



# NHSN Monthly Training: A Reintroduction to NHSN

January 27, 2011






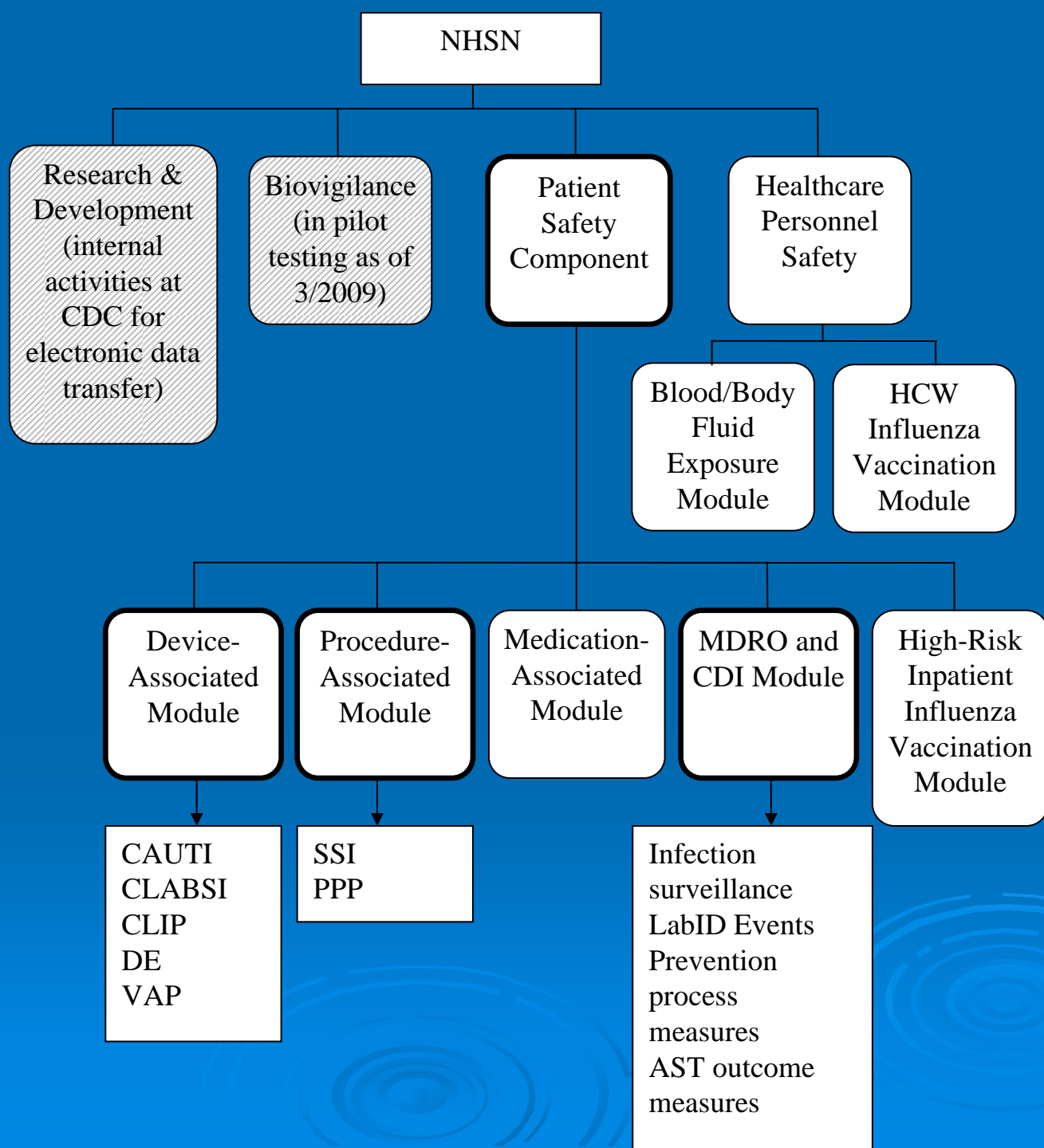
# Agenda

- Completing the enrollment process
- NHSN Agreement to Participate and Consent
- Initial set-up
- Monthly workflow
- FDOH User Group
- Resources
- Public reporting of infections



# Why NHSN?

- NHSN is a web-based system that maintains data security, integrity, and confidentiality
  - Collection of data permits valid estimate of the magnitude of adverse events among patients and healthcare personnel
  - Analyzing and reporting collected data allows for recognition of trends
  - Risk-adjusted data can be used for interfacility comparisons and local quality improvement activities
- 





# Completing the Enrollment Process

- Review and accept NHSN Rules of Behavior
- Register your facility in the NHSN
- Obtain & install your Digital Certificate
- Complete enrollment forms
- Send signed consent form to CDC
- Begin using the NHSN Reporting application



# NHSN Agreement to Participate and Consent

- A user agreement and data consent form required to use NHSN that details the purposes of NHSN and data access and protection provisions
- Because of new partnership between NHSN and CMS, this form was revised in fall 2010
  - NHSN users that enrolled after fall 2010 signed and submitted the new form
  - NHSN users that enrolled and submitted the old form should have gotten an alert in December telling them to print, sign, and submit the new form – due February 28, 2011; failure to submit will result in facility being withdrawn from NHSN

# If you need to submit the revised form:

**CDC** Department of Health and Human Services  
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

Logged into State Users of NHSN Memorial (ID 15634) as KATIEFL.  
Facility State Users of NHSN Memorial (ID 15634) is following the PS component.

