

INFECTION PREVENTION & CONTROL

HEALTH CARE-ASSOCIATED INFECTION INDICATOR DEFINITIONS SURVEILLANCE IN ACUTE CARE AND PERSONAL CARE HOME

Regional Infection Prevention & Control Team

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Targeted Surveillance of Health Care-Associated Infections

Southern Health-Santé Sud (SH-SS) is committed to monitoring and reducing health care-associated infections (HAIs) throughout all acute care and personal care home settings within the region. A large percentage of HAIs are preventable and the scientific literature has established that incorporating surveillance systems into infection prevention and control (IP&C) activities are a means to reduce the frequency of these infections and improve patient safety.

The purpose of performing surveillance of HAIs is as follows:

- To assess the frequency and type of infections clients acquire within health care facilities in SH-SS in order to institute quality improvement initiatives that minimize the number of HAIs that occur;
- To detect clusters of infection, outbreaks, and emerging trends in infection transmission, to intervene as appropriate, and improve the safety of client care provided within SH-SS;
- To meet reporting requirements for Manitoba Health, Healthy Living and Seniors, Personal Care Home (PCH) Standards, and Communicable Disease Control (CDC) protocols and guidelines, as well as Accreditation Canada.
 - ACCREDITATION CANADA REQUIRED ORGANIZATIONAL PRACTICES: 1) Health care-associated infections are tracked, information is analyzed to identify outbreaks and trends, and this information is shared throughout the organization; 2) Compliance with accepted hand hygiene practices is measured.
- To monitor the effectiveness of the SH-SS Infection Prevention & Control program and ensure it is evidence based.

One of the most important steps when implementing any surveillance program is the appropriate selection and use of surveillance indicators. Surveillance indicators are used to measure either an outcome that is related to health care (such as an infection or fall) or a process (such as compliance with a specific protocol). Targeted surveillance looks at only specific infections or procedures that are more common/relevant to SH-SS or that are required by Manitoba Health Seniors and Healthy Living (MHSAL) and Accreditation Canada. This document includes the targeted indicators determined by IP&C for SH-SS, the current case definitions and the rate calculation to determine rates of infection.

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Personal Care Home Surveillance Indicators

Source: National Heal	thcare Safety Network (NHSN) Patient Safety Component Manual, Chapter 2 Identifying Healthcare-associated Infections (HAI)	for NHSN Surveillance, Janua
2019		
SH-SS HAI rate	To standardize the classification of an infection as present on admission (POA) or a healthcare-associated infection (HAI), the	Total # of all HAIs x 1000
1000 client days	following objective surveillance definitions and guidance are used. Note: This does not apply to surgical site infections (SSI) surveillance.	Total # of client days*
HAIs reported		
nclude targeted and	Date of Event (DOE)	
non-targeted HAIs	The DOE is the date of the first documented <u>localized</u> sign or symptom used to meet the specific site of infection criterion. For example, diarrhea, site-specific pain, purulent drainage are localized signs or symptoms. Note that a non-specific sign or	
2017-2018:	symptom for example, fever is not considered to be localized. Therefore if fever presented 2 days prior to localized signs or	
PCH 2.4	symptoms, the day the fever presented is not considered the DOE. Note: accurate determination of DOE is critical because DOE is used to determine if an infection is HAI or POA, location of attribution, and device association.	
	Present on Admission (POA)	
	An infection is considered POA if the DOE occurs during the POA time period, which is defined as the day of admission to an inpatient location (calendar day 1), the 2 days before admission, and the calendar day after admission.	
	Health Care-associated Infection (HAI) The infection is considered HAI if the DOE occurs on or after the 3 rd calendar day of admission to an inpatient location where day of admission is calendar day 1.	
	Reactivation of a latent infection is not considered to be a HAI; for example but not limited to herpes, shingles, syphilis, or tuberculosis.	
	Repeat Infection Timeframe (RIT) The RIT is a 14-day timeframe during which no new infections of the same type are reported. RIT applies to both POA and HAI determinations. The DOE is Day 1 of the 14-day RIT. If criteria for the same type of infection are met and the DOE is within the 14-day RIT, a new infection is not reported. The RIT applies during a client's single admission, including the day of discharge and the day after, in keeping with the Transfer Rule. An RIT does not carry over from one admission to another even if readmission is to the same facility.	
	Transfer Rule If the DOE is on the date of transfer or discharge, or the next day, the infection is attributed to the transferring/discharging location. This is called the Transfer Rule. If the client was in multiple locations within the transfer rule time frame, attribute the infection to the <u>first</u> location in which the client was housed the <u>day before</u> the infection's DOE. Receiving locations or facilities should share information about such HAIs with the transferring location or facility to enable accurate reporting.	*For PCH surveillance, Clien days refer to Resident – Day in Home (represents the actu stay of a resident in a PCH,
	Location of Attribution (LOA)	excludes all leave days).
	The LOA is the inpatient location where the client was assigned on the date of infection.	

Antibiotic Resista	ant Organisms	
	ant Staphylococcus aureus (MRSA)	
	Nosocomial Infection Surveillance Program (CNISP) 2017 Surveillance Protocol for MRSA Infections in CNISP Hospitals, Revise	d January 23, 2017
1	Health, Seniors and Active Living ARO Definitions, November 2018	
Methicillin	MRSA data is reported in two categories:	
Resistant Staphylococcus	Cases of new colonization (new cases of MRSA never been reported previously)	
aureus (MRSA)	Cases of new infection (in new and known cases of MRSA)	
, , , , , , , , , , , , , , , , , , ,	COLONIZATION	
	MRSA colonization surveillance inclusion criteria:	
SH-SS HA MRSA colonization rate	 Isolation of Staphylococcus aureus from any body site 	
/1000 client days	AND	
2	Resistance of isolate to oxacillin	
2017-2018: PCH 0	AND	
	 Client must be admitted to a health care facility Is "a newly identified MRSA case". 	
	This does not include:	
	MRSA cases previously identified	
	Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted	
	Cases re-admitted with MRSA	
	If the case does not meet the infection definition, then the case is classified as a colonization.	
	• If the case is a colonization and the client was not previously known to be positive; this case is counted as a new	
	colonized case.	
	If the case is a colonization and the client is already known to be positive; this case is not counted.	
	HA MRSA case definition for a MRSA colonization	Total # of new HA MRSA
	Must meet the MRSA surveillance inclusion criteria above	colonizations (in new
	AND Must meet at least one of the following criteria:	MRSA cases) x1000
	 Diagnosis of MRSA was made by a culture positive sample collected greater than or equal to 2 calendar days after 	Total # of client days
	admission to your facility (admission considered day 1; diagnosis made at day 3 or beyond)	Total # of chefit days
	AND	
	No medical history of previous MRSA	
	Diagnosis of MRSA was made by a culture positive sample collected within 2 calendar days (admission considered dou 1 diagnosis made prior to day 2) of admission to your facility.	
	day 1; diagnosis made prior to day 3) of admission to your facility AND	
	Medical history in previous 12 months at your facility including one or more of the following:	
	a) Admission to your facility	
	b) Dialysis	
	c) Surgery (including day surgery)	
	d) Placement of indwelling catheters or medical devices that pass through the skin into the body	

	Diagnosis of MRSA was made post discharge from your facility by a culture positive sample for MRSA collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to a receiving facility	
	INFECTION	
SH-SS MRSA HAI rate/1000 client days 2017-2018: PCH 0.01	 MRSA infection surveillance inclusion criteria: Isolation of <i>Staphylococcus aureus</i> from any body site AND Resistance of isolate to oxacillin AND Client must be admitted to a health care facility AND Is "a newly identified MRSA infection"* at the time of admission or identified during stay AND Meets the criteria for MRSA infection as determined using the surveillance definitions for specific infections, and in accordance with the best judgement of the healthcare and/or infection prevention and control practitioner (ICP) at the time of hospital admission or identified during hospitalization. 	
	 *This includes: MRSA infections identified for the first time during this current admission. MRSA infection identified at a new (different) site in a client with a MRSA infection identified in a previous surveillance (calendar) year. For example, client identified in 2014 with a MRSA respiratory infection. Same client admitted in 2017 and identified with SSI MRSA infection. The client would be counted as a new infection in 2017. This does not include: MRSA infections previously identified Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted Infections re-admitted with MRSA unless it is a new/different site of MRSA infection. 	
	 Infections re-admitted with MRSA unless it is a new/different site of MRSA infection. HA MRSA case definition for a MRSA clinical infection Must meet the MRSA surveillance inclusion criteria above AND Must meet at least one of the following criteria: Diagnosis of MRSA was made by a culture positive sample collected greater than or equal to 2 calendar days after	Total # of new HA MRSA infections (in new and <u>known cases)</u> x1000 Total # of client days

