LTC HEALTHCARE-ASSOCIATED INFECTIONS SURVEILLANCE CASE DEFINITIONS

INFECTION

RESPIRATORY CRITERIA

Each RESPIRATORY HAI can only be assigned to one category. Assign in order of priority below:

- 1. COVID, if not met move to #2
- 2. ILI, if not met move to #3
- 3. Pneumonia, if not met move to #4
- 4. Lower respiratory, if not met move to #5
- 5. Upper respiratory, if not met then you do not meet case definition for HAI

CO	VID-19	Positive viral test by PCR (polymerase chain reaction) for SARS-CoV-2 in the past 14 days		
INF	FLUENZA-	Influenza-like illness (ILI) is characterized as: acute onset of respiratory illness with fever AND cough AND one or more of the following:		
LIKE ILI	LNESS (ILI)	_	sore throat prostration (extreme exhaustion)	b. arthralgia (joint pain) d. myalgia (muscular pain)

If criteria for ILI and another upper or lower RTI are met at the same time, only the diagnosis of ILI shall be recorded

PNEUMONIA

ALL THREE criteria MUST be present:

- 1. Interpretation of a chest radiograph as demonstrating pneumonia or the presence of a new infiltrate or consolidation
- 2. **At least ONE** of the following sub-criteria:
 - a many an improposal actuals
 - a. new or increased cough
 - c. pleuritic chest pain

d. respiratory rate > 25 breaths/min

b. new or increased sputum production

- e. new or changed lung examination abnormalities (e.g., rales, crackles)
- f. O2 saturation < 94% on room air OR reduction in O2 saturation of > 3% from baseline
- 3. At least ONE of the constitutional criteria *

Exclude symptoms related to underlying conditions, e.g., congestive heart failure or interstitial lung diseases

LOWER RESPIRATORY TRACT INFECTION EXCLUDING PNEUMONIA (e.g., bronchitis or tracheobronchitis)

ALL THREE criteria MUST be present:

- 1. Chest radiograph not performed, or negative results for pneumonia, or presence of a new infiltrate or consolidation
- 2. **At least TWO** of the following sub-criteria:
 - a. anew or increased cough
- b. new or increased sputum production

c. pleuritic chest pain

- d. respiratory rate \geq 25 breaths/min
- e. new or changed lung examination abnormalities (e.g., rales, crackles)
- f. O_2 saturation < 94% on room air OR
 - reduction in O₂ saturation of > 3% from baseline
- 3. At least ONE of the constitutional criteria *

UPPER RESPIRATORY TRACT INFECTION (e.g., common cold, pharyngitis)

EITHER criteria 1 OR 2 MUST be present:

- 1. At least TWO of the following sub-criteria:
 - a. fever*
 - c. new or increased cough
 - e. sore throat, hoarseness, or difficulty swallowing
- b. runny nose or sneezing
- d. stuffy nose/congestion
- f. swollen or tender glands in neck
- g. shortness of breath or increased work of breathing
- h. **one** of the following:
 - chills

- joint pain
- new headache or eye pain
- myalgias or body aches
- malaise or loss of appetite
- 2. Nasopharyngeal swab positive for viral respiratory tract pathogen AND one respiratory sub-criteria (a h) as listed above

Exclude symptoms related to underlying conditions, e.g., allergies or chronic obstructive pulmonary disorder. If upper respiratory tract infection and lower respiratory tract infection criteria are met, record the case as a lower respiratory tract infection. Lower respiratory tract infections are associated with great morbidity and mortality, and surveillance should aim for sensitivity toward these infections

INFECTION	UTI & CATHETER ASSOCIATED UTI CRITERIA			
	For residents without an indwelling catheter, BOTH 1 AND 2 must be present:			
	At least ONE of the following sub-criteria:			
	 a. Acute pain, swelling, or tenderness of the testes, epididymis, or prostate b. Fever or leukocytosis* and AT LEAST 1 of the following localizing urinary tract subcriteria 			
URINARY TRACT INFECTION (UTI)	tract sub-criteria: — Acute dysuria — Suprapubic pain — Gross hematuria 2. ≥108 CFU/L of no more than 2 speci	 Cytosis, 2 or more of the following localizing urinary New or marked increase in incontinence New or marked increase in urgency New or marked increase in frequency Ses of bacteria from a midstream urine, or ≥ 10⁵ 		
CATHETER- ASSOCIATED UTI	For residents with an indwelling catheter (i.e., any type of urinary catheter <i>in situ</i> for at least 48 hours, including suprapubic catheters), or in a midstream voided urine specimen from a resident whose catheter has been removed within the previous 48 hours, both criteria 1 and 2 must be present: 1. At least ONE of the following sub-criteria: a. Fever*, rigours, or new-onset hypotension (systolic blood pressure of ≤90 mmHg in an individual with a previously normal systolic blood pressure), with no alternate site of infection b. Acute change in mental status, with no alternate diagnosis, and leukocytosis* c. New-onset suprapubic pain or costovertebral angle pain or tenderness d. Purulent discharge from around the catheter e. Acute pain, swelling, or tenderness of the testes, epididymis, or prostate 2. ≥ 108 CFU/L of no more than 2 species of bacteria from urinary catheter specimen			

