparation, including ensuring that HCWs have access to training and are familiar with routine practices, point-of-care risk assessments, additional precautions, and current outbreak management protocols.
- IPC professionals provide education, support, and consultation prior to and during an outbreak to ensure control strategies are initiated promptly and properly, starting before the causative agent is confirmed, and recommend additional outbreak measures to the OMT as needed.
- Additionally, IPC professionals facilitate and/or support the assessment of HCW PPE and hand hygiene compliance as appropriate.

Infection prevention and control physician (IPC physician)

- IPC physicians (e.g., medical microbiologists or infectious disease specialists) provide advice on IPC measures and appropriate laboratory specimens to facilitate diagnostics (in conjunction with BCCDC Public Health Laboratory or local lab services).
- IPC Physicians consult and provide direction to HCW and leaders in outbreak pre-planning, management of clusters and exposures, and the decision to declare an outbreak.
- In some health authorities, the IPC physician may serve the functions of the MHO as an official designate in declaring outbreaks, advising, and directing outbreak response measures, and declaring outbreaks over for acute care and health authority operated facilities.

Epidemiologist (Public health/IPC Surveillance representative)

Epidemiologists track data, including master line lists of HCWs and patient cases with lab tests and illness resolution, and analyze and report outbreak data to the OMT to support evidence-based decision-making.

Unit/facility medical lead (e.g., physician director or division head/lead for the unit in acute care sites)

The medical lead for a unit or facility in outbreak communicates with receiving facility HCWs, regarding patient transfers. The medical lead ensures medical interventions are implemented to prevent and control outbreaks (e.g., vaccination and standing orders for anti-viral medications, diagnostic testing) and communicates with patients and families.

Public health professional

The public health professional (e.g., public health nurses, environmental health officers, licensing officers) consults with the MHO, workplace health, medical director, administrators, IPC and Nursing HCWs concerning outbreak declaration, control measures and declaring the end of an outbreak.

Workplace health and safety (WHS) representative

- WHS promotes and provides instruction on how to obtain influenza, COVID-19 and other VRI immunizations for HCWs as applicable.
- Develops, reviews, and updates internal protocols for management of HCWs during an outbreak as necessary.
- Maintains documentation on HCW health and vaccine status and identifies HCW who may be at higher risk (e.g., unimmunized).
- Maintains close communication with Frontline Unit/Site Manager with respect to HCW work restrictions/return to work assessments as applicable.
- Provides consultation on PPE breaches as appropriate.
- Provides support for WHS concerns.

Provincial Workplace Health Contact Centre

- Maintains documentation on HCW vaccine status for health authority employees.
- May provide health authority employee general guidance on work restrictions depending on the disease pathogen and refers to local Health Authority VRI protocols.
- For diseases considered compensable by WSBC, takes employee incident reports and files employer reports to initiate WSBC claims process for employees who have acquired disease in the workplace.

Administrative Support personnel

The administrative support professional is responsible for meeting minutes and keeping track of action items for the OMT.

Environmental (housekeeping) services manager

The environmental services manager assists in outbreak management by ensuring additional resources such as personnel, supplies, enhanced cleaning, etc. are available.

Supply Chain Representative

Supply chain ensures uninterrupted supply of essential materials during outbreak (e.g., PPE, environmental cleaning supplies).

Staffing Representative

Staffing provides support for staffing needs in the outbreak facility.

Communications Representative

Communications develops and distributes appropriate public announcements with guidance from the MHO/Medical Microbiologist and OMT.

Pharmacist

A pharmacy representative may be involved in outbreak response, depending on the nature of the outbreak and the need for anti-viral treatment.

Facility Maintenance and Operations (FMO) Representative

FMO supports outbreak measures through engineering control interventions such as optimizing HVAC systems and ventilation interventions, installation of physical barriers, and mounting hand hygiene products.

Laboratory Services Representative

Laboratory personnel support additional laboratory testing such as patient or HCW point prevalence as needed.

Appendix D: Provincial Viral Respiratory Illness Outbreak Management Preparedness Checklist

Note: The checklist below includes some strategies for the prevention of VRI transmission in health care facilities. Not all strategies are applicable to all types of facilities or settings.