	3. Diagnosis of MRSA was made post discharge from your facility by a culture positive sample for MRSA collected	
	within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to a receiving facility	
Vancomycin Resis	stant <i>Enterococc</i> i Bloodstream Infections (BSI)	
	Health, Seniors and Active Living ARO Definitions, November 2018	
	P HAI Surveillance Case definitions	
Vancomycin Resistant	VRE surveillance is only required for bloodstream infections. The following definitions are used for the purposes of identification and surveillance classification of VRE bloodstream infection cases.	
Enterococci (VRE)		
	VRE surveillance inclusion criteria:	
SH-SS HA VRE	Isolation of Enterococcus faecalis or faecium from blood	
bloodstream	AND	
infection rate/1000 client days	Resistance of isolate to vancomycin	
•	AND	
2017-2018:	Client must be admitted to a health care facility AND	
PCH no data	 Is a "newly identified VRE BSI" at the time of admission or identified during stay. A new VRE BSI is defined as a positive VRE blood isolate greater than 14 days after completing of therapy for a previous infection and felt to be unrelated to previous infection in accordance with best clinical judgement by ICP and physician. 	
	This does not include:	
	Emergency, clinic, or other outpatient cases (e.g., physiotherapy) who are not admitted	
	Health Care-Associated (HA) VRE bloodstream infection case definition	Total # of new HA VRE
	Must meet the VRE surveillance inclusion criteria above AND	bloodstream infections x1000
	Must meet at least one of the following criteria	Total # of client days
	1. Diagnosis of VRE was made by a blood culture positive sample collected greater than or equal to 2 calendar days	
	after admission to your facility (admission considered day 1; diagnosis made at day 3 or beyond)	
	2. Diagnosis of VRE was made by a blood culture positive for VRE collected within 48 hours of admission to your facility	
	AND	
	Medical history in previous 12 months at your facility including one or more of the following: a. Admission to your facility	
	b. Dialysis	
	c. Surgery (including day surgery)	
	d. Placement of indwelling catheters or medical devices that pass through the skin into the body.	
	 Diagnosis of VRE bacteremia was made post discharge from current facility by a blood culture positive for VRE collected within 48 hours of admission to a receiving facility. 	
Carbapenamase P	roducing Enterobacteriaceae (CPE)	
Source: 1) Manitoba	Health, Seniors and Active Living ARO Definitions, November 2018	
Carbapenamase	CPE data is reported in two categories:	
Producing	 Cases of new colonization (new cases of CPE never been reported previously) 	
	Cases of new infection (in new and known cases of CPE)	

Enterobacteriaceae (CPE) SH-SS HA CPE colonization rate /1000 client days 2017-2018: PCH no data	COLONIZATION CPE colonization surveillance inclusion criteria: • Isolation of a new Carbapenamase Producing Enterobacteriaceae from any body site AND • Client must be admitted to a health care facility AND • Is "a newly identified CPE case".		
	 This does not include: Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted Cases re-admitted with the same CPE pathogen as previous admission HA CPE case definition for a CPE colonization	Total # of HA CPE	
	Must meet the CPE surveillance inclusion criteria above AND Must meet at least one of the following criteria:	colonizations in new <u>CPE cases</u> Total # of client days	x1000
	 Diagnosis of a new CPE was made by a culture positive sample for CPE collected greater than or equal to 2 calendar days after admission to your facility (admission considered day 1: diagnosis made at day 3 or beyond) AND no medical history of previous similar CPE infection or colonization Diagnosis of new CPE was made by a culture positive sample for CPE collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to current facility AND medical history in the previous 12 months at your facility including one or more of the following: Admission to your facility Dialysis Surgery (including day surgery) Placement of indwelling catheters or medical devices that pass through the skin into the body Diagnosis of new CPE was made post discharge from your facility by a culture positive sample for CPE collected within 2 calendar days (admission to a receiving facility within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to a receiving facility 		
	INFECTION		
SH-SS HA CPE infection rate/1000 client days	 CPE infection surveillance inclusion criteria: Isolation of a new Carbapenamase Producing Enterobacteriaceae from any body site AND 		
2017-2018: PCH no data	 Client must be admitted to a health care facility AND Is "a newly identified CPE case" AND Meets the criteria for CPE infection as determined using the surveillance definitions for specific infections, and in accordance with the best judgement of the healthcare and /or IPC practitioner at the time of hospital admission or identified during hospitalization. 		

	 This does not include: Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted Cases re-admitted with the same CPE pathogen as previous admission Health Care-Associated (HA) CPE infection case definition Must meet the CPE surveillance inclusion criteria above AND Must meet at least one of the following criteria: Diagnosis of a new CPE was made by a culture positive sample for CPE collected greater than or equal to 2 calendar days after admission to your facility (admission considered day 1: diagnosis made at day 3 or beyond) AND no medical history of previous similar CPE infection or colonization Diagnosis of new CPE was made by a culture positive sample for CPE collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to current facility AND medical history in the previous 12 months at your facility including one or more of the following: a) Admission to your facility b) Dialysis c) Surgery (including day surgery) d) Placement of indwelling catheters or medical devices that pass through the skin into the body 3. Diagnosis of new CPE was made post discharge from your facility by a culture positive sample for CPE collected within 2 calendar days (admission considered day 1: diagnosis made post discharge from your facility by a culture positive sample for CPE collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to day 3) of admission to a receiving facility 	Total # of new HA CPE infections (in new and <u>known CPE cases)</u> x1000 Total # of client days
Skin and Soft Tiss	sue Infection	
Source: Surveillance	Definitions of Infections in Canadian Long Term Care Facilities, IPAC News, Fall 2017	
Skin and Soft	HA Skin and Soft Tissue Infection	Total # of HA STTI cases
Tissue Infection (STTI)	For wound infections related to surgical procedures, PCH facilities should report these infections back to the institution where the original surgery was performed.	Total # of client days X1000
SH-SS HA STTI rate/1000 client days 2017-2018: PCH 0.6	 A. Cellulitis, soft tissue, or wound infection (at least one of the following criteria must be present) 1. Pus present at a wound, skin, or soft tissue site 2. New or increasing presence of at least 4 of the following sign or symptom sub criteria: a) Heat at the affected site b) Redness at the affected site c) Swelling at the affected site d) Tenderness or pain at the affected site e) Serous drainage at the affected site f) One constitutional criterion (see Table 1) 3. Non-commensal organism isolated with one or more signs or symptoms from criterion 2. 	

Comments: Presence of organisms cultured from the surface (e.g., superficial swab sample) of a wound is not sufficient evidence that the wound is infected. More than 1 resident with streptococcal skin infection from the same serogroup (e.g., A, B, C, G) in a personal care home may indicate an outbreak. Common Commensal organisms (normal flora) include, but are not limited to, diphtheroids (Corynebacterium spp. not C. diphtheria), Bacillus spp. (not B. anthracis), Propionibacterium spp., coagulase-negative staphylococci (including S. epidermidis), viridans group streptococci, Aerococcus spp., and Micrococcus spp.	
 B. Scabies (both criteria 1 and 2 must be present) 1. A maculopapular and/or itching rash characteristic of scabies 2. At least one of the following scabies sub criteria: a) Physician diagnosis b) Laboratory confirmation (scraping or biopsy) c) Epidemiological linkage to a case of scabies with laboratory confirmation 	
Comments: Consider the appearance and distribution of the rash. The most common symptom of scabies is itching (pruritis) especially at night and pimple (papular) like rash. The itching and rash may affect much of the body or be limited to common sites such as wrists, elbow, armpit, webbing between the fingers, nipple, penis, waist, beltline and buttocks. Tiny burrows that are raised and crooked, grayish white or skin colored lines on the skin surface. They are found most often in the webbing of the fingers, in the skin folds of the wrist, elbow or knee and on the penis, breast or shoulder blades. If rash presentation is atypical, lab confirmation is recommended. A case is considered epidemiologically linked by direct contact to a laboratory-confirmed case through person-to-person transmission (e.g., common caregiver), if there is geographic proximity in the facility or through a common exposure. Care must be taken to rule out rashes due to skin irritation, allergic reactions, eczema, and other non-infectious skin conditions.	
HA Symptomatic Urinary Tract Infection	Total # of HA
symptomatic UTI from asymptomatic bacteriuria.	symptomatic UTI cases x1000 Total # of client days
 A. For residents without an indwelling catheter (criteria 1 and 2 must be present with no other identified source of infection, OR criteria 2 and 3) 1. At least one of the following sign or symptom sub criteria: a) Acute pain, swelling, or tenderness of the testes, epididymis, or prostate in males b) Fever or leukocytosis (see Table 1) and at least one of the following localizing urinary tract sub criteria: i. Acute dysuria ii. Acute costovertebral angle pain or tenderness iii. Suprapubic pain iv. Gross hematuria v. New or marked increase in incontinence vi. New or marked increase in frequency c) In the absence of fever or leukocytosis, then two or more of the following localizing urinary tract sub criteria: 	
	sufficient evidence that the 'vound is infected. More than 1 resident with streptococal skin infection from the same serogroup (e.g., A. B., C. G) in a personal care home may indicate an outbreak. Common Commensal organisms (normal flora) include, but are not limited to, diphtheroids (Corynebacterium spp. not C. diphtherai), Bacillus spp. (not B. anthracis), Propionibacterium spp., coagulase-negative staphylococci (including S. epidermidis), viridans group streptococci (Aerococcus spp., and Micrococcus spp.

