



National Healthcare Safety Network Member's Meeting

APIC 2016

June 12, 2016

4:15-5:45 p.m.

Junior Ballroom C

Agenda

- Welcome – Dan Pollock
- SSI Update – Janet Brooks
- Worksheet Generator – Cindy Gross
- VAE update – Cindy Gross
- MDRO/CDI Update – Denise Leaptrot
- Training update – Kathy Allen-Bridson
- Organism list update and changes to common commensals and MBI lists – Kathy Allen-Bridson
- Rebaseline – Maggie Dudeck
- Dialysis Event – Maggie Dudeck
- Long-Term Care Update – Angela Anttila
- CDA Update – Amy Webb
- Questions – All

Welcome

Dr. Daniel Pollock



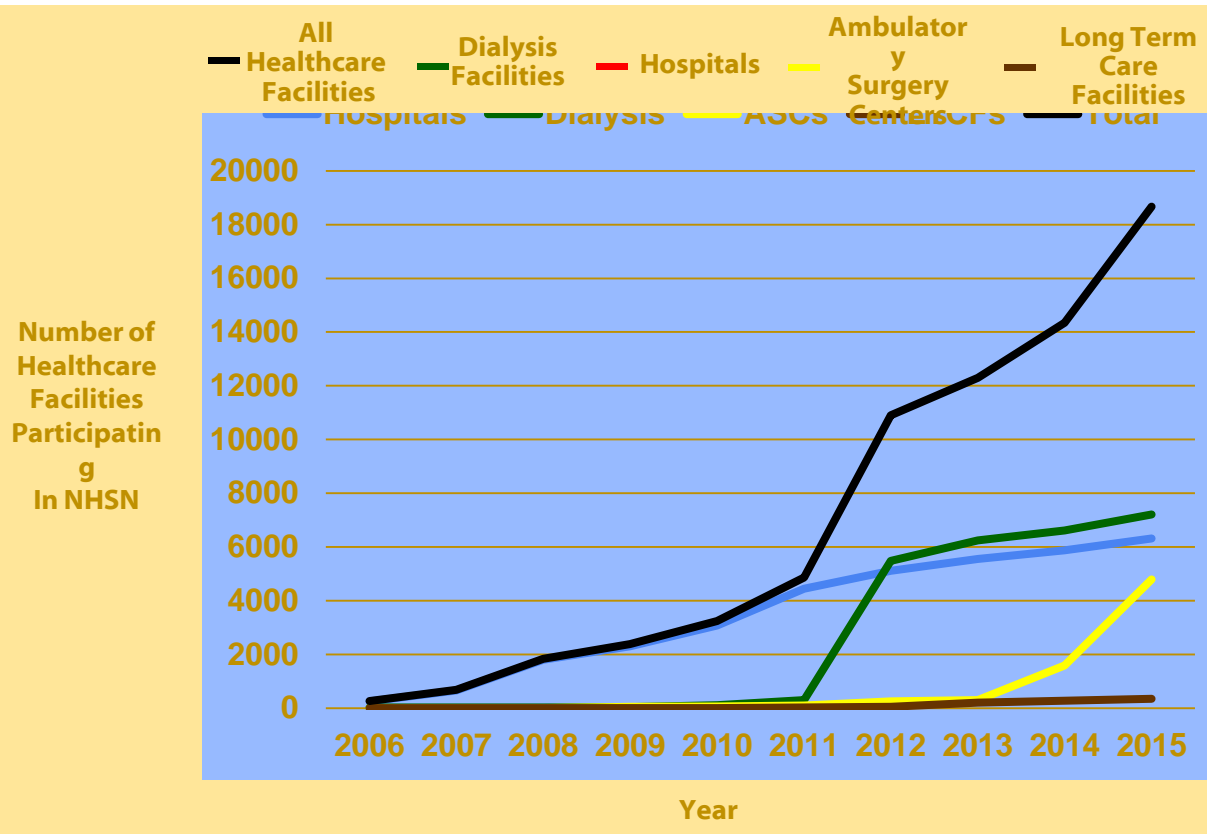
The First Decade: 2005 – 2015

Exponential growth

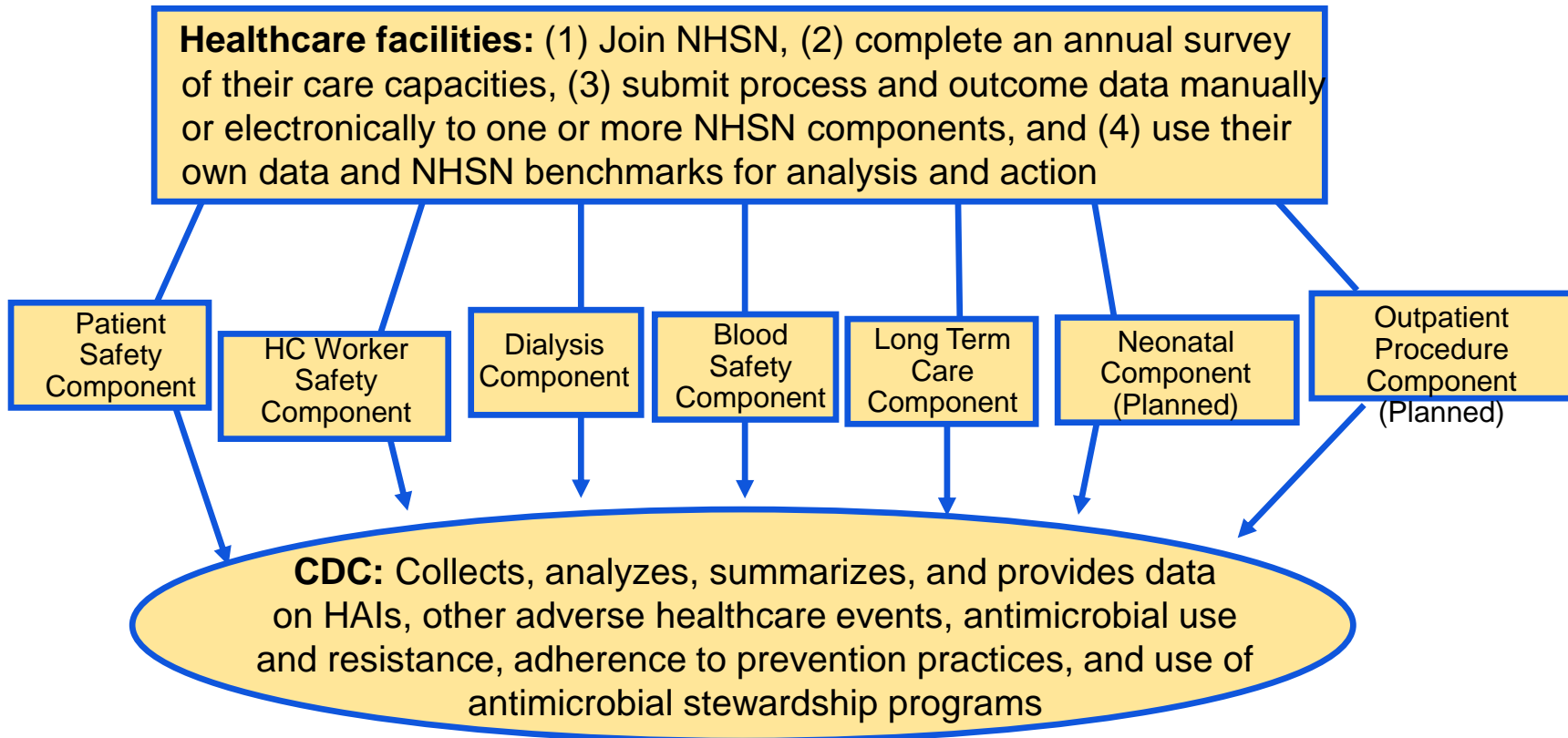
Expanding purposes

Evolving challenges

NHSN: Growth in Facility Participation, 2006-2015



CDC's National Healthcare Safety Network (NHSN) – Current and Planned Components



Implications of Public Reporting, Pay for Reporting, and Pay for Performance for NHSN

New scrutiny of HAI definitions and case criteria

- > CDC response: Updates of HAI definitions and case criteria in 2015 that reflect users' concerns about misclassification of some events as HAIs using old definitions and criteria

Pressure to simplify HAI definitions and data requirements and move to electronic HAI detection and reporting

- > CDC response: Revise definitions and data requirements in ways that reduce complexity, maintain clinical relevance, and avoid potential case misclassification
- > CDC response: Accelerate use of electronic healthcare data for event detection and reporting purposes

Heightened emphasis on data quality and completeness

- > CDC response: Assistance to states and CMS for data validation
- > CDC response: Joint communique with CMS on requirement for adherence to the NHSN surveillance protocol

CDC-CMS Joint Communique on Adherence to NHSN's HAI Surveillance Protocol - October 2015



Adherence to the Centers for Disease Control and Prevention's (CDC's) Infection Definitions and Criteria is Needed to Ensure Accuracy, Completeness, and Comparability of Infection Information

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

Background: The CDC's NHSN is the nation's most comprehensive medical event tracking system, covering more than 16,000 U.S. healthcare facilities in all 50 states, Washington, D.C., and Puerto Rico. NHSN is used for tracking of healthcare-associated infections and guides infection prevention practices to protect patients. CMS and other payers use these data to determine incentives for performance of the public may use the data to select among available providers. Each of these parties relies on the completeness and accuracy of the data. CDC and CMS are fully committed to ensuring complete and accurate reporting, which is critical for protecting patients and guiding national, state, and local priorities. Identifying infections and making sure that patients receive the highest quality of care is a priority.

