# NHSN 2019 Guidance and Toolkit for Data Quality Checks for Reporting Facilities

## **2019 Internal Validation Guidance**

The NHSN Patient Safety Data Quality Check Guidance and Toolkit is purposed to assist facilities in conducting data quality checks of reported Central Line-Associated Bloodstream Infection (CLABSI), Catheter-Associated Urinary Tract Infection (CAUTI), Surgical Site Infection (SSI) following Abdominal Hysterectomy (HYST) and Colon (COLO) procedures, Methicillin-resistant Staphylococcus aureus (MRSA) Bacteremia and Clostridioides difficile infection (CDI) LabID events.

The Guidance and Toolkit recommendations are the sole responsibility of the Centers for Disease Control and Prevention (CDC) and should not be regarded as having received the endorsement of any individuals or organizations outside of CDC. For questions, contact NHSN Support: <u>NHSN@cdc.gov</u>.

# **Table of Contents**

### Section I. Annual Data Quality Assessment Activities

- i. Development of Annual HAI Surveillance and Validation Plan
- ii. Determine Facility's Surveillance Program Competencies
- iii. Facility Self-Validation Guidance

### Section II. Data Quality Survey Tools

- i. Appendix A: CLABSI/CAUTI Surveillance Coordinator Survey
- ii. Appendix B: Documentation of Electronic CLABSI/CAUTI Denominator Validation Template
- iii. Appendix C: CLABSI and CAUTI Denominator Counting Survey (with Key)
- iv. Appendix D: Surgical Procedure and SSI Surveillance Methods Survey (with Key)
- v. Appendix E: LabID Event Surveillance Methods Survey (with Key)
- vi. Appendix F: LabID Event Facility-Wide Inpatient (FacWideIN) Denominator Validation Template

### Section III. Quarterly/Monthly Data Quality Assessment Activities

- i. Monthly HAI Reporting Plan
- ii. Data Quality Checklists
- iii. Appendix G: Data Quality Checklist CLABSI/CAUTI Data
- iv. Appendix H: Data Quality Checklist MDRO/CDI Data
- v. Appendix I: Data Quality Checklist SSI Events/Procedures

### Section IV. Facility/Provider to Facility/Provider Communications under HIPAA: Questions and Answers



### NHSN Data Quality Guidance and Toolkit

Healthcare facilities participate in healthcare-associated infections (HAI) surveillance via Centers for Disease Control and Prevention's (CDC) National Healthcare Safety Network (NHSN) for several purposes:

- Monitor HAIs and the impact of their own prevention efforts
- Benchmark facility performance against risk-adjusted national data
- Fulfill state-mandated reporting requirements, and/or to comply with the Centers for Medicare and Medicaid Services (CMS) Hospital Inpatient Quality Reporting Program requirements

Data Quality of HAI surveillance reflects the consistency, completeness, and timeliness of HAI data reported to NHSN and overall builds confidence in the user for their own facility's data. Regardless of the reasons for participation, facilities that report to NHSN are required to follow NHSN methods and to use NHSN definitions and criteria. The principal source of information on NHSN methods, definitions, and criteria for reporters is the NHSN Patient Safety Component (PSC) Manual. This data quality toolkit describes implementation practices for reporting facilities that support high quality surveillance data when reporting to NHSN.

#### Who Needs the Data Quality Toolkit

The intended audience of the data quality toolkit are nurses, infection preventionists, or quality of care professionals at facilities, including acute care hospitals, inpatient rehabilitation hospitals, and long-term acute care facilities, reporting selected data to NHSN. Routine planned data quality checks are useful for several purposes:

- Identify and understand systematic weaknesses in facility specific HAI reporting
- Assure that the facility's surveillance data are of high quality: complete, timely, and accurate
- Promote building coordination and partnership with stakeholders
- Build confidence in your own facility data

#### How the Toolkit Works

This toolkit provides guidance for data quality activities suggested to be conducted annually, quarterly/monthly, and routinely by healthcare facilities to ensure that data reported to NHSN are accurate. The data quality components and tools are specific to six HAI metrics: Central Line-Associated Bloodstream Infections (CLABSI), Catheter-Associated Urinary Tract Infections (CAUTI), selected Surgical Site Infections (following colon (COLO) and abdominal hysterectomy (HYST) procedures), Methicillin-resistant *Staphylococcus aureus* (MRSA) Bacteremia LabID Event, and *Clostridioides difficile* infection (CDI) LabID Event. Data quality checklists for each of the HAI metrics listed above provide a list of metrics which facilities are encouraged to implement and review on their data prior to quarterly data submission deadline. Data Quality survey tools for the HAI metrics are encouraged to be implemented annually to understand the knowledge and practices of HAI data collection at the facility and identify gaps and needs for additional staff training in NHSN protocol and methods.



### I. Annual Data Quality Assessment Activities

#### Development of annual HAI surveillance and validation plan

Healthcare facilities are recommended to develop an annual surveillance and data validation plan. This activity should be conducted at the beginning of the year and the annual surveillance plan should be the framework of the monthly HAI reporting plan. An annual validation plan should list the frequency and types of data quality checks and identify individuals responsible for implementing these activities.

#### Determine facility's surveillance program competencies

Quality HAI surveillance requires rigorous adherence to standard NHSN protocols, surveillance methods, and NSHN definitions as written. Facilities assuring data quality must be trained in NHSN specifications; remain up-to-date when changes are made; and commit to using appropriate NHSN methods and definitions to validate HAI data reported to the system. The infection prevention program should assure the facility-level competencies for NHSN CLABSI, CAUTI, SSI, and LabID events surveillance and validation activities.

#### **CLABSI and CAUTI**

- Completion of annual facility survey and accurate collection of risk-adjustment information:
  - Assurance of appropriate collection of facility-specific risk-adjustment elements (for example, facility bed size, location mapping, and teaching hospital affiliation). If new units have been added in a facility, they must be accurately mapped and if units are no longer in operation, they must be inactivated in NHSN. These variables must be checked annually for accuracy and entered completely in the annual facility survey. (Additional details about risk-adjustment factors for CLABSI and CAUTI are available in the NHSN's Guide to the SIR, <a href="https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf">https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf</a>.)
- Denominators: Ability to generate correct denominator data (CLABSI: central line days and patient days; CAUTI: indwelling urinary catheter days and patient days)
  - Assurance that persons counting patient days, central line days, and/or indwelling urinary catheter days have good knowledge of NHSN methods and definitions pertaining to denominators
  - For manual denominator counting, determine the facility's infrastructure and capacity for daily or sampled method (once/week) for locations other than specialty care areas/oncology (SCA/ONC) and NICUs (for example, ICUs, step-down units, wards). Additional details are available in the NHSN PSC Manual Chapter 4 (BSI) and Chapter 7 (UTI) (available at <u>https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf</u>).
  - Before reporting electronically counted denominator data, document validation of accuracy (within 5% of manual counts for at least 3 consecutive months for every reporting location). Use <u>Appendix B</u>, Documentation of Electronic CLABSI/CAUTI Denominator Validation Template, to document validation of accuracy prior to reporting electronic data.
  - Use the CLABSI/CAUTI Surveillance Coordinator Survey (<u>Appendix A</u>) to determine current denominator counting practices and training needs for staff
- Numerators CLABSI: Ability to correctly and completely identify CLABSI events in real time
  - o Awareness and investigation of all positive blood specimens among patients with central lines
  - Capacity to reproduce a complete list of positive blood specimens collected from patients assigned to facility surveillance location(s) to facilitate internal or external audits
  - o Documentation of candidate CLABSI events and relevant decisions leading to reporting outcomes

- Ability to correctly apply BSI case definitions, including ability to differentiate between primary and secondary bloodstream infections, in accordance with NHSN protocols in the NHSN PSC Manual Chapter 4 (BSI) (available at <a href="https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf">https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf</a>)
  - Current rules for assigning a bloodstream isolate to an alternative primary site-specific infection are detailed in Chapter 4 (BSI) Appendix B: Secondary BSI Guide
  - Of note, NHSN definitions for alternative primary infection sites must be met to assign bloodstream infections as secondary. Up-to-date alternative primary infection site definitions are available in the NHSN PSC Manual Chapter 17 (available at https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf).
- Numerators CAUTI: Ability to correctly and completely identify CAUTI events in real time
  - Awareness and investigation of all positive urine cultures among patients with indwelling urinary catheters
  - Capacity to reproduce a complete list of positive urine cultures collected from patients assigned to facility surveillance location(s) to facilitate internal or external audits
  - o Documentation of candidate CAUTI events and relevant decisions leading to reporting outcomes
  - Ability to correctly apply UTI case definitions in accordance with NHSN protocols in the NHSN PSC Manual Chapter 7 (UTI) (available at <a href="https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf">https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf</a>)

#### SSI

- Risk-adjustment: Ability to correctly report SSI risk-adjustment variables (for example, ASA score, diabetes, closure technique) for all operative procedures. (Additional details about risk-adjustment factors for SSI are available in the NHSN's Guide to the SIR, <a href="https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf">https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf</a>.)
- Denominators: Ability to generate and report monthly procedure denominators completely and correctly for procedures under surveillance
- Numerators: Evaluation of all potential admission and readmission infections in real time during the prescribed SSI surveillance period (30 or 90 days, based on the procedure); post-discharge surveillance tracking outpatient SSI events and reports of re-admissions to other facilities during the SSI surveillance period
  - Ability to identify all readmissions among patients undergoing surveillance procedures during the SSI surveillance period (30 or 90 days, based on the procedure; for COLO and HYST the SSI surveillance period is 30 days)
  - Ability to correctly classify SSI cases in accordance with NHSN definitions as either Superficial Incisional, Deep Incisional, or Organ/Space SSI Events in accordance with the NHSN protocols in the NHSN PSC Manual Chapter 9 (SSI) (available at <u>https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf</u>)
  - Ability to correctly apply the NHSN Principal Operative Procedure Category Selection Lists when attributing SSI events in the context of multiple concurrent NHSN operative procedures

#### LabID Event

- Risk-adjustment: Assurance of accurate collection of risk-adjustment elements. (Additional details about riskadjustment factors for MDRO/CDI are available in the NHSN's Guide to the SIR, <a href="https://www.cdc.gov/nhsn/pdfs/psanalysis-resources/nhsn-sir-guide.pdf">https://www.cdc.gov/nhsn/pdfs/psanalysis-resources/nhsn-sir-guide.pdf</a>.)
- Denominators: Ability to generate correct monthly summary denominator data (FacWideIN patient days, admissions to inpatient locations, and encounters from the emergency department, 24-hour observation units, and other affiliated outpatient locations)
- Numerators: Ability to comprehensively identify and correctly assign positive laboratory tests as reportable vs. duplicate





- Understanding of and ability to correctly apply LabID Event following NHSN protocols in the NHSN PSC Manual Chapter 12 (MDRO/CDI) (available at <u>https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual\_current.pdf</u>)
- Awareness of MRSA-positive blood specimens and toxin-positive CDI test results among inpatient, emergency department, and 24-hour observation patients
- Ability to identify MRSA-positive blood specimens and toxin-positive CDI test results obtained in facilityaffiliated outpatient clinics on the day of admission
- o Tracking relevant decisions for positive laboratory tests leading to reporting outcomes
- Capacity to produce a complete list of MRSA-positive blood specimens and/or CDI-positive test results from stool specimens by location for all NHSN inpatient, emergency department, and 24-hour observation units to facilitate internal or external audits

The next sections of the toolkit provide guidance to ensure accurate collection of risk-adjusted variables, denominator data, and screening of all potential HAI events as they relate to case status and case classification.



