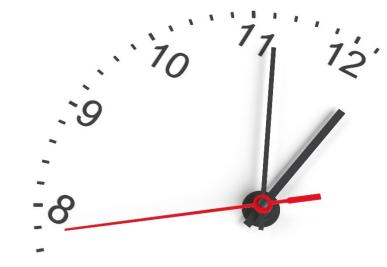
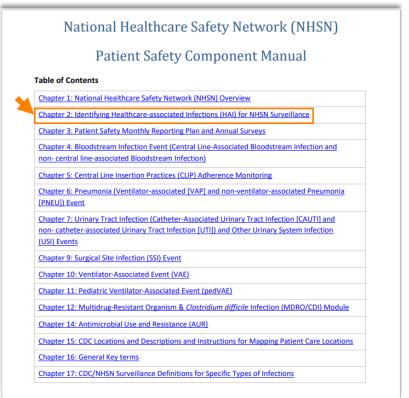


Chapter 2 Overview – It's About Time!

Henrietta Smith, RN, MSN, CIC Lead - NHSN Protocol and Training Team Division of Healthcare Quality Promotion



Chapter 2: Identifying Healthcare-associated Infections (HAI) for NHSN Surveillance



https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual current.pdf

Agenda

Review the following Chapter 2 concepts/principles:

- Infection Window Period (IWP)
- Date of Event (DOE)
- Location of Attribution (LOA)
- Transfer Rule
- Repeat Infection Timeframe (RIT)
- Secondary BSI Attribution Period (SBAP)
- Pathogen Assignment Guidance

Accurate & Complete Reporting





Adherence to the Centers for Disease Control and Prevention's (CDC's) Infection Definitions and Criteria is

Needed to Ensure Accuracy, Completeness, and Comparability of Infection Information

Issue: Ensuring data accuracy is critically important to both the Centers for Disease Control and Prevention (CDC) and the Centers for Medicare and Medicaid Services (CMS) for guiding prevention priorities and protecting patients. CDC and CMS require that all infections that meet the specified MISN critical and that CMS requires for incentive payment or public reporting purposes be reported to NHSN. CDC and CMS are issuing this communication to remind all hospitals of the importance of complete and accurate data for purposes of quality of care measurement and improvement.

Background: The CDC's NHSN is the nation's most comprehensive medical event tracking system used by more than 16,000 U.S. healthcare facilities in all 165 states, Washington, D.C., and Puetro Rico. Data from NHSN is used for tracking of healthcare-associated infections and guides infection prevention activities that protect patients. CMS and other payers use these data to determine incentives for performance and members of the public may use the data to select among available providers. Each of these parties relies on the completeness and accuracy of the data. CDC and CMS are fully committed to ensuring complete and accurate reportings, which is critical for protecting patients and guiding national, state, and local prevention priorities. Identifying infections and making sure that patients receive the highest quality of care is our top priority.

CDC has received reports from NHSN users indicating that in some healthcare facilities, some of the decisions about what infections should be reported to NHSN are made by individuals who may choose to disregard CDC's protocol, definitions, and criteria or who are not thoroughly familiar with the NHSN specifications. While there is no evidence of a widespread problem, CDC and CMS take any deviation from NHSN protocols seriously.

In some instances, these decisions may be made through a review process that overrules the decision of an infection preventionist or hospital epidemiologist to report an infection to NHSN, or clinicians may have departed from standard diagnostic practices to avoid reporting infections to NHSN, for example:

 Ordering diagnostic tests in absence of clinical symptoms. It has been reported that in some instances, when patients are admitted to a hospital, diagnostic microbiology tests are ordered even in the footbase of the footbase

userumssion spital state who become awate of over the from NHSM's repting protocol can diffize internal hospital or health system compliance processes to address the issue

CMS reminds hospitals that intentionally reporting incorrect data, or deliberately failing to report data that are required to be reported, may violate applicable Medicare laws and regulations. The Department of Health and Human Services' (HHS's) Office of Inspector General (OIG) protects the integrity of HHS programs, including Medicare and Medicaid. The Inspector General has the authority to exclude individuals and entities from participation in the Medicare, Medicaid, and other Federal healthcare programs and to impose Civil Monetary Penalties for certain misconduct related to Federal healthcare care programs. Hospital staff who become aware of intentional deviations from NHSN reporting protocols are encouraged to report their concerns to the OIG hotline.