Provincial Viral Respiratory Illness Outbreak Management Preparedness Checklist
Administrative Measures
<p>Institutions and organizations are responsible to:</p> <ul style="list-style-type: none"><input type="checkbox"/> Develop a contingency plan for HCW illness and shortages;<input type="checkbox"/> Educate all HCW about self-screening and monitoring for identifying VRI signs and symptoms, and staying away from work when sick;<input type="checkbox"/> Have processes in place to monitor patients for VRI signs and symptoms and place on additional precautions as needed;<input type="checkbox"/> Provide HCW IPC education (e.g., hand hygiene, PCRA, PPE donning and doffing, additional precautions);<input type="checkbox"/> Ensure PPE, cleaning and disinfection supplies, and hand hygiene products are readily available.<input type="checkbox"/> Ensure PPE donning and doffing instructions are readily available for HCWs.<input type="checkbox"/> Where respirators (e.g., N95 respirator or equivalent) are worn or anticipated being used, provide fit testing to ensure appropriate size and style of respirator is selected and worn. Provide education on respirator donning and doffing procedures;<input type="checkbox"/> Assess HCW hand hygiene and PPE (e.g., PPE audit tool) adherence; and<input type="checkbox"/> Environmental and equipment cleaning and disinfection:<ul style="list-style-type: none"><input type="checkbox"/> Ensure there is assigned responsibility and availability of procedures for cleaning and disinfection.<input type="checkbox"/> Provide education and monitoring for environmental cleaning and disinfection as needed.<input type="checkbox"/> Ensure there are processes and procedures for separating used/dirty equipment from clean equipment.<input type="checkbox"/> Dedicate reusable equipment to patients on additional precautions, as much as possible. If reusable equipment is shared, it must be cleaned and disinfected with a hospital-grade disinfectant after each use.
Personal Measures
<p>Health care workers are responsible to:</p> <ul style="list-style-type: none"><input type="checkbox"/> Follow institutional IPC policies and procedures including conducting a PCRA prior to any interaction with a patient or visitor.<input type="checkbox"/> Ensure immunizations are up-to-date and adhere to applicable public health orders, regulations, and provincial immunization policies.<input type="checkbox"/> Self-screen and monitor for VRI signs and symptoms. If clinical illness and symptoms develop;<ul style="list-style-type: none"><input type="checkbox"/> Stay away from work; and<input type="checkbox"/> Inform their supervisor.

Provincial Viral Respiratory Illness Outbreak Management Preparedness Checklist

- Inform their supervisor when exposure incidents have occurred (e.g., PPE breaches). Health authority employees should report exposure incidents to [Provincial Workplace Health Contact Centre](#), if applicable.

Environmental Measures

Institutions and organizations are responsible to:

- Place [patient](#), [staff and visitor entrance](#), [respect personal space](#), and [hand hygiene](#) posters and signage at appropriate locations and common areas of the unit/facility (e.g., entrance, lounges);
- Provide hand hygiene stations for HCWs, patients, and visitors;
 - Ensure alcohol-based hand rub (ABHR) with at least 70% alcohol is available at multiple locations (e.g., point of care, entrances/exits, reception counters, and common areas).
 - Where ABHR cannot be mounted or easily accessible due to patient safety concerns, provide HCW with personal size containers of ABHR with at least 70% alcohol.
 - Provide plain soap and singly dispensed paper towels in washrooms and at dedicated hand hygiene sinks.
- Provide disposable tissues and no-touch waste bins to facilitate respiratory hygiene in appropriate areas.
- Have cleaning and hospital-grade disinfectant supplies (e.g., disinfectant wipes) readily available in appropriate locations to facilitate environmental and equipment cleaning and disinfection.
- Replace fabric-covered furnishings with ones that are washable, intact smooth, and tolerant of hospital-grade disinfection, where possible.
- Ensure clean equipment and supplies are protected from moisture, contamination, and damage by storing in a clean room/drawer/cupboard, and physically separated from used/dirty equipment; and
- Heating, ventilation, and air conditioning (HVAC) systems should be properly installed and regularly inspected and maintained according to HVAC standards and other building code requirements. Refer to [Indoor Ventilation Resources](#) available on the PICNet website.