### Facility Self-Validation Guidance

Validation	Items to review	Suggested method	
component			
Annual surveillance and validation plan	<ul> <li>Patient care locations where CLABSI and CAUTI surveillance is planned</li> <li>Types of surgical procedures follower for SSI surveillance</li> <li>Sources of information for surgical procedures, surgical readmissions, and post-discharge surveillance</li> <li>Source of inpatient admissions and patient days as defined for LabID Event</li> <li>Laboratory capacity to produce specified line listings by location or house-wide</li> <li>Ability to link laboratory and admissions/discharges/transfer (ADT data</li> <li>IT support, especially if electronic reporting will be introduced</li> <li>Training needs:         <ul> <li>Staff training for denominat counting: CLABSI, CAUTI</li> <li>Staff training updates and case-studies for NHSN reporters</li> </ul> </li> </ul>	<ul> <li>b. Plan for staff training and assessment</li> <li>c. Consider whether burden of manual data collection justifies establishing and validating manual daily or weekly sampled or electronic denominator reporting for each surveillance location</li> <li>d. Assess adequacy of facility infrastructure, EMR or vendor systems, and practices for documenting device use, placement, and removal</li> <li>e. Evaluate access to IT and other support services for planned data checks; line listings from laboratory information system, linkage to ADT data for surgical readmissions, and counting of inpatient days and admissions</li> <li>f. Determine which facility information systems include patient days and admissions with and without observation patients to assure that LabID Event denominators are being counted correctly and encounters from the emergency department and 24-hour observation units are also identified and included</li> </ul>	
Facility and location	Facility level information reported to NHSN	<ol> <li>The NHSN Patient Safety Component includes separate annual surveys for Acute Care Hospitals/Facilities (Patient Safety Component – <u>Annual Hospital Survey, 57.103</u>), Long-term Acute</li> </ol>	
information	Teaching hospital status	Care Facilities (Patient Safety Component – <u>Annual Facility Survey for LTAC, 57.150</u> ), and Inpatient	
		Rehabilitation Facilities (Patient Safety Component – <u>Annual Facility Survey for IRF, 57.151</u> )	
	Number of facility beds	renavintation racinties (Patient Salety Component – <u>Annual Facility Survey IOF IRF, 57.151</u> )	



Validation component	Items to review	Suggested method	
reported to NHSN		<ul> <li>a. On an annual basis, review and confirm that teaching status and number of beds (ICU vs. all other inpatient location beds) are accurate (see below)</li> <li>Note: If facilities that share a single CCN (CMS certification number) are in physically separate buildings from each other, whether on the same property or over multiple campuses, they should be enrolled separately in NHSN. Each distinct facility should have its own unique NHSN OrgID and have its own annual survey entered.</li> </ul>	
	<ul> <li>Patient location level mapping information reported to NHSN</li> <li>Facility location label and CDC location description</li> <li>The number of beds reported for ICU and non-ICU location types</li> </ul>	<ul> <li>On an annual basis, review data for each patient care location entered into NHSN using up-to-date information on patient demographics by location (objective data may be available from bed control or a chief nursing officer) to confirm the following:</li> <li>The CDC location label assigned meets the CDC 80% rule for the assigned CDC location description (See NHSN PSC Manual Chapter 15, available at <a href="https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual_current.pdf">https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual_current.pdf</a>). Note: Annually review NHSN mapping guidance for updates and changes.</li> <li>The combined number of ICU beds and non-ICU beds is correct</li> <li>Physically separate acute care IRF/IPF/SNF units are enrolled and mapped according to NHSN guidance</li> </ul>	
CLABSI and CAUTI denominator data	Patient days, central line days, and indwelling urinary catheter days. Use <u>Appendix C</u> , CLABSI and CAUTI Denominator Counting Survey with Key to assess the current knowledge of denominator data collection methodology and to identify further training needs.	<ol> <li>Regardless of type of denominator data collection (manual or electronic):         <ul> <li>a. For CLABSI and CAUTI denominator data assure that each month is correctly listed as in-plan</li> <li>b. For each in-plan month assure that denominator data (patient days, central line days, and indwelling urinary catheter days) have been entered into NHSN</li> </ul> </li> <li>If manual daily or weekly sampled denominator data collection is used:         <ul> <li>a. Assure that staff members collecting denominator data know correct NHSN procedures and definitions for this task and are following the Chapter 4 and 7 NHSN protocols             <ul> <li>https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual_current.pdf). Appendix C of this document contains a survey that may be adapted for evaluation of denominator collection practices for CLABSI and CAUTI denominators.</li> <li>b. Conduct data quality checks of manual denominator data periodically (for example, for one week annually in each location type) by performing concurrent independent patient-level data collection (for example, room number, room occupied, patient name/MRN, and central line present or absent). This is particularly important when training new denominator counting personnel.</li> </ul> </li> </ul></li></ol>	



Validation	Items to review	Suggested method		
component				
		<ul> <li>c. The IP should review the corresponding data to determine if standard data collection is correct and compliant with NHSN protocols for the patient location (for example, NICUs, specialty care areas, other). Results should be shared with staff for recognition of good work or to modify practices for collecting data if necessary. If problems are found manual validation should be repeated. State Health Department validators may ask to see results of data quality checks and may assess staff knowledge and practices.</li> <li>d. Periodically assess completeness and reliability of denominator data collected/reported to NHSN. Using denominator logs calculate % of days per year that: <ul> <li>i. patient days were not collected</li> <li>ii. indwelling urinary catheter days were not collected</li> <li>iv. be prepared to share your data logs and analysis with reviewers during external</li> </ul> </li> </ul>		
		validation		
		3. If electronic data capture is used:		
		<ul> <li>a. The NHSN CLABSI and CAUTI protocols state "when denominator data are available from electronic databases these sources may be used <u>as long as the counts are not substantially different (+/- 5%) from manually-collected counts</u>" <ul> <li>(<u>https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual_current.pdf</u>). This guideline is important because unexamined electronic counts may be seriously flawed and can be difficult to align with NHSN reporting definitions.</li> <li>For each reporting location where electronic databases are used to obtain counts of patient days and/or device days, determine if initial data validation was performed according to this guidance. If electronic counts were not validated or not within 5% of manual counts, resume manual counting and continue working with IT staff to improve design of electronic denominator data extraction (while reporting manual counts) until concurrent counts are within 5% for 3 consecutive months.</li> <li>Once an individual reporting location's electronic counts are within 5% of manual counts for 3 consecutive months.</li> <li>b. When converting from one electronic counting system to another electronic counting system,</li> </ul> </li> </ul>		

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Validation	Items to review	Suggested method	
component			
		<ul> <li>counts for the new electronic system are not within 5% of manual counts, resume manual counting and continue working with IT staff to improve design of electronic denominator deextraction (while reporting manual counts) until concurrent counts are within 5% for 3 consecutive months.</li> <li>Note: This guideline is important because validating a new electronic counting system again an existing electronic system can magnify errors and result in inaccurate denominator count</li> <li>c. Because electronic systems are subject to change and can result in disrupted or inaccurate data streams, best practices for use of electronic data capture also require:         <ul> <li>i. vigilance for aberrant data that could result from changes to electronic medical records or related systems</li> <li>ii. periodic spot checks of electronic data to assure continued good performance</li> <li>d. A report of successful alignment of electronic denominator counting at two related facilitie has been published (Tejedor SC, et al. Infect Control Hosp Epidemiol 2013; 34:900-907).</li> </ul> </li> </ul>	
CLABSI and	Complete ascertainment of candidate	1. Assure that the microbiology laboratory tracks and reports patient care location at the time of	
CAUTI	CLABSIs and candidate CAUTIs in	specimen collection and not at the time of final report for surveillance purposes.	
numerator	surveillance locations	2. Consider documentation of surveillance decisions; for example:	
data		<ul> <li>a. Keep a record/line-listing of positive blood specimens and decision making with regard to CLABSI, particularly in surveillance locations. Patients without a recent or current central line can quickly be eliminated from consideration for CLABSI. For any positive blood specimens that meet the definition of laboratory-confirmed bloodstream infection (LCBI types 1, 2, or 3) in a surveillance location, document the LCBI, presence or absence of a central line, why you consider the event to be either healthcare-associated (HA) or non-HA, primary or secondary, and whether or not the event was reported as a CLABSI to NHSN.</li> <li>b. Keep a record/line listing of positive urine cultures and decision making with regard to CAUTI, particularly in surveillance locations. Patients without a recent or current indwelling urinary catheter can quickly be eliminated from consideration for CAUTI. For any positive urine cultures that meet the definition of asymptomatic bacteremic urinary tract infection (ABUTI) or specific symptomatic urinary tract infection types (SUTI1a, SUTI1b or SUTI2), document the urinary tract infection (UTI), presence or absence of an indwelling urinary catheter, why you consider the event HA or non-HA, and whether or not the event was reported as a CAUTI to NHSN.</li> </ul>	