Contacts: For questions about the content of this notice, please contact:

CDC Division of Healthcare Quality Promotion Policy Office
Phone: 404-639-4000
E-mail: DHOP Policy@cdc.gov





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https://www.cdc.gov/nhsn/cms/cms-reporting.html

Excluded Organisms

All organisms are included in HAI criteria except:

- Those well-known to cause community associated infections and have long incubation periods:
 - Blastomyces

Paracoccidioides

Histoplasma

Cryptococcus

Coccidioides

- Pneumocystis
- Organisms associated with latent infections (for example, herpes, shingles, syphilis, or tuberculosis)

The Building Blocks of NHSN Patient Safety Component HAI Surveillance Definitions

Table 1: **Exceptions** to application of Chapter 2

	SSI*	LabID*	VAE*	PedVAE
Infection Window Period (IWP) [†]				
Date of Event (DOE)	<u>e</u>	<u>e</u>	<u>e</u>	<u>e</u>
Present on admission (POA)	icab	icab	icabl	icabl
Healthcare-associated infection (HAI)	Appl	Applicable	Appl	Idd
Repeat Infection Time Period (RIT) [†]	Not A		Not A	
Secondary BSI Attribution Period (SBAP) [†]	Z	Z	Z	Z

[†]Extended in the Endocarditis (ENDO) criteria, see Chapter 17: CDC/NHSN Surveillance Definitions for Specific Types of Infections

^{*}Surveillance protocols for Surgical Site Infection (SSI), Laboratory-Identified (LabID) Event, and Ventilator-Associated Events (VAE)

Infection Window Period (IWP)

7-day window of **time** during which <u>all</u> sitespecific infection criteria must be met.

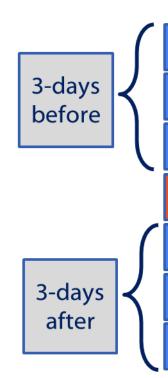
 the collection date of the first positive diagnostic test that is used as an element to meet the site-specific infection criterion,

PLUS

the 3-calendar days before

and

the 3-calendar days after



Infection Window Period

- Examples of diagnostic test *
 - Laboratory specimen collection
 - Imaging test
 - Procedure or exam



- Examples of localized signs or symptoms:
 - Diarrhea
 - Site-specific pain
 - Purulent exudate

^{*} Use the first diagnostic test that creates an infection window period during which all elements of the criterion can be found

Date of Event (DOE)

The date the <u>first</u> element used to meet the CDC NHSN site-specific infection criterion occurs for the <u>first time</u> within the seven-day infection window period

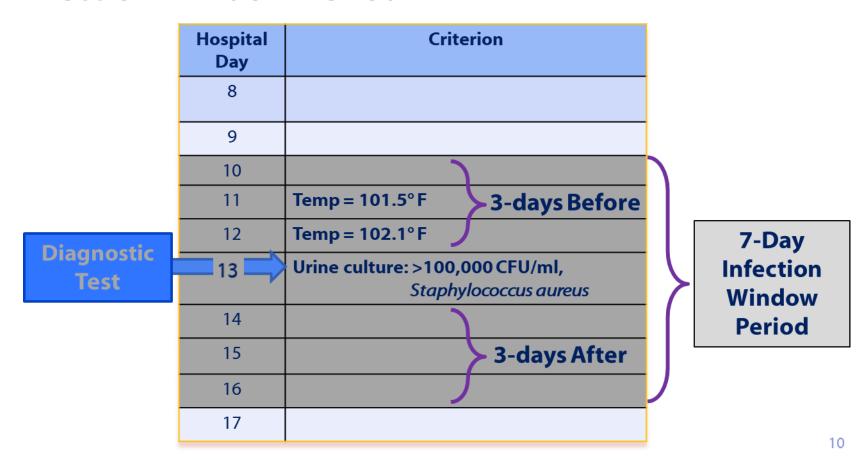
NOTE: The element MAY be present before the

infection window period is established.