## Edit Facility Information

[Facility Information](#) [Components](#) [Contact Information](#)

Mandatory fields marked with \*

**1** Facility

- Customize Forms
- 2** Facility Info
- Add/Edit Component
- Locations
- Surgeons

**3** Print revised Agreement to Participate and Consent form

Facility ID :       AHA ID:

CMS HCFA ID (not NPI):

VA Station Code:

Object Identifier:

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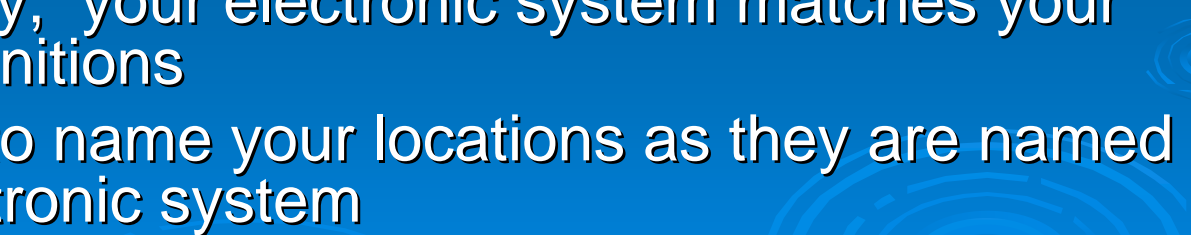
Facility name \*:

Address, line 1 \*:

Address, line 2:



# Initial Set-Up

- Adding additional users
    - It is suggested you have a back-up!
  - Complete your facility survey
    - Based on previous year
    - If you enrolled in 2010, you need to submit a new facility survey now that it is 2011
  - Define your hospital locations
    - Make sure if you are getting patient-days electronically, your electronic system matches your location definitions
    - It is helpful to name your locations as they are named in your electronic system
- 

# Defining Locations



Department of Health and Human Services  
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

NHSN

NHSN Home

Reporting Plan

Patient

Event

Procedure

Summary Data

Import/Export

Analysis

Surveys

Users

Facility

▢ Customize Forms

▢ Facility Info

▢ Add/Edit Component

▢ Locations

▢ Surgeons

Group

Log Out

Logged into State Users of NHSN Memorial (ID 15634) as KATIEFL.  
Facility State Users of NHSN Memorial (ID 15634) is following the PS component.

## Locations

### HELP Instructions

- To **Add** a record, fill in the form with the required fields and any desired optional values. Then click on the **Add** button.
- To **Find** a record, click on the **Find** button. One or more fields can be filled in to restrict the search to those records.
- To **Edit** a record, perform a **Find** on the desired record. Click on the desired record to fill in its values into the form. After making the changes, click on the **Save** button.
- To **Delete** one or more records, perform a **Find** on the desired record(s). Check the corresponding box(es) next to the record(s). Then click on the **Delete** button.
- Press the **Clear** button to start over with a new form.

Mandatory fields to "Add" or "Edit" a record marked with \*

Your Code\*:

Your Label\*:

CDC Location Description\*:

Status\*: Active

Bed Size:

A bed size greater than zero is required for most inpatient locations.

Find

Add

Clear

1

2

3

4

# Quick Tip: Embedded Help Link



Department of Health and Human Services  
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

[NHSN Home](#) | [My Info](#) | [Con](#)

[NHSN Home](#)

- [Reporting Plan](#)
- [Patient](#)
- [Event](#)
- [Procedure](#)
- [Summary Data](#)
- [Import/Export](#)
- [Analysis](#)
- [Surveys](#)
  - [Add](#)
  - [Find](#)
- [Users](#)
- [Facility](#)
- [Group](#)
- [Log Out](#)

Logged into State Users of NHSN Memorial (ID 15634) as KATIEFL.  
Facility State Users of NHSN Memorial (ID 15634) is following the PS component.

## Add Annual Survey

[HELP](#)

Mandatory fields marked with \*

Facility ID: \*

Survey Type: \*

Survey Year: \*

### Facility Characteristics:

Facility ownership: \*

### Hospital Facility:

Number of Patient Days: \*

Number of Admissions: \*

Is your facility affiliated with a medical school? \*

If Yes, check type of affiliation:  MAJOR  GRADUATE  LIMITED

Number of beds set up and staffed:

a. ICU beds (including adult, pediatric, and neonatal levels II/III and III): \*

[Print Patient Safe](#)



Questions?