client days 2017- 2018: PCH 0.1	 iii. Gross hematuria N. New or marked increase in incontinence N. New or marked increase in urgency New or marked increase in trequency Comments: UTI should be diagnosed when there are localizing genitourinary signs and symptoms and a positive urine culture result. A diagnosis of UTI can be made without localizing symptoms if a blood culture isolate is the same as the organism isolated from the urine and there is no alternate site of infection. In the absence of a clear alternate source of infection, fever or rigors with a positive urine culture result in the noncatheterized client of a urinary source. Greater than or equal to 10⁶ cfu/L of no more than 2 species of microorganisms from a midstream urine OR Greater than or equal to 10⁵ cfu/L of any number of microorganism in a specimen collected by in and out catheter Comments: Urine specimens for culture should be processed as soon as possible, preferably within 2 h. If urine specimens cannot be processed within 30 min of collection, here y should be refrigerated. Retrigerated specimens should be cultured within 24 h. In and out catheter collection is the gold standard for urine collection in residents without an indvelling catheter. A blood culture isolate is the same as the organism isolated from the urine and there is no alternate site of infection. B. HA Symptomatic Catheter Associated UTI (CAUTI) – For residents with an indvelling catheter, in a single catheter urine specimen or in a midstream voided urine specimen from a client vhose catheter has been removed within the previous 48 h (criteria 1 and 2 must be present with no other identified source of infection, OR criteria 2 and 3) A tleast one of the following sign or symptom sub criteria: a. Fever, rigors, or new-onset hypotension, with no alternate site of infe	Total # of HA symptomatic CAUTI <u>Cases</u> Total # of client days	X 1000
	and there is no alternate site of infection.		

Respiratory Tract	: Infection Definitions of Infections in Canadian Long Term Care Facilities, IPAC News, Fall 2017		
Respiratory Tract Infections (RTI)	HA Respiratory Tract Infection Epidemiological confirmation, instead of a laboratory confirmed positive specimen, can be used to meet case definition	Total # of HA RTI cases	x 1000
	criteria during an outbreak.	Total # of client days	<u> </u>
SH-SS HA RTI rate/1000 client days 2017-2018: PCH 0.9	 A. Common cold syndrome or pharyngitis At least two of the following criteria must be present: Runny nose or sneezing Stuffy nose (i.e., congestion) Sore throat or hoarseness or difficulty in swallowing Dry cough Swollen or tender glands in the neck (cervical lymphadenopathy) N/P swab positive for a respiratory pathogen 		
	Comments: Fever may or may not be present. Symptoms must be new and not attributable to allergies.		
	 B. Influenza-like illness Criteria 1 and/or 2 must be present, AND 3 or 4: Fever New and/or increased cough At least two of the following influenza-like illness sub criteria: Chills New headache or eye pain Myalgia or body aches Malaise or loss of appetite Sore throat Arthralgia (joint pain) N/P swab positive for Influenza virus Comments: Fever may not be present in the elderly. If criteria for influenza-like illness and another upper or lower RTI are met at the same time, only the diagnosis of influenza-like illness should be recorded. Because of increasing uncertainty surrounding the timing of the start of influenza virus influenza activity, and the length of the season, "seasonality" is no longer a criterion to define influenza-like illness.		
	 C. Pneumonia Criteria 1 and 2 must be present, OR criteria 1 and 3: Interpretation of a chest radiograph as demonstrating pneumonia or the presence of a new infiltrate. At least one of the following respiratory sub criteria: New or increased cough New or increased sputum production O₂ saturation less than 94% on room air or a reduction in O₂ saturation of greater than 3% from baseline New or changed lung examination abnormalities Pleuritic chest pain Respiratory rate of greater than or equal to 25 breaths per minute 		

	Comment: For both pneumonia and lower RTI, the presence of underlying conditions that could mimic the presentation of a RTI (e.g., congestive heart failure or interstitial lung disease) should be excluded by a review of clinical records and an assessment of presenting symptoms and signs.	
	 D. Lower respiratory tract infection (bronchitis or tracheobronchitis) All 3 criteria must be present: Chest radiograph not performed or negative results for pneumonia or new infiltrate At least two of the respiratory sub criteria (a-f) listed in section C above At least one of the constitutional criteria (see Table 1) 	
	Comment: See comment for section C above.	
Gastrointestinal T	ract Infection	
Source: Surveillance	Definitions of Infections in Canadian Long Term Care Facilities, IPAC News, Fall 2017	
Gastrointestinal (GI) Tract Infections	Epidemiological confirmation, instead of a laboratory confirmed positive specimen, can be used to meet case definition ca	tal # of HA GI infection sesx1000 tal # of client days
SH-SS HA GI infection rate/1000 client days 2017-2018: PCH 0.04	 A. Gastroenteritis At least one of the following criteria must be present: Diarrhea: 3 or more loose or watery stools above what is normal for the client within a 24 hour period Vomiting: 2 or more episodes in a 24 hour period Both of the following sign or symptom sub criteria: a. A stool specimen testing positive for a pathogen (e.g., Salmonella, Shigella, Escherichia coli 0157:H7, Campylobacter species, rotavirus) b. At least one of the following GI sub criteria: i. Nausea ii. Vomiting iii. Abdominal pain or tenderness, iv. Diarrhea v. Mucous in stool 	
	Comments: Care must be taken to exclude noninfectious causes of symptoms. For instance, new medications may cause diarrhea, nausea, or vomiting; initiation of new enteral feeding may be associated with diarrhea; and nausea or vomiting may be associated with gallbladder disease. Presence of new GI symptoms in a single client may prompt enhanced surveillance for additional cases. In the presence of an outbreak, stool specimens should be sent for viral detection studies to confirm the presence of norovirus or other pathogens (e.g., rotavirus or E. coli O157:H7).	
	 B. Norovirus gastroenteritis Both criteria 1 and 2 must be present: At least one of the following GI sub criteria: Diarrhea: 3 or more loose or watery stools (i.e., Conforming to the shape of the specimen collection container) above what is normal for the client within a 24 hour period Vomiting: 2 or more episodes in a 24 hour period 	

	2. A stool specimen for which norovirus is positively detected by electron microscopy, enzyme immunoassay, or		
	molecular diagnostic testing such as polymerase chain reaction (PCR).		
	C. Clostridium difficile infection		
Clostridium difficil	Refer to definition below. Include total # of new HA C-diff infections in total HA GI infection cases.		
	nt of Manitoba. Communicable Disease Management Protocol. Clostridioides difficile Infection (CDI), February 2019		
2) 2018 Cana	dian Nosocomial Infection Surveillance Project (CNISP) definitions for CDI		
Clostridium	Clostridium difficile Infection (CDI)	Total # of new HA CDI	
difficile Infection	A client is identified as having CDI if at least one of the following criteria is met:	cases	x1000
(CDI)	1. The client has diarrhea* or fever, abdominal pain and/or ileus AND a laboratory confirmation of a positive toxin assay or positive polymerase chain reaction (PCR) for <i>C. difficile</i> (without reasonable evidence of another cause of diarrhea)	Total # of client days	
SH-SS HA CDI	2. The client has a diagnosis of pseudomembranes on sigmoidoscopy or colonoscopy (or after colectomy) or		
rate/1000 client days	histological/pathological diagnosis of CDI		
-	3. The client is diagnosed with toxic megacolon (in adult clients only)		
2017-2018: PCH 0	* Diarrhea is defined as one of the following:		
FOILO	a) 6 or more watery/unformed stools in a 36-hour period		
	b) 3 or more watery/unformed stools in a 24-hour period and this is new or unusual for the client (in adult clients only)		
	Exclusion:		
	Recurrent cases of CDI**		
	HA CDI case definition – acquired in your facility		
	Must meet at least one of the following criteria:		
	1. Related to the current admission		
	 The client's CDI symptoms occur in your healthcare facility 3 or more days (or greater than or equal to 72 hours) after admission. 		
	2. Related to a previous admission		
	a) Inpatient: The client's CDI symptoms occur less than 3 days after the current admission (or less than 72		
	hours) AND		
	the client had been previously admitted at your healthcare facility and discharged within the previous 4 weeks.		
	b) Outpatient: The client presents with CDI symptoms at your ER or outpatient location		
	AND		
	the client had been previously admitted at your healthcare facility and discharged within the previous 4 weeks. 3. Related to a previous healthcare exposure*** at your facility		
	a) Inpatient: The client's CDI symptoms occur less than 3 days after the current admission (or less than 72		
	hours)		
	AND		
	 the client had a previous healthcare exposure** at your facility within the previous 4 weeks. Outpatient: The client presents with CDI symptoms at your ER or outpatient location 		
	AND		
	the client had a previous healthcare exposure** at your facility within the previous 4 weeks.		