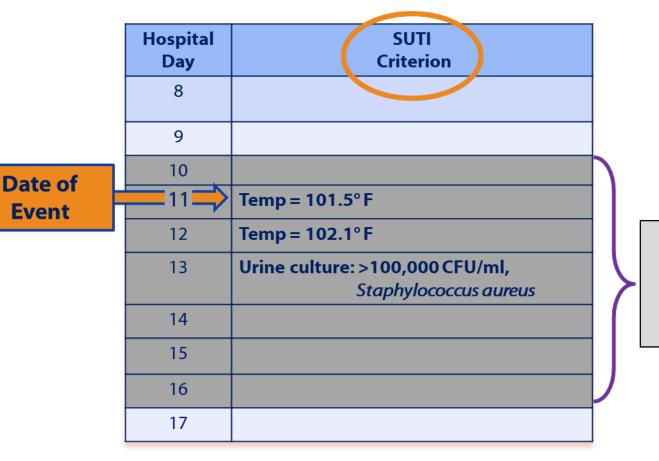
21 days for Endocarditis (ENDO)

NOTE: The DOE may NOT always be the date of the diagnostic test!!!!

Infection Window Period

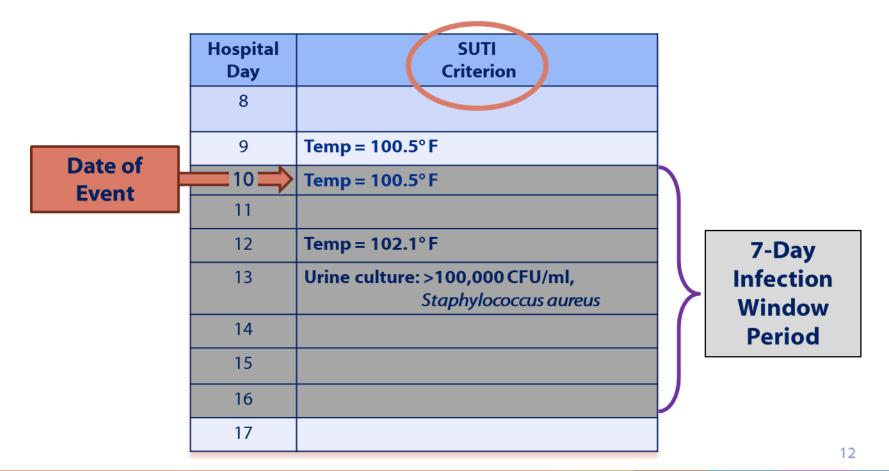


Infection Window Period and Date of Event



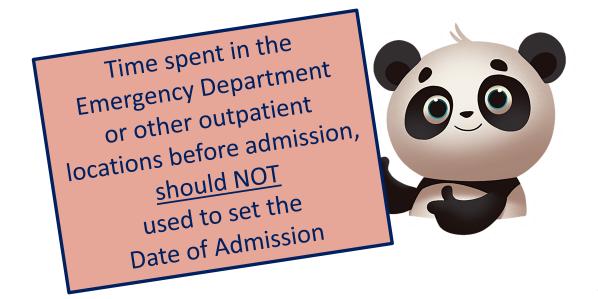
7-Day Infection Window Period

Infection Window Period and Date of Event



Date of Admission

Date that the patient is physically admitted to an <u>inpatient</u> location.



Present on Admission (POA)

- Date of event occurs on either the
 - day of admission
 - day after admission to an inpatient location.
- POA time period = the day of admission, 2 days before and the day after admission.

If the date of event occurs before admission, the date of event = date of admission.

Healthcare-Associated Infection (HAI)

 <u>Date of event</u> occurs on or after the 3rd calendar day of admission.

	Hospital Day	Date of Event
	-2	
Date of	-1	POA
admission	1	
	2	
	3	
	4	HAI
	5	

Associating an Infection to a Device

 An infection where the medical device* was in place (or central line* is accessed) for >2 calendar days on the date of event.