Validation	Items to review	Suggested method	
component			
		3. Periodically assure that all positive blood specimens and urine cultures have been reviewed by	
		requesting a surveillance location line list for comparison to the record.	
SSI	Surgical procedures under NHSN	1. Regardless of type of denominator data collection (manual or electronic):	
denominator	surveillance for SSI.	a. As part of annual surveillance and validation planning, determine which surgical procedures	
data		will be reported to NHSN, whether inpatient, outpatient, or both, and note the assigned	
	Use Appendix D, Surgical Procedure and	surveillance period (30 or 90 days) for each procedure.	
	SSI Surveillance Methods Survey with Key	b. Identify all primary sources of information about procedures for which you will conduct	
	to determine current knowledge and	surveillance. ICD-10-PCS and/or CPT operative procedure codes are required to determine the	
	practices of SSI reporting and to identify	correct NHSN operative procedure category to be reported. Cross-referencing of sources (for	
	training needs.	example, OR procedure records plus ICD-10-PCS/CPT operative procedure codes assigned	
		after discharge) is the best way to assure complete denominator.	
		c. It is prudent to scrutinize the list of ICD-10-PCS and/or CPT procedure codes used by the OR	
		system to identify procedures of interest for completeness. Failure to include one or more	
		specified codes for designated procedures in the denominator can lead to the appearance of	
		falsely higher SSI rates. d. Assure that all persons collecting data for procedures are familiar with NHSN definitions for	
		Denominator for Procedure Details	
		( <u>https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual_current.pdf</u> ), and ensure that	
		processes are in place to capture this data accurately and completely.	
		2. If either manual or electronic denominator data entry is used:	
		a. Manual data entry is subject to keystroke errors, omissions, and duplications during data	
		entry; thus, data validation may include double checking of multiple data elements by two	
		persons (for example, one reading the OR record and one reading the NHSN record).	
		b. Both manual and electronic denominator data quality are subject to error at the source of	
		information and to systematic error. In either case, data quality may be monitored by one of	
		several internal validation methods:	
		<ul> <li>double checking of procedure record completeness by two persons (for example, one reading the ICD-10-PCS and/or CPT procedure code list and one reading the NHSN</li> </ul>	
		record list)	
		<ul> <li>ii. monthly NHSN analysis prior to data transmission to check for duplicate procedure entry, consistency, and logical quality of entered data (for example, unusual ASA</li> </ul>	
		scores or duration of procedures), with investigation and resolution of outliers	
		scores of duration of procedures), with investigation and resolution of outliers	

Validation	Items to review	Suggested method	
component		<ul> <li>iii. cross checking a second data source to identify discordant records that may have been missed or reported in error, and to identify errors leading to large errors (such as omitting a required ICD-10-PCS and/or CPT procedure code)</li> <li>iv. periodic (at least annual) download from the OR system to confirm that procedure data for individual days or weeks were not missed during the interval</li> </ul>	
SSI Event numerator data	Sources of information for surgical infection events and surgical readmissions	<ol> <li>Identify information sources to identify infections among post-operative surgical inpatients, for example pharmacy, radiology, laboratory, and/or microbiology data</li> <li>Assure identification of surgical readmissions during the post-operative surveillance period (30 or 90 days) and screen for infection as a cause of re-admission</li> <li>Optimize post-discharge surveillance methods</li> <li>Cooperate with other facilities to notify one another of SSIs following procedures at another facility</li> </ol>	
	Concurrent and post-discharge surveillance methods for identification of SSI events	<ol> <li>Assure a mechanism to routinely identify surgical readmissions and complete post-discharge surveillance during the 30-day SSI surveillance period following COLO and HYST procedures.</li> <li>Investigate options for optimal post-discharge SSI surveillance, including cross-facility communications and reporting of SSIs identified by other facilities. Multiple networked surveillance modalities (for example, readmissions, surgical nursing contacts, surgical rounds, surgeon inquiry, chart review, patient survey) typically provide more complete information. Consult with other hospital IPs to consider best practices for inter-facility communication of SSIs (reports that you provide to other facilities that performed a procedure and for SSIs that are reported by other facilities to your facility). For example, the referring IP can provide details regarding the SSI event to assist with completion of the SSI event form (such as date of event, signs/symptoms, etc.).</li> </ol>	
LabID Event denominator data	NHSN inpatient admissions and patient days must include observation patients who are located in inpatient locations	<ol> <li>LabID Event denominators: facility-wide admissions and inpatient days (as defined by NHSN to include observation patients located in inpatient locations) normally are derived electronically. Determine how to assure inclusion of observation patients that are located in inpatient locations in denominator data counts.</li> <li>Some systems (typically vendor and ADT systems) can be adjusted to count observation patients in inpatient locations, but facilities relying on billing data must be careful to include observation patients from inpatient locations, who may be billed separately.</li> <li>Denominator validation can be accomplished using manual counting of patient days and admissions in three specified location types for one month each: one ICU, one Labor/Delivery/Recovery/Post-Partum (LDRP) location (if available), and one or more wards where observation patients are frequently</li> </ol>	



Validation	Items to review	Suggested method			
component					
		<ul> <li>located. Facilities with inpatient rehabilitation facility (IRF) and/or inpatient psychiatric facility (IPF) locations with separate CCNs and facilities with baby-based locations (for example, NICU, well bab nursery, etc.) should also validate these locations. Validated counts should be within 5% of the referent (usual) electronic counts or an evaluation of why they differ should be conducted. This internal validation process may be requested or required by state health departments. Use <u>Appende</u> <u>F</u>, LabID Event Facility-Wide Inpatient (FacWideIN) Denominator Validation Template to determine accuracy of validation using electronic counts.</li> </ul>			
LabID Event numerator data	Assure that any reporter(s) overseeing LabID Event reporting understand rules for duplicate reporting and include laboratory reports from affiliated outpatient locations on admission date. <u>Appendix E</u> , LabID Event Surveillance Methods Survey with Key to determine current knowledge and practices of LabID reporting and to identify training needs.	<ol> <li>Assure that the microbiology laboratory tracks and reports patient care location at the time of specimen collection, not at the time of final report to infection control.         <ul> <li>a. Note: For LabID Event, laboratory tests taken on the day of admission in affiliated facility-associated outpatient locations (for example, clinics) should be included for accurate tracking of community-onset (CO) LabID Events.</li> </ul> </li> <li>Consider periodic internal auditing (for example, duplicate auditor abstraction of candidate events).</li> </ol>			



### **II. Data Quality Survey Tools**

Data quality survey tools include surveillance surveys with answer keys which can be implemented by the facility annually to identify and learn current HAI data collection knowledge and practices, and to identify gaps in knowledge and need for additional training among staff responsible for HAI data collection and reporting via NHSN. These survey tools can be used as frequently as needed by the facility and define the training needs for staff. <u>Appendix B</u> and <u>Appendix F</u> for documentation of electronic denominator validation should be completed when switching from manual to electronic denominator data collection and also when switching from one electronic denominator collection method to another electronic method to document that data collection is accurate and within the tolerable level of margin of error. Documentation of completion of <u>Appendix B</u> and <u>Appendix F</u> must be maintained at the facility since this may be requested by state health department during an external audit.

### **Appendix A: CLABSI/CAUTI Surveillance Coordinator Survey**

OrgID	/Name	٥f	Hospital	
UIGID	/ Name	UI.	riospitai	

Date of Survey \_\_\_\_\_

Instruction	<b>s:</b> Administer this survey to the person who oversees NSHN surveillan	nce and denominator counting	
1. Which	best describes your facility's training for CLABSI and CAUTI Denomination	ator counters? (select all that apply)	
	No specific training is provided or required		
	Peer training (person who previously counted) trains new staff		
	Training is provided by IP		
	Training by NHSN (for example, online training) is required		
	Annual training updates are required/provided		
	Other (describe):		
2. Do you	l conduct periodic spot-checks or otherwise validate CLABSI and CAU	TI denominator counts? (select all that	
apply)			
	Not at this time		
	Yes, when we have a new denominator counter		
	Yes, when I have concerns		
	Yes, routinely		
3. Which	/hich best describes your own training for 2019 NHSN surveillance? (select all that apply)		
	No specific training for 2019	Select Training Modules Taken	
	CDC-sponsored 2019 training webinar (live or on-line)	🗆 CLABSI 🗆 CAUTI	
		SSI 🗆 LabID Event	



	CDC-sponsored on-line case-studies		CLABSI CAUTI SSI LabID Event
	CDC-sponsored 2019 online self-paced interactive multimedia instruction trainings		CLABSI CAUTI  SSI LabID Event
	State-sponsored 2019 NHSN training event(s)		CLABSI CAUTI
	Other (describe):		
4. Which staff member(s) is/are responsible for entering CLABSI (numerator) events data into NHSN?			IP Clerical support Other
	Which staff member(s) is/are responsible events data into NHSN?	for entering CAUTI (numerator)	IP Clerical support Other
6. Is entered data checked for errors or validated by analysis?			Yes No Unknown
	a. If yes, describe what is done:		
	How many persons typically review a medical record before an event is reported to NHSN?	I Une reviewer typically decides, with internal for example, second	
2019		1	15

8.	Is there ever pressure (for example, from administrators or physicians) to not report a CLABSI, CAUTI (or other NHSN) event?	Yes No Unsure Comment:
9.	In cases of ambiguity, who makes the final decision regarding the determination of whether an infection should be reported?	



### **Appendix B: Documentation of Electronic CLABSI/CAUTI Denominator Validation Template**

OrgID/Name of Hospital: \_\_\_\_\_\_ Date of Survey: \_\_\_\_\_

Instructions: NHSN requires that the monthly electronic denominator count falls within a 5% tolerance interval of the monthly manual denominator count for 3 consecutive months before reporting electronic denominator counts for CLABSI/CAUTI. (If there is no electronic denominator counting at this facility, skip this survey.)