** Recurrent CDI : A recurrent CDI is defined as an episode of CDI that occurs in a client less than or equal to 8 weeks following the diagnostic test date of the primary episode of CDI, providing the client was treated successfully for the primary episode and symptoms of CDI resolved completely.
A primary episode of CDI is defined as either the first episode of CDI ever experienced by the client or a new episode of CDI that occurs greater than 8 weeks after the diagnosis of a previous episode in the same client. A new episode of CDI that occurs after 8 weeks following the diagnostic test date of the primary episode of CDI is considered a new infection.
*** Healthcare exposure : The client had 2 or more visits at any of the following locations (oncology [including chemotherapy or radiation], dialysis, day surgery, day hospital, transfusion clinic, interventional radiology or emergency department) OR had a single visit to the emergency department for more than or equal to 24 hours.

	efinitions for Constitutional Criteria in Residents of Personal Care Homes (PCH)				
Α.	Fever 1) Single oral temperature greater than 37.8°C OR				
	 Repeated oral temperatures greater than 37.2°C or rectal temperatures greater than 37.5°C OR 				
		reater than 1.1ºC over baseline from any site (oral, tympanic, axillary)			
В.	Leukocytosis				
	1) Greater than 10 x 10	^a leukocytes/L			
C.	Acute change in mental s	tatus from baseline (all criteria must be present; see Table 2)			
	1) Acute onset				
	2) Fluctuating course				
	3) Inattention				
	4) Either disorganized t	ninking or altered level of consciousness			
D.	Acute functional decline				
υ.		se in total activities of daily living (ADL) score (range, 0-28) from baseline, based on the following 7 ADL items, each scored from 0			
	(independent) to 4 (to				
a) Bed mobility					
	b) Transfer				
	c) Locomotion with	in PCH			
	d) Dressing				
	e) Toilet use				
	f) Personal hygien	e			
	g) Eating				
Tah	le 2				
	nfusion Assessme	nt Method Criteria			
		ed during a formal interview with the client.			
	FERIA	COMMENTS			
	e onset	Evidence of acute change in resident's mental status from baseline			
Fluctuating		Behavior fluctuating (e.g., coming and going or changing in severity during the assessment)			
		Resident has difficulty focusing attention (e.g., unable to keep track of discussion or easily distracted)			
	rganized thinking	Resident's thinking is incoherent (e.g., rambling conversation, unclear flow of ideas, unpredictable switches in subject)			
	ed level of consciousness	Resident's level of consciousness is described as different from baseline (e.g., hyperalert, sleepy, drowsy, difficult to arouse,			
	nonresponsive)				

Source: Surveillance Definitions of Infections in Canadian Long Term Care Facilities, IPAC News, Fall 2017

Acute Care Surveillance Indicators				
Health care-associated infections (HAI) – total Source: National Healthcare Safety Network (NHSN) Patient Safety Component Manual, Chapter 2 Identifying Healthcare-associated Infections (HAI) for NHSN Surveillance, January 2019				
SH-SS HAI rate /1000 client days Includes targeted and non-targeted HAIs	To standardize the classification of an infection as present on admission (POA) or a healthcare-associated infection (HAI), the following objective surveillance definitions and guidance are used. Note: This does not apply to surgical site infections (SSI) surveillance. Date of Event (DOE) The DOE is the date of the first documented localized sign or symptom used to meet the specific site of infection criterion. For example, diarrhea, site-specific pain, purulent drainage are localized signs or symptoms. Note that a non-specific sign or	Total # of all HAIs x 1000 Total # of client days*		
2017-2018: Acute 2.5	symptom for example, fever is not considered to be localized. Therefore if fever presented 2 days prior to localized signs or symptoms, the day the fever presented is not considered the DOE. Note: accurate determination of DOE is critical because DOE is used to determine if an infection is HAI or POA, location of attribution, and device association. Present on Admission (POA)			
	An infection is considered POA if the DOE occurs during the POA time period, which is defined as the day of admission to an inpatient location (calendar day 1), the 2 days before admission, and the calendar day after admission.			
	Health Care-associated Infection (HAI) The infection is considered HAI if the DOE occurs on or after the 3 rd calendar day of admission to an inpatient location where day of admission is calendar day 1.			
	Infections occurring in newborns with date of event on hospital day 1 or day 2 are considered POA. Those with date of event on day 3 or later are HAI. This includes infections acquired transplacentally (for example but not limited to herpes simplex, toxoplasmosis, rubella, cytomegalovirus, or syphilis) or as a result from passage through the birth canal.			
	Reactivation of a latent infection is not considered to be a HAI, for example but not limited to herpes, shingles, syphilis, or tuberculosis.			
	Repeat Infection Timeframe (RIT) The RIT is a 14-day timeframe during which no new infections of the same type are reported. RIT applies to both POA and HAI determinations. The DOE is Day 1 of the 14-day RIT. If criteria for the same type of infection are met and the DOE is within the 14-day RIT, a new infection is not reported. The RIT applies during a client's single admission, including the day of discharge and the day after, in keeping with the Transfer Rule. An RIT does not carry over from one admission to another even if readmission is to the same facility.			
	Transfer Rule If the DOE is on the date of transfer or discharge, or the next day, the infection is attributed to the transferring/discharging location. This is called the Transfer Rule. If the client was in multiple locations within the transfer rule time frame, attribute the infection to the <u>first</u> location in which the client was housed the <u>day before</u> the infection's DOE. Receiving locations or facilities should share information about such HAIs with the transferring location or facility to enable accurate reporting.	*For acute care surveillance, client days refers to Adult and Child – Inpatients (includes all inpatients except newborns).		

	Location of Attribution (LOA)	
	The LOA is the inpatient location where the client was assigned on the date of infection.	
Antibiotic Resis		
	Nosocomial Infection Surveillance Program (CNISP) 2017 Surveillance Protocol for MRSA Infections in CNISP Hospitals (revised	January 23, 2017)
	Health, Seniors and Active Living ARO Definitions, November 2018	
Methicillin	MRSA data is reported in two categories:	
Resistant	Cases of new colonization (new cases of MRSA never been reported previously)	
Staphylococcus aureus (MRSA)	Cases of new infection (in new and known cases of MRSA)	
	COLONIZATION	
SH-SS HA MRSA		
colonization rate	MRSA new colonization surveillance inclusion criteria:	
/1000 client days	Isolation of <i>Staphylococcus aureus</i> from any body site AND	
2017-2018:	Resistance of isolate to oxacillin AND	
Acute 0.1	 Client must be admitted to a health care facility (includes ER and outpatients who tested positive for MRSA and then 	
	are subsequently admitted or are admitted but still in ER awaiting a bed on a ward).	
	AND	
	Is "a newly identified MRSA case".	
	This includes:	
	Cases not previously known to be MRSA positive	
	New MRSA cases that do not meet the infection definition	
	This does not include:	
	MRSA cases previously identified	
	 Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted 	
	Cases re-admitted with MRSA	
	HA MRSA colonization case definition	Total # of new HA MRSA
	Must meet the MRSA surveillance inclusion criteria above	colonizations in new MRSA
	AND	<u>cases</u> x1000
	Must meet at least one of the following criteria:	Total # of client days
	Diagnosis of MRSA was made by a culture positive sample collected greater than or equal to 2 calendar days after	
	admission to your facility (admission considered day 1; diagnosis made at day 3 or beyond)	
	AND	
	No medical history of previous MRSA	
	 Diagnosis of MRSA was made by a culture positive sample collected within 2 calendar days (admission considered day 1; diagnosis made prior to day 3) of admission to your facility 	
	AND	
	Medical history in previous 12 months at your facility including one or more of the following:	
	a) Admission to your facility	
	b) Dialysis	