# Monthly Workflow

Each month you need to:

- Submit a Monthly Reporting Plan
  - Report Events
  - Report Summary Data
  - Generate New Datasets
  - Run Analysis Reports (as you wish)
- 

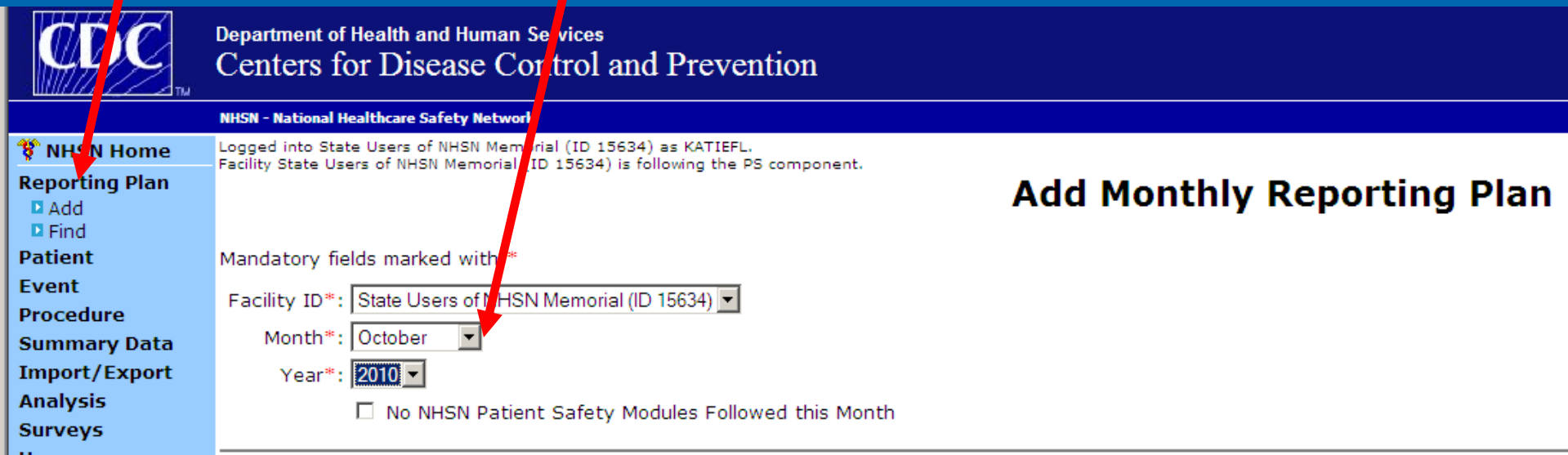


# Monthly Reporting Plan

- Monthly Reporting Plans must be submitted for every month where you are conducting surveillance
  - Monthly Reporting Plan is the only way to tell NHSN what data to be looking for
  - Be careful when submitting your Monthly Reporting Plan – you don't want to say you'll be doing surveillance that you are not planning on doing!
- 

# Monthly Reporting Plan

- Submitting the Monthly Reporting Plan
  - From the left-hand navigation bar, choose *Reporting Plan > Add*
    - If you need to update an existing plan, choose *Find*
  - Enter the month and year
    - The screen will refresh while it checks to make sure there is not already a plan for that month/year



The screenshot shows the NHSN (National Healthcare Safety Network) web interface. At the top left is the CDC logo. The header text reads "Department of Health and Human Services" and "Centers for Disease Control and Prevention". Below this is the NHSN logo and the text "NHSN - National Healthcare Safety Network". A navigation bar on the left contains links for "NHSN Home", "Reporting Plan" (with sub-links for "Add" and "Find"), "Patient", "Event", "Procedure", "Summary Data", "Import/Export", "Analysis", and "Surveys". The main content area shows a login status: "Logged into State Users of NHSN Memorial (ID 15634) as KATIEFL. Facility State Users of NHSN Memorial (ID 15634) is following the PS component." Below this, there is a section for "Mandatory fields marked with \*". The "Facility ID\*" field is a dropdown menu showing "State Users of NHSN Memorial (ID 15634)". The "Month\*" field is a dropdown menu showing "October". The "Year\*" field is a dropdown menu showing "2010". At the bottom of this section is a checkbox labeled "No NHSN Patient Safety Modules Followed this Month". On the right side of the screenshot, the text "Add Monthly Reporting Plan" is displayed in a large, bold font. Two red arrows point from the text in the first list item to the "Add" link in the navigation bar and the "Month\*" dropdown menu.

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Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

Logged into State Users of NHSN Memorial (ID 15634) as KATIEFL.  
Facility State Users of NHSN Memorial (ID 15634) is following the PS component.