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

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

- Ordering diagnostic tests in absence of clinical symptoms. It has been reported that in some instances, when patients are admitted to a hospital, diagnostic microbiology tests are ordered in the absence of clinical indications for testing, such as obtaining urine specimens for culture and sensitivity testing from patients who have no symptoms of a urinary tract infection. In some instances, culture results are generated by this practice subjecting the patient to potentially unnecessary testing. On the occasion that a culture result is positive, the results are then used to assert that the patient first manifested themselves clinically many days later during hospitalization were not reportable to NHSN.
- Discouraging the ordering of diagnostic tests in the presence of clinical symptoms. It has been reported that in some instances clinicians responsible for inpatient care in some hospitals have discouraged from ordering diagnostic microbiology tests recommended by best medical practice.

CDC has received reports from NHSN users indicating that in some healthcare facilities, some decisions about what infections should be reported to NHSN are made by individuals who may choose to disregard CDC's protocol, definitions, and criteria or who are not familiar with the NHSN specifications. CDC and CMS take any deviation from NHSN protocols seriously.

CMS reminds hospitals that intentionally reporting incorrect data, or deliberately failing to report data that are required to be reported, may violate applicable Medicare laws and regulations.

<http://www.cdc.gov/nhsn/cms/cms-reporting.html>

Continuing Concerns

Case adjudication and overruling
infection preventionists' determinations

Departures from standard diagnostic
practices to avoid case reporting

Time constraints on NHSN training

Toward a Safer Health Care System

The Critical Need to Improve Measurement

It has been more than 15 years since *To Err Is Human*, the landmark report by the Institute of Medicine (IOM), revealed the safety related to medical errors. Recent developments in getting patient safety, including that deaths associated with medical errors exceed 400,000 annually, are controversial, with questions about which medical errors to track and how many deaths are preventable. Error when death was associated is likely a major problem in the United States. The Patient Safety and Quality Improvement Act, which has, through the Purchasing and Health Care Reform Act, made patient safety a priority. While greater focus on patient safety is needed, there is little attention alone will lead to the health care industry's success, which are fundamental to these measures, there is missing: systematic events with timely feedback to care organizations. While reporting, progress is slow.

Whether meaning patient safety is contraction's internal evaluation on a subset of some questions about lack of a valid approach there is no disagreement more to improve safety measurement.

should not be between using flawed approaches that penalize the best physicians and hospitals or not mea-

“The Centers for Disease Control and Prevention (CDC) and its National Healthcare Safety Network have a very good track record of working effectively with professional societies and hospitals on a subset of these [nosocomial] infections to develop valid and reliable measures. The CDC’s work has made substantial gains in making hospital care safer, particularly with regard to associated bloodstream infections.”

2016;315(17):1831-32



eties and hospitals on a subset of these infections to de-

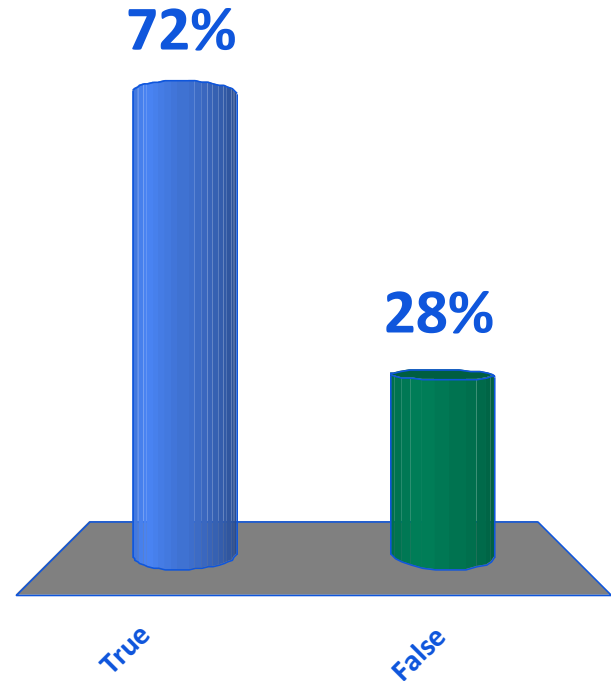
I am aware of the joint
communique issued in Oct. 2015,
by the CDC/CMS regarding the
need for complete NHSN
reporting.

88% A. True

12% B. False

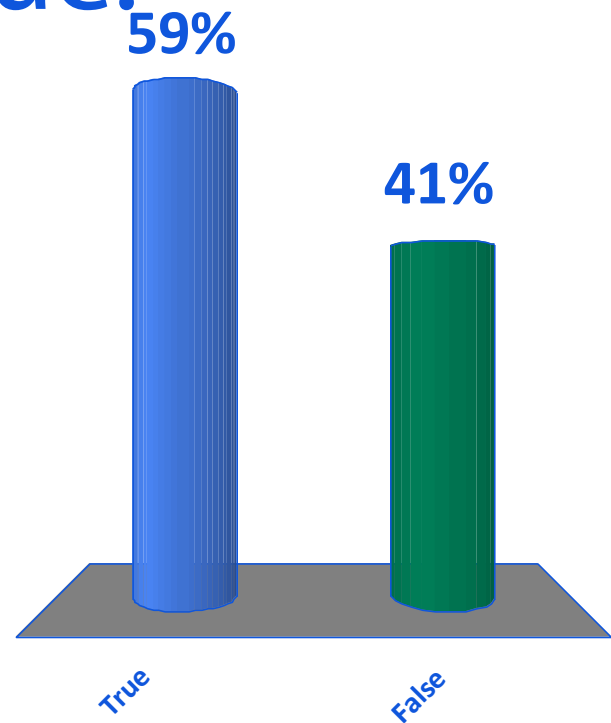
I have read the communique.

- A. True
- B. False



I have made use of the communique.

- A. True
- B. False



Does your facility enable you to obtain necessary NHSN training, either on-line or in-person?



SSI Update

Janet Brooks

GI-GIT 2c will be updated in 2017

GIT-Gastrointestinal tract infection (esophagus, stomach, small and large bowel, and rectum) excluding gastroenteritis, appendicitis, and *C. difficile* infection

The same set of pathogens that are available for use when blood is an element of the criteria for IAB - Intraabdominal (i.e., 2b and 3b) will be the same set of (+) pathogens that are available for GI-GIT 3c.

Confirm that the codes that are being used are most up to date version on the NHSN website

Supporting Materials

- **Updated December 21, 2015**
 - [ICD-10-PCS Procedure Code Mapping to NHSN Operative Procedure Codes for Procedures Occurring On or After October 1, 2015](#) [XLSX - 487 KB]
 - [Current Procedural Terminology \(CPT\) Procedure Code Mapping to NHSN Operative Procedure Codes for Procedures Occurring On or After October 1, 2015](#) [XLSX - 345 KB]
- Additional Guidance for use with NHSN Operative Procedure Codes
 - [Guidance for HPRO & KPRO Procedure Details](#) [XLSX - 42 KB]

This guidance document may be used for completing the NHSN procedure details for HPRO – hip arthroplasty and/or KPRO – Knee arthroplasty operative procedures.
 - [FUSN ICD-10-PCS Codes – Guidance for Spinal Level and Approach](#) [XLSX - 32 KB]

This supplemental guidance may be used to complete the spinal level and approach fields in the Operative Procedure Details section for FUSN procedures.
 - [ICD-10 CM Diabetes Diagnostic Codes](#) [XLSX - 16 KB]

ICD-10-CM codes included in this spreadsheet are acceptable for use to answer "YES" to "Diabetes Mellitus" for completing the NHSN Operative Procedure Details.
 - [ICD-10-CM/PCS Codes for 'prior infection at hip or knee joint' denominator form question](#) [XLSX - 20 KB]

Use ICD-10-PCS/CM diagnosis or procedure codes included in this spreadsheet to determine if patient meets criteria for 'prior infection at index joint'.

ICD-10-PCS and CPT Code FAQ



NEW

New! FAQs for 2016:


- [FAQs: Surgical Site Infections \(SSI\) April 2016](#)  [PDF - 379 KB]
 - [FAQs: SSI Procedure Codes April 2016](#)  [PDF - 279 KB] 
 - [FAQs: Analysis April 2016](#)  [PDF - 269 KB]
 - [FAQs: Annual Survey April 2016](#)  [PDF - 256 KB]
 - [FAQs: CDA](#)
 - [FAQs: Locations April 2016](#)  [PDF - 281 KB]
 - [FAQs: Miscellaneous April 2016](#)  [PDF - 250 KB]
-



NEW

ICD-10-PCS Quick Learn

▼ Training

- [Surgical Site Infections \(SSI\) Training \[CBT - 60 min\]](#)
- **New!** SSI Surveillance and Case Studies - March 2016
 - [Slideset - SSI Surveillance and Case Studies](#)  [PDF - 5 MB]
- **New!** ICD-10 PCS and CPT Transition - January 2016 [Video - 8 min]
 - [YouTube link - ICD-10 PCS and CPT Transition](#)
 - [CDC Streaming Video - ICD-10 PCS and CPT Transition](#)
- **New!** Patient Safety Component (PSC) Annual Survey - January 2016 [Video - 6 min]
 - [YouTube link - Completing the 2015 Facility Survey](#)
 - [CDC Streaming Video - Completing the 2015 Facility Survey](#)
- **New!** Surgical Site Infections (SSI) Event form for PATOS - January 2016 [Video - 6 min]
 - [YouTube Link - SSI Event Form for PATOS - January 2016](#)
 - [CDC Streaming Video - SSI Event Form for PATOS - January 2016](#)