 e) Placement of indivelling catheters or medical devices that pass through the skin into the body b) Expression MRSA was made poor us discharge from your facility by a culture positive sample for MRSA collected within 2 calendar days (admission considered day 1: diagnosis make prior to day 3) of admission to a receiving facility c) Nonates to 1 year of age: The identification of header to creass associated MRSA in the neonatal period is complicated by the possibility of perinatal acquisition of these organisms. The identification of head the unit. a) The initial hospital stay was less than 3 calendar days and infant subsequently presented to the same hospital within 14 days of the initial discharge OR b) The initial hospital stay was less than 3 calendar days and the infant subsequently presented to the same hospital within 14 days of the initial discharge OR b) The initial hospital stay was equal to or greater than 3 calendar days and the infant subsequently presented to the same hospital within 14 days of the initial discharge NEECTION MRSA infection surveillance inclusion criteria: is Isolation of Staphylococcus aureus from any body sile ADD Restance of isolate to exacillin ADD Client must be admitted to a health care facility (includes ER and outpatients who tested positive for MRSA and then a subsequently admitted or are admitted but still in ER availing a bed on a vard). ADD is 's newly identified MRSA case'. ADD Kest the criteria for MRSA infection as determined using the surveillance definitions for specific infections, and in ascordance with the best uidgement of the health hear a racion indentified in a previous surveillance finated with MRSA infection identified for the first time during this current admission. MRSA infe		I
SH-SS HA MRSA infection rate/1000 client days Isolation of Staphylococcus aureus from any body site AND Isolation of Staphylococcus aureus from any body site AND 2017-2018: Acute 0.1 Resistance of isolate to axacillin AND Isolation of Staphylococcus aureus from any body site AND 2017-2018: Acute 0.1 Isolation of MRSA infection author are admitted to a health care facility (includes ER and outpatients who tested positive for MRSA and then are subsequently admitted or are admitted but still in ER awaiting a bed on a ward). AND Isolation of MRSA infection in the best judgement of the healthcare and /or infection prevention and control practitioner at the time of hospital admission or identified during hospitalization. *This includes: MRSA infection identified for the first time during this current admission. • MRSA infection identified a new (different) site in a client with a MRSA respiratory infection. Same client admitted in 2017 and identified with SSI MRSA infection. The client would be counted as a new infection in 2017. This does not include: MRSA infections previously identified • MRSA infection serviously identified Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted • Infections re-admitted with MRSA surveillance inclusion criteria above AND Total # of new HA MRSA infections (in new and known cases)x1000	 d) Placement of indwelling catheters or medical devices that pass through the skin into the body Diagnosis of MRSA was made post discharge from your facility by a culture positive sample for MRSA collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to a receiving facility Neonates to 1 year of age: The identification of health care-associated MRSA in the neonatal period is complicated by the possibility of perinatal acquisition of these organisms. The identification of MRSA should prompt an investigation of colonization of the mother and other neonates in the unit. a) The initial hospital stay was less than 3 calendar days and infant subsequently presented to the same hospital within 14 days of their initial discharge OR b) The initial hospital stay was equal to or greater than 3 calendar days and the infant subsequently presented 	
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Infections re-admitted with MRSA unless it is a new/different site of MRSA infection. HA MRSA clinical infection case definition Must meet the MRSA surveillance inclusion criteria above AND Total # of new HA MRSA infections (in new and	MRSA infections previously identified	
Must meet the MRSA surveillance inclusion criteria above infections (in new and AND known cases) x1000		
AND <u>known cases</u> x1000	HA MRSA clinical infection case definition	
		-
	AND Must meet at least one of the following criteria:	Total # of client days

	 Diagnosis of MRSA was made by a culture positive sample collected greater than or equal to 2 calendar days after admission to your facility (admission considered day 1; diagnosis made at day 3 or beyond) AND No medical history of previous MRSA Diagnosis of MRSA was made by a culture positive sample collected within 2 calendar days (admission considered day 1; diagnosis made prior to day 3) of admission to your facility AND Medical history in previous 12 months at your facility including one or more of the following: Admission to your facility Dialysis Surgery (including day surgery) Placement of indwelling catheters or medical devices that pass through the skin into the body. Diagnosis of MRSA was made post discharge from your facility by a culture positive sample for MRSA collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to a receiving facility. Neonates to 1 year of age: The identification of health care-associated MRSA in the neonatal period is complicated by the possibility of perinatal acquisition of these organisms. The identification of MRSA should prompt an investigation of colonization of the mother and other neonates in the unit. The initial hospital stay was less than 3 calendar days and infant subsequently presented to the same hospital
	within 14 days of their initial discharge
	OR b) The initial boosticl stay was equal to an greater than 2 calender days and the infert subacquartly presented to
	b) The initial hospital stay was equal to or greater than 3 calendar days and the infant subsequently presented to the same hospital any time within the first year of initial discharge
Source: 1) Manitoba I 2) 2018 CNIS	tant Enterococci Bloodstream Infections Health, Seniors and Active Living ARO Definitions, November 2018 P HAI Surveillance Case definitions
Vancomycin Resistant <i>Enterococci</i> (VRE)	VRE surveillance is only required for bloodstream infections. The following definitions are used for the purposes of identification and surveillance classification of VRE bloodstream infection cases.
	VRE surveillance inclusion criteria:
SH-SS HA VRE bloodstream	Isolation of <i>Enterococcus faecalis or faecium</i> from blood AND
infection rate/1000 client days	Resistance of isolate to vancomycin AND AND
2017-2018: Acute no data	 Client must be admitted to a health care facility (includes ER and outpatients who tested positive for MRSA and then are subsequently admitted or are admitted but still in ER awaiting a bed on a ward). AND
	 Is a "newly identified VRE BSI" at the time of admission or identified during stay. A new VRE BSI is defined as a positive VRE blood isolate greater than 14 days after completing of therapy for a previous infection and felt to be unrelated to previous infection in accordance with best clinical judgement by ICP and physician.
	This does not include:
	Emergency, clinic, or other outpatient cases (e.g., physiotherapy) who are not admitted

	Health Care-Associated (HA) VRE bloodstream infection case definition	Total # of new HA VRE
	Must meet the VRE surveillance inclusion criteria above	bloodstream infections x1000
	AND	
	Must meet at least one of the following criteria	Total # of client days
	1. Diagnosis of VRE was made by a blood culture positive sample collected greater than or equal to 2 calendar days	
	after admission to your facility (admission considered day 1; diagnosis made at day 3 or beyond)	
	2. Diagnosis of VRE was made by a blood culture positive for VRE collected within 48 hours of admission to your facility	
	ANĎ	
	Medical history in previous 12 months at your facility including one or more of the following:	
	a) Admission to your facility	
	b) Dialysis	
	c) Surgery (including day surgery)	
	d) Placement of indwelling catheters or medical devices that pass through the skin into the body.	
	3. Diagnosis of VRE bacteremia was made post discharge from current facility by a blood culture positive for VRE	
	collected within 48 hours of admission to a receiving facility.	
	4. Neonates to 1 year of age:	
	The identification of health care-associated VRE bacteremia in the neonatal period is complicated by the	
	possibility of perinatal acquisition of these organisms. The identification of VRE should prompt an investigation	
	of colonization of the mother and other neonates in the unit.	
	a) The initial hospital stay was less than 3 calendar days and infant subsequently presented to the same	
	hospital within 14 days of their initial discharge.	
	OR	
	b) The initial hospital stay was equal to or greater than 3 calendar days and the infant subsequently presented	
Carbananamasa B	to the same hospital any time within the fist year of initial discharge. roducing Enterobacteriaceae (CPE)	
	Health, Seniors and Active Living ARO Definitions, November 2018	
Carbapenamase	CPE data is reported in two categories:	
Producing	Cases of new colonization (new cases of CPE never been reported previously)	
Enterobacteriaceae	 Cases of new infection (in new and known cases of CPE) 	
(CPE)	• Cases of new infection (in new and known cases of CPE)	
	COLONIZATION	
SH-SS HA CPE		
colonization rate	CPE surveillance colonization inclusion criteria :	
/1000 client days	 Isolation of a new Carbapenamase Producing Enterobacteriaceae from any body site 	
2017-2018:	AND	
Acute no data	Client must be admitted to a health care facility (includes ER and outpatients who tested positive for MRSA and then	
	are subsequently admitted or are admitted but still in ER awaiting a bed on a ward).	
	AND	
	• Is "a newly identified CPE case".	
	This does not include:	
	 Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted 	
	 Cases re-admitted with the same CPE pathogen as previous admission 	
1		

	HA CPE case definition for a CPE colonization	Total # of HA CPE
	Must meet the CPE surveillance inclusion criteria above	colonizations in new CPE
	AND	cases x1000
	Must meet at least one of the following criteria:	Total # of client days
	 Diagnosis of a new CPE was made by a culture positive sample for CPE collected greater than or equal to 2 calendar days after admission to your facility (admission considered day 1: diagnosis made at day 3 or beyond) AND no medical history of previous similar CPE infection or colonization. Diagnosis of new CPE was made by a culture positive sample for CPE collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to current facility AND Medical history in the previous 12 months at your facility including one or more of the following: a) Admission to your facility b) Dialysis c) Surgery (including day surgery) d) Placement of indwelling catheters or medical devices that pass through the skin into the body Diagnosis of new CPE was made post discharge from your facility by a culture positive sample for CPE collected within 2 calendar days (admission to a receiving facility 4. Neonates to 1 year of age: The identification of health care-associated CPE in the neonatal period is complicated 	Total # of client days
	 by the possibility of perinatal acquisition of these organisms. The identification of CPE should prompt an investigation of colonization of the mother and other neonates in the unit. a) The initial hospital stay was less than 3 calendar days and infant subsequently presented to the same hospital within 14 days of their initial discharge OR b) The initial hospital stay was equal to or greater than 3 calendar days and the infant subsequently presented to the same hospital any time within the first year of initial discharge 	
	CPE infection surveillance inclusion criteria:	
SH-SS HA CPE infection rate/1000	 Isolation of a new Carbapenamase Producing Enterobacteriaceae from any body site AND 	
client days 2017-2018: Acute no data	 Client must be admitted to a health care facility (includes ER and outpatients who tested positive for MRSA and then are subsequently admitted or are admitted but still in ER awaiting a bed on a ward). AND Is "a newly identified CPE case" AND 	
	 Meets the criteria for CPE infection as determined using the surveillance definitions for specific infections, and in accordance with the best judgement of the healthcare and /or IPC practitioner at the time of hospital admission or identified during hospitalization. 	
	 This does not include: Emergency, clinic, or other outpatient cases (e.g. physiotherapy) who are not admitted Cases re-admitted with the same CPE pathogen as previous admission 	