Mandatory fields marked with \*

Facility ID\*: State Users of NHSN Memorial (ID 15634)

Month\*: October

Year\*: 2010

No NHSN Patient Safety Modules Followed this Month

**Add Monthly Reporting Plan**

# Add Monthly Reporting Plan

Mandatory fields marked with \*

Facility ID\*:

Month\*:

Year\*:

No NHSN Patient Safety Modules Followed this Month

## Device-Associated Module [HELP](#)

Locations

CLA BSI DE VAP CAUTI CLIP

Add Row

Clear All Rows

Copy from Previous Month

## Procedure-Associated Module [HELP](#)

Procedures

SSI

Post-procedure  
PNEU

Add Row

Clear All Rows

Copy from Previous Month

## Multi-Drug Resistant Organism Module [HELP](#)

Locations

Specific Organism Type

Process and Outcome Measures

Infection  
Surveillance

AST-Timing

AST-Eligible

Incidence Prevalence

Lab ID Event  
All Specimens

Lab ID Event  
Blood Specimens Only

HH GG

Add Rows

Clear All Rows

Copy from Previous Month

## Vaccination Module [HELP](#)

Summary Method:

Patient-level Method:

Copy from Previous Month

Save

Back



- [NHSN Home](#)
- Reporting Plan**
  - [Add](#)
  - [Find](#)
- Patient**
  - [Add](#)
  - [Find](#)
- Event**
  - [Add](#)
  - [Find](#)
  - [Incomplete](#)
- Procedure**
  - [Add](#)
  - [Find](#)
  - [Incomplete](#)
- Summary Data**
  - [Add](#)
  - [Find](#)
  - [Incomplete](#)
- Import/Export**
- Analysis**
  - [Generate Data Sets](#)
  - [Output Options](#)
  - [Statistics Calculator](#)
- Surveys**
  - [Add](#)
  - [Find](#)
- Users**
  - [Add](#)
  - [Find](#)
- Facility**
  - [Customize Forms](#)
  - [Facility Info](#)
  - [Add/Edit Component](#)
  - [Locations](#)

Logged into State Users of NHSN Memorial (ID 15634) as KATIEFL.  
Facility State Users of NHSN Memorial (ID 15634) is following the PS component.

Plan saved successfully.

## View Monthly Reporting Plan

Mandatory fields marked with \*

Facility ID\*: State Users of NHSN Memorial (15634)  
Month\*: April  
Year\*: 2010

### Device-Associated Module [?HELP](#)

Locations	CLA	BSI	DE	VAP	CAUTI	CLIP
1 MICU - 1ST FLOOR, NORTH WING, MEDICAL ICU	X				X	
22ICU - PEDIATRIC ICU	X					
MSICU - MY MEDICAL SURGICAL ICU					X	

### Procedure-Associated Module [?HELP](#)

Procedures SSI Post-procedure PNEU

### Multi-Drug Resistant Organism Module [?HELP](#)

Locations	Specific Organism Type							
MSICU - MY MEDICAL SURGICAL ICU	CDIF - C. difficile							
Process and Outcome Measures								
Infection Surveillance	AST-Timing	AST-Eligible	Incidence	Prevalence	Lab ID Event All Specimens	Lab ID Event Blood Specimens Only	HH	GG
					X			

# Report Events

- 2 keys to successful reporting of events:
  1. Reliable, consistent surveillance methods to identify infections → we will discuss this later
  2. Faithful application of the NHSN case definitions → keep the NHSN manuals handy and don't be afraid to ask questions!

[http://www.cdc.gov/nhsn/TOC\\_PSCManual.html](http://www.cdc.gov/nhsn/TOC_PSCManual.html)



*Device-associated Module  
CLABSI*

## Central Line-Associated Bloodstream Infection (CLABSI) Event

**Introduction:** An estimated 248,000 bloodstream infections occur in U.S. hospitals each year<sup>1</sup>. It is believed that a large proportion of these are associated with the presence of a central vascular catheter, though this is an area where more study is needed. For the



## Add Event

[Print PDF Form](#)

Mandatory fields marked with \*

Fields required for record completion marked with \*\*

Fields required when in Plan marked with >

### Patient Information [HELP](#)

Facility: [State Users of NHSN Memorial \(ID 15634\)](#)

Event #: 4173420

Patient ID\*:

Social Security #:

Secondary ID:

Last Name:

First Name:

Middle Name:

Gender\*:

Date of Birth\*:

Ethnicity:

- Race:
- American Indian/Alaska Native
  - Black or African American
  - White
  - Asian
  - Native Hawaiian/Other Pacific Islander

### Event Information [HELP](#)

Event Type\*:  Date of Event\*:

Post-procedure:

Location\*:

Date Admitted to Facility>:

### Risk Factors

### Event Details

### Pathogens

### Custom Fields

# Report Summary Data

- Summary data MUST be submitted every month even if you have 0 infections
- Submitting Summary Data
  - From the left-hand navigation bar, choose *Summary Data > Add*
  - Select the appropriate type from the Summary Data Type dropdown and click *Continue*



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Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