ICD-10-PCS and CPT Code Update Process

- NHSN is collaborating with ICD-10-PCS and CPT coding consultants
 - Reviewing all issues and concerns that have been sent by NHSN users
 - Performing a validation of the codes found in all NHSN operative procedure groups
- Upon completion of the validation both the ICD-10-PCS and the CPT codes will be updated
 - The mappings in the SSI “Supporting Materials” section will be updated
 - Once complete all NHSN users and vendors will be sent a blast email
 - The IDM will be updated to reflect the updated codes
 - Each code will have a code description
 - At this time NHSN does not have an exact date for when this update will be complete

Worksheet Generator and VAE Update

Cindy Gross

NHSN Tools: Calculators and Worksheet Generator

The screenshot displays the NHSN website interface. On the left is a navigation menu with the following items: NHSN, NHSN Login, About NHSN, Enroll Here, Materials for Enrolled Facilities, Ambulatory Surgery Centers, Acute Care Hospitals/Facilities, Long-term Acute Care Hospitals/Facilities, Long-term Care Facilities, Outpatient Dialysis Facilities, Inpatient Rehabilitation Facilities, Inpatient Psychiatric Facilities, MDRO & CDI LabID Event Calculator, VAE Calculator, HAI & POA Worksheet Generator, and FAQs about HCP Influenza Vaccination Summary Reporting in NHSN. A red arrow points to the 'MDRO & CDI LabID Event Calculator' item, which is highlighted with a red box. The main content area is titled 'Surveillance Reporting for Enrolled Facilities' and includes social media icons for Facebook, Twitter, and a plus sign. Below this are six category tiles: 'Acute Care Hospitals/Facilities' (with a hospital image), 'Ambulatory Surgery Centers' (with a surgical team image), 'Long-term Acute Care Facilities' (with a hospital image), 'Long-term Care Facilities' (with an elderly patient image), 'Outpatient Dialysis Facilities' (with a dialysis center image), and 'Inpatient Rehabilitation Facilities' (with a patient and caregiver image). Each tile contains a brief description and a 'More >' button.

National Healthcare Safety Network (NHSN)

[CDC](#) > [NHSN](#)

NHSN

NHSN Login

About NHSN +

Enroll Here +

Materials for Enrolled Facilities -

Ambulatory Surgery Centers +

Acute Care Hospitals/Facilities +

Long-term Acute Care Hospitals/Facilities +

Long-term Care Facilities +

Outpatient Dialysis Facilities +

Inpatient Rehabilitation Facilities +

Inpatient Psychiatric Facilities +

MDRO & CDI LabID Event Calculator

VAE Calculator

HAI & POA Worksheet Generator


FAQs about HCP Influenza Vaccination Summary Reporting in NHSN

Surveillance Reporting for Enrolled Facilities

Reporting & Surveillance Resources for Enrolled Facilities

[f](#) [t](#) [+](#)


Acute Care Hospitals/Facilities



Urgent care or other short-term stay facilities (e.g. critical access facilities, oncology facilities, military/VA facilities)

[More >](#)


Ambulatory Surgery Centers



Outpatient surgery centers.

[More >](#)


Long-term Acute Care Facilities




Long-term acute care hospitals (LTACs).

[More >](#)


Long-term Care Facilities



Outpatient Dialysis Facilities



Inpatient Rehabilitation Facilities



NHSN Tools: Calculators and Worksheet Generator

- MDRO & CDI LabID Event Calculator

<http://www.cdc.gov/nhsn/labid-calculator/index.html>

- VAE Calculator

<http://www.cdc.gov/nhsn/vae-calculator/index.html>



- Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator

<http://www.cdc.gov/nhsn/poa/index.html>

Surveillance for C. difficile, MRSA, and other Drug-resistant Infections



Resources for NHSN Users Already Enrolled

> Training

> Protocols

> Frequently Asked Questions

> Data Collection Forms

▼ MDRO & CDI LabID Event Calculator

- [MDRO & CDI LabID Event Calculator Version 1.0](#)

(must have javascript enabled)

Operates based upon the currently posted (January 2015) LabID Event protocols in the NHSN MDRO & CDI Module.

> CMS Supporting Materials

> Supporting Material

> Analysis Resources

Surveillance for Ventilator-associated Events



VAE surveillance is available in plan for adult inpatient locations only. See [PNEU/VAP](#) for in-plan surveillance for p for ventilated associated PNEU is no longer available for neonatal patients.

The [Ventilator-Associated Event Calculator \(Version 3.0\)](#) (must have javascript enabled) operates based upon the

Resources for NHSN Users Already Enrolled

> Training

> Protocols

> Frequently Asked Questions

> Data Collection Forms

> Supporting Materials

▼ Calculator and Worksheets

- [Ventilator-Associated Event Calculator \(Version 3.0\)](#)
(javascript must be enabled)
- [VAE Data Collection Worksheet January 2015](#) [PDF - 161 KB]
 - [VAE Data Collection Worksheet January 2015](#) [DOCX - 30 KB]
- [VAE Antimicrobial Worksheet January 2015](#) [PDF - 76 KB]
 - [VAE Antimicrobial Worksheet January 2015](#) [DOCX - 33 KB]
- [VAE Antimicrobial Worksheet Instructions January 2015](#) [PDF - 203 KB]

> Related Publications and Other Resources

> Analysis Resources

Resources for NHSN Users Already Enrolled

> Training

> Protocols



> Frequently Asked Questions

> Data Collection Forms

> CMS Supporting Materials

> Supporting Material

∨ **Worksheet Generator (electronic) and Worksheets (manual)**

- [Healthcare-associated Infection \(HAI\) and Present on Admission Infection \(POA\) Worksheet Generator](#) (must have JavaScript enabled)
- [Worksheet for Determining Date of Event, Infection Window Period, Repeat Infection Timeframe, and Secondary BSI Attribution Period](#)  [XLSX - 19 KB]
- [Example Worksheet for Determining Date of Event, Infection Window Period, Repeat Infection Timeframe, and Secondary BSI Attribution Period](#)  [XLSX - 21 KB]

> Analysis Resources

(BSI, UTI, PNEU Websites)




Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator



Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator



Welcome to the NHSN Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator Version 1.0. The Generator operates based upon the currently posted guidance found in the Patient Safety Component Manual, Chapter 2, [Identifying Healthcare-associated Infections \(HAIs\) in NHSN January 2016](#)  [PDF - 369 KB].

The Worksheet Generator is a web-based tool that is designed to identify the:

- 7-day Infection Window Period
- Date of Event and POA or HAI determination
- 14-day Repeat Infection Timeframe (RIT)
- Secondary Bloodstream Infection Attribution Period (if applicable)

This Worksheet Generator **does not** determine that all NHSN infection criteria have been met. It is incumbent upon the user to determine that the infection criterion was met as reflected in the dates and information supplied.

Please note that the Worksheet Generator will not ask you to enter any patient identifiers. The Worksheet Generator does not store any data that you enter, and it will not report any data that you enter or any determinations to the NHSN. You will not be able to export data entered into the Worksheet Generator but you will be able to print the worksheet.

[Healthcare-associated Infection \(HAI\) and Present on Admission Infection \(POA\) Worksheet Generator Version 1.0](#), (must have JavaScript enabled)



Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator

- Enter admission date
- Enter diagnostic test date
- Select event type
 - BSI
 - Other event
- Check the boxes that correspond to presence of elements used to meet the infection definition
- Generate table
 - Free text capability

NHSN Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator

INTRODUCTION:

Welcome to the NHSN Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator Version 1.0. The Worksheet Generator operates based upon the currently posted guidance found in the Patient Safety Component Manual, Chapter 2, Identifying Healthcare-associated Infections (HAI) for NHSN Surveillance. It is strongly encouraged that you read and study this guidance found in the [Identifying Healthcare-associated Infections \(HAI\) for NHSN Surveillance \[PDF - 365KB\]](#) document.

The Worksheet Generator will provide an electronically generated worksheet that identifies:

- 7-day Infection Window Period
- Date of Event and POA or HAI determination
- 14-day Repeat Infection Timeframe (RIT)
- Secondary Bloodstream Infection Attribution Period

It DOES NOT determine that all NHSN infection criteria have been met. It is incumbent upon the user to determine that an infection criterion was met as reflected in the dates and information supplied.

This Worksheet Generator is developed for use with multiple site-specific infection types (e.g., BSI, UTI, PNEU, IAB etc.). The Worksheet Generator requires the user to enter the date of admission, the date of the first diagnostic test used to meet the NHSN site-specific infection criterion and any other date(s) of required infection elements needed to satisfy an NHSN site-specific infection criterion.

Note, please use the VAE calculator and MDRO & CDI LabID Event calculator when conducting VAE or MDRO/LabID event surveillance. The Worksheet Generator is not intended for use when conducting SSI surveillance.

Click on the calendar icon below to choose the admission date for this patient and then click the "Next" button.

Admit Date:



Start Over...

Next...

NHSN Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator

Click on the calendar icon to choose the date the first positive diagnostic test used as an element of the site-specific infection criterion was obtained (e.g., culture collection date, imaging test date, date of procedure or exam).