AND

The device was also in place on the date of event or the day before.

AND

The patient was in an inpatient location.

★See Additional Information on next slides

*Additional Information for Associating an Infection to a Device

#1 A central line is eligible for central linessociated bloodstream infection (CLABSI) event following the central line

Keep in mind that the following must be met:

- Device in place > 2 days
- Device in place on the date of event or before
- Patient is in an inpatient location

	Hospital Day	Note from medical record	Device Association
I	N/A	Pt admitted with central line in place (not-accessed)	N/A
ſ	1 – Admission to inpatient location		Ineligible for CLABSI
	2		Ineligible for CLABSI
I	3		Ineligible for CLABSI
	4	-	Ineligible for CLABSI
ſ	5	Central line accessed	Eligible for CLABSI
	6		Eligible for CLABSI

*Additional Information for Associating an Infection to a Device

#2

If an indwelling urinary catheter (IUC) is in place <u>prior to</u> inpatient admission, the <u>IUC day count that determines device-association</u> begins with the <u>admission</u> <u>date to the first inpatient location</u>.

Hospital Day	Note from medical record	Device Association
N/A	Indwelling urinary catheter in place prior to admission	N/A
1 – Admission to inpatient location		Ineligible for CAUTI
2	-	Ineligible for CAUTI
3	-	Eligible for CAUTI
4	-	Eligible for CAUTI
5	-	Eligible for CAUTI
6	-	Eligible for CAUTI

Removed/Discontinued Devices

If a central line or indwelling urinary catheter is in place in an inpatient location for >2 calendar days and then **removed/discontinued** — the device is eligible for event attribution if the date of event is **on the date** the device is discontinued or the **next day**.

Hospital Day	Notes from medical record	Device	
1 – Admission to inpatient location			
2	Indwelling urinary catheter inserted		
3			
4			
5	Urine culture = >100,00 E. coli indwelling urinary catheter discontinued	Eligible	day discontinued or
6		Eligible	day after
7		Ineligible	

18

Determining Denominator Device Day Counts for a Location and Month (a.k.a. Denominator Data)

- Count all devices present at the time of the count
 - Central lines are counted regardless of whether it is accessed; this simplifies the counting of central line days
- Includes urinary catheters, ventilators, and central lines

Hospital Day	Note from medical record	Device Association	Denominator Device Day Count
	Pt admitted with central line in place (not-accessed)	Ineligible for CLABSI	N/A
1 – Admission to inpatient location		Ineligible for CLABSI	1
2		Ineligible for CLABSI	2
3		Ineligible for CLABSI	3
4		Ineligible for CLABSI	4
5	Central line accessed	Eligible for CLABSI	5
6		Eligible for CLABSI	6

Transfer Rule

If the date of event is the day of transfer or discharge, or the next day, the infection is attributed to the transferring location.

Otherwise, the infection is attributed to the location in which the patient is housed on the date of event.

	Date	Patient Location	Location of Attribution
	1/18	5 East	
	1/20	5 East 7 South	
Date of Event	1/21	7 South	5 East
	1/22	7 South	

The Transfer Rule addresses the issue of incubation of infection.

Transfer Between Multiple Locations

 Attribute the infection to the first location in which the patient was housed on the day before the day of event

 This provides the longest incubation time during the Transfer Rule period

Transfer Rule – Examples

	Date	Patient Location	ocation ttribution	
	10/3	MICU		
	10/4	MICU		
	10/5	7 South Neuro ICU		
Date of Event	10/6	6 West	MICU	
	10/7	6 West		
	10/8	6 West		

Repeat Infection Timeframe (RIT)

- 14-day time period during which no new infections of the same type are reported
 - Endocarditis (ENDO) is extended to include the remainder of the patient's current admission.
- Day 1 of the RIT is the date of event
- If a subsequent infection of the same type occurs within this 14-day time frame
 - Do not report a new event
 - Additional pathogens identified are added to the original event