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NHSN Home  
Reporting Plan  
Patient  
Event  
Procedure  
Summary Data  
  Add  
  Find  
  Incomplete  
Import/Export  
Analysis  
Surveys

## Add Patient Safety Summary Data

Summary Data Type:

- Device Associated - Intensive Care Unit / Other Locations
- Device Associated - Neonatal Intensive Care Unit
- Device Associated - Specialty Care Area
- Device Associated - Outpatient Dialysis - Census Form
- MDRO and CDAD Prevention Process and Outcome Measures Monthly Monitoring
- Vaccination Monthly Summary Method
- Denominators for Patient-Level Vaccination Method

# Report Summary Data

- Enter the Location Code, Month & Year
  - The screen will refresh as it checks your Monthly Reporting Plan
  - Once refreshed, required fields will be marked with a red asterisk
- Enter your Summary Data for that unit only
  - Make sure that your source for summary data matches your locations as they are defined in NHSN

Mandatory fields marked with \*

Facility ID\*: 15634 (State Users of NHSN Memorial)

Location Code\*: 1 MICU - 1ST FLOOR, NORTH WING, MEDICAL ICU

Month\*: December

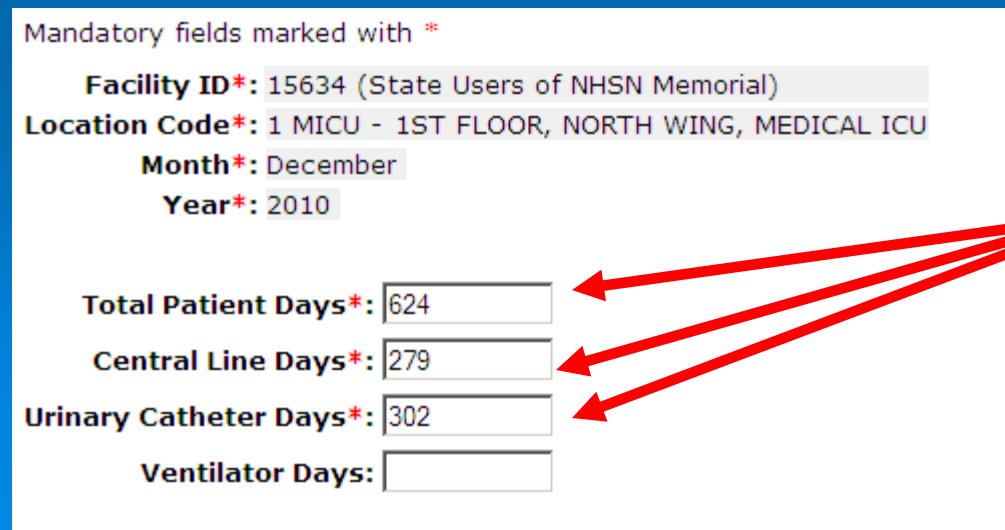
Year\*: 2010

Total Patient Days\*:

Central Line Days\*:

Urinary Catheter Days\*:

Ventilator Days:






Questions?





# User Groups

- User Groups can be formed to compile data across a group of participants
  - When a facility joins a User Group, they select certain parts of their data to share with the Group
    - Limit based on plan status, location, date range, procedures/setting, event type, etc.
    - The group can then analyze data from its member facilities
    - Facilities in the User Group cannot see one another's data!
- 




# FDOH User Group

- In order to ensure published CMS data is as accurate and consistent as possible, CDC is asking state public health departments to do data quality checks.
- In order for FDOH to do these data quality checks, we need your cooperation – please consider enrolling your facility in the FDOH User Group.
- Other benefits to joining the FDOH User Group:
  - Contribute to capacity for monitoring HAI in Florida (any data published will be published anonymously)
  - Get additional assistance with data quality checking and personalized assistance with NHSN



# FDOH User Group

- If you are interested in joining the FDOH User Group:
    - Sign an FDOH data use agreement (for your protection)
    - Join the FDOH User Group
    - Confer Rights
  - Contact me after this presentation for more information!
- 

# Resources

➤ [www.cdc.gov/nhsn](http://www.cdc.gov/nhsn)

- **Forms** – for collecting data on paper before entering it into the database
- **Manuals** – including details about case definitions, surveillance methods, etc.
- **Trainings** – self-study slide sets and corresponding materials for more information about modules in NHSN
- **Newsletters** – highlight new features of NHSN, Q&A about applying the case definitions, etc.
- **Get email updates** – stay in the loop without having to check the site regularly

# National Healthcare Safety Network (NHSN)

The National Healthcare Safety Network (NHSN) is a voluntary, secure, internet-based surveillance system that integrates and expands legacy patient and healthcare personnel safety surveillance systems managed by the Division of Healthcare Quality Promotion (DHQP) at CDC. NHSN also includes a new component for hospitals to monitor adverse reactions and incidents associated with receipt of blood and blood products. Enrollment is open to all types of healthcare facilities in the United States, including acute care hospitals, long term acute care hospitals, psychiatric hospitals, rehabilitation hospitals, outpatient dialysis centers, ambulatory surgery centers, and long term care facilities. For more information, click on the topics below.