Note: Validation of electronic denominator counting against manual denominator counting is required a. when transitioning from manual counts to electronic counts

b. when transitioning from one electronic counting system to a new electronic counting system

If electronic device denominator counting is used for reporting at this facility, document the NHSN-required validation results below:

Initial electronic denominator validation (when electronic denominator reporting began):				
		Manual count	*Calculated 5% tolerance interval	Electronic count
Location name:				
	Patient days			
Month/year:	Central line days			
	Indwelling urinary catheter days			
Location name:				
	Patient days			
Month/year:	Central line days			
	Indwelling urinary catheter days			
Location name:		•		
	Patient days			
Month/year:	Central line days			
	Indwelling urinary catheter days			



		Manual count	*Calculated 5% tolerance interval	Electronic count
Location name:				
	Patient days			
Month/year:	Central line days			
	Indwelling urinary			
	catheter days			
Location name:				
	Patient days			
Month/year:	Central line days			
	Indwelling urinary			
	catheter days			
Location name:		_		
	Patient days			
Month/year:	Central line days			
	Indwelling urinary			
	catheter days			
*Equation for cal	culating 5% tolerance in	Iterval: manual coun	t ± (manual count * 0.05)	
Example calculat	ions where manual cour	nt = 164 and electron	ic count = 178:	
Eligible 5% tolera	ance interval = [164±(164	4*0.05)]=155.8 to 17	2.2	



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### Appendix C: CLABSI and CAUTI Denominator Counting Survey (with Key)

OrgID/Name of Hospita		
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\_ Date of Survey \_\_\_\_\_

Instruction	ns: Administer in person c	or by telepł	hone, directly to individuals responsibl	e for denominator counting. Th	nis form is divided into 3 sections for facilities	
where the	se tasks are performed by	y different	persons. The first section, PATIENT DA	<b>AYS</b> , contains questions applical	ble to both CLABSI and CAUTI denominator	
collection	(questions 1-9). The secor	nd section,	, CENTRAL LINE DAYS, contains question	ons applicable to CLABSI denom	ninator collection (questions 10-22). The	
third section	on, INDWELLING URINAR	IY CATHET	<b>FER DAYS</b> , contains questions applicabl	e to CAUTI denominator collect	tion (questions 23-29).	
Facility Name/ID OrgID: of individual interviewed:			Position: IP Clerical Nursing Other (explain)	Interviewer initials:	Date of survey:	
(circle): CLA	ABSI, CAUTI, BOTH	NHSN loca	ation(s) covered:			
PATIENT D	AYS (for <u>both CLABSI and CA</u>	<u>UTI</u> denom	iinator counters)	Answer Key/Rationale		
	re patient days usually colled		se one)			
Electronically (document the software						
	<i>tem utilized and skip to Q8</i> ): anually (daily/weekly)					
Son	me units electronic and some	e units man	nual			
Cor	mment:					
	e a specified time when the is taken?	denominate	tor 🛛 Yes 🗆 No	The answer should be Yes.		
3. When is it done?		Counts should be done at a specific time daily, preferably at nearly the same time throughout the facility to avoid errors when patients transfer.				
	be the method used to coun		•		r data (patient days and device days) should be	
		-	a unit bed at the same time central		e, every day, for each location performing	
line	e/indwelling urinary catheter	<u>r counts are</u>	<u>e conducted</u>		surveillance to ensure that differing collection methods don't inadvertently result in device days being > patient days.	
Otł	her (specify):					



5.	When reporting monthly patient day total, what is done if there are missing <b>patient day</b> data? (choose one)	NHSN issued specific guidance on imputing values for missing data in September 2013
	Report the sum of available daily counts with no adjustment for missing data	( <u>http://www.cdc.gov/nhsn/PDFs/NHSNMissingDenomData_Sep2013.pdf</u> )
	Estimate or re-create missing data from existing information using our own methods	
	Impute missing values using recent CDC/NHSN guidance	
	Other (specify):	
6.	Which best describes your training for denominator (patient days and central line or indwelling	gurinary catheter days) counting? (select all that apply)
	No specific training was provided	Formal training by NHSN or NHSN-trained IP is recommended due to
	Peer training (person who previously counted explained their approach to new staff)	technical aspects of definitions (for example, central line, permanent line, temporary line) and methods (for example, when to count lines, how
	Formal training by IP	many to count).
	Formal training by NHSN (for example, online training)	
	Annual training updates	
	Other (describe):	
7.	Which staff member counts patient days and central line or indwelling urinary catheter days when the "regular" data collector(s) is/are not working?	□ IP □ Another trained counter □ Nobody □ Other (specify)
8.	Does your facility have a mechanism in place for quality control of denominator data? (Select of	nne):
	(Electronic data) Yes, data submitted electronically is periodically checked using manual methods	
	(Manual data) Yes, manually collected data are periodically counted by more than one staff member	
	Yes, other <i>(explain)</i>	
	No formal quality control process	
9.	Which staff member(s) is/are responsible for entering reporting locations patient days and central line or indwelling urinary catheter day data into NHSN?	□ IP □ Counter □ Clerical □ Other (specify)

<b>CENTRAL LINE DAYS</b> (for CLABSI denominator counters only)	Answer Key/Rationale
10. How are central line days collected for the unit(s) you oversee? (choose one)         Electronically (specify software system utilized):         Manually (daily/weekly)	-
Some units electronic and some units manual	
Comment:	
11. Identify the method used to count central line days: (choose one)         Count the number of patients with at least one central line at the time surveillance rounds are conducted	A daily count of <u>the number of patients with a central line</u> in the patient care location during a time period, which is summed for the monthly total
Count the number of central lines that are in place at the time surveillance rounds are conducted Count the number of central lines that are in use at the time surveillance rounds are	
conducted Other (specify):	
<ol> <li>When reporting monthly central line day total, what is done if there are missing central line day data? (choose one)</li> </ol>	NHSN issued specific guidance on imputing values for missing data in September 2013
Report the sum of available daily counts with no adjustment for missing data	( <u>http://www.cdc.gov/nhsn/PDFs/NHSNMissingDenomData_Sep2013.pdf</u> )
Estimate or re-create missing data using existing information (for example, medical records), then sum	
Impute missing values using recent CDC/NHSN guidance for missing denominator data	
13. A patient has a radial arterial line and a peripheral IV. How many denominator device days are counted for this patient on this day?	Zero. The radial arterial line and peripheral IV are not central lines.
14. A patient has a temporary central line and a permanent central line that have both been used during this hospitalization. How many denominator device days are counted for this patient on this day?	One. Although the patient has two central lines, a device day is defined as the number of patients who have the device, not the number of devices.
15. The patient above with the temporary central line and the permanent central line is on an oncology ward. Should you report one temporary line day, one permanent line day, or both a temporary and a permanent line day?	When a patient in an oncology location has both temporary and permanent lines, the line day is reported as a temporary line day because it is associated with a higher risk of bloodstream infection. (This information is detailed in the NHSN Manual, <u>Instructions for Form</u> <u>57.117</u> )
16. A patient has a port-a-cath that has not been accessed during this hospital stay, and a peripheral IV that is in use. How many denominator device days are counted for this patient on this day?	One. Beginning in January 2018, central lines that are present on admission should be included in device day counts beginning on the day of admission to an inpatient location. This is regardless of access of the central line. The peripheral IV is not a central line.



<ul><li>17. A port-a-cath was inserted during this admission for pl.</li><li>How many denominator device days are counted for the</li></ul>		One. If a central line was accessed via placement in an inpatient location during the current admission, it is counted in the denominator device day count each day that it remains in place, whether in use or not.
18. A patient has a central line that was accessed for a bloc currently in use, and a peripheral IV that is in use. How for this patient on this day?		One. The central line was accessed in an inpatient location during this stay and subsequently the line will be counted for each daily count until discharge, unless removed.
19. A patient has a central line that was accessed once for evaluation leading to admission. The patient is now ad line is not currently in use. How many denominator de on this day?	One. Starting in 2018, all central lines should be included in denominator device day counts once the patient locates to an inpatient location. This is regardless of access of the central line.	
20. If a central line is removed at 2PM and replaced at 8PM. The central line day count is done at 5PM, should the line be counted?	Yes No Unknown	No. Central line must be in place at time of count.

NICU-Specific Central Line Questions (Optional: Check here and skip section if NICU questions do not apply to your job) 🗌)				
21. When reporting central line (CL) days in neonates, which neonatal weight is used for reporting? <i>(select one)</i>	<ul><li>Birth weight</li><li>Current weight</li></ul>	Birth weight		
<ul><li>22. Neonates with both a CL and an umbilical catheter (UC) are included in the daily count as: (select one)</li></ul>	<ul> <li>UC only</li> <li>CL only</li> <li>2 separate lines</li> </ul>	CL only. No separate reporting of UCs; UCs are considered CLs, and reporting is stratified by birth weight.		

IND\	WELLING URINARY CATHETER DAYS (for CAUTI denominator counters only)	Answer Key/Rationale
23.	How are indwelling urinary catheter days collected for the units you oversee? (choose one)	
	Electronically (specify software system utilized):	
	Manually (daily/weekly)	
	Some units electronic and some units manual	
	Comment:	
24.	Identify the method used to count <b>indwelling urinary catheter days</b> : ( <i>choose one</i> )	Count the number of patients on the unit with an indwelling catheter or
	Count the number of patients on the unit with a urine collection bag	indwelling three-way (infusion) catheter used for bladder irrigation.
	Count the number of patients on the unit with an indwelling urinary catheter or condom catheter	<b>Note</b> : Indwelling urinary catheter: A drainage tube that is inserted into the bladder through the urethra, left in place, and connected to a drainage bag, including urinary catheters that are used for intermittent
	Count the number of patients on the unit with an indwelling urinary catheter, condom catheter, or suprapubic catheter	or continuous irrigation, but excluding suprapubic, condom, or straight in-and-out catheters.
	Count the number of patients on the unit with an indwelling catheter or indwelling urethral three-way (infusion) catheter used for bladder irrigation	
	Other (specify):	
	When reporting monthly <b>indwelling urinary catheter day</b> total, what is done if there are missing <b>urinary catheter day</b> data? (choose one)	NHSN issued specific guidance on imputing values for missing data in September 2013
	Report the sum of available daily counts with no adjustment for missing data	( <u>http://www.cdc.gov/nhsn/PDFs/NHSNMissingDenomData_Sep2013.pdf</u> )
	Estimate or re-create missing data using patient information (for example, medical records), then sum	
	Impute missing values using recent CDC/NHSN guidance for missing denominator data	
	A patient has a draining ureteral stent and an indwelling urinary catheter; each one is connected to a collection bag. How many urinary catheter days are counted for this patient on this day?	One. Ureteral stents are not counted because they are not urethral catheters
	A patient has a three-way indwelling urinary catheter used for irrigation after surgery to prevent blood in the bladder from clotting, and to provide for urinary drainage. How many urinary catheter days are counted for this patient on this day?	One. Catheters to be counted include indwelling urethral catheters used for intermittent or continuous irrigation, as well as those used for drainage.
	A patient on the unit has a supra-pubic urinary catheter. How many urinary catheter days are counted for this patient on this day?	Zero. Supra-pubic catheters are not urethral catheters because they enter the bladder through the abdominal wall.
	A patient's indwelling urinary catheter is removed at noon (12PM) and replaced at 5PM. Daily indwelling urinary catheter counts take place at 2PM. How many urinary catheter days are reported for this patient on this day?	None. There was no indwelling urinary catheter in place at the time of the daily denominator count.