	Health Care-Associated (HA) CPE case definition	Total # of new HA CPE
	Must meet the CPE surveillance inclusion criteria above	infections (in new and known
	AND	CPE cases) x1000
	Must meet at least one of the following criteria:	Total # of client days
	 Diagnosis of a new CPE was made by a culture positive sample for CPE collected greater than or equal to 2 calendar days after admission to your facility (admission considered day 1: diagnosis made at day 3 or beyond) AND 	
	 No medical history of previous similar CPE infection or colonization Diagnosis of new CPE was made by a culture positive sample for CPE collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to current facility AND 	
	Medical history in the previous 12 months at your facility including one or more of the following:	
	a) Admission to your facility	
	b) Dialysis	
	c) Surgery (including day surgery)	
	 d) Placement of indwelling catheters or medical devices that pass through the skin into the body 3. Diagnosis of new CPE was made post discharge from your facility by a culture positive sample for CPE collected within 2 calendar days (admission considered day 1: diagnosis made prior to day 3) of admission to a receiving facility 4. Neonates to 1 year of age: The identification of health care-associated CPE in the neonatal period is complicated by the possibility of perinatal acquisition of these organisms. The identification of CPE should prompt an investigation of colonization of the mother and other neonates in the unit. 	
	 The initial hospital stay was less than 3 calendar days and infant subsequently presented to the same hospital within 14 days of their initial discharge OR 	
	b) The initial hospital stay was equal to or greater than 3 calendar days and the infant subsequently presented to the same hospital any time within the first year of initial discharge	
	To classify the case as an infection versus colonization, the case needs to meet the case definition for an infection at time of culture or within 72 hours of when the culture was taken (i.e., signs and symptoms appear within 3 days of specimen collection). Where cases of CPE have been previously identified as CPE and present with a new CPE organism, these cases would be considered new cases.	
Clostridium difficil		
Source: 1) Governmer	nt of Manitoba. Communicable Disease Management Protocol. Clostridioides difficile Infection (CDI), February 2019 dian Nosocomial Infection Surveillance Project (CNISP) definitions for CDI	
Clostridium	Clostridium difficile Infection (CDI)	Total # of new HA CDI
difficile Infection	A client is identified as having CDI if at least one of the following criteria is met:	<u>cases</u> x 1000
(CDI)	1. The client has diarrhea* or fever, abdominal pain and/or ileus AND a laboratory confirmation of a positive toxin assay	Total # of client days
SH-SS HA CDI rate /1000 client days	or positive polymerase chain reaction (PCR) for <i>C. difficile</i> (without reasonable evidence of another cause of diarrhea) 2. The client has a diagnosis of pseudomembranes on sigmoidoscopy or colonoscopy (or after colectomy) or histological/pathological diagnosis of CDI	
2017-2018: Acute 0.1	3. The client is diagnosed with toxic megacolon (in adult clients only)	
	* Diarrhea is defined as one of the following:	
	a) 6 or more watery/unformed stools in a 36-hour period	
1	b) 3 or more watery/unformed stools in a 24-hour period and this is new or unusual for the client (in adult clients only)	

	This does not include:	
	Any clients aged less than 1 year	
	• Any pediatric clients (aged 1 year to less than 18 years) with alternate cause of diarrhea found (i.e., rotavirus,	
	norovirus, enema or medication, etc.) are excluded even if C. difficile diagnostic test result is positive	
	Recurrent cases of CDI**	
	HA CDI case definition – acquired in your facility must meet at least one of the following criteria:	
	1. Related to the current admission	
	a) The client's CDI symptoms occur in your healthcare facility 3 or more days (or greater than or equal to 72 hours)	
	after admission.	
	2. Related to a previous admission	
	a) Inpatient: The client's CDI symptoms occur less than 3 days after the current admission (or less than 72 hours)	
	AND the client had been previously admitted at your healthcare facility and discharged within the previous 4 weeks.	
	b) Outpatient: The client previously admitted at your heathcare racinty and discharged within the previous 4 weeks.	
	AND	
	the client had been previously admitted at your healthcare facility and discharged within the previous 4 weeks.	
	3. Related to a previous healthcare exposure*** at your facility	
	a) Inpatient: The client's CDI symptoms occur less than 3 days after the current admission (or less than 72 hours)	
	AND	
	the client had a previous healthcare exposure*** at your facility within the previous 4 weeks.	
	b) Outpatient: The client presents with CDI symptoms at your ER or outpatient location AND the client had a	
	previous healthcare exposure*** at your facility within the previous 4 weeks.	
	** Recurrent CDI: A recurrent CDI is defined as an episode of CDI that occurs in a client less than or equal to 8 weeks	
	following the diagnostic test date of the primary episode of CDI, providing the client was treated successfully for the primary	
	episode and symptoms of CDI resolved completely.	
	A primary episode of CDI is defined as either the first episode of CDI ever experienced by the client or a new episode of CDI	
	that occurs greater than 8 weeks after the diagnosis of a previous episode in the same client. A new episode of CDI that	
	occurs after 8 weeks following the diagnostic test date of the primary episode of CDI is considered a new infection.	
	*** Healthcare exposure: The client had 2 or more visits at any of the following locations (oncology [including	
	chemotherapy or radiation], dialysis, day surgery, day hospital, transfusion clinic, interventional radiology or emergency	
	department) OR had a single visit to the emergency department for more than or equal to 24 hours.	
Skin and Soft Tis		
	Ithcare Safety Network (NHSN) Patient Safety Component Manual Chapter 7: CDC/NHSN Surveillance Definitions for Specific Ty	
Skin and soft	HA Skin and Soft Tissue Infection	Total # of HA SSTI
tissue Infections (SSTI)	A. HA Skin infection Must meet at least one of the following criteria:	cases x1000 Total # of client days
	1. Client has at least one of the following:	rotal # Or Client days
SH-SS HA SSTI	a. Purulent drainage	
rate/1000 client	b. Pustules	
days		
2017-2018:	c. Vesicles	
		1

	d. Boils (excluding acne)	
Acute 0.2	2. Client has at least two of the following localized signs or symptoms: Pain or tenderness, swelling, erythema, or heat	
	with no other recognized cause	
	And	
	at least one of the following criteria:	
	a. Organism(s) identified from aspirate or drainage from affected site by a culture or non-culture based	
	testing method which is performed for purposes of clinical diagnosis and treatment. Identification of 2 or more common commensal organisms without a recognized pathogen is not eligible for use. Common	
	Commensal organisms include, but are not limited to, diphtheroids (Corynebacterium spp. not C.	
	diphtheria), Bacillus spp. (not B. anthracis), Propionibacterium spp., coagulase-negative staphylococci	
	(including S. epidermidis), viridans group streptococci, Aerococcus spp., Micrococcus spp, and	
	Rhodococcus spp.	
	b. Multinucleated giant cells seen on microscopic examination of affected tissue	
	c. Diagnostic single antibody titer (IgM) or 4-fold increase in paired sera (IgG) for organism	
	B. HA Soft tissue infections	
	Must meet at least one of the following criteria:	
	1. Client has organism(s) identified from tissue or drainage from affected site by a culture or non-culture based	
	microbiologic testing method which is performed for purposes of clinical diagnosis or treatment	
	2. Client has purulent drainage at affected site	
	3. Client has an abscess or other evidence of infection on gross anatomic or histopathological exam	
	C. HA Decubitus ulcer infection (also known as pressure injury infection) including both superficial and deep infections	
	Must meet all of the following criteria: 1. Client has at least two of the following signs or symptoms: erythema, tenderness, or swelling of decubitus wound	
	edges (with no other recognized cause),	
	AND	
	2. Organism(s) identified from needle aspiration of fluid or biopsy of tissue from ulcer margin by a culture or non-	
	culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment.	
Urinary Tract Infe		
Source: National Heal 2019	thcare Safety Network (NHSN) Patient Safety Component Manual Chapter 7: CDC/NHSN Surveillance Definitions for Specific T	ypes of Infections, January
Urinary Tract	HA Symptomatic Urinary Tract Infection	Total # of HA
Infection (UTI)		symptomatic UTI cases (non-
SH-SS HA	A. Non-Catheter associated UTI Must meet criterion 1, 2 and 3	CAUTI and CAUTI) x1000 Total # of client days
symptomatic UTI	1. One of the following is true:	
rate/1000 client	a. Client has/had an indwelling urinary catheter but it has/had not been in place for more than 2 consecutive	
days	days on the date of event	
2017-2018:	OR b. Client did not have an indwelling urinary catheter in place on the date of event nor the day before the date	
Acute 0.8	of event.	
	2. Client has at least one of the following signs or symptoms (with no other recognized cause):	

 b. Suprapubic tenderness (with no other recognized cause) c. Costovertebral angle pain or tenderness (with no other recognized cause), d. Urinary frequency e. Urinary urgency f. Dysuria 3. Client has a urine culture with no more than two species of organisms identified, at least one of which is a bacterium of greater than or equal to 10⁸cfu/L. Fever is a non-specific symptom of infection and cannot be excluded from UTI determination because it is clinically deemed
SH-SS HA