3 days after the day of the microbiological test used to meet criteria 2. Exclude symptoms with non-infectious causes.

Application info: 3 days before <u>OR</u> the 3 days after, not necessarily both or all 7 days.

INFECTION	WOUND AND SKIN CRITERIA		
	At least ONE of the following criteria MUST be present:		
	1. Pus present at a wound, skin, or soft tissue site		
CELLULITIS, SOFT	2. New or increasing presence of AT LEAST 4 of the following sub-criteria:		
TISSUE, OR	a. Heat at the affected site	b. Tenderness or pain at the affected site	
	c. Redness at the affected site	d. Serous drainage at the affected site	
INFECTION	e. Swelling at the affected site	f. ONE constitutional criterion*	
	3. Non-commensal organism isolated with at least 1 sub-criterion from section 2 (af.)		
	above		
WOUND NFECTION	e. Swelling at the affected site f. ONE constitutional criterion* 3. Non-commensal organism isolated with at least 1 sub-criterion from section 2 (af.)		

Appendix A: CDC National Healthcare Safe	v Network Master Organism List	for a list of common commensals
Appendix A. CDC National Healthcare Suje	y ivelvour iviaster organism list	Tot a list of continuon continucions

INFECTION	SCABIES CRITERIA
	BOTH criteria MUST be present:
	A maculopapular and/or itching rash
SCABIES	2. At least ONE of the following sub-criteria:
	a. Nurse Practitioner or Physician diagnosis
	b. Laboratory confirmation via skin scraping or biopsy
	c. Epidemiologic linkage to a case of scabies with laboratory confirmation
A case is considered	enidemiologically linked by direct contact to a confirmed case through person-to-person transmission

A case is considered epidemiologically linked by direct contact to a confirmed case through person-to-person transmission (e.g., common caregiver), if there is geographic proximity in the facility, or through a common exposure

	* CONSTITUTIONAL CRITER	RIA	
	ONE of the following criteria MUST be met:		
	1. Single temperature more than 37.8°C		
	2. Repeated oral temperatures of more than 37.2°C or rectal temperatures more than 37.5°C		
	3. Single temperature more than 1.1°C increase over baseline of non-illness temperature collected from any site		
FEVER	There is insufficient evidence to indicate a specific temperatures using fever criterion 2. It is suggest collected within no more than 48 hours of each of	ted repeated temperatures be	
LEUKOCYTOSIS	>11 x 10 ⁹ leukocytes/L		
	Evidence of acute change in mental status		
ACUTE CHANGE in	Fluctuating course: behaviour fluctuating (e.g., coming and going, or changing in severity during the assessment)		
from BASELINE USING the WENTAL STATUS 3. Inattention: difficulty focusing attention (e.g., unable to keep track of discussions) distracted)		unable to keep track of discussion or easily	
CONFUSION	4. EITHER A OR B:		
ASSESSMENT	A. Disorganized thinking		
METHOD		consciousness is described as different from vsy, difficult to arouse, non-responsive)	
A new three-point increase in total Activities of Daily Living (ADL) score baseline, based on the following seven ADL items, each scored from 0 (i (total dependence)			
	1 Bed mobility	5 Toilet use	
ACUTE	2 Transfer	6 Personal hygiene	
FUNCTIONAL	3 Dressing	7 Eating	
DECLINE	4 Locomotion within LTC home		
	This information may not be readily available. If on the other indicators above to meet the constitu		

For HAI Attribution to the LTC Home		
BOTH of these	No evidence the infection was incubating on admission to the LTC home	
criteria MUST be met	Infection onset occurred >2 calendar days after admission to the LTC home	

National LTC case definitions can be found here: Canadian Journal of Infection Control | Fall 2023 | Volume 38 | Issue 43 | 139-146

Manitoba Health Influenza Like Illness case definition: <u>Seasonal Influenza protocol (gov.mb.ca)</u>