Appendix E: Common Viral Respiratory Illness Pathogens

<u>Viral Organism</u>	<u>Epidemiology</u>	<u>Incubation period</u>	<u>Symptoms and symptom duration</u>	<u>Period of communicability*</u>
Adenovirus ¹⁹	Usually fall and winter Causes infection in all ages	Range 1-10 days	Conjunctivitis, sore throat, croup, fever, and other respiratory symptoms	Shortly before symptom onset and until symptoms cease. Symptoms may be prolonged in immune-compromised people
COVID-19 ³⁰⁻³²	Epidemiology is evolving at the time of writing.	2-14 days	Cough and fever, loss of smell or taste, sore throat, fatigue, headache	Generally 48hrs before symptom onset to 10 days after (for acute care settings). Communicable period may be longer than 10 days in immune compromised patients or patients with severe/critical COVID-19 illness. Refer to Appendix D: Duration of Additional Precautions in Patients with COVID-19 Illness.
Influenza A ^{20,28-30}	Typically November to April Causes mild to severe symptoms Causes infection in all age groups with highest incidence in children; highest mortality in elderly and those with comorbidity Can infect animals and humans	1-4 days	Fever*, cough (often severe and may last longer than other symptoms), headache, muscle/joint pain, sore throat, prostration and exhaustion. Gastro-intestinal symptoms may occur in children. Duration: 2-7 days	1 day before symptoms onset and up to 5-7 days after clinical onset in adults; Young children and people with immune-compromise may be >7days People with asymptomatic infections may also be infectious
Influenza B ²⁰	Historically November-April Causes milder infection Mostly affects children	1-4 days	Cough, fatigue, fever—though everyone does not have a fever—or chills, gastrointestinal symptoms like vomiting and diarrhea—which are more common in children, headaches, muscle or body aches, runny nose, sore throat. Duration: 3-7 days, although cough and malaise can persist > 2weeks.	1 day before symptoms onset and up to 5-7 days after clinical onset in adults; People with asymptomatic infections may also be contagious
Parainfluenza virus ³⁶	Entire year (little seasonal pattern) Predominantly causes infection & outbreaks in young children and the elderly	2-6 days	Fever, cough, bronchiolitis, bronchitis, pneumonia Croup. Duration 1-3 weeks.	The exact period of communicability is not known; however, viral shedding can happen for about 3-10 days during initial infection.
Respiratory Syncytial virus (RSV) ¹⁹	Usually seasonal: winter and early spring Predominantly causes infection & outbreaks in young children and the elderly	2-8 days	Fever, cough, wheezing Bronchiolitis in children Pneumonia in adults	Shortly before clinical onset and duration of active disease. Viral shedding may persist for several weeks or longer after symptoms have subsided, especially in children.
Common respiratory viruses such as: ¹⁹ -Rhinovirus -Coronavirus Metapneumo-virus -Echovirus -Coxsackie-virus -other entero-viruses.	Throughout the year with peaks in the spring and fall	Usually 2-3 days, but may be longer	'Common cold' type illness: Sneezing, runny nose, cough, sore throat, sinus congestion malaise, headache, myalgia and/or low-grade fever	Viral shedding usually most abundant during the first 2-3 days of clinical illness. Shedding usually ceases by 7-10 days, but may continue for up to 3 weeks in young children

* *In general, communicability is greatest in pre-symptomatic and early symptomatic stage of illness.*

Appendix F: Additional Tools and Resources

These tools and resources may be used based on current context or specific settings where they are being applied.

Provincial guidance and information specific to VRIs can be found at:

- [Provincial Infection Prevention and Control Guidance for Viral Respiratory Illness in Acute Care and Ambulatory Health Care Settings in British Columbia](#)
- [Provincial Infection Prevention and Control Guidance for VRI in Long-Term Care and Seniors' Assisted Living Settings in British Columbia](#)
- [BCCDC Respiratory Virus Data](#)
- [Office of the Provincial Health Officer – Orders, Notices and Guidance](#)
- [BCCDC Respiratory Illness: Getting Vaccinated](#)
- Health care Worker Exposure and Illness Resources
 - [Provincial Guidance on Return to Work and Exposure Management for HCWs with VRI](#)
 - [VRI HCW Self-Check and Safety Checklist](#)
- [BCCDC COVID-19 Variants](#)
- COVID-19 Treatment:
 - British Columbia COVID-19 Therapeutics Committee Guidance: [COVID-19 Treatments web page](#)
 - Health Canada: [COVID-19 Treatments](#)

Facility/Unit IPC Entrance Posters:

- [Staff and Visitors Screening](#)
- [All Patients/Residents Screening poster](#)
- [How to Wear a Medical Mask](#)
- [Respect Personal Space](#)

Hand Hygiene resources:

- [How to Clean your Hands](#) poster
- [Hand hygiene videos](#)
- [BC Guidelines and Resources](#)
- [BC Ministry of Health Best Practices for Hand Hygiene](#)