	Acute Care (surgical sites only) – HA Surgical Site Infection Definitions		
Surgical Site Infe			
	thcare Safety Network (NHSN) Patient Safety Component Manual Chapter 9: Surgical Site Infection (SSI) Event, January 2019		
Surgical Site Infection (SSI)	HA Surgical Site Infection applies to clean or clean contaminated targeted surgical procedures	Total # of HA SSI cases in targeted	
SH-SS rate of HA SSI for all targeted surgical procedures (combined)/100 targeted surgical procedures	The targeted surgical procedures are: • Open hernia repair • Vaginal or abdominal hysterectomy • Open colorectal surgery • Caesarian section • Total joint arthroplasty (hip or knee) • Open hip reduction	surgical procedures x100 Total # of targeted surgical procedures	
2017-2018: 2.5%	HA SSIs must meet at least ONE of the following definitions		
SH-SS rate of HA SSI for each targeted surgical procedures/100 targeted surgical procedures	 A. Superficial incisional SSI Must meet the following criteria: Date of event for infection occurs within 30 days after any operative procedure (where day 1 = the procedure date) AND Involves only skin and subcutaneous tissue of the incision AND Client has at least one of the following: 		
Open hernia repair 2017-2018: 1.9%	 a. Purulent drainage from the superficial incision b. Organisms identified from an aseptically obtained specimen from the superficial incision or subcutaneous tissue by a culture or non-culture based microbiologic testing method which is performed for purposes of 		
Vaginal or abdominal hysterectomy 2017-2018: 3.1%	 clinical diagnosis or treatment. c. Superficial incision that is deliberately opened by a surgeon, attending physician* or other designee and culture or non-culture based testing of the superficial incision or subcutaneous tissue is not performed AND Client has at least one of the following signs or symptoms: localized pain or tenderness; localized swelling; 		
Open colorectal surgery 2017-2018: 9.1%	d. Diagnosis of a superficial incisional SSI by the surgeon or attending physician* or other designee.		
Caesarian section 2017-2018: 3.5%	*The term attending physician for the purposes of application of the NHSN SSI criteria may be interpreted to mean the surgeon(s), infectious disease, other physician on the case, emergency physician or physician's designee (nurse practitioner or physician's assistant).		
Total joint arthroplasty (hip or knee) 2017-2018: 1.4% Open hip reduction 2017-2018: 0%	 The following do not qualify as criteria for meeting the NHSN definition of superficial SSI: Diagnosis/treatment of cellulitis (redness/warmth/swelling), by itself, does not meet criterion "d" for superficial incisional SSI. Conversely, an incision that is draining or that has organisms identified by culture or non-culture based testing is not considered a cellulitis. A stitch abscess alone (minimal inflammation and discharge confined to the points of suture penetration). A localized stab wound or pin site infection is not considered an SSI; depending on the depth, these infections might be considered either a skin or soft tissue infection A laparoscopic trocar site is considered a surgical incision and not a stab wound. 		

 Circumcision is not an NHSN operative procedure. An infected circumcision site in newborns is classified as a newborn circumcision infection and is not an SSI. An infected burn wound is classified as a burn infection and is not an SSI.
 B. Deep incisional SSI Must meet the following criteria: The date of event for Infection occurs within 30 or 90 days after the operative procedure (where day 1 = the procedure date) according to the list in Table 3. AND Involves deep soft tissues of the incision (e.g., fascial and muscle layers) AND Client has at least one of the following: a. Purulent drainage from the deep incision b. A deep incision that spontaneously dehisces, or is deliberately opened or aspirated by a surgeon, attending physician* or other designee AND Organism(s) identified from the deep soft tissues of the incision by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment or culture or non-culture based microbiologic testing method is not performed. A culture or non-culture based test from the deep soft tissues of the incision that has a negative finding does not meet this criterion. AND Client has at least one of the following signs or symptoms: Fever (greater than or equal to 38°C); localized pain or tenderness. c. An abscess or other evidence of infection involving the deep incision that is detected on gross anatomical or histopathologic exam, or imaging test.
 C. Organ/Space SSI Must meet the following criteria: Date of event for infection occurs within 30 or 90 days after the operative procedure (where day 1 = the procedure date) according to the list in Table 3. AND Infection involves any part of the body deeper than the fascial/muscle layers, that is opened or manipulated during the operative procedure AND Client has at least one of the following: Purulent drainage from a drain that is placed into the organ/space (e.g., closed suction drainage system, open drain, T-tube drain, CT guided drainage) Organism(s) are identified from fluid or tissue in the organ/space by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment. An abscess or other evidence of infection involving the organ/space that is detected on gross anatomical or histopathologic exam, or imaging test evidence suggestive of infection. AND Meets at least one criterion for a specific organ/space infection site listed in Table 4.

	cal Site Infections: Evidence Based Strategies	
Timely Administration of Preoperative Prophylactic Antibiotic Target - 95% or higher SH-SS rate of clients with timely administration of preoperative antibiotic for targeted surgical procedures/100 targeted surgical procedures Open colorectal surgery 2017-2018: 67.2% Caesarian section	 are Now! Prevent Surgical Site Infections – Getting Started Kit, December 2014. Timely Preoperative Prophylactic Antibiotic Administration Indicator Definition: Clean and clean-contaminated targeted surgical clients with timely preoperative prophylactic antibiotic administration prior to first surgical incision. The targeted surgical procedures are: Clean and clean-contaminated open colorectal Clean and clean-contaminated Cesarean section. Guideline Preoperative prophylactic antibiotic infusion to be started and completed within 60 minutes for most antibiotics, or within 120 minutes for vancomycin and fluoroquinolones prior to skin incision or application of tourniquet. Preoperative prophylactic antibiotic administration should be started and completed within 60 minutes prior to first incision for c-sections instead of after cord clamping. The auditor measures the timing of the antibiotic administration from antibiotic start time to surgical (incision) start time. If either time is missing, count as NOT obtaining prophylactic antibiotic on time. Applies to clean or clean contaminated targeted operative procedures only; dirty and contaminated cases are excluded. 	Total # of targeted surgical clients who received timely administration of preoperative prophylactic <u>antibiotic</u> x100 Total # of targeted surgical procedures
2017-2018: 77.2% Normothermia in	Perioperative Normothermia	
PACU Target - 95% or higher SH-SS rate of clients with normothermia on arrival to the PACU for targeted surgical procedures/100 targeted surgical procedures Open colorectal surgery 2017-2018: 91% Caesarian section 2017-2018: 85.4%	 Indicator Definition: Clean and clean-contaminated targeted surgical clients with normothermia (36.0°C - 38.0°C) on arrival to the post-anesthesia care unit (PACU). The targeted surgical procedures are: Clean and clean-contaminated open colorectal Clean and clean-contaminated Cesarean section. Guideline Measures should be taken to ensure that the core temperature of surgical patients remains between 36.0°C and 38.0°C pre-operatively, intra-operatively, and postoperatively. In PACU, the client temperature is measured and documented on admission to PACU and then every 15 minutes. The auditor uses the first temperature recorded on admission to PACU (within 15 minutes of admission to PACU). Applies to clean or clean contaminated targeted operative procedures only; dirty and contaminated cases are excluded. 	Total # of targeted surgical clients with normothermia on <u>arrival to the PACU</u> x100 Total # of targeted surgical procedures