Date of event

SUTI Hospital Day Criterion indwelling catheter inserted 8 indwelling catheter in-place 9 indwelling catheter in-place 10 Temp = 100.5°F; indwelling catheter in-place 12 Temp = 101.1°F; indwelling catheter in-place Urine culture: >100,000 CFU/ml, Klebsiella pneumoniae 13 indwelling catheter in-place indwelling catheter in-place 14 15 16 17 18 19 20 21 22 23 24

14-Day UTI Repeat Infection Timeframe (RIT) Date of event: Symptomatic UTI (SUTI) not catheter associated

> 14-Day UTI Repeat Infection Timeframe (RIT)

١		SUTI	
	Hospital Day	Criterion	
	8		
	9		
	10		
		Temp = 101°F	
	12	Temp = 100.8°F	
	13	Urine culture: >100,000 CFU/ml, Staphylococcus aureus	
	14		
	15	indwelling catheter inserted	
	16	indwelling catheter in-place	
	17	indwelling catheter in-place	
	18	indwelling catheter in-place	
	19	Urine culture: >100,000 CFU/ml E. coli indwelling catheter in-place	
	20	No change in date of event	
	21	No new RIT is established	
	22	Event designation does not change to catheter	
	23	associated (CAUTI)	
	24	• E. coli is added as a pathogen to the UTI event	

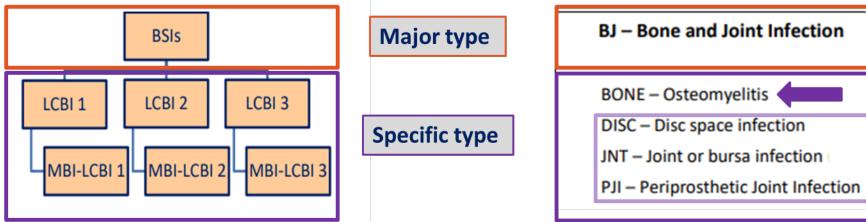
Repeat Infection Timeframe (RIT)

- The RIT will apply at the level of <u>specific type</u> of infection, meaning a patient will have no more than specific type during the RIT.
 - Exception for Bloodstream Infection (BSI), Urinary Tract Infection (UTI) and Pneumonia (PNEU) – the RIT will apply at the major type of infection.

During the RIT a patient will have:

- No more than one BONE infection (specific type) but may have another BJ-Bone & Joint Infection (major type) during an RIT.
- No more than one BSI (major type). Examples of specific types are LCBI1, LCBI2, and MBI-LCBI1.
- No more than one UTI (major type). Examples of specific types are SUTI and ABUTI.
- No more than one PNEU (major type). Examples of specific types are PNU1, PNU2, and PNU3.

Example of Major vs Specific Infection Type



Repeat Infection Timeframe (RIT)

- The RIT applies during a patient's single admission, including the day of discharge and the day after
 - In other words, the RIT does not carry over from one admission to another, even if readmission is to the same facility.

Secondary Bloodstream Infection (BSI) Attribution Period (SBAP)

 The period in which a positive blood specimen must be collected to be considered a secondary bloodstream infection to a primary site infection when matching a primary site organism.

Infection Window Period plus the Repeat Infection Timeframe (RIT).

■ 14 – 17 days duration depending on where the date of event falls within the IWP.

NOTE: A primary BSI will not have a Secondary BSI Attribution Period

#1 Example of SBAP

Date of event

Hospital SUTI Day Criterion Temp = $101.5^{\circ} F$ 12 Temp = 102.1° F Urine culture: >100,000 CFU/ml, E. coli 13 14 15 days 16 17 4 18 19 20 21

22

23

24

Infection
Window
Period

Repeat
Infection
Timeframe

Secondary BSI
Attribution
Period

#2 Example of SBAP

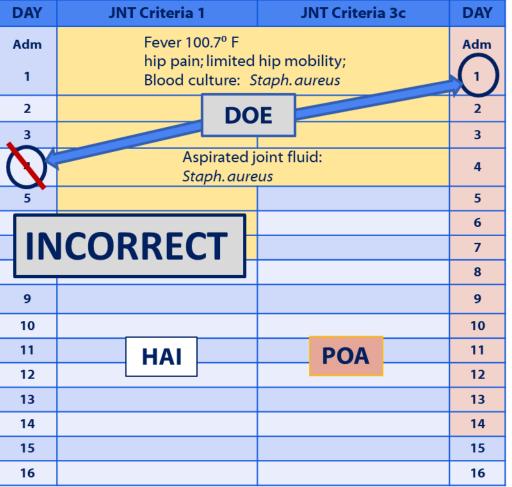
Date of event

Secondary BSI Infection Repeat **Attribution** + Infection Window **Period Timeframe** Period