Replay

Join NHSN

HAI: Recovery Act

Biovigilance

**Hemovigilance Component**

NHSN Biovigilance Component

GO

Text size: [S](#) [M](#) [L](#) [XL](#)

Email page

Print page

Bookmark and share



## Topics

<b>About NHSN</b> Overview, Purposes, Confidentiality statement, How data are used, External Peer Review report..	<b>Enrollment Requirements</b> Eligibility, Required Training, Reporting & System Requirements, Security, Begin Enrollment...
<b>Forms</b> Component-specific manuals containing data collection protocols, instructions for completing forms...	<b>Training</b> Self-study slide sets and corresponding materials for NHSN modules...
<b>NHSN Manuals</b> Component-specific manuals containing data collection protocols, instructions for completing forms...	<b>Patient Safety Component</b> Overview of the Modules: Device-associated, Procedure-associated, MDRO/CDAD, Vaccination...
<b>Resource Library</b> Guides, Manuals, NHSN Codes & Variables, FAQs, HIPAA...	<b>Biovigilance Component</b> Hemovigilance Module Overview, Protocol and Tables of Instructions...
	<b>Healthcare Personnel Safety Component</b> Overview of the Exposure, Management, and Vaccination Modules, Benefits of participation...

## Vaccination Module Update

The **HRIIV Module** is being replaced with the **Updated Vaccination Module**. Please check back in a few weeks.

## Data & Statistics



CDC currently supports more than 3000 hospitals that are using NHSN and 22 states require hospitals to report HAI's using NHSN.

[More Data & Statistics >>](#)

Get email updates

To receive email updates about NHSN, enter your email address:

[What's this?](#)

## Contact NHSN:

Centers for Disease Control and Prevention  
National Healthcare Safety Network  
MS-A24  
1600 Clifton Rd  
Atlanta, GA 30333

[nhsn@cdc.gov](mailto:nhsn@cdc.gov)

[More contact info >>](#)

## Communication Updates

- [E-mail updates](#)
- [Members meetings](#)
- [Newsletters](#)



**NHSN Report 2009** [PDF - 5.5MB]  
Data summary for 2006 through 2008.

## Clinical Document Architecture



Clinical Document Architecture (CDA) is a Health Level 7 (HL7) standard which

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[Florida Annual Morbidity Statistics Report](#)

[Florida Cancer Data Report](#)

**Training and Quality Improvement**

[Florida Epidemic Intelligence Service \(FL-EIS\)](#)

[Quality Improvement](#)

[Training Section](#)

**Quick Links**

[Acute Disease FAQs](#)

[Communicable Disease Frequency Reports](#)

[Florida CHARTS](#)

**National Healthcare Safety Network (NHSN) Resources**

**Getting Started in NHSN**

[NHSN Facility Enrollment Steps](#)

[NHSN New User Enrollment Steps](#)

[Getting Started in NHSN PowerPoint Presentation](#)

[Monthly Reporting Plan](#)

**NHSN User Guide** *(revised 07.07.10)*

PDF - [National Healthcare Safety Network \(NHSN\) User Guide](#)

Word Document - [National Healthcare Safety Network \(NHSN\) User Guide](#)

**Joining User Groups and Conferring Rights**

[How to Join a User Group](#)

CDC Video [Conferring Rights to Groups](#)

CDC [Conferring Rights Instructions](#)

FDOH [Conferring Rights Webinar](#) (December 7, 2010)

FDOH [NHSN User Group Data Use Agreement](#)

**NHSN Surveillance and Case Definitions**

[CAUTI Case Definition Webinar](#) *(slides only)*

CDC's Video [Data Entry, Import and Customization](#) *(CAUTI data entry begins at 48:00)*

View CDC's [C. difficile Infection Surveillance](#) and [C. difficile LabID Event Reporting video](#) (33:52) or the [slideset](#)

**Test your Knowledge**

The first of a series of case studies was published in the June 2010 issue of American Journal of Infection Control. The cases reflect some of the complex patient scenarios that IPs have encountered in their daily surveillance of HAIs. With each case, a link to an online quiz is provided where you can answer the questions and receive immediate feedback in the form of answers and explanations. All cases, answers, and explanations have been reviewed and approved by NHSN. You can find the first case study and quiz at <http://www.surveymonkey.com/s/AJIC-NHSN-Case1>.