[Point-of-Care Risk Assessment Tool \(PCRA\)](#)

Personal Protective Equipment (PPE) Use resources:

- [PPE Audit Tool](#)
- PPE [Donning](#) and [Doffing](#) posters
- [PPE Donning and Doffing videos](#)
- [Appropriate Use of PPE in Health Care Settings](#)
- [Cleaning and Disinfection Instructions for Reusable Eye and Facial Protection](#)
- [Eye and Facial Protection Selection Fit Tool](#)
- [Prescription Eye Protection Selection Requirements](#)
- [Skin Protection for PPE Use for Health Care Workers](#)
- [Respirator donning and doffing instructions.](#)
- [Donning instructions for elastomeric half facepiece respirator \(EHFR\) without an exhalation valve filter](#)

- [Position Statement to Address Double Masking and Mask Modifications for Medical Masks in Health Care Settings](#)

VRI Transmission and Chain of Infection posters:

- [VRI transmission poster](#)
- [VRI chain of infection](#)

Environmental Cleaning and Disinfection resources:

- [Environmental cleaning and disinfection in clinic settings quick reference guide](#)
- PICNet's [British Columbia Best Practices for Environmental Cleaning for Prevention and Control of Infections in All Health care Settings and Programs](#)

Ventilation resources:

- [Indoor Ventilation resources](#)
- [Provincial IPC Guidance on Portable Fans in Health Care Settings in BC](#)

Other IPC Resources:

- Public Health Agency of Canada's [Routine Practices and Additional Precautions for Preventing Transmission of Infection in Healthcare Settings](#)
- [Hierarchy for Infection Prevention and Exposure Control Measures for Communicable Diseases](#)

Appendix G: Example Initial Outbreak Management Team Outbreak Report Form

Brief Description of Outbreak _____ Date: _____

Name of Facility: _____ Address: _____ Health Authority: _____

Location: _____ Date of index case: _____

Predominant symptoms: _____

Progression to others: _____

Number of immunized patients: _____ of total number: _____

Number of immunized HCWs: _____ of total number: _____

Actions Taken

Date and time reported to IPC/MHO: _____

Activation of Outbreak Management Team: _____

Notification of external service providers (e.g., BC Ambulance, Medigas):

“Just in time” in-services to HCWs: _____

Cohorting of patients and/or HCWs: _____

Enhanced cleaning: _____

Restriction (visitors, HCW, unit closure): _____

Extra hand hygiene stations/signage: _____

Specimens sent: _____

Current Status:

Number of symptomatic patients: _____ Number of symptomatic HCW: _____

Name of Reporting Person: _____

Contact Information for the Person Report: phone _____ email _____

Appendix H: Viral Respiratory Illness Droplet and Control Precautions Quick Reference Guide

Element	Acute Care
Accommodation	<p>Single room with dedicated toilet and patient sink preferred.</p> <p>Cohort with same (lab confirmed) infectious illness.</p> <p>Remain in room except for diagnostic or medically necessary procedures.</p>
Signage	Yes
PPE	<p><i>Additional PPE may be needed, based on PCRA</i></p> <ul style="list-style-type: none"> • Medical mask When within 2 metres of patient. • Eye Protection When within 2 metres of patient. • Gloves When providing care or in contact with surfaces in bed space. • Gown When providing care or in contact with surfaces in bed space.
Equipment and Items in the Bed Space	Clean and disinfect shared patient care equipment before and after each patient use.
Environmental Cleaning and Disinfection	<p>Clean and disinfect frequently touched surfaces in bed space and bathroom daily.</p> <p>Do a terminal/discharge cleaning and disinfection when discontinuing additional precautions and/or patient discharge.</p> <p>Remove and launder privacy and shower curtain on discharge/transfer or when visibly soiled.</p>
Patient Transport	<p>Patient/resident to wear a medical mask during transport.</p> <p>Transport HCW to wear PPE according to local IPC guidance and PCRA.</p> <p>Clean and disinfect equipment used after transport.</p>

Appendix I: Example Viral Respiratory Illness Outbreak Surveillance Form - Patients

Patient Information							Clinical Presentation			Specimen(s) sent	
Name	DOB y/m/d	Unit	Room #	Room type	Date of last vaccine	Name and date of prophylaxis	Date of symptom onset	Symptoms	Date symptoms resolved	Collection date/date submitted	Result

SYMPTOMS: C=cough F=Fever H=Headache ST=sore throat M=Myalgia, NC= nasal congestion (runny nose)