	Hospital Day	SUTI Criterion
	9	
	10	
	11	
	12	
	13	Urine culture: >100,000 CFU/ml, E. coli; costovertebral angle pain
	14	Temp = 102.1° F
ı	15	
	16	
	17	
	18	
	19	
ı	20	
ı	21	
ı	22	
	23	
	24	
	25	
	26	

When more than one criterion is met

- Always use the earliest date of event as well the related RIT and secondary BSI attribution period
- May be the difference between a POA vs HAI event



Endocarditis (ENDO) - A Unique Infection

- IWP = 21 days duration
 - the collection date of the first positive diagnostic test that is used as an element to meet the site-specific infection criterion,
 - the 10-calendar days before, and
 - the 10-calendar days after
- RIT = the remainder of the patient's admission
- SBAP = the 21-day infection window period and all subsequent days of the patient's current admission
 - limited to organism(s) identified in blood specimen that match the organism(s) used to meet the ENDO definition.

Example of Endocarditis (ENDO)

Date of event

Date	Details	IWP	ENDO RIT	SBAP
1	Adm			
2	Central line inserted			
3				
4		1		
5		2		
6		3		
7		4		
8		5		
9		6		
10		7		
11		8		
12		9		
13		10		
14	Blood culture: Enterococcus faecium & Staphylococcus epidermidis fever hypotension	11		
15		12		
16	Blood culture: Enterococcus faecium & Staphylococcus epidermidis TTE: "Aortic valve with obvious mobile echodensity. Considering patient's history high suspicion for vegetation".	13		
17	Continue IV antibiotic probable endocarditis	14		
18		15		
19		16		
20		17		
21		18		
22		19		
23		20		
24		21		
25				
26				
27				
28				
29	Patient discharged on home health for IV antibiotic			

Secondary Bloodstream Infection (BSI) Rules

Secondary bloodstream infections may be attributed to a primary-site of infection during the Secondary BSI Attribution Period (SBAP) if they meet one of 2 requirements of the Secondary BSI Guide (Appendix 1)

1. Blood organism matches at least one organism found in the sitespecific infection specimen used to meet the primary-site infection criterion

OR

2. The organism identified in the **blood specimen is an element** used to meet the primary-site infection criterion

Scenario 1:

Matching Organisms

Date of event

	Day	SUTI Criterion
	9	
	10	
	11	Temp = 101.5° F
	12	Temp = 102.1° F
	13	Urine culture: >100,000 CFU/ml, Klebsiella pneumoniae
Ī	14	
	15	
	16	
Ī	17	
	18	Blood culture: Klebsiella pneumoniae, Klebsiella oxytoca
	19	
Ī	20	SUTI with secondary BSI
	21	**Rebsiella oxytoca** **Rebsiella oxytoca**
	22	Date of Event: Day 11
	23	
	24	

Period Period Period

What does it mean for a blood specimen to be an element of the criteria?

JNT-Joint or bursa infection (not for use as Organ/Space SSI after HPRO or KPRO procedures)

Joint or bursa infections must meet at least one of the following criteria:

- Patient has organism(s) identified from joint fluid or synovial biopsy by culture or non-cu microbiologic testing method which is performed for purposes of clinical diagnosis and t example, not Active Surveillance Culture/Testing (ASC/AST).
- 2. Patient has evidence of joint or bursa infection on gross anatomic or histopathologic exa
- Patient has at least two of the following signs or symptoms: swelling*, pain* or tenderne evidence of effusion*, or limitation of motion*.