In the absence of a diagnostic test, choose the date of the first documented localized sign or symptom that is an element of the NHSN infection criterion (e.g., diarrhea, site-specific pain, purulent exudate).

Next, select the type of event for which the worksheet is being generated and then click the "Next" button.

Admit Date: 5/2/2016

Date of First Diagnostic Test:



BSI Other Event Type

Start Over...

Back...

Next...

Admit date: 5/2/2016

| Hospital Day/Date | First Diagnostic Test | Infection Window Period (*) | Date of Event | Repeat Infection Timeframe (*) | Secondary BSI Attribution Period (*) |
|-------------------|-----------------------|-------------------------------------|---------------|-----------------------------------|---|
| 7. - 5/8/2016 | | <input type="checkbox"/> | - | | |
| 8. - 5/9/2016 | | <input type="checkbox"/> | - | | |
| 9. - 5/10/2016 | | <input type="checkbox"/> | - | | |
| 10. - 5/11/2016 | ✓ | <input checked="" type="checkbox"/> | - | | |
| 11. - 5/12/2016 | | <input type="checkbox"/> | - | | |
| 12. - 5/13/2016 | | <input type="checkbox"/> | - | | |
| 13. - 5/14/2016 | | <input type="checkbox"/> | - | | |
| 14. - 5/15/2016 | | | - | | |
| 15. - 5/16/2016 | | | - | | |
| 16. - 5/17/2016 | | | - | | |
| 17. - 5/18/2016 | | | - | | |
| 18. - 5/19/2016 | | | - | | |
| 19. - 5/20/2016 | | | - | | |
| 20. - 5/21/2016 | | | - | | |
| 21. - 5/22/2016 | | | - | | |
| 22. - 5/23/2016 | | | - | | |

Start Over...

Back...

Generate Table...

National Healthcare Safety Network (NHSN)

NHSN Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator

The diagnostic test date is used to define the 7-day infection window period. The infection window period is the date of the diagnostic test, 3 days before and 3 days after.

For each calendar day within the infection window period that there is at least one element of the NHSN site-specific criterion present, place a check in the corresponding box.

Then click on the "Generate Table" button below.

*You can enter descriptive text for the element(s) that the check mark represents.

Admit date: 5/2/2016

| Hospital Day/Date | First Diagnostic Test | Infection Window Period (*) | Date of Event | Repeat Infection Timeframe (*) | Secondary BSI Attribution Period (*) |
|-------------------|-----------------------|---|---------------|--------------------------------|--------------------------------------|
| 7. - 5/8/2016 | | <input type="checkbox"/> Policy inserted | | | |
| 8. - 5/9/2016 | | <input type="checkbox"/> | | | |
| 9. - 5/10/2016 | | <input checked="" type="checkbox"/> Fever | | | |
| 10. - 5/11/2016 | ✓ | <input checked="" type="checkbox"/> Urine Culture ≥ 100,000 B.c/ml , <input checked="" type="checkbox"/> Fever | | | |
| 11. - 5/12/2016 | | <input checked="" type="checkbox"/> Fever | | | |
| 12. - 5/13/2016 | | <input type="checkbox"/> Policy removed | | | |
| 13. - 5/14/2016 | | <input type="checkbox"/> | | | |
| 14. - 5/15/2016 | | | | | |
| 15. - 5/16/2016 | | | | | |
| 16. - 5/17/2016 | | | | | |
| 17. - 5/18/2016 | | | | | |
| 18. - 5/19/2016 | | | | | |
| 19. - 5/20/2016 | | | | | |
| 20. - 5/21/2016 | | | | | |
| 21. - 5/22/2016 | | | | | |
| 22. - 5/23/2016 | | | | | |

Start Over...

Back...

Generate Table...

National Healthcare Safety Network (NHSN)

NHSN Healthcare-associated Infection (HAI) and Present on Admission Infection (POA) Worksheet Generator

Based on the information you provided:

Admit Date: Mon May 02 2016

The event is: HAI

Date of Event: Tue May 10 2016

Infection Window Period: Sun May 08 2016 - Sat May 14 2016

Repeat Infection Timeframe (RIT): Tue May 10 2016 - Mon May 23 2016

Secondary BSI Attribution Period: Sun May 08 2016 - Mon May 23 2016

Event Type: Other

NOTE: This worksheet Generator is developed for use with multiple site-specific infection types (e.g., BSI, UTI, PNEU, IAB etc.). It does not determine that all NHSN infection criteria have been met. That is incumbent upon the user. Instead the results represent an electronically generated worksheet that outlines the Infection Window Period, Repeat Infection Timeframe (RIT) and when appropriate Secondary BSI Attribution Period, all of which are accurate, if an infection criterion was met as reflected in the data and information supplied by the user.

*You can enter descriptive text for the element(s) that the check mark represents.

Admit date: 5/2/2016

| Hospital Day/Date | First Diagnostic Test | Infection Window Period (*) | Date of Event | Repeat Infection Timeframe (*) | Secondary BSI Attribution Period (*) |
|-------------------|-----------------------|---|---------------|--------------------------------|--------------------------------------|
| 7. - 5/8/2016 | | <input type="checkbox"/> Policy inserted | | | |
| 8. - 5/9/2016 | | <input type="checkbox"/> | | | |
| 9. - 5/10/2016 | | <input checked="" type="checkbox"/> Fever | - HAI | | |
| 10. - 5/11/2016 | ✓ | <input checked="" type="checkbox"/> Urine Culture ≥ 100,000 B.c/ml , <input checked="" type="checkbox"/> Fever | | | |
| 11. - 5/12/2016 | | <input checked="" type="checkbox"/> Fever | | | |
| 12. - 5/13/2016 | | <input type="checkbox"/> Policy removed | | | |
| 13. - 5/14/2016 | | <input type="checkbox"/> | | | |
| 14. - 5/15/2016 | | | | | |
| 15. - 5/16/2016 | | | | | |
| 16. - 5/17/2016 | | | | | |
| 17. - 5/18/2016 | | | | | |
| 18. - 5/19/2016 | | | | | |
| 19. - 5/20/2016 | | | | | |
| 20. - 5/21/2016 | | | | | |
| 21. - 5/22/2016 | | | | | |
| 22. - 5/23/2016 | | | | | |

Start Over...

Back...

Print Friendly Window...

Generate Table...

Ventilator Associated Event (VAE) Update

- New VAE calculator appearance
- Pediatric VAE projected for 2018
- Adult VAE CDA projected for 2019

VAE Calculator

- New appearance but same functionality
- Addition of 6 antimicrobial agents that were added to the 2016 VAE protocol
- Clarification for Fever and WBC data entry



National Healthcare Safety Network (NHSN)

[CDC](#) > [NHSN](#) > [Materials for Enrolled Facilities](#)

NHSN Ventilator-Associated Event (VAE) Calculator Ver. 4.0

Welcome to the Ventilator-Associated Event Calculator. Version 4.0 operates based upon the currently posted VAE protocol. It is strongly encouraged that you read and study the [VAE protocol](#).

- The calculator recognizes PEEP values ≤ 5 and corrects entries according to the VAE protocol prior to making a VAC determination.
- For periods of time where a patient is on APRV or a related type of mechanical ventilation for a full calendar day, a daily minimum PEEP value should not be entered into the calculator (i.e., do not enter zero)
- The calculator finds multiple VAEs per patient as long as they conform to the 14 day rule.

To get started, enter a date below that corresponds to the first day the patient was placed on mechanical ventilation during the mechanical ventilation episode of interest. You may type in a date or use the popup calendar when it appears. You may only enter dates within the past year. If the patient has been on mechanical ventilation for more than one year during the current mechanical ventilation episode, choose a start date that is more recent but is at least 7 days before the period of interest. [more...](#)

Mechanical Ventilation Start Date:



(mm/dd/yyyy)

Print

Close

NHSN Pediatric VAE

- CDC moving forward with plans to develop PedVAE in NHSN application
 - projected deployment in 2018
 - pediatric and neonatal locations
- Single tier algorithm called PedVAC with determination based on an increase over the baseline period of either
 - 0.25 increase in daily minimum FiO_2
 - OR
 - 4 cm H_2O increase in daily minimum mean airway pressure
- Preparing surveillance materials for field testing in 2017
 - Email NHSN@cdc.gov if interested in participating

Adult VAE

- Beginning the process to make reporting of VAE available by CDA
- Projected to be available in 2019

MDRO/CDI Update

Denise Leaptrot

What's Coming in 2016-

UPDATE!

★ Changes to LabID Event form:

- ❑ Question: Has patient been discharged from your facility in past 3 months? 3 months will change to 4 weeks to offer better alignment with CO-HCFA categorization
- ❑ 2 Optional questions move to **Required** status
 - Last physical overnight location of patient immediately prior to arrival into facility (specific to outpatient and CO events)
 - Has the patient been discharged from another facility in past 4 weeks

★ For CRE reporting, additional questions added in relation to CRE laboratory test methods.

★ Minor wording changes made to improve clarification and adherence to reporting rules.