ROOM TYPE: P=Private S=Semi-private M=Multi-bed

Appendix J: Example Viral Respiratory Illness Outbreak Surveillance Form - Health Care Workers

Health Care Worker Information					Clinical Presentation			Specimen	
Name	DOB y/m/d	Occupation	Unit(s) worked	Date of last vaccine	Date of symptom onset	Symptoms (see below)	Date symptoms resolved	Collection date/date submitted	Result

SYMPTOMS: C=cough, F=Fever, H=Headache, ST=sore throat, M=Myalgia, NC= nasal congestion (runny nose)

Appendix K: Example Daily Update Outbreak Report for Outbreak Management Team

Location: _____

Date: _____ Day ____ of Outbreak

Number of new cases today - Patients: _____

Number of new cases today - HCWs: _____

Date of symptom onset of last case: _____

Number of patients currently symptomatic (include new cases): _____

Number of patients recovered: _____

New developments/concerns:

Further actions required:

Name: _____ Signature: _____

Contact information (email/phone): _____

Appendix L: Example Outbreak Summary Report for Outbreak Management Team

Location: _____

Date of onset of outbreak: _____ Date outbreak declared over: _____

Microorganism identified: _____ Laboratory Confirmed? Yes___ No___

Number of specimens identified in: _____ Suspected source: _____

Number of patients/ exposed: _____

Total number of cases (patients): _____

Attack rate for patients: _____

(# of exposed patients divided by # of patient cases, multiply by 100)

Number of HCWs exposed: _____ Total number of cases (HCWs): _____

Attack rate for HCWs: _____

(# of exposed divided by # of cases, multiply by 100)

Number of cases requiring higher level of care: _____

(E.g. transfer to hospital, transfer to ICU)

Number of deaths: _____

Unusual situations:

Name: _____ Signature: _____

Contact Information (phone/email): _____

Appendix M: Pathogen-specific information

Influenza Specific Information

In Canada, the period of peak winter influenza activity may vary from one year to the next but usually occurs between November and April, with most cases having an onset between late December and early March. Seasonal influenza can cause severe infection and death in any age group, but most people fully recover with the majority of deaths due to seasonal influenza occurring among the elderly. The highest attack rates occur in children, the highest death rates occur in people over the age of 65 years and those with chronic cardiac, pulmonary, renal or metabolic disease, anemia or immuno-suppression.³⁷ Current and specific [BC influenza surveillance data](#) is available on the BCCDC website.

Types of Influenza Viruses

- *Influenza Type A* causes mild to severe infections in all age groups. It includes numerous subtypes characterized by different combinations of surface antigens called hemagglutinin (H) and neuraminidase (N). Influenza A is capable of infecting both animals and humans, and it has been the main causative agent in influenza outbreaks and past pandemics.
- *Influenza Type B* usually causes a moderate infection and with complications primarily among children but also adults. This influenza strain can only infect humans and causes outbreaks in the community and within care facility settings.
- *Influenza Type C* is rarely diagnosed in humans and is not known to be associated with outbreaks.^{14,37}

Potential Complications of Influenza A and B Infections

- Pulmonary: sinusitis, otitis, laryngitis, croup, laryngeal obstruction, and pneumonia which can be fatal. Pneumonia typically results from secondary bacterial infection; primary viral pneumonia due to influenza is rare except in association with pandemics or novel strains (such as avian influenza infections in humans).
- Microbiologist to ensure proper management and submission of specimens to BCCDCPHL.^{14,37}
- Cardiovascular: myocarditis occurring either early or late in the disease process which can be fatal; pericarditis.
- Neurologic: encephalitis; aseptic meningitis; Guillain-Barre syndrome; severe myalgia; Reyes syndrome.
- Hematologic: rare cases of viremia occurring during incubation or the first 48 hours of illness; disseminated intravascular coagulation (DIC).
- Renal: renal failure associated with rhabdomyolysis or DIC
- If primary viral pneumonia is identified in otherwise healthy individuals (particularly returning travelers) or as a cluster in a discrete geographic area, then clinicians should be aware of the possibility of a novel virus and should consult with their local MHO and Medical Microbiologist to ensure proper management and submission of specimens to BCCDCPHL.^{14,37}

Health Care Worker Yearly Immunization

All HCWs, visitors, volunteers, and students are recommended to keep their vaccinations up to date. HCWs and staff in health care settings must meet immunization requirements in accordance with Ministry of Health and employer policies, and when directed by a medical health officer. Influenza immunization of HCWs can begin as soon as vaccine becomes available each fall. Health

Authorities and facilities can obtain vaccine through BCCDC distribution processes. Processes for ordering of influenza vaccine will vary with each facility and should be initiated each year. Vaccine should be offered to HCWs at a variety of locations and at a variety of times throughout the influenza season, but HCWs also have the option of being immunized through participating community pharmacists, public health clinics, occupational health clinics, peer nurse immunizers or by their family physician.