[Getting it Right! Learning How to Use the NHSN Surveillance Definitions](#) *(presentation by*

# Resources

- [www.doh.state.fl.us/Disease\\_ctrl/epi/HAI/NHSN.html](http://www.doh.state.fl.us/Disease_ctrl/epi/HAI/NHSN.html)
- Easily digestible tools and trainings
- Links to case studies in applying NHSN case definitions
- Resource guide for importing data into NHSN



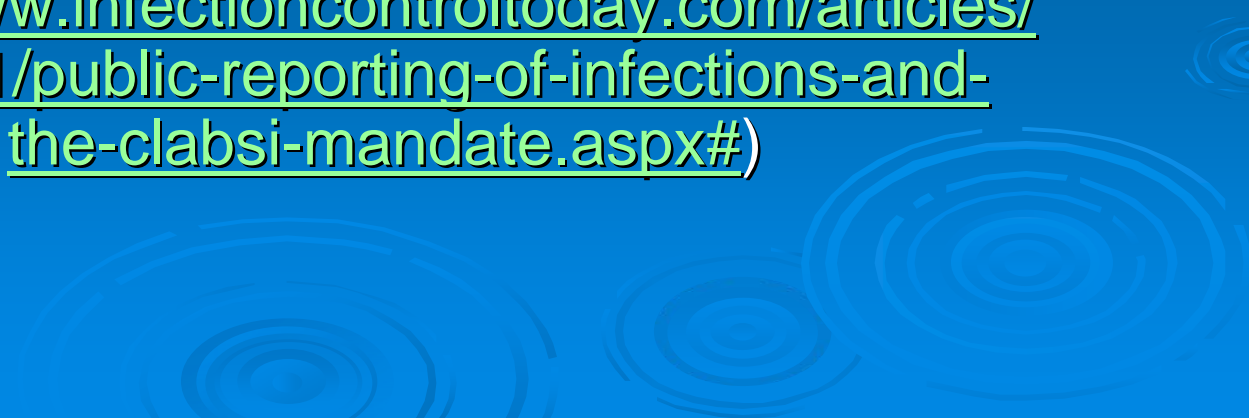
Questions?





# Public Reporting of Infections and the CLABSI Mandate

Adapted from a summary by Kelly Pyrek in  
Infection Control Today  
([http://www.infectioncontrolday.com/articles/  
2011/01/public-reporting-of-infections-and-  
the-clabsi-mandate.aspx#](http://www.infectioncontrolday.com/articles/2011/01/public-reporting-of-infections-and-the-clabsi-mandate.aspx#))





# New CMS Requirement

- Beginning January 1, 2011, facilities electing to participate in the Centers for Medicaid and Medicare (CMS) Hospital Inpatient Quality Reporting Program are required to submit central-line associated bloodstream infection (CLABSI) data from adult, pediatric, and neonatal intensive care units into the National Healthcare Safety Network (NHSN)
- Those that do not meet this requirement will be subject to a 2% reduction in their Medicare inpatient annual payment update for FY 2013



# Progress Towards Compliance

- As of August 2010, on a teleconference by Premier on the new CMS requirements 60% of nearly 1,000 participants said they were already enrolled in NHSN and 41% were already submitting CLABSI data
- Participants said the greatest challenges for CLABSI reporting were:
  - Experience and proficiency in using NHSN (44%)
  - Enrolling in NHSN by January 2011 (41%)
  - Collecting denominator data (16%)




# Implications of Public Reporting

- CMS reporting has the potential to create greater transparency of healthcare-acquired infection data and to build accountability within the healthcare system
- Highlights the importance of infection prevention programs and professionals
- Healthcare reform legislation imposes payment penalties for certain HAI as part of value-based purchasing – NHSN data could be incorporated into reform policies in the future

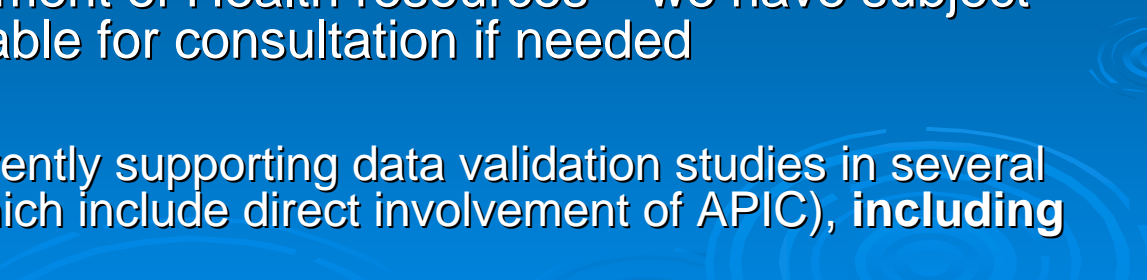
# Data Quality Concerns

- A recent study in JAMA found strong evidence of institutional variation in CLABSI surveillance among different medical centers
- Inconsistent surveillance can have significant effects on the relative rankings of hospitals and can threaten the validity of the metric<sup>1</sup>
- Challenges exist in determining whether infections can be attributed to another source, ruling out contaminants from true infections, etc.
- Need to prevent facilities gaming the system or being punitive to facilities exercising diligence in surveillance and reporting

<sup>1</sup> Lin et. al. Quality of Traditional Surveillance for Public Reporting of Nosocomial Bloodstream Infection Rates. *JAMA*, 2010; 304(18):2035-2041.