2016

2017

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|--|--|---|---|---|---|--|
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Federal Holidays 2016

| | |
|--------|------------------------|
| Jan 1 | New Year's Day |
| Jan 18 | Martin Luther King Day |
| Feb 15 | Presidents Day |
| May 25 | Memorial Day |
| Jul 4 | Independence Day |
| Sep 5 | Labor Day |
| Oct 10 | Columbus Day |
| Nov 11 | Veterans Day |

Federal Holidays 2016

| | |
|--------|-----------------------------------|
| Jan 1 | New Year's Day |
| Jan 19 | Martin Luther King Day (observed) |
| Feb 16 | Presidents Day (obs.) |
| May 26 | Memorial Day (obs.) |
| Jul 5 | Independence Day (obs.) |
| Sep 6 | Labor Day (obs.) |
| Oct 11 | Columbus Day (obs.) |
| Nov 12 | Veterans Day (obs.) |

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| Dec 25 | Christmas Day |

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|---|---|
| NHSN | |
| NHSN Login | |
| About NHSN | + |
| Enroll Here | + |
| Materials for Enrolled Facilities | - |
| Ambulatory Surgery Centers | + |
| Acute Care Hospitals/Facilities | - |
| Surveillance for Antimicrobial Use and Antimicrobial Resistance Options | |
| Surveillance for UTI (CAUTI) | |
| Surveillance for C. difficile, MRSA, and other Drug-resistant Infections | |
| Surveillance for BSI (CLABSI) | |
| Surveillance for CLIP | |
| Surveillance for SSI Events | |
| Surveillance for VAE | |
| Surveillance for PNEU (pedVAP) | |
| Surveillance for Healthcare | |

[CDC > NHSN > Materials for Enrolled Facilities > Acute Care Hospitals/Facilities](#)

Surveillance for C. difficile, MRSA, and other Drug-resistant Infections



Resources for NHSN Users Already Enrolled

> **Training**

> **Protocols**

- [Multidrug-Resistant Organism & Clostridium difficile Infection \(MDRO/CDI\) Module Protocol January 2016](#) [PDF - 577 KB]
- [NHSN Overview January, 2016](#) [PDF - 171 KB]
- [Identifying Healthcare-associated Infections \(HAIs\) in NHSN January 2016](#) [PDF - 369 KB]
- [Patient Safety Monthly Reporting Plan January 2016](#) [PDF - 164 KB]

> **Frequently Asked Questions**

> **Data Collection Forms**

> **MDRO & CDI Labid Event Calculator**

> **CMS Supporting Materials**

> **Supporting Material**

> **Analysis Resources**

Last physical overnight location of patient immediately prior to arriving into facility.

Optional. For specimens collected from the emergency department, observation location(s), or less than four days after admission into an inpatient unit. Using the available variables, select the location in which the patient spent the night immediately prior to arrival into the facility. Selections include: (1) Nursing Home/Skilled Nursing Facility; (2) Other Inpatient Healthcare Setting (i.e., acute care hospital, inpatient rehabilitation facility/IRF, long term acute care facility/LTAC, etc.); or (3) Personal Residence/Residential Care, which includes personal homes or assisted living environments in which 24/7 care is **not** provided in a group setting; **Note:** If the patient's personal residence is a nursing home or skilled nursing facility, then your selection should be Nursing Home/Skilled Nursing Facility.

Has the patient been discharged from another facility in the past 4 weeks?

Optional. Circle "Yes" if the patient has been discharged, after an inpatient stay, from another facility in the past four weeks. Select "No" if the patient has not been discharged, after an inpatient stay, from another facility in the past four weeks. Select "Unknown" if previous inpatient history is not known.

Last discharging facility

Optional. If the patient was discharged from an inpatient stay from another facility in the past four weeks, (previous question is circled "Yes"), select all that apply from the provided list, which includes: (1) Nursing Home/Skilled Nursing Facility; or (2) Other Inpatient Healthcare Setting (i.e., acute care hospital, inpatient rehabilitation facility/IRF, long term acute care facility/LTAC, etc.).

Polling Question: Background

The current process for MDRO/CDI LabID event reporting requires facilities to determine if a positive specimen meets the definition, i.e. no prior positive specimen for same patient/ same location within 14 days. Within the protocol is a recommendation that each facility keep an internal line listing of all positive tests as a reference in LabID event reporting. There is discussion for submitting all positive specimens to NHSN and allowing the application to determine which events meet definition.

Advantages to reporting all positive specimens include:

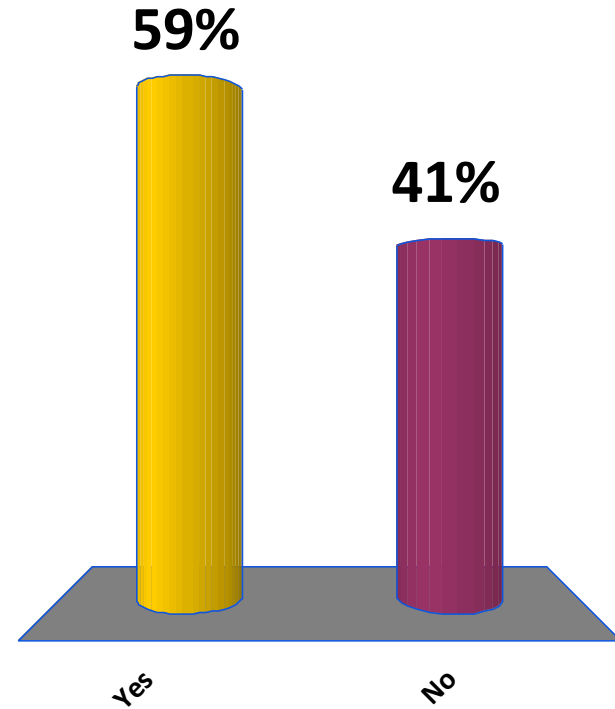
- Removes decision making from users
- Decreases time related to electronic download/import
- Eliminates the need to keep an internal line listing of all positive tests as a reference
- Removes inaccurate categorization of 'incident' events in situations where the patient changes location and positive specimen is > 14 days from a prior positive

Disadvantages:

- Potential for increased time for data entry if submitting LabID events manually

Polling Question

- For LabID Event Reporting, would you be in favor of submitting all positive specimens to NHSN and allow the application to determine which specimens meet the LabID event definition?
 - Yes
 - No



Training Update

Katherine Allen-Bridson

Available Training – Overview

❑ Quick Learns

- 5 – 10 minute videos addressing specific NHSN topics

❑ Interactive Trainings - CBTs

- Self-paced slides with detailed graphics, screen shots of step-by-step examples of form completion for instructional purposes, practice questions, and case study examples
- Available for: Device and Procedure-associated Modules, MDRO/CDI LabID, Dialysis Event
- More coming soon! (e.g., VAE, Analysis)

❑ Archived Webstreaming Trainings - available now!

- Available for: LTCF, CLABSI, CAUTI, VAE, LabID Events, SSI, Analysis, and AUR

❑ In-Person Training - coming March 2017

- The training course will provide information on CMS reporting, definition and protocol clarification, interactive case studies, analysis, Re-baseline, and any updates in reporting for 2017
- Webstreaming will be available for those not attending in-person

NHSN Training Website: <http://www.cdc.gov/nhsn/training/>

National Healthcare Safety Network (NHSN) Training

[f](#) [t](#) [+](#)

Our mission is to offer learning opportunities in a variety of formats that enhance the knowledge and skills of NHSN facility- and group-level participants and their partners in order that they may effectively use the data obtained from the surveillance system to improve patient and healthcare personnel safety.

Objectives

- Convey NHSN data collection methods, submission requirements, and analysis options to participants so that they may acquire, submit, and disseminate high quality, actionable data.
- Prepare participants to use the NHSN reporting application accurately and efficiently.
- Enhance participants' and their partners' understanding of data quality and the value of adverse event monitoring.
- Encourage collaboration among participants and partners to improve the patient and healthcare personnel safety across the spectrum of care.

COURSE CATALOG
Course descriptions for NHSN components, modules and events.

ENROLLMENT AND SETUP TRAINING
Self-paced training for new NHSN enrollment and existing facility set-up.

DATA ENTRY AND ANALYSIS
Self-paced training for data entry, import, customization and analysis.

REQUEST CDC LED TRAINING
Webinar / In-person training policy and request.

CONTINUING EDUCATION
CE available free of charge for all NHSN education course work.

PATIENT SAFETY COMPONENT TRAINING
Self-paced training for specific module and events.

DIALYSIS COMPONENT TRAINING
Self-paced training for outpatient dialysis module and events.

HEALTHCARE PERSONNEL SAFETY COMPONENT TRAINING
Self-paced training for specific module and events.

BIOVIGILANCE COMPONENT TRAINING
Self-paced training for specific module and events.

LONG-TERM CARE FACILITY COMPONENT TRAINING
Self-paced training for long-term care facilities enrollment and set-up.

Quick Learn Videos

NHSN Home

- NHSN Training
- NHSN Demo +
- Course Catalog
- Long-term Care Facility Component
- Enrollment and Setup Training
- Data Entry and Analysis
- Patient Safety Component**
- Dialysis Component +
- Healthcare Personnel Safety Component

CDC > [NHSN Home](#)

Patient Safety Component Training

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Training Resources

- > **Overview of the Patient Safety Component**
- > **Device-associated Module**
- > **Procedure-associated Module**
- > **Multidrug-resistant Organism and Clostridium difficile Infection (MDRO/CDI) Module**
- > **Vaccination Module**

- Home Training Page
- Archived Webstreaming Events
- Quick Learns
- Interactive Trainings

2016 Quick Learns

the knowledge and skills of
may effectively use the data
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PATIENT SAFETY COMPONENT TRAINING
Self-paced training for specific module and events.

DIALYSIS COMPONENT TRAINING
Self-paced training for outpatient dialysis facilities.