Adopting an institutional culture of safety can promote HCW receptiveness of annual influenza immunizations.^{38,39} Multiple strategies should be used to increase HCW influenza immunization, including the use of promotional and educational materials, mobile immunization carts, competitions, incentives, or by senior HCWs modeling acceptance of immunization. *(Category C11)*

Although self-isolation is important to prevent transmission when an individual is symptomatic, it should not be relied upon as an alternative to immunization for protecting patients, other HCWs, visitors and families, due to the risk of pre-symptomatic transmission.⁴⁰

Antivirals for Influenza

Immunization of patients and HCWs is the primary measure to prevent and control seasonal influenza in health care settings. Antiviral agents can be an important adjunct in helping to quickly control outbreaks of influenza. The administration of antiviral agents to all or most patients, as early as possible when influenza respiratory infection is identified in a facility can limit the spread of influenza in the health care setting.^{14,41} Additionally, antiviral prophylaxis is recommended for unimmunized staff who may be at high risk of influenza complications due to their underlying chronic health conditions (e.g., underlying cardiac, respiratory, other chronic health conditions).⁴² Antivirals may also be recommended for HCW treatment of seasonal influenza. Unless otherwise directed by the MHO/official designate, unvaccinated HCWs who decline prophylaxis need not be excluded from work during the outbreak. *(Category C11)*

For more information, refer to the AMMI Canada Guideline for [The Use of Antiviral Drugs for Influenza: A Foundation Document for Practitioners](#)³⁵

In the event of a pandemic influenza, specific guidelines for antiviral use would supersede the recommendations for seasonal influenza.

Planning for Influenza Antiviral Use

In long-term care, pre-printed antiviral orders for both prophylaxis and treatment should be signed by a physician and available on each patient chart at least one month prior to the start of the influenza season (early October). Recent serum creatinine levels on patients with known renal disease or likely deteriorating renal function should be documented. The facility should be ready to **give antiviral medication on a few hours' notice to all patients** to control an outbreak. In order to do that, each facility should establish a plan of action with the pharmacy that provides services for them, so that antivirals are obtained in a timely fashion. *(GPS)*

SARS-CoV-2 and COVID-19 Specific Information

SARS-CoV-2, the causative viral agent associated with COVID-19 respiratory illness, emerged in late 2019 as a novel circulating virus and caused a global pandemic within a few months.⁴³ COVID-19 caused significant morbidity, mortality, and health care facility outbreaks with substantial impact on long-term care facilities, patients, and HCWs.⁴³

The SARS-CoV-2 virus has evolved to include many variants and sub lineages from the original 2019 strain. These changes are monitored very closely by public health programs around the world. Some variants spread more easily, cause more serious illness, or reduce the effectiveness of treatments and vaccines.⁴³

Refer to [Appendix F](#) for up-to-date resources for SAR-CoV-2 variants and COVID-19 IPC guidance for specific health care settings.

COVID-19 Immunization for Health Care Workers and Patients

COVID-19 vaccination is an effective strategy in reducing the risk of illness, including hospitalizations, severe illness, and deaths.

HCWs are advised to adhere to applicable [public health orders](#), provincial and organizational policies, or regulatory requirements for COVID-19 immunizations

For updated guidance on COVID-19 vaccination, refer to [Appendix F](#).

COVID-19 Treatments

Several treatment medications for COVID-19 have been developed and authorized in Canada. Refer to [Appendix F](#) for guidance resources on COVID-19 treatment, including antivirals.

Facilities should be aware of patients who may be eligible for treatment so that timely testing can be offered to these patients in the event of a symptomatic VRI and treatment options assessed based on severity of illness. Advanced care planning for treatment, such as nirmatrelvir/ritonavir (Paxlovid), should be considered for clinically vulnerable patients, based on clinical assessment by MRP. For more information, refer to the [BC COVID-19 Therapeutics Committee guidance for COVID-19 treatments](#), and the [Advanced COVID-19 Treatment Planning Tool](#).

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