And at least one of the following:

- elevated joint fluid white blood cell count (per reporting laboratory's reference ra positive leukocyte esterase test strip of joint fluid.
- b. organism(s) and white blood cells seen on Gram stain of joint fluid.
- organism(s) identified from blood by culture or non-culture based microbiologic to which is performed for purposes of clinical diagnosis and treatment, for example, Surveillance Culture/Testing (ASC/AST).
- imaging test evidence suggestive of infection (for example, x-ray, CT scan, MRI, ragallium, technetium, etc.]), which if equivocal is supported by clinical correlation, physician documentation of antimicrobial treatment for joint or bursa infection.

Reporting Instruction

• If a patient meets both organ space JNT and BONE report the SSI as BONE.

OREP- Deep pelvic tissue infection or other infection of the male or female reproductive tract (for example, epididymis, testes, prostate, vagina, ovaries, uterus) including chorioamnionitis, but excluding vaginitis, endometritis or vaginal cuff infections

Other infections of the male or female reproductive tract must meet at least one of the following criteria:

- Patient has organism(s) identified from tissue or fluid from affected site (excludes urine and vaginal swabs) by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment, for example, not Active Surveillance Culture/Testing (ASC/AST).
- Patient has an abscess or other evidence of infection of affected site on gross anatomic or histopathologic exam.
- Patient has suspected infection of one of the listed OREP sites and <u>two</u> of the following localized signs or symptoms: fever (>38.0°C), nausea*, vomiting*, pain or tenderness*, or dysuria*
 And at least *one* of the following:
 - organism(s) identified from blood method which is performed for purposes of clinical diagnosis or treatment, for example, not Active Surveillance Culture/Testing (ASC/AST).
 - b. physician initiates antimicrobial therapy within two days of onset or worsening of symptoms.

^{*} With no other recognized cause

^{*} With no other recognized cause

Scenario 2:

Blood Specimen is an Element

Date of event

Infection
Window
Period

Repeat
Infection
Infection
Timeframe

Secondary BSI
Attribution
Period

Patient meets OREP criterion 3a where a positive blood culture is an element of the criterion.

	Day	OREP Criterion
	9	
	10	
	11	
15 days	12	Abdominal tenderness, fever
	13	Blood Culture: Staphylococcus aureus
	14	
	15	
	16	
	17	
	18	
	19	OREP with secondary BSI
	20	Pathogen: Staphylococcus aureus
	21	Date of Event: Day 12
	22	
	23	
	24	

How to Assign Pathogens Associated with Site-specific Infections That are Identified During the:

- Repeat infection timeframe (RIT)
- Secondary BSI attribution period (SBAP)

Assignment of Organisms During the RIT

- Additional <u>eligible</u> pathogens identified from same type of infection within a Repeat Infection Timeframe are added to the event
- No need to determine that infection criteria are met

Assignment of Organisms in Blood During an SBAP

- At least 1 matching pathogen to the organism from a specimen (sitespecific or blood) that was used to meet a site-specific infection criterion
 - Eligible BSI pathogens are also considered secondary to the event
- Pathogen exclusions for specific infection definitions (such as yeast in UTI) also apply to secondary bloodstream infection pathogen assignment
 - Excluded pathogens must be attributed to another primary site-specific infection as either a secondary BSI or identified as a primary BSI

Pathogen
Assignment During
RIT & SBAP

Secondary BSI Attribution Period



14-day BSI RIT

Assignment of Organisms Continued

A BSI pathogen may be reported for more than one infection source

Example 1:

 Assigned as a secondary BSI pathogen to different primary site infections (such as UTI and IAB)

DAY	SUTI Criterion	IAB Criterion	DAY	
8			8	
9		Temp = 101.5 Abdominal pain	9	
10			10	
11	Temp = 101.5° F	CT guided drainage of abdominal fluid collection: <i>E.coli</i>	11	
12	Temp = 102.1° F	IAB (non-surgical) wi	th 12	
13	Urine culture: >100,000 CFU/ml, <i>E. coli</i>	Secondary BSI Pathogen: E. coli	13	
14		Date of Event: Day 9	14	١
15		Dute of Event. Duy 3	15	
16			16	
17	Blood culture: <i>E.coli</i>	Blood culture: <i>E.coli</i>	17	
18			18	
19			19	
20			20	
21	SUTI with Secondary BSI		21	
22	Pathogen: E. coli		22	U
23	Date of Event: Day 11		23	
24			24	