HEALTHCARE PERSONNEL SAFETY COMPONENT TRAINING
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BIOVIGILANCE COMPONENT TRAINING
Self-paced training for specific module and events.

Request a Demo

Access NHSN Demo

Quick Learn Videos

National Healthcare Safety Network (NHSN) Training

CDC > NHSN Home

Quick Learn Videos - 2016 Series

[f](#) [t](#) [+](#)

NHSN Definition and Rules Changes (January 2016)

Significant Changes to the NHSN Patient Safety Component for 2016

January 2016

000 / 7:53

[View Low Resolution Video](#)

CAUTI FAQs (April 2016)

Catheter-Associated Urinary Tract Infections

2016 NHSN Quick Learn Series

000 / 9:55

[View Low Resolution Video](#)

ICD-10 PCS and CPT Transition (January 2016)

NHSN ICD-10-PCS and CPT Transition

January 2016

000 / 8:12

[View Low Resolution Video](#)

Hemovigilance Denominator Form (January 2016)

NHSN National Healthcare Safety Network

National Healthcare Safety Network (NHSN) Biovigilance Component Hemovigilance Module

Quick Learn: Changes to the Denominator Form

January 2016

000 / 5:09

[View Low Resolution Video](#)

Get Email Updates

To receive email updates about this page, enter your email address:

What's this?

2016 Quick Learns: NHSN Definition and Rule Changes, CAUTI FAQs, ICD-10 PCS and CPT Transition, PSC Annual Survey, Reporting MRSA & CDI LabID Data for Acute Care IRFs, SSI Event form for PATOS, SSI Exclusion Criteria for SIR, TAP Reports in NHSN

2016 NHSN Live Training: Slidesets and Webstream Videos

National Healthcare Safety Network (NHSN) Training

Our mission is to offer learning opportunities in a variety of formats that enhance the knowledge and skills of NHSN facility- and group-level participants and their partners in order that they may effectively use the data obtained from the surveillance system to improve patient and healthcare personnel safety.

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Self-paced training for outpatient dialysis.

HEALTHCARE PERSONNEL COMPONENT TRAINING
Self-paced training for specific modules.

BIOVIGILANCE COMPONENT TRAINING
Self-paced training for specific modules.

LONG-TERM CARE FACILITY COMPONENT TRAINING
Self-paced training for long-term care enrollment and set-up.

Obtaining Continuing Education for NHSN Training Events

- Once you completed viewing the courses, go to CDC [Training and Continuing Education](#)
 - If you have not registered as a participant, click on **New Participant** to create a new account and login.
 - If you have registered in this system before, please use the same login name and password.
- Once you have logged in, you will be on the Participant Services page. Click on **Search** and enter the course number. You can only register and enter one course at a time.
- Click on the course title (at the bottom of the page). The course information page will appear. Select the course that you would like to receive and then **Submit**. Three demographic questions will appear.
- From **Participant Services**, click on **Evaluations and Tests**.
- Complete the course evaluation and **Submit**. Once you hit submit, it will give you the course is very brief.
- Upon achieving a passing posttest score (of 80% or higher), you will be able to immediately download your personal transcript. If you do not post a passing score, you may retake the test.
 - A record of your completion will be located in the transcript and certificate section.
- If you have any questions or problems contact CDC Training and Continuing Education.

Continuing Education Resources

- [NHSN Web streaming / Webinar Events](#)
- [Self-Paced Interactive Training](#)
- [Continuing Education](#)
- [Disclaimer and Disclosure](#)

e-LEARNING



▼ NHSN Web streaming / Webinar Events

Overview

- General NHSN Definitions: Rules, Tools, Re-tools [Video - 57 min]
 - [YouTube link - General NHSN Definitions: Rules, Tools, Re-tools](#)
 - [CDC Streaming Video - General NHSN Definitions: Rules, Tools, Re-tools](#)
 - [Slide set - General NHSN Definitions: Rules, Tools, Re-tools](#) [PDF - 3 MB]

Bloodstream Infection (BSI)

- CLABSI Definition and Case Studies [Video - 72 min]
 - [YouTube link - CLABSI Definition and Case Studies](#)
 - [CDC Streaming Video - CLABSI Definition and Case Studies](#)
 - [Slide set - CLABSI Definition and Case Studies](#) [PDF - 5 MB]
- Secondary BSI, Site-Specific Infection Definitions [Video - 61 min]
 - [YouTube link - Secondary BSI, Site-Specific Infection Definitions](#)
 - [CDC Streaming Video - Secondary BSI, Site-Specific Infection Definitions](#)
 - [Slide set - Secondary BSI, Site-Specific Infection Definitions](#) [PDF - 2 MB]

CAUTI

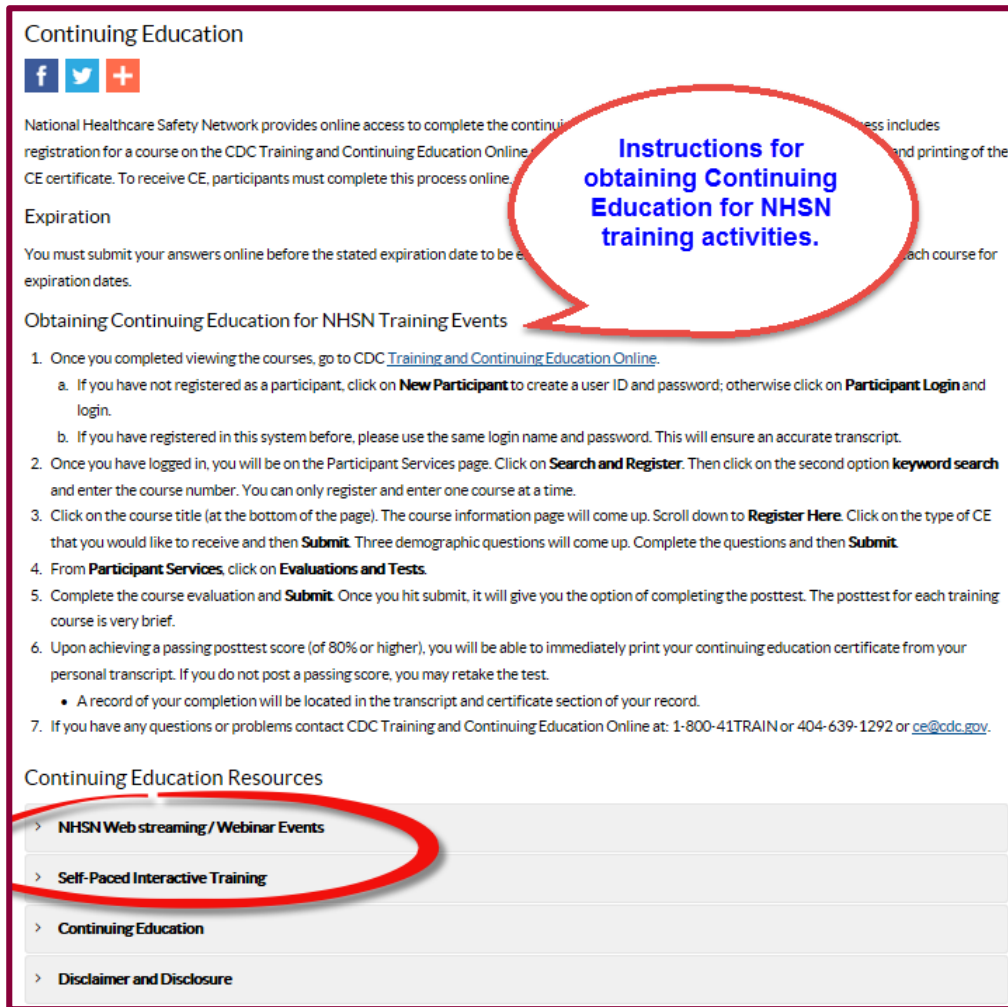
- CAUTI Definition and Case studies [Video - 67 min]
 - [YouTube link - CAUTI Definition and Case studies](#)
 - [CDC Streaming Video - CAUTI Definition and Case studies](#)
 - [Slide set - CAUTI Definition and Case studies](#) [PDF - 4 MB]

NHSN Continuing Education

❑ Continuing Education is available for Interactive CBTs and Archived Webstreaming Training

❑ CE available: CNE, CEU, CME, CPH

❑ <http://www.cdc.gov/nhsn/training/continuing-edu.html>



Continuing Education

[f](#) [t](#) [+](#)

National Healthcare Safety Network provides online access to complete the continuing education process. The process includes registration for a course on the CDC Training and Continuing Education Online system, completion of the course, and printing of the CE certificate. To receive CE, participants must complete this process online.

Expiration

You must submit your answers online before the stated expiration date to be eligible for CE credit. Each course for continuing education has a specific expiration date.

Obtaining Continuing Education for NHSN Training Events

1. Once you completed viewing the courses, go to [CDC Training and Continuing Education Online](#).
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 - b. If you have registered in this system before, please use the same login name and password. This will ensure an accurate transcript.
2. Once you have logged in, you will be on the Participant Services page. Click on **Search and Register**. Then click on the second option **keyword search** and enter the course number. You can only register and enter one course at a time.
3. Click on the course title (at the bottom of the page). The course information page will come up. Scroll down to **Register Here**. Click on the type of CE that you would like to receive and then **Submit**. Three demographic questions will come up. Complete the questions and then **Submit**.
4. From **Participant Services**, click on **Evaluations and Tests**.
5. Complete the course evaluation and **Submit**. Once you hit submit, it will give you the option of completing the posttest. The posttest for each training course is very brief.
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7. If you have any questions or problems contact CDC Training and Continuing Education Online at: 1-800-41TRAIN or 404-639-1292 or ce@cdc.gov.