### Appendix D: Surgical Procedure and SSI Surveillance Methods Survey (with Key)

OrgID/Name of Hospital \_\_\_\_\_\_ Date of Survey \_\_\_\_\_\_

Instructions	<b>s:</b> Administer t	this survey to the person who	oversees NSHN S	SSI surveillance and reporting of s	surgical denominator (surgi	cal procedure) data
Facility org ID	D:	Name / ID of individual interviewed:	Position: □IP □Other (explain)	n):	Interviewer initials:	Date of survey:
Procedure (Denominator) Data		Answer Key/Rationale				
<ol> <li>Does your facility normally upload surgical procedure data electronically to NHSN (via CSV or CDA), or is procedure data entered manually? (choose one):</li> </ol>			<ul> <li>Electronic (skip to Q3)</li> <li>Manual</li> <li>Other (comment):</li> </ul>			
-		has primary responsibility a entry to NHSN? <i>(choose o</i>	-	<ul> <li>IP</li> <li>Clerical/support staff</li> <li>Clerical/support staff with IP</li> <li>Other</li> </ul>	oversight	If IP is responsible for entering denominator data and unable to fully meet other responsibilities, please recommend clerical support with IP oversight for this task
NO	ORMALLY use	of information does your f to identify COLO and/or H hoose all that apply):	•	<ul> <li>The complete OR records/repo</li> <li>Selected flagged/filtered OR records/repo</li> <li>CPT codes assigned by surgeon</li> <li>ICD-10-PCS/CPT operative procecoders after discharge</li> <li>Vendor system using OR record</li> <li>Vendor system using ICD-10-PC codes assigned after discharge (sp</li> <li>Vendor system using both OR roperative procedure codes assigned</li> <li>Vendor system using both OR roperative procedure codes assigned</li> </ul>	cords/reports s redure codes assigned by ds (specify) CS/CPT operative procedure pecify) records and ICD-10-PCS/CPT red after discharge (specify)	ICD-10-PCS/CPT operative procedure codes are required to determine the correct NHSN operative procedure category to be reported. ICD-10-PCS/CPT operative procedure codes should be assigned by a professional medical coder. If there are questions regarding the accuracy of an assigned operative procedure code, these questions should be reviewed with your professional medical coder.
-	ow do you as porting is cor	sure COLO and/or HYST pro	ocedure	<ul> <li>No systematic way</li> <li>Extra scrutiny to XLAPs</li> <li>Cross-reference (multiple) data (explain):</li> <li>Other</li> </ul>		Cross-referencing of sources (for example, OR records plus ICD-10-PCS/CPT operative procedure codes assigned after discharge) is the best way to assure complete denominator count. In general, XLAPs should be scrutinized by IPs conducting surveillance for COLO and HYST. Planned OR schedules are often inaccurate due to inability to predict procedures. OR

records systems may be imprecise (for example, may record XLAP rather than specifying that XLAP led to COLO, APPY, or SB). OR notes may be coded inaccurately (for example, surgeon may call procedure VHYS based on route of extraction whereas coder may classify as HYST based on route of detachment).
HYST: For the purpose of NHSN SSI reporting, hysterectomy procedure codes that involve an incision made into the abdomen, including trocar insertion, are listed in the abdominal hysterectomy (HYST) category. The correct hysterectomy procedure codes should be assigned by a medical record coder using current guidelines and conventions.



5)	If you are following inpatient procedures, under what circumstances do you remove COLO and/or HYST procedures from NHSN? <i>(choose all that apply):</i>	<ul> <li>a. COLO or HYST ICD-10-PCS/CPT operative procedure code was not assigned to the operative procedure</li> <li>b. COLO or HYST ICD-10-PCS/CPT operative procedure code was assigned, but IP believes coder assigned COLO or HYST code in error</li> <li>c. Incision not primarily closed in OR</li> <li>d. The admission and discharge date were the same calendar date (NHSN outpatient operative procedure)</li> <li>e. Infection was present at the time of surgery (PATOS)</li> <li>f. Wound class = Contaminated (CO) or Dirty (D)</li> <li>g. ASA score = 6</li> <li>h. Other</li> </ul>	Although questioning of ICD-10-PCS/CPT operative procedure codes is acceptable, removal of procedures with designated ICD- 10-PCS/CPT operative procedure code is only acceptable if procedure does not meet other aspects of NHSN procedure definition. Therefore, it would be appropriate to remove procedure if there is 1) no appropriate ICD-10-PC/CPT procedure code, 2) not an inpatient operative procedure) ( <u>if</u> facility is <u>only</u> following inpatient procedures on monthly reporting plan), 3) ASA score = 6 (Correct answers a, d, g).
6)	If the operative procedure report details do not match the listed ICD-10-PCS/CPT procedure codes, what should you do?		For validation purposes, NHSN recommends that IPs should bring coding mismatches to coders for review, and should not override coders' decisions.
7)	Which of the following are consistent with the definition of primary wound closure? (check ALL that apply)	<ul> <li>Complete closure of skin with suture</li> <li>Partial closure of skin with staples</li> <li>Closure of skin except for wick/drain through incision</li> <li>Closed fascia with incision loosely closed at the skin level</li> <li>Closed fascia, with skin layer left open</li> </ul>	All but the last option are considered primary closure. All procedures, regardless of closure method, must be reported to NHSN.
8)	Does your facility conduct NHSN analysis to look at longitudinal trends for COLO or HYST SSIs and procedures?	□ Yes □ No	This is recommended practice for facility use of NHSN data.
9)	What would you do if your procedure denominator this month was dramatically higher from one month to the next?		Recommended: investigate this aggregate data by exploring the data at a patient/procedure level to identify the reason.

Instructions: Interview individual(s) directly responsible for identifying and reporting SSI data			data Date of survey:	
Name/ID of individual interviewed:   Position:     Numerator (SSI Event) Data   A			(circle one): COLO H	/ST BOTH
		Answer Key/	Rationale	
10) If a patient with an SSI is admitted procedure was performed in anot you do? (choose all that apply)	to your facility but the surgical her hospital ("hospital A"), what do	Report the SSI     Report the SSI     Report the SSI     No external re     Comment:	I to "hospital A" I to the health department	Best practice is to report to "hospital A" and (if required by the state) to health department. Hospital A should report to NHSN. The SSI event must be reported by the facility in which the procedure was performed and linked to the operative procedure (denominator details) associated to the SSI event.
11) If you do not report the SSI to "ho (choose all that apply)	spital A", why not?	<ul> <li>☐ HIPAA concer</li> <li>☐ Not a priority</li> <li>☐ Logistically dift to contact)</li> <li>☐ Not required</li> <li>Comments:</li> </ul>		Best practice is to report to "hospital A". If facility cites HIPAA concerns, consider sharing <u>Section IV. Facility/Provider to</u> <u>Facility/Provider Communications under</u> <u>HIPPA: Questions and Answers</u> , or CSTE position statement 13-ID-09, which contains information from the Office of Civil Rights assuring that sharing SSI information with the originating facility does not violate HIPAA.
12) If you are contacted by the IP fron with an SSI who underwent a proc (choose all that apply)	n another hospital regarding a patient edure in your facility, what do you do?	report Document in y Report the SS Ask the IP to r	help completing the NHSN your tracking records I to NHSN report the SSI to NHSN porting or documentation	The other IP can provide details regarding the infection, but cannot report the event to NHSN (the SSI event must be reported by the facility in which the procedure was performed and linked to the operative procedure (denominator details) associated to the SSI event). Request pertinent details regarding the SSI event to assist with completion of the SSI event form (such as date of event, signs/symptoms, etc.). Include relevant details in the patient medical record.