Secondary BSI Attribution Period Secondary BSI Attribution Period

Organism Assignment

BSI organisms may be assigned to more than one infection source

Example 2

Assigned as a secondary BSI organism to a site-specific infection (e.g.,
 UTI) and assigned as an <u>additional</u> organism to a primary BSI event

	DAY	DAY SUTI Criterion			LCBI Criterion	DAY		
	8					8		
	9			Bloo	d culture: Staphaureus	9		
	10					10		
	(11)	Temp = 101.5° F	LCE	BI				
	12	Temp = 102.1° F		hogen: Staphaureus&E.coli		.coli		
	13	Urine culture: >100,000 CFU/ml, E. coli		te of Event: Day 9				
	14					14		
	15					15	\	14-day
	16					16		BSI RIT
	17	Blood culture: E. coli		Blood culture: E. coli		17		
	18					18		
	19					19		
	20				1	20		
	21	SUTI with Secondary B Pathogen: <i>E.coli</i> Date of Event: day 11		SI		21		
	22					22	ノ	
	23					23		
	24					24		46

Secondary BSI Attribution Period

Resources

- Chapter 2 "Identifying Healthcare-associated Infections (HAI) for NHSN Surveillance": https://www.cdc.gov/nhsn/pdfs/pscmanual/2psc_identifyinghais_nhsncurrent.pdf
- Quick Learn Videos: https://www.cdc.gov/nhsn/training/patient-safety-component/index.html
- Miscellaneous Frequently Asked Questions: https://www.cdc.gov/nhsn/faqs/faqs-miscellaneous.html
- NHSN@cdc.gov

Summary

- Basic rules apply for identifying device-associated events (other than LabID, SSI, VAE)
 - Infection Window Period (IWP)
 - Date of Event (DOE)
 - Repeat Infection Timeframe (RIT)
 - Secondary BSI Attribution Period (SBAP)
- Pathogen assignment
 - Add on if in RIT, if not an excluded organism
 - Organism may be added to more than 1 event

American Journal of Infection Control NHSN Case-Study Series

- Written to address common surveillance scenarios related to CLABSI, CAUTI, VAE, SSI, MDRO/CDI
- Educational tools that be used for reliability testing of ICP teams, APIC chapters, etc.
- Test your knowledge
- Quiz and answers via web link
- Open access:
 https://www.sciencedirect.com/

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Contents lists available at ScienceDirect American Journal of Infection Control



journal homepage: www.ajicjournal.org

Clinical Case Study

Healthcare-associated infections studies project: An American Journal of Infection Control and National Healthcare Safety Network data quality collaboration



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Key Words: Pneumonia Ventilator-associated events Bloodstream infections This case study is part of a series centered on the Centers for Disease Control and Prevention/National Healthcare Safety Network (NHSN) healthcare-associated infection (HAI) surveillance definitions. This specific case study focuses on the application of the Pneumonia (PNEI). Ventilator-associated event (VAE), and Bloodsteram infections (BEI) surveillance definitions to a patient with COVID-19. The intent of the case study series is to foster standardized application of the NHSN HAI surveillance definitions among Infection Preventionists (IPs) and encourage accurate determination of HAI events.

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This National Healthcare Safety Network (NHSN) surveillance case study is part of a case-study series in the American Journal of Infection Control (AJIC). These cases reflect some of the complex patient scenarios infection Preventionists (IPs) have encountered in their daily surveillance of healthcare-associated infections (HAI) using NHSN definitions. Objectives have been previously published if

We hope that you will take advantage of this offering, and we look forward to your active participation. The online survey may be found at: https://www.surveymonkey.com/r/NHSNCOVID.

We strongly recommend participants review or reference the website and NHSN Patient Safety Component Manual Device-Associated Module for information that may be needed to answer the case study questions. The website links are https://www.cdc.gov/nhsn/

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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.