Continuing Education Resources

- > **NHSN Web streaming / Webinar Events**
- > **Self-Paced Interactive Training**
- > **Continuing Education**
- > **Disclaimer and Disclosure**

Update of the NHSN Organisms Lists

Katherine Allen-Bridson

Question: When will the NHSN organism lists be updated?

- January 2017 updates to the following lists:
 - All Organisms
 - Common Commensals
 - MBI-LCBI Organisms
 - UTI Bacteria
- Proposed 2-year future update schedule

Organisms-Continued

- All Organisms List-
 - Addition of organisms from a university lab information system
 - Taxonomic updates according to SNOMED CT; inactivate old organisms
- MBI Organisms List- Work with small group of microbiologists and ID MDs
 - Addition of missing Enterobacteriaceae and viridans group streptococci
 - Add organism to the list, if moved to new genus; Entire Genus.
 - Considered input from users since MBI-LCBI inception- some additions made

Organisms-Continued

- Common Commensal List
 - Add organism to the list, if moved to new genus; Entire Genus.
 - Considered input from users -some additions made
- UTI Bacteria List
 - List expands from newly added bacteria

Would you support a requirement to collect hemodialysis catheter days to enable identify the proportion of CLABSIs that are HD related?

23%

A. Yes

61%

B. No

C. I'm not sure

Re-baseline Update

Dialysis Event Update

Maggie Dudeck

The Rebaseline: Overview

- Data reported to NHSN for 2015 will be used as the NEW baseline for future SIRs
 - CDC is using a complete year of data for the final risk adjustment
- Risk adjustment methods and risk models will vary from original baselines
 - All applicable factors will be assessed/re-assessed (incl. use of quarterly prevalence rates and quarterly CDI Test type for LabID)
- All new risk models will be implemented into the NHSN application in the form of new SIRs

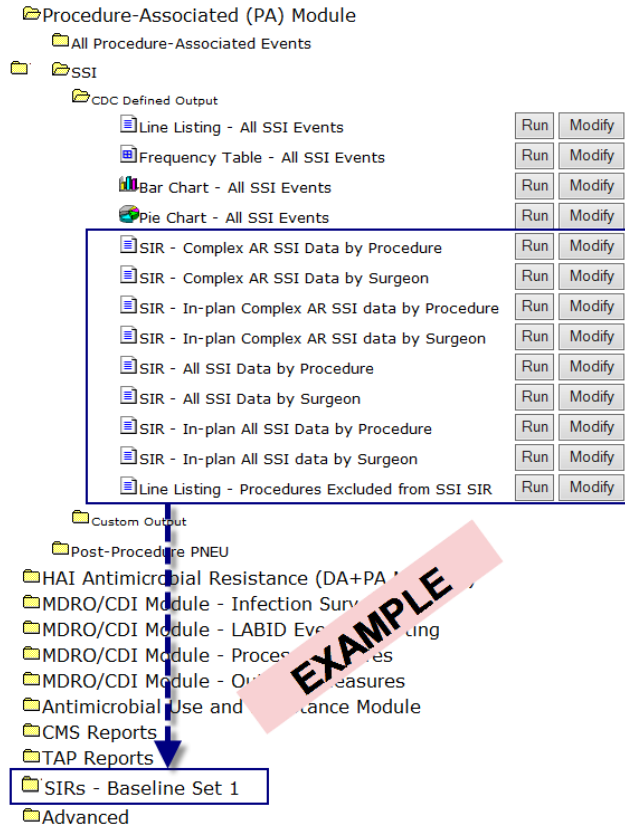
The Rebaseline: CDC's Timeline

- Now through August 15th: Develop and validate final models
 - All 2016Q1 HAI SIRs reported to NHSN as part of a CMS Quality Reporting Program will be calculated using the new risk models/2015 baseline
- August 15th – December 9th:
 - Develop new output options in NHSN application
 - EDUCATION!!! (via newsletters, quick reference guides, and potential Rebaseline webinars)
- December 10th : scheduled release date for NHSN v8.6

The Rebaseline: New Models

- Approximately 190 new models will be developed and implemented in NHSN
- All new models related to CMS quality reporting programs will be used for CMS submissions beginning with **2016Q1 data** (due Aug. 15th)
 - **What this means:** SIR calculations using the new risk models will be sent to CMS *prior* to being available within the NHSN application.

The Rebaseline: Implementation



- Original baselines are referred to as “Baseline Set 1”
- The “Baseline Set 1” output will be placed in a new output options folder, above “Advanced”
- Sub-folders will be organized by event type
- Sub-folders will be added for all CMS-related reports and TAP Reports that use “Baseline Set 1”

The Rebaseline: Implementation

- All new SIR output options will use analysis datasets that begin with “bs2_” (baseline set 2)
- New SIRs will be available in the corresponding Module/Event folders
 - Due to the modeling strategy, more SIR output options will be available.
 - Example: separate CAUTI SIRs for each setting (e.g., ACHs, CAHs)
- New SIRs will be limited to 2015 data and forward

“Where can I find more information about the Rebaseline?”

- Tomorrow: Session 3100 “Sneak Preview: New NHSN Methods for Analyzing HAI Data” – we’ll be discussing SAARs, ARMs, SIRs, and SURs!
- March 2016 presentation from Annual NHSN Training:
<http://www.cdc.gov/nhsn/training/continuing-edu.html>
- Rebaseline webpage...Coming Soon!
- NHSN Quarterly Newsletters (next one: June 2016)
- Additional educational resources will be provided later this year:
 - New, and updated, Quick Reference Guides
 - Quick Learn Videos

Dialysis Event Surveillance

- Currently, >6,000 dialysis facilities report to NHSN using the Dialysis Event Protocol:
 - For hemodialysis outpatients, **all positive blood cultures** from specimens collected as an outpatient (e.g., dialysis facility, E.D.) and **on the day of or day following hospitalization** are reportable:
 - **Surveillance challenges that IPs can help overcome:**
 - Notifying dialysis facilities that a positive blood culture occurred in their patient.
 - Communicating pathogen and susceptibility data to the dialysis facility.
- Resources for infection prevention in hemodialysis, including CDC-Recommended Core Interventions:
 - <http://www.cdc.gov/dialysis/prevention-tools/index.html>

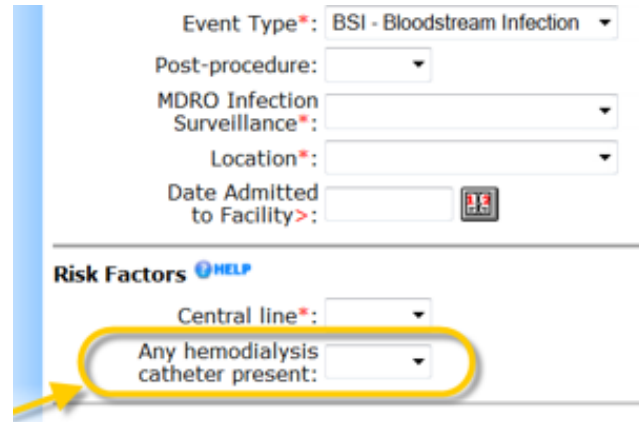
Assess Potential CLABSI Prevention Needs with the “Any Hemodialysis Catheter Present” Field in NHSN

- Prompted by IPs who saw high numbers of CLABSIs among their hemodialysis patients, NHSN added an optional field on the NHSN BSI form:
 - “Any hemodialysis catheter present: Yes/No”

- This field is designed to help IPs assess potential CLABSI prevention needs;

since both hospital staff and specialized dialysis staff care for hospitalized hemodialysis patients, a high proportion of CLABSIs among these patients may signal the need to increase or target CLABSI prevention efforts among dialysis staff.

- This field is most beneficial if used consistently.
- CDC wants to know! Have you used this field and found it beneficial? Please email the NHSN Helpdesk (nhsn@cdc.gov) and let us know.



The image shows a screenshot of the NHSN BSI form. The form includes several dropdown menus and text input fields. The 'Event Type*' field is set to 'BSI - Bloodstream Infection'. Below it are fields for 'Post-procedure:', 'MDRO Infection Surveillance*', 'Location*', and 'Date Admitted to Facility:>'. A horizontal line separates the top section from the 'Risk Factors' section, which includes a 'HELP' icon. In the 'Risk Factors' section, the 'Central line*' field is a dropdown menu. Below it, the 'Any hemodialysis catheter present:' field is a dropdown menu, which is highlighted with a yellow oval. A yellow arrow points to the left side of the form, near the 'Any hemodialysis catheter present:' field.