13) What methods are routinely and systematically used to identify possible	Reports/Rounds:			
SSIs? (Check all that apply)				
SSIS! (Check un that apply)	Emergency department line lists with diagn     Administration line lists with diagn	loses		
	□ Admissions line lists with diagnoses			
	□ Surgical ward rounds – talk to primary care			
	Positive laboratory cultures from inpatients	5		
	Positive laboratory cultures from ED			
	Pharmacy reports (antibiotic starts or continued)	nuations)		
	□ Other			
	Surgical service information:			
	Inpatient returns to surgery			
	□ Surgical service readmissions			
ADT/Medical Records Data Mining:				
	<ul> <li>Readmissions within one month of discharge</li> <li>Extended LOS</li> </ul>			
	□ Discharge diagnostic coding (for example, I	CD-10-CM Infection Diagnosis Codes to		
	prompt further review)	Ũ		
	□ Other	_		
14) How does your facility conduct post-discharge surveillance for SSIs?	IP does not have a formal post-discharge su	irveillance plan		
(check all that apply)	□ IP conducts patient survey by mail			
	<ul> <li>IP conducts patient survey by telephone</li> <li>IP provides line list of patients to surgeon for</li> </ul>			
	<ul> <li>IP provides line list of patients to surgeon it</li> <li>Surgeon indicates SSIs identified at surgical</li> </ul>			
	□ Surgeon surveys patient by mail			
	Surgeon surveys patient by telephone			
	IP reviews surgical clinic / wound clinic info			
	□ IP reviews surgical patient records within a	time period that aligns with the operative		
	procedure category surveillance period <ul> <li>Other/ Comment:</li> </ul>			
SSI Attribution Knowledge Check	Answer Key/Rationale			
15) During one trip to the operating room, both a COLO procedure and a	🗆 a. COLO	Two answers are correct (a and d): The		
HYST procedure are performed. Patient meets criteria for a Deep	D b. HYST	procedure which is higher on the 2019		
incisional SSI event following the COLO and HYST procedure. To which	□ c. Both	procedure hierarchy (this would be COLO),		
procedure should you attribute the SSI?	<ul> <li>d. Whichever is higher on the procedure hierarchy</li> </ul>	because you cannot determine which procedure led to the SSI.		
	□ e. Neither			



16) During one trip to the operating room, both a COLO procedure and a HYST procedure are performed. The patient later meets criteria for a GI- IAB (an organ-space SSI). To which procedure should you attribute the SSI?	<ul> <li>a. COLO</li> <li>b. HYST</li> <li>c. Both</li> <li>d. Whichever is higher on the procedure hierarchy</li> <li>e. Neither</li> </ul>	Two answers are correct (a and d): The procedure which is higher on the 2019 procedure hierarchy (this would be COLO) because you cannot determine which procedure led to the SSI.
17) During one trip to the operating room, both a COLO procedure and a HYST procedure are performed. An abscess of the vaginal cuff (organ- space SSI) develops. To which procedure should you attribute the SSI?	<ul> <li>a. COLO</li> <li>b. HYST</li> <li>c. Both</li> <li>d. Whichever is higher on the procedure hierarchy</li> <li>e. Neither</li> </ul>	The vaginal cuff is the operative site of the HYST, and the hierarchy is not needed; this SSI is attributable to the HYST (answer b).
18) During one trip to the operating room, both a SB procedure and a HYST procedure are performed. An abscess of the small-bowel anastomosis site (organ-space SSI) develops. To which procedure should you attribute the SSI?	<ul> <li>a. SB</li> <li>b. HYST</li> <li>c. Both</li> <li>d. Whichever is higher on the procedure hierarchy</li> <li>e. Neither</li> </ul>	The SSI is localized to the operative site of the SB, and the hierarchy is not needed; this SSI is attributable to the SB (answer a). SB is higher on the hierarchy, but the hierarchy is only used when attribution cannot be determined by localized infection.



### **Appendix E: LabID Event Surveillance Methods Survey (with Key)**

OrgID/Name of Hospital \_

Date:

	LabID Event Surveillance Methods Survey Instructions: Administer this survey to the person who oversees NHSN LabID Event reporting							
Pat	Patient Days/Patient Admissions (Denominator) Data Collection Questions							
Name of individual interviewed:     Position:     Image: FacWideIN MRSA bacteremia       Image: Mathematical Structure     Image: FacWideIN CDI						Interviewer Date initials:		of survey:
1)	For FacWideIN reporting, denom facility-wide level					True False		Т
2)	For CDI reporting, the denominat	or should include all cor	mplet	ed CDI toxin tests		True False		F (denominator = admissions and patient days)
3)	Patient days include only admitte located on inpatient wards are ex		wards	s; observation patients		True False		F (all patients housed in inpatient locations)
4) For CDI reporting pediatric locations should be excluded from FacWideIN reporting						True False		F (NICU and well- baby locations and babies on LDRP are excluded for CDI)
5) For MRSA bacteremia reporting baby locations (NICU, newborn nursery, etc.) should be excluded from the denominator					True False		F (no location exclusions for MRSA)	
Lab	ID Event (Numerator) Data Collect	ion Questions						
Nar	ne of individual interviewed:	Position:		FacWideIN MRSA bacteremia FacWideIN CDI		erviewer ials:	Date	of survey:
6)	For FacWideIN reporting, a mont wide level only	hly total for all LabID Eve	ents i	s reported at the facility-		True False		F (LabID events are reported by location)
<ul> <li>For CDI reporting, the numerator should include toxin-positive CDI results conducted on formed stool specimens</li> </ul>					True False		F (laboratories should only process and report results for unformed stools)	
8)	A second event is always reporte MRSA bacteremia or toxin-positiv		ed froi	m the most recent positive		True False		Т
9) A second event is only reported if >14 days have passed from the most recently reported LabID event					True False		F (If the patient changes location, a second event is reported even within 14 days of prior event)	
<ol> <li>A second event is only reported if the patient changes location OR &gt;14 days have passed since the most recent positive MRSA bacteremia or toxin-positive CDI test in the same location</li> </ol>						True False		Т
11) Only reportable CDI LabID Events should be entered into NHSN					True False		Т	
Poli	cy Question							
12)	Does your facility laboratory limit only, or does the laboratory proc					Unformed s specimens o All stool specimens		Recommended policy is to only process unformed stool specimens for CDI

### Appendix F: LabID Event Facility-Wide Inpatient (FacWideIN) Denominator Validation Template

#### Please feel free to adapt this template to meet your facility's needs

#### Electronically collected MRSA bacteremia and CDI FacWideIN denominators

"FacWideIN" includes all patient days counted at the same time each day for all inpatient locations, including any patients located for the day in inpatient locations, whether or not the facility considers them admitted patients or observation patients, but excluding any patients located for the day in outpatient locations (such as 24-hour observation units). This information is typically collected electronically.

Because the task of validating electronic patient days and admissions facility-wide is daunting, denominator validation can be accomplished using manual counting of patient days and admissions in three specified location types for three months each: one ICU, one Labor/Delivery/Recovery/Post-Partum (LDRP) location (if available), and one or more inpatient wards where observation patients are frequently located. Facilities with inpatient rehabilitation facility (IRF) and/or inpatient psychiatric facility (IPF) locations with separate CCNs and facilities with baby-based locations (for example, NICU, well baby nursery, etc.) should also validate these locations.

Electronic counts should be within 5% of manual counts, or an evaluation of why they differ should be conducted.

MRSA Bacteremia LabID Event Denominator Validation									
Location of	Month of		Admissions			Patient Days			
Validation*	Validation	Usual	5% Tolerance	Manual	Usual	5% Tolerance	Manual		
	(specify)	Count	interval <sup>+</sup>	Count	Count	interval†	Count		
	1								
	2								
	3								
	1								
	2								
	3								
	1								
	2								
	3								
*Select one ICU, one Labor/Delivery/Recovery/Post-Partum (LDRP) location if available, and one or more inpatient ward location where observation patients are frequently located and conduct manual (patient level) validation of admissions and patients days for three consecutive months, according to NHSN definitions. (https://www.cdc.gov/nhsn/pdfs/pscmanual/pcsmanual_current.pdf, and http://www.cdc.gov/nhsn/forms/instr/57_127.pdf). Remember that for MRSA bacteremia <b>both mothers and babies</b> are counted in LDRP locations.									
<sup>+</sup> Equation for 5	% tolerance inter	val: Usual Cou	nt ± (Usual Count *	0.05).					

Example calculations where Usual Count = 164 and Manual Count = 178:

Eligible 5% tolerance interval = [164±(164\*0.05)]=155.8 to 172.2

Manual Count 178 falls outside the tolerance interval, suggesting that Usual Count is inaccurate and should be investigated.

Validation*	Month of Validation <i>(specify)</i> 1	Usual Count	Admissions 5% Tolerance interval†	Manual	Llaval	Patient Days	
1	(specify)			Ivianual	Usual	5% Tolerance	Manual
2	1		Interval	Count	Count	interval <sup>+</sup>	Count
3	2						
	3						
1	1						
2	2						
3	3						
1	1						
2	2						
3	3						
where observati for three consec ( <u>https://www.co</u>	ion patients a cutive months dc.gov/nhsn/p	re frequent , according odfs/pscmar	ly located and conductor to NHSN definitions	uct manual (patie 	nt level) valid p://www.cdc.	l one or more inpatient ation of admissions and gov/nhsn/forms/instr/	d patients days

Manual Count 178 falls outside the tolerance interval, suggesting that Usual Count is inaccurate and should be investigated.



### III. Quarterly/Monthly Data Quality Assessment Activities

#### Monthly HAI reporting plan

Facilities must ensure that their monthly HAI NHSN reporting plan is complete and accurately reflects their HAI reporting intentions. HAIs not included in the monthly reporting plan may be entered by the facilities but will not be used for facility SIR calculation.

#### **Data Quality Checklists**

The data quality checklists provided in this toolkit contain the minimum suggested data quality checks to be performed on HAI data reported via NHSN. Facilities are strongly encouraged to check the completeness and accuracy of their data at least quarterly prior to CMS data submission deadlines. However, routine monthly data quality checks are beneficial for maintaining data accuracy and timeliness. Refer to the NHSN Patient Safety Analysis Quick Reference Guides for guidance on generating reports for data entered into NHSN (<u>https://www.cdc.gov/nhsn/ps-analysis-</u> <u>resources/reference-guides.html</u>).

Note: Remember to Generate Data Sets after updating data in NHSN and prior to running Analysis Reports.

**Note:** Remember to Modify Report to the Time Period being validated.

#### Appendix G: Data Quality Checklist – CLABSI/CAUTI Data

This checklist is intended to ensure completeness and accuracy of CLABSI and CAUTI data entered into NHSN and can be used at acute care hospitals, long-term acute care facilities, critical access hospitals, and inpatient rehabilitation facilities.

Summary Denominator Data			
Indicator	Description/Action	Validated	
i) Missing summary data	Verify that summary data has been entered for the		
	location and month/year. (Go to NHSN Application ->		
	Alerts –> Missing Summary Data)		
ii) Missing denominator variables (Incomplete	Verify that all mandatory/required fields are		
summary data)	completed, and that "Report No Events" is checked, if		
	appropriate. (Go to NHSN Application -> Alerts ->		
	Incomplete Summary Data)		
iii) Verify denominator data accuracy:	Generate Rate Tables to display summary data by		
	location and month in a table format.		
	Go to NHSN Application -> Analysis -> Reports ->		
	Device-Associated (DA) Module -> Central Line-		
	Associated BSI -> Rate Table		
	OR		
	NHSN Application -> Analysis - Reports -> Device-		
	Associated (DA) Module -> Urinary Catheter-		
	Associated UTI -> Rate Table		
	Alternative Method: Generate a Summary Line List		
	Go to NHSN Application -> Analysis -> Reports ->		
	Advanced -> Summary-level Data -> Line Listing - All		
	Summary Data		
1. Total Patient Days should not be greater than	Example: If location beds is 30 and the reporting		
the location beds multiplied by number of days in	month is June, Total Patient Days should not be		
the reporting month.	greater than 900 (30 x 30).		