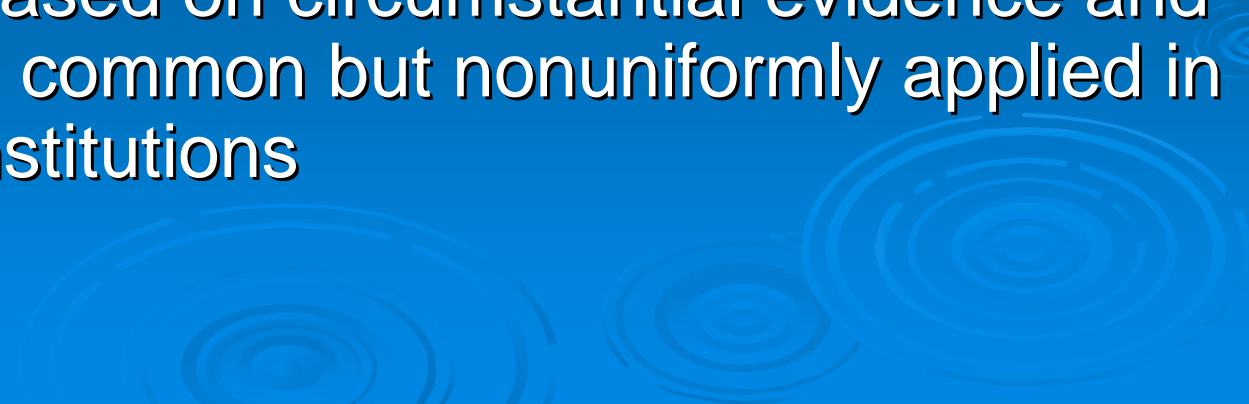


# Addressing Quality Concerns

- APIC offers trainings, including:
    - Education for the Prevention of Infection (EPI) courses
    - Annual Conference
    - APIC Anywhere
    - Wednesday Webinars
  - Program Capacity
    - APIC Program Evaluation Tool – to assist members with identification of adequate infrastructure to assure a properly resourced infection prevention program
    - Suggest annual facility-based risk assessment to identify areas of priority so that attention and resources can be focused
  - Florida State Department of Health resources – we have subject matter experts available for consultation if needed
  - Data quality audits
    - ARRA funding currently supporting data validation studies in several states (some of which include direct involvement of APIC), **including Florida (CAUTI)**
- 

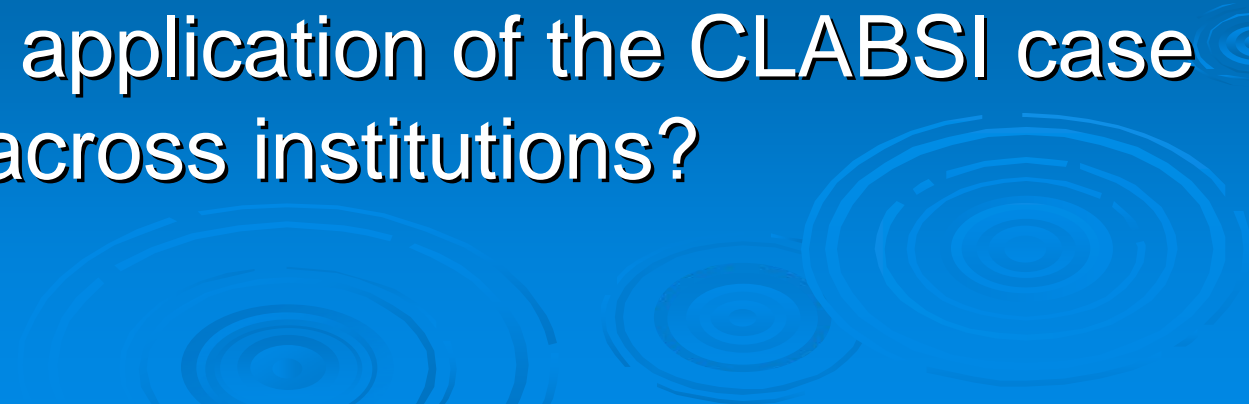


# Applying the CLABSI Definitions

- Partnership between AJIC and APIC to publish case studies to improve application of NHSN criteria
  - Examples of difficult cases?
    - Absence of proof versus proof of absence
    - Differentiating a CLABSI from a secondary BSI
    - Common skin contaminant versus pathogen
  - Decisions based on circumstantial evidence and intuition are common but nonuniformly applied in individual institutions
- 



# Discussion

- What are the greatest challenges to CLABSI reporting that you face?
  - What else can be done to increase consistency of surveillance across institutions?
  - What else can be done to increase consistent application of the CLABSI case definition across institutions?
- 

# Questions?

FDOH HAI Program

[HAI\\_Program@doh.state.fl.us](mailto:HAI_Program@doh.state.fl.us)