Long-Term Care Update

Angela Anttila

Spotlight on Infection Prevention and Control (IPC) in Long-term Care Facilities (LTCFs)

- **July 2015:** CMS proposed new Federal Regulations for LTCFs
 - Designated infection prevention and control (IPC) officer
 - Annual facility risk assessment and review/update IPC program and policies
 - IPC specific education and training for all staff
- **September 2015:** CDC released the Core Elements of Antibiotic Stewardship for Nursing Homes
 - <http://www.cdc.gov/longtermcare/pdfs/core-elements-antibiotic-stewardship.pdf>
- **NEW** New stewardship questions added for 2016 LTCF annual survey
- **October 2015:** CMS announced the *C. difficile* Infection Reporting and Reduction project within the nursing home 11th Scope of work for Quality Innovation Networks – Quality Improvement Organizations (QIN-QIO)

CMS 11th Scope of Work

C. difficile Reporting and Reduction Project

- Official contract start date- Monday, May 23, 2016
- Recruitment and enrollment through October 2016
- Project goal is to recruit 15% of nursing homes in the U.S. (~2300 NHs) to enroll into NHSN and sustain *C. difficile* infection (CDI) reporting using NHSN CDI LabID Event module
- Collaborative participants will receive training in long-term care communication (TeamSTEPPS) and antibiotic stewardship
- CDC will monitor changes in CDI rates among NHSN reporters before and after educational interventions
- Opportunity to establish a national baseline for CDI in nursing homes

Expanded Training Resources for LTCFs



- Series of 6 Webinar trainings available on the following url:
<http://qioprogram.org/national-healthcare-safety-network-nhsn-trainings>
 1. Secure Access Management Services (SAMS)
 2. NHSN enrollment
 3. Setting up a facility in the NHSN
 4. Reporting *C. difficile* LabID events
 5. Analyzing *C. difficile* LabID events
 6. Creating and managing group access for data sharing.
- Additional enrollment training resources and guidance documents available on NHSN training and enrollment websites:
 - <http://www.cdc.gov/nhsn/training/enrollment-setup/index.html>
 - <http://www.cdc.gov/nhsn/training/ltc/index.html>

Clinical Document Architecture (CDA) Update

Amy Webb

Overview of CDA

- Stands for Clinical Document Architecture
- Standard format developed by HL7 (Health Level 7)
- Used for electronic reporting of data into NHSN
- XML programming language

```
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  <patientRole>
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    <id root="2.16.840.1.113883.3.117.1.1.5.1.1.1" extension="2ND ID"/>
    <id root="2.16.840.1.113883.4.1" extension="546465465"/>
    <id root="2.16.840.1.113883.4.338" extension="465465465T"/>
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      <name>
        <family>last</family>
        <given>first</given>
        <given>mid</given>
      </name>
      <administrativeGenderCode codeSystem="2.16.840.1.113883.5.1" code="F"/>
      <birthTime value="19951209"/>
    </patient>
  </patientRole>
</recordTarget>
```

Using CDA

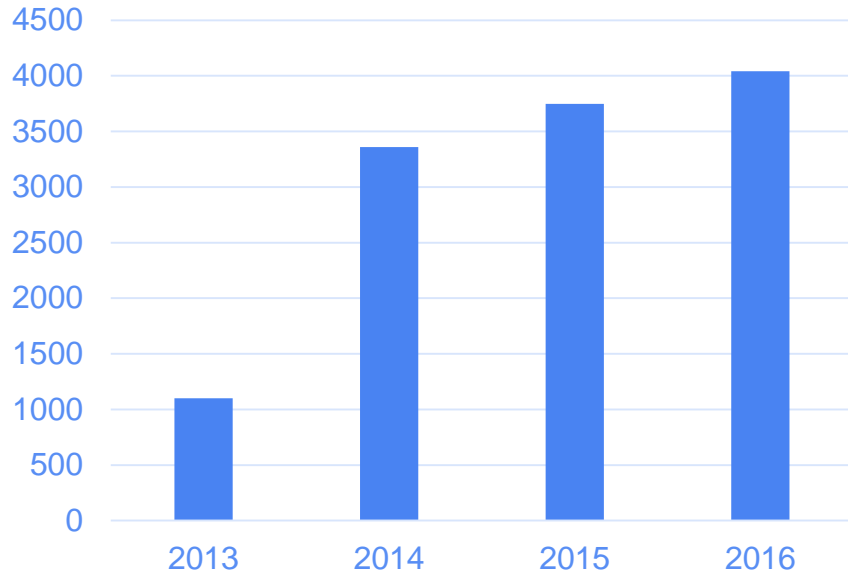
- Many infection control/EHR software systems can create CDAs for NHSN import
 - NHSN does not rank, evaluate, or endorse any software vendor!
 - APIC maintained list of [HAI CDA Vendors](#)
 - SIDP maintained list of [AU CDA Vendors](#)
- Can also use “Homegrown” solutions to develop CDAs

NHSN Data Currently Accepted via CDA

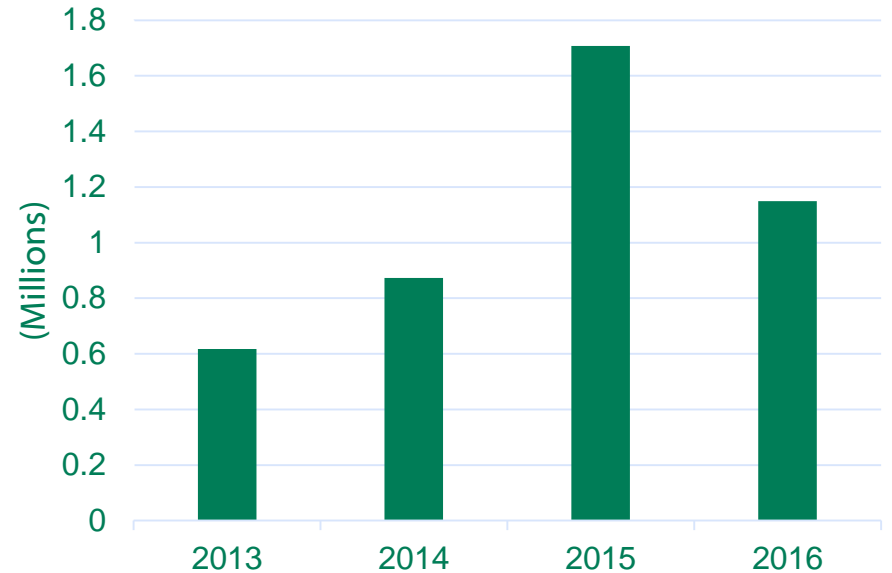
- DA Module
 - CLABSI
 - CAUTI
 - CLIP
 - ICU/Other Denom
 - SCA/ONC Denom
 - NICU Denom
- PA Module
 - SSI
 - Procedures
- MDRO Module
 - LabID
 - MDRO Denom
- AUR Module
 - AU
 - AR Event
 - AR Denom
- Dialysis
 - Dialysis Event
 - Dialysis Denom

CDA Reporting Status

Facilities Submitting via CDA



Records Imported via CDA



As of May 27, 2016

DIRECT CDA Automation

- “Automated” sending of CDA files from vendor/homegrown solution to NHSN
 - Facility must already be able to send CDAs to NHSN
 - Data sent securely using Health Information Services Provider (HISP)
 - Advantages:
 - Not required to log into each facility
 - Send data for multiple facilities at once
 - Notification of submission success/failure sent via email
- Over 2,500 facilities from 14 vendors using DIRECT
- Learn more here: [DIRECT information](#)

NEW! CDA Submission Support Portal

- [Direct link](#)
- Vendors & facilities
- New & experienced

NHSN CDA Submission Support Portal (CSSP)

CDC > NHSN

Clinical Document Architecture (CDA) is a Health Level 7 (HL7) standard that provides a framework for the encoding, formatting and semantics of electronic documents. CDC's National Healthcare Safety Network (NHSN) supports CDA import of certain healthcare-associated infection (HAI) data. To assist programmers in creating standards for reporting via CDA import, NHSN offers an Implementation Guide and associated materials based fully on HL7-balloted CDA document specifications. Types of data that can be reported include event reports, denominator data, and process-of-care measures.



ABOUT CDA
What is Clinical Document Architecture?



GETTING STARTED
How to implement CDA for HAI reporting.



FAQS
Common questions asked by CDA implementers.



IMPLEMENTATION TOOLKITS & RESOURCES
NHSN HAI Implementation Guides, IDMs and toolkits.



DATA VALIDATION & TESTING
Tools to validate and test your CDA data as per NHSN specifications.



WEBINARS & TRAINING VIDEOS
Webinars on NHSN releases and CDA training.



IMPORTING DATA
How to import your data into NHSN using CDA, CSV or Direct.



INNOVATION TOOLS
Data sets and algorithmic web services.



MEANINGFUL USE
Overview of Meaningful Use Stage 3 for NHSN reporting.

Quick Links

- [CDA Toolkit Release 8.5](#)
- [Guide to CDA Versions](#)
- [DIRECT Protocol](#)
- [CMS Requirements](#)
- [VAE Synthetic Data Set](#)

Top FAQs

- [What import/export type to select for a CDA or CSV file import?](#)
- [I don't see the option available to import my CDA files on the Import/Export screen in NHSN.](#)
- [Could not find NHSN organization by OID in the CDA error report.](#)
- [CDA is not accepted for event dates greater than or less than a specific year.](#)
- [What are the requirements for CDA files?](#)
- [I am not able to import CDAs or see any error reports in Internet Explorer.](#)



NHSN & Meaningful Use Stage 3

- NHSN AUR Module option for public health registry reporting in MU 3
- Monthly data for both AU and AR Option required
- AUR data can be submitted via CDA only
- Timeline
 - Summer 2016: NHSN declaration of readiness
 - January 2017: MU 3 Option Year 1
 - January 2017: NHSN facilities can register intent & begin submitting data
 - January 2018: Submission required for MU 3 participants
- **Important note:** AUR Module is only part of NHSN that qualifies for MU 3
- More info on NHSN AUR Module: Monday, June 13: 1:30 - 2:30pm
 - 3402: NHSN Antimicrobial Use & Resistance Module



For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

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