2. Total Patient Days should be <b>greater than (or</b> <b>equal to)</b> Central Line Days or Urinary Catheter Days for the same location and month.	Central Line Days/Urinary Catheter Days should not be greater than Total Patient Days.	
3. Zero (0) Total Patient Days reported for a location for multiple months.	Does this location need to be inactivated?	

Event Data Entry		
Indicator	Description/Action	Validated
i) All CLABSI and CAUTI events reported	Verify that all CLABSI and CAUTI events have been	
	reported.	
	Go to NHSN Application -> Analysis -> Reports ->	
	Device-Associated (DA) Module -> Central Line-	
	Associated BSI -> Line Listing - All CLAB Events	
	OR	
	NHSN Application -> Analysis - Reports -> Device-	
	Associated (DA) Module -> Urinary Catheter-	
	Associated UTI -> Line Listing - All CAU Events	
ii) Missing numerator variables (Incomplete events)	Verify that all mandatory/required data fields	
	(marked with an *, **, or > on the event form) are	
	completed. (Go to NHSN Application -> Alerts ->	
	Incomplete Events, Event Type: BSI/UTI)	
iii) Confirm that date of event occurred on or after	If the event did not occur on or after the third	
the third calendar day of admission to the inpatient	calendar day of admission, then it is not considered	
location.	an HAI and will not be counted in the SIR.	
iv) Confirm that presence of a central line	If device presence is not confirmed on the event	
(permanent/temporary in specialty care locations)	form, it will not be counted in the SIR.	
or urinary catheter is indicated on the event form.		

### Appendix H: Data Quality Checklist - MDRO/CDI Data

This checklist is intended to ensure completeness and accuracy of LabID Event data entered into NHSN.

Summary Denominator Data – Validate Monthly/Quarterly				
Indicator	Description/Action	Validated		
i) Missing summary data	Verify that summary data have been entered for the			
	location and month/year. (Go to NHSN Application ->			
	Alerts -> Missing Summary Data)			
ii) Missing denominator variables (Incomplete	Verify that all mandatory/required fields are			
summary data)	completed, and that "Report No Events" is checked, if			
	appropriate. (Go to NHSN Application -> Alerts ->			
	Incomplete Summary Data)			
iii) Verify denominator data accuracy for all	Generate Rate Tables to display summary data by			
reporting locations.	location and month/year in a table format.			
Note: For 2015 and forward, FACWIDEIN excludes data	Go to NHSN Application -> Analysis -> Reports ->			
reported for rehabilitation wards (IRF) and behavioral health/psych wards (IPF) that have a CCN that is different from	MDRO/CDI Module – LabID Event Reporting –> All			
the acute care hospital.	C.difficile (or MRSA) LabID Events -> Rate Tables for			
	CDIF (or MRSA) LabID Data			
	OR			
	NHSN Application -> Analysis - Reports -> Advanced			
	-> Summary-level Data -> Line Listing -> All Summary			
	Data			



	Alternative Method (this method requires you to	
	search for each location/month/year individually):	
	Go to NHSN Application -> Summary Data -> Find.	
	Select Summary Data Type "MDRO and CDI Monthly	
	Denominator" and enter Location Code, Month, Year.	
iv) Verify the following for the month/quarter, as		
applicable for your facility. The variables listed in		
parentheses represent those that are visible in the		
Summary Data Line List.		
1. Line 1: Total Facility Patient Days		
(numTotpatdays) should be greater than 0.		
2. Line 1: Total Facility Admissions (numTotAdm)		
should be greater than 0.		
3. Line 1: Total Facility Patient Days should be		
greater than or equal to Total Facility Admissions.		
4. Line 2: patient days (numpatdays) should be	If your facility has a CMS-certified rehab unit (IRF) or	
greater than 0, but fewer than (or equal to) Total	CMS-certified psych unit (IPF), please subtract these	
Facility Patient Days.	counts from "Total Facility Patient Days" and "Total	
	Facility Admissions" (Line 1).	
	If you do not have these units, enter the same values	
	you entered on Line 1.	
5. Line 2: admissions (numadms) should be	If your facility has a CMS-certified rehab unit (IRF) or	
greater than 0, but fewer than (or equal to) Total	CMS-certified psych unit (IPF), please subtract these	
Facility Admissions.	counts from "Total Facility Patient Days" and "Total	
	Facility Admissions" (Line 1).	
	If you do not have these units, enter the same values	
	you entered on Line 1.	
6. Line 2: Patient Days (numpatdays) should be		
greater than or equal to Admissions (numadms).		
7. Line 3: Patient Days (numcdifpatdays) should	If your facility has a CMS-certified IRF, CMS-certified	
be greater than 0, but fewer than (or equal to)	IPF, NICU, or Well Baby Unit, please subtract those	
Total Facility Patient Days.	counts from "Total Facility Patient Days" and "Total	
	Facility Admissions" (Line 1).	
	If you do not have these units, enter the same values	
	you entered on Line 1.	
8. Line 3: Admissions (numCdifadm) should be	If your facility has a CMS-certified IRF, CMS-certified	
greater than 0, but fewer than (or equal to) Total	IPF, NICU, or Well Baby Unit, please subtract those	
Facility Admissions.	counts from "Total Facility Patient Days" and "Total	
	Facility Admissions" (Line 1).	
	If you do not have these units, enter the same values	
	you entered on Line 1.	
9. Line 3: Patient Days should be greater than or		
equal to Admissions.		
10. For facilities with both IRF/IPF locations and		
NICU/Well Baby locations: Line 2 Patient Days		
should be greater than or equal to Line 3 Patient		
Days, but <b>fewer than or equal to</b> Line 1 (Total)		
Facility Patient Days.		
11. For facilities with both IRF/IPF locations and		
NICU/Well Baby locations: Line 2 Admissions		
should be greater than or equal to Line 3		
Admissions, but <b>fewer than or equal to</b> (Line 1)		
Total Facility Admissions.		
12. Encounters for the Emergency Department		
and 24-hour observation locations should be		
greater than 0.		
2019	I	35





	-	
Indicator	Description/Action	Validated
i) All CDI and MRSA bacteremia LabID Events	Verify that that all CDI and MRSA bacteremia LabID	
reported	Events have been reported.	
	Go to NHSN Application -> Analysis -> Reports ->	
	MDRO/CDI Module – LabID Event Reporting –> All	
	C.difficile LabID Events -> Line Listing for All CDIF	
	LabID Events	
	OR	
	NHSN Application -> Analysis - Reports ->	
	MDRO/CDI Module – LabID Event Reporting –> All	
	MRSA LabID Events -> Line Listing for All MRSA LabID	
	Events	
ii) Missing numerator variables (Incomplete events)	Verify that all mandatory/required data fields are	
	completed.	
iii) Confirm that Facility Admit Date and Specimen	If dates are incorrect, the LabID Event may not be	
Collection Date are correct.	categorized accurately as Community-Onset (CO) vs.	
	Healthcare Facility-Onset (HO). Facility admission	
	date should be the date the patient was first housed	
	in an inpatient unit. This may be different than the	
	date this patient was placed in "admitted" status.	
CDI Test Type – Validate Quarterly (March,		•
Indicator	Description/Action	Validated
i) CDI test type should be present on March, June,	Go to NHSN Application -> Analysis -> Reports ->	
September, and December MDRO/CDI	Advanced -> Data Quality -> Line Listing - CDI Test	
denominator records.	Method History	
	,	
ii) Verify that CDI test type is the same as the	If CDI test type is different, confirm whether or not	
previous quarter.	the primary testing method has changed. Test type	
	entered should represent the testing method used	
	for the majority of the quarter. Incorrect test type	
	will affect risk adjustment for the SIR.	
iii) If CDI test type selected is OTH – other:	CDI test type = "Other" should not be used to name	
Verify that this is correct.	specific laboratories, reference laboratories, generic	
	testing methods (such as "PCR") or the brand names	
	of <i>C. difficile</i> tests.	
iv) For IRF units within a hospital: Starting in	Go to NHSN Application -> Alerts -> Confirm CDI Test	
March 2018, the CDI test type from the IRF unit	Type. If this alert is present, verify the correct test	
denominator record should match the value	type is entered into the Summary Data.	
		1
selected on the FacWideIN denominator record for		

### **Appendix I: Data Quality Checklist - SSI Events/Procedures**

This checklist is intended to ensure completeness and accuracy of SSI Event and Procedure data entered into NHSN.