Code	Operative Procedure	Code	Operative Procedure	
AAA	Abdominal aortic aneurysm repair	LAM	Laminectomy	
AMP	Limb amputation	LTP	Liver transplant	
APPY	Appendix surgery	NECK	Neck surgery	
AVSD	Shunt for dialysis	NEPH	Kidney surgery	
BILI	Bile duct, liver or pancreatic surgery	OVRY	Ovarian surgery	
CEA	Carotid endarterectomy	PRST	Prostate surgery	
CHOL	Gallbladder surgery	REC	Rectal surgery	
COLO	Colon surgery	SB	Small bowel surgery	
CSEC	Cesarean section	SPLE	Spleen surgery	
GAST	Gastric surgery	THOR	Thoracic surgery	
HTP	Heart transplant	THYR	Thyroid and/or parathyroid surgery	
			Vaginal hystorestamy	
HYST	Abdominal hysterectomy	VHYS	Vaginal hysterectomy	
HYST KTP	Abdominal hysterectomy Kidney transplant	XLAP	Exploratory Laparotomy	
KTP	Kidney transplant		Exploratory Laparotomy	
KTP BRST	Kidney transplant Breast surgery	XLAP	Exploratory Laparotomy	
KTP BRST CARD	Kidney transplant Breast surgery Cardiac surgery	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and detection	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and do Coronary artery bypass graft with chest incision online	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC CRAN	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and de Coronary artery bypass graft with chest incision onl Craniotomy	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC CRAN FUSN	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and de Coronary artery bypass graft with chest incision onl Craniotomy Spinal fusion	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC CRAN FUSN FX	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and de Coronary artery bypass graft with chest incision onl Craniotomy Spinal fusion Open reduction of fracture	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC CRAN FUSN FX HER	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and do Coronary artery bypass graft with chest incision onl Craniotomy Spinal fusion Open reduction of fracture Herniorrhaphy	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC CRAN FUSN FX HER HPRO	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and de Coronary artery bypass graft with chest incision onl Craniotomy Spinal fusion Open reduction of fracture Herniorrhaphy Hip prosthesis	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC CRAN FUSN FX HER HPRO KPRO	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and de Coronary artery bypass graft with chest incision onl Craniotomy Spinal fusion Open reduction of fracture Herniorrhaphy Hip prosthesis Knee prosthesis	XLAP 90-day Surveillanc	Exploratory Laparotomy	
KTP BRST CARD CBGB CBGC CRAN	Kidney transplant Breast surgery Cardiac surgery Coronary artery bypass graft with both chest and de Coronary artery bypass graft with chest incision onl Craniotomy Spinal fusion Open reduction of fracture Herniorrhaphy Hip prosthesis	XLAP 90-day Surveillanc	Exploratory Laparotomy	

Table 3. Surveillance Periods for SSI Following Selected NHSN Operative Procedure Categories. Day 1 = the date of the procedure. 30-day Surveillance

Note: Superficial incisional SSIs are only followed for a 30-day period for all procedure types.

Source: National Healthcare Safety Network (NHSN) Patient Safety Component Manual Chapter 9: Surgical Site Infection (SSI) Event, January 2019

Table 4. Specific Sites of an Organ/Space SSI.

Code	Site	Code	Site
BONE	Osteomyelitis	MED	Mediastinitis
BRST	Breast abscess or mastitis	MEN	Meningitis or ventriculitis
CARD	Myocarditis or pericarditis	ORAL	Oral cavity infection (mouth, tongue, or gums)
DISC	Disc space infection	OREP	Deep pelvic tissue infection or other infection of the male
			or female reproductive tract
EAR	Ear, mastoid infection	PJI	Periprosthetic joint infection
EMET	Endometritis	SA	Spinal abscess infection
ENDO	Endocarditis	SINU	Sinusitis
GIT	Gastrointestinal (GI) tract infection	UR	Upper respiratory tract, pharyngitis, laryngitis, epiglottitis
IAB	Intraabdominalinfection, not specified elsewhere	USI	Urinary System Infection
IC	Intracranial infection	VASC	Arterial or venous infection
JNT	Joint or bursa infection	VCUF	Vaginal cuff infection
LUNG	Other infections of the lower respiratory tract		

(Criteria for these sites can be found in the Surveillance Definitions for Specific Types of Infections chapter).

Source: National Healthcare Safety Network (NHSN) Patient Safety Component Manual Chapter 9: Surgical Site Infection (SSI) Event, January 2019

Hand Hygiene Ol	bservational Audit Indicator Definitions	
Source: Hand Hygie	ne Compliance Monitoring and Reporting – Quality and Patient Safety Council, Manitoba Health, Seniors and Activ	e Living, April 26, 2017
Hand Hygiene	Hand Hygiene Observational audit	
Observational audit	NOTE: Data on hand hygiene (HH) compliance is used for comparison at the regional and provincial level. A higher number of observed opportunities will generate a more reliable and representative HH compliance rate.	
The GOAL for HH compliance is 80%, with an overall target of 100% compliance.	The provincially set target for facilities according to the number of beds is as follows: 25 or less = 50/quarter 26-50 = 100/quarter 51-100 = 200/quarter 101-150 = 300/quarter	
SH-SS compliance rate of HCW	Audits are conducted regularly and submitted preferably monthly but at minimum quarterly.	
performing hand hygiene when opportunities arise /100 hand hygiene opportunities	Compliance by Moment/Indication The percentage of client encounters for which there was compliance by health care workers with Moment 1: Before client or client environment contact according to the hand hygiene policy/4 Moments Hand Hygiene Monitoring Tool	Total # of Moment 1 hand <u>rub/wash compliance</u> x100 Total # of Moment 1 hand rub/wash indications
Acute 2017-2018: 68%	The percentage of client encounters for which there was compliance by health care workers with Moment 2: Before aseptic technique/procedure according to the hand hygiene policy/4 Moments Hand Hygiene Monitoring Tool	Total # of Moment 2 hand rub/wash compliance x100
PCH 2017-2018: 85.1%		Total # of Moment 2 hand rub/wash indications
	The percentage of client encounters for which there was compliance by health care workers with Moment 3: After blood or body fluid contact according to the hand hygiene policy/4 Moments Hand Hygiene Monitoring Tool	Total # of Moment 3 hand <u>rub/wash compliance</u> x100 Total # of Moment 3 hand rub/wash indications
	The percentage of client encounters for which there was compliance by health care workers with Moment 4: After client or client environment contact according to the hand hygiene policy/4 Moments Hand Hygiene Monitoring Tool	Total # of Moment 4 hand <u>rub/wash compliance</u> x100 Total # of Moment 4 hand rub/wash indications
	Compliance by Opportunity The percentage of hand hygiene compliance by health care workers meeting the need to perform hand hygiene according to the hand hygiene policy captured by trained auditors using the 4 Moments for Hand Hygiene Observation Tool.	Total # of hand rub/wash <u>compliant opportunities</u> x100 Total # of opportunities

References

Canadian Nosocomial Infection Surveillance Program (CNISP) 2017 Surveillance Protocol for MRSA Infections in CNISP Hospitals, Revised January 23, 2017. Available from: <u>https://www.ammi.ca/Guideline/35.ENG.pdf</u>

Government of Manitoba. Communicable Disease Management Protocol. Clostridioides difficile Infection (CDI), February 2019. Available from: <u>https://www.gov.mb.ca/health/publichealth/cdc/protocol/cdi.pdf</u>

Hand Hygiene Compliance Monitoring and Reporting – Quality and Patient Safety Council, Manitoba Health, Seniors and Active Living, April 26, 2017. Available from:

https://portal/collaboration/StaffDev/Infection%20Prevention%20and%20Control/Hand%20Hygiene/MHSAL%20Hand%20Hygiene%20Monitoring%20Reporting%20Process %20doc%202017/HH%20Monitoring%20Reporting%20Process-April%2026-17-FINAL.pdf

Manitoba Health, Seniors and Active Living (MHSAL) ARO Definitions, November 2018. Available from: <u>http://www.gov.mb.ca/health/publichealth/cdc/docs/ipc/aro_definitions.pdf</u>

National Healthcare Safety Network (NHSN) Patient Safety Component Manual, Chapter 2 Identifying Healthcare-associated Infections (HAI) for NHSN Surveillance, January 2019. Available from: <u>https://www.cdc.gov/nhsn/pdfs/pscmanual/2psc_identifyinghais_nhsncurrent.pdf</u>

National Healthcare Safety Network (NHSN) Patient Safety Component Manual Chapter 7: CDC/NHSN Surveillance Definitions for Specific Types of Infections, January 2019. Available from: <u>http://www.cdc.gov/nhsn/PDFs/pscManual/17pscNosInfDef_current.pdf</u>

National Healthcare Safety Network (NHSN) Patient Safety Component Manual Chapter 9: Surgical Site Infection (SSI) Event, January 2019. Available from: <u>https://www.cdc.gov/nhsn/PDFs/pscManual/9pscSSIcurrent.pdf</u>

Public Health Agency of Canada. 2018 Canadian Nosocomial Infection Surveillance Program (CNISP) HAI Surveillance Case definitions. Available from: <u>https://www.ammi.ca/Guideline/53.ENG.pdf</u>

Safer Healthcare Now! Prevent Surgical Site Infections – Getting Started Kit, December 2014. Available from: <u>http://www.patientsafetyinstitute.ca/en/toolsResources/Documents/Interventions/Surgical%20Site%20Infection/SSI%20Getting%20Started%20Kit.pdf</u>

Surveillance Definitions of Infections in Canadian Long Term Care Facilities, IPAC News, Fall 2017. Available from: <u>https://www.patientsafetyinstitute.ca/en/About/PatientSafetyForwardWith4/Documents/Canadian%20LTC%20Surveillance%20Definitions.pdf</u>

2018 Canadian Nosocomial Infection Surveillance Project (CNISP) definitions for CDI. Available from: <u>https://www.ammi.ca/Guideline/44.ENG.pdf</u>