SSI Event (numerator)				
Indicator	Description/Action	Validated		
i) All SSI events reported	Verify that all SSI events have been reported. (Go to NHSN Application -> Analysis - Reports -> Procedure- Associated (PA) Module -> SSI -> Line Listing - All SSI Events)			



Note: When generating the All SSI Events line list, choose the <u>Procedure Date</u> (procDate) as the Date Variable on the Time Period tab. Verify that all mandatory/required data fields are completed. (Go to NHSN Application -> Alerts -> Incomplete Events, Event Type: SSI) Verify that SSI event is linked to the correct procedure. (Add Display Variables "linkedproc" to Line Listing - All SSI Events; refer to "All SSI events reported" above.) SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary. Confirm whether this is true or not. An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.	
Variable on the Time Period tab. Verify that all mandatory/required data fields are completed. (Go to NHSN Application -> Alerts -> Incomplete Events, Event Type: SSI) Verify that SSI event is linked to the correct procedure. (Add Display Variables "linkedproc" to Line Listing - All SSI Events; refer to "All SSI events reported" above.) SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary. Confirm whether this is true or not. Confirm whether this is true or not. An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.	
Verify that all mandatory/required data fields are completed. (Go to NHSN Application -> Alerts -> Incomplete Events, Event Type: SSI) Verify that SSI event is linked to the correct procedure. (Add Display Variables "linkedproc" to Line Listing - All SSI Events; refer to "All SSI events reported" above.) SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary. Confirm whether this is true or not. An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.	
completed. (Go to NHSN Application -> Alerts -> Incomplete Events, Event Type: SSI) Verify that SSI event is linked to the correct procedure. (Add Display Variables "linkedproc" to Line Listing - All SSI Events; refer to "All SSI events reported" above.) SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary. Confirm whether this is true or not. Confirm whether this is true or not. An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.	
Incomplete Events, Event Type: SSI) Verify that SSI event is linked to the correct procedure. (Add Display Variables "linkedproc" to Line Listing – All SSI Events; refer to "All SSI events reported" above.) SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary. Confirm whether this is true or not. Confirm whether this is true or not. An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.	
Verify that SSI event is linked to the correct procedure. (Add Display Variables "linkedproc" to Line Listing – All SSI Events; refer to "All SSI events reported" above.) SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary. Confirm whether this is true or not. Confirm whether this is true or not. An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.	
<ul> <li>(Add Display Variables "linkedproc" to Line Listing – All SSI Events; refer to "All SSI events reported" above.)</li> <li>SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary.</li> <li>Confirm whether this is true or not.</li> <li>Confirm whether this is true or not.</li> <li>An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.</li> </ul>	
SSI Events; refer to "All SSI events reported" above.) SSI events containing these data are excluded from the SSI SIR. Verify that data are accurate, and make corrections as necessary. Confirm whether this is true or not. Confirm whether this is true or not. An SSI that meets criteria for PATOS is not excluded from reporting and should be entered into NHSN as an SSI event.	
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Confirm what has this is true or not	
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Confirm whether this is true or not.	
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Confirm whether this is true or not. Refer to	
Procedure Duration Outliers (IQR5), Table 4, page 34.	
Confirm whether this is true or not.	
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ninator the associated SSI event is excluded from the num	erator
	Confirm whether this is true or not. Confirm whether this is true or not. Refer to Procedure Duration Outliers (IQR5), Table 4, page 34.

### IV. Facility/Provider to Facility/Provider Communications under HIPAA: Questions and Answers

**Note:** The following document was developed by CDC scientists and lawyers in collaboration with HHS Office of Civil Rights (OCR) program and legal staff, who oversee administration of the Health Insurance Portability and Accountability Act of 1996 (HIPAA). This information may not be modified without express permission of OCR.

#### Facility/Provider to Facility/Provider Communications under HIPAA: Questions and Answers

Health care providers [that is, individual clinicians and facilities (including hospitals and other health care facilities such as nursing homes and rehabilitation facilities)] are increasingly active in addressing concerns about patient safety and minimizing patients' risks of adverse healthcare events. In an era when the public, policymakers, and many health care providers seek greater transparency and accountability in healthcare, these efforts include but are not limited to new or renewed emphasis on information sharing among providers themselves about adverse events that are a consequence of a care process, care process omission, or some other risk exposure during a health care episode, such as exposure to an infectious agent.

Health care providers have raised questions as to whether the HIPAA Privacy Rule permits information sharing between individual providers and/or facilities for patient safety-related purposes. This guidance assumes that the provider seeking to share such patient information is a HIPAA covered entity. While any health care provider may be faced with these questions, they tend to arise more frequently at the facility level. The term "patient" is also used here to encompass persons residing in nursing homes or other facilities, where they are often referred to as "residents." "Source facility" or "source provider" refers to the health care facility or individual provider that first cared for the patient. Protected health information ("PHI") is individually identifiable health information, such as information that identifies (or can be used to identify) a patient.

#### Question One

Does HIPAA permit a health care facility to share PHI with the source facility where a patient was previously treated or where a patient previously resided, without the patient's authorization, for purposes of providing notification of an infection with potential infection control implications at the source facility?

In these scenarios a resident of a nursing home is admitted into a hospital, certain medical conditions are diagnosed, and the hospital wants to disclose this health information back to the nursing home.

- A practitioner at the hospital diagnoses a patient's tuberculosis and wants to inform the nursing home so that the staff there can quarantine the coughing roommate of the index case.
- The patient is admitted with sepsis and later dies in the hospital. Blood specimens drawn at admission grow group A streptococcus. The hospital seeks to disclose that this patient was diagnosed with invasive group A streptococcal infection (which causes serious outbreaks in nursing homes) to the nursing home for infection control purposes, even though the patient will not be returning.
- The hospital diagnoses the patient with influenza early in the flu season and wants to disclose this diagnosis to the nursing home for infection control purposes.



In each scenario the hospital will want to disclose the name of the patient so the nursing home can verify that this patient had been a resident in their home and the date and location of service.

#### Answer One

The HIPAA Privacy Rule permits a covered health care provider to <u>use or disclose</u> PHI for treatment purposes without the authorization of the patient. (Generally, disclosures of psychotherapy notes require written patient authorization, but these notes do not appear relevant here.) 45 CFR 164.506(c) and 164.508(a)(2). "Treatment" is defined to include the provision, coordination, or management of "health care" and related services. 45 CFR 164.501. "Health care" is defined to include preventive care. 45 CFR 160.103. Treatment refers to activities undertaken on behalf of individual patients. While in most cases, the information regarding an individual is needed for the treatment of that individual, the HIPAA Privacy Rule also allows the information regarding one individual (for example, a patient) to be used or disclosed for the treatment or preventive care (for example, vaccinations or quarantine) of other persons (for example, patients at risk).

In these scenarios, the patient (and former nursing home resident) has or had a medical condition while at the nursing home that may directly impact the health of certain or all residents at that facility. In some cases, the nursing home did not know of this condition, or the condition had not manifested itself at the time the patient was at the nursing home. The hospital may disclose PHI of the patient (and former nursing home resident) to the nursing home for treatment purposes involving other residents.

A distinction is made between <u>use</u> and <u>disclosure</u> of PHI for treatment purposes with regard to the "minimum necessary" requirement. The "minimum necessary" requirement does <u>not</u> apply to <u>disclosures</u> of PHI for treatment purposes, and the disclosures discussed above are treatment disclosures that are permitted under the HIPAA Privacy Rule.

After PHI is disclosed to the nursing home, the information may be <u>used</u> for the provision of treatment to the nursing home residents. For example, preventive measures, such as cohorting, isolation, or prophylaxis of specific patients who may be at risk at the nursing home, are considered treatment under the Privacy Rule. The <u>uses</u> of PHI by the nursing home for treatment purposes in the above scenarios <u>are</u> subject to the Privacy Rule's "minimum necessary" requirement, and the nursing home's minimum necessary policies. A nursing home, as a covered entity, must identify those persons or classes of persons in its workforce who need access to PHI, and for each such person or classes of person, the category or categories of PHI to which access is needed, and any conditions appropriate to such access. 45 CFR 164.514(d)(2). For more information on the "minimum necessary" requirement, see:

http://www.hhs.gov/ocr/privacy/hipaa/faq/minimum\_necessary/207.html.

#### Question Two

Under HIPAA, is a health care facility permitted to share PHI with another health care facility that previously treated or housed a patient, without that patient's authorization, for purposes of notifying this source facility of a potential complication of care related to the health care provided at the source facility so as to monitor and improve care and prevent future complications?

 A hospital identifies a surgical site infection (SSI) that is probably attributable to an ambulatory surgical care facility and/or surgeon that performed the surgery within the past 12 months. The hospital seeks to notify the ambulatory surgical care facility about the SSI, or in a given situation, notify the surgeon directly. • A patient is admitted to Hospital B with a surgical site infection (SSI) after an operation at another hospital (Hospital A), where the patient had been operated on and then discharged without signs or symptoms of infection. Because of federal requirements (for example, the Centers for Medicare and Medicaid Services' Inpatient Quality Reporting program requirements) or state law or policy, both hospitals are committed to reporting all SSIs following the type of operation performed on the patient. Hospital B seeks to report the SSI to Hospital A, where the SSI is presumed to have originated, so that Hospital A can fully account for SSIs attributable to its care.

#### Answer Two

The HIPAA Privacy Rule permits a covered entity to use or disclose PHI for certain "health care operations" purposes without the authorization of the patient. 45 CFR 164.506(c). This includes a covered entity disclosing PHI to another covered entity for certain purposes if each entity either has or had a relationship with the individual who is the subject of the information, and the PHI being disclosed pertains to the relationship. 45 CFR 164.506(c)(4). Of relevance here, disclosures are permitted for the purpose of the covered entity receiving the information "conducting quality assessment and improvement activities; . . . population-based activities relating to improving health [and] protocol development." 45 CFR 164.501 (definition of "health care operations"). Only the minimum amount of PHI necessary for the particular health care operations purpose may be disclosed.

The disclosures discussed above are health care operations disclosures that are permitted under the HIPAA Privacy Rule. In these scenarios we assume that the hospitals sharing the PHI, the ambulatory surgical care facility, and the surgeon are all HIPAA covered entities. The hospitals disclosing the PHI would be sharing information regarding a patient who the surgical facilities (either the ambulatory care facility or the hospital) and/or surgeon had treated, and the communication is in regard to the treatment that had been provided. The disclosures are so that the surgical facilities and/or surgeon can monitor and improve the quality of care provided. This falls under "conducting quality assessment and improvement activities," and perhaps "population-based activities relating to improving health," and/or "protocol development." In these scenarios, information regarding the patient with an SSI can be shared with the surgical facilities and/or surgeon. While only the minimum amount of information regarding the patient may be disclosed, in these scenarios the identity of the patient may be shared because it is needed to investigate the cause of the infections (for example, the dates and locations of care, and the staff involved.) There is likely to be no need to share health information regarding these patients that is unrelated to investigating the SSI.

For additional information regarding disclosures for treatment and healthcare operations purposes, see: <a href="http://www.hhs.gov/ocr/privacy/hipaa/understanding/coveredentities/usesanddisclosuresfortpo.html">http://www.hhs.gov/ocr/privacy/hipaa/understanding/coveredentities/usesanddisclosuresfortpo.html</a>.

