



# Basic Analysis Functions in NHSN

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# Outline

- Describe dataset generation
- Discuss the default analysis output options available
- Demonstrate how to make simple modifications
- Walk through some examples as a group
- Discuss options for exporting data



# NHSN Workflow

- Make sure you have a monthly reporting plan in place
  - Enter events
  - After the end of the month, enter all summary data
  - Generate datasets
  - Analyze output
- 



# Generating Data Sets

- You must generate data sets **before** you analyze your data!
  - Feature allows for quicker generation of reports
  - Analysis runs on the most recent data sets that were generated; so if you forget to generate new data sets, you may get incomplete results!
- Each user has his/her own analysis data sets
  - You need to generate your own data sets – if you have coworkers who have recently generated data sets, that means nothing for you.

# Generating Data Sets

- From the Navigation menu, click *Analysis* > *Generate Data Sets* > *Generate New* > *OK*

The screenshot displays the NHSN web application interface. The header includes the CDC logo and the text "Department of Health and Human Services, Centers for Disease Control and Prevention". Below the header, the user is logged in as "KATIEFL" and is viewing the "Generate Data Sets" page. The navigation menu on the left includes "Analysis" and "Generate Data Sets". The main content area shows a table with columns for "Date Last Generated" and "Action". A red circle highlights the date "Feb 3 2011 11:40AM" in the "Date Last Generated" column. A red arrow points to the "Generate New" button in the "Action" column. A confirmation dialog box is open in the foreground, asking "The current data sets will be overwritten. Are you sure you want to continue?". The dialog box has "OK" and "Cancel" buttons. A red arrow points to the "OK" button. The text "The data set generation process will take several minutes. Do not logoff or close browser window a..." is visible below the table.

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.

**Generate Data Sets**

Generate Patient Safety Analysis Data Sets

Date Last Generated	Action
Feb 3 2011 11:40AM	Generate New

The data set generation process will take several minutes. Do not logoff or close browser window a...

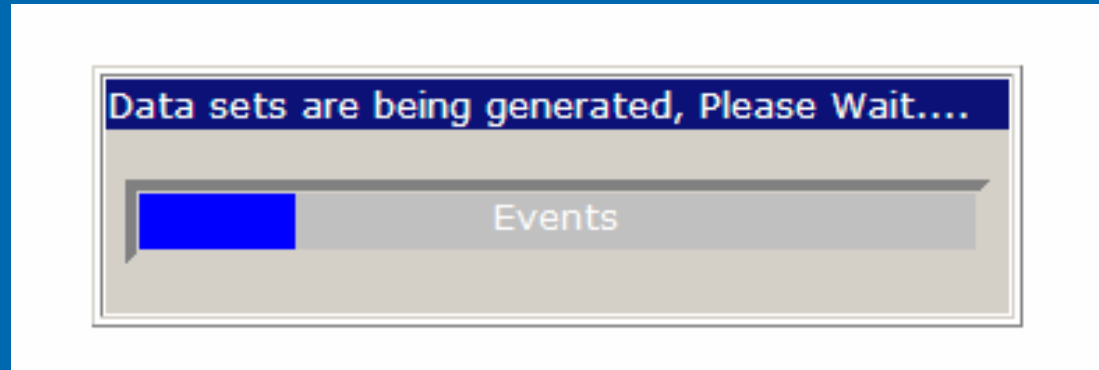
Windows Internet Explorer

The current data sets will be overwritten. Are you sure you want to continue?

OK Cancel

Back

# Generating Data Sets



- It may take a couple of minutes for the data sets to be generated – be patient. Do not navigate away from the screen until the process is complete

# Output Options – Tree View

**Procedure**  
**Summary Data**  
**Import/Export**  
**Analysis**  
    ▶ Generate Data Sets  
    ▶ **Output Options**  
    ▶ Statistics Calculator  
**Surveys**  
**Users**  
**Facility**  
**Group**  
**Log Out**

Expand All    Collapse All

- Device-Associated Module
  - All Device-Associated Events
  - Central Line-Associated BSI
    - CDC Defined Output
      - Line Listing - All CLAB Events    Run    Modify
      - Frequency Table - All CLAB Events    Run    Modify
      - Bar Chart - All CLAB Events    Run    Modify
      - Pie Chart - All CLAB Events    Run    Modify
      - Rate Table - CLAB Data for ICU-Other    Run    Modify
      - Control Chart - CLAB Data for ICU-Other    Run    Modify
      - Rate Table - UCAB/CLAB Data for NICU    Run    Modify
      - Control Chart - UCAB/CLAB Data for NICU    Run    Modify
      - Rate Table - CLAB Data for SCA    Run    Modify
      - Control Chart - CLAB Data for SCA    Run    Modify
      - SIR - In-Plan CLAB Data    Run    Modify
      - SIR - All CLAB Data    Run    Modify
    - Ventilator-Associated PNEU
    - Urinary Catheter-Associated UTI
    - Central Line Insertion Practices
    - Dialysis Events
  - Procedure-Associated Module
  - MDRO/CDAD Module - Infection Surveillance

# Output Options

- Line Listing – a record that includes a line for each patient

## National Healthcare Safety Network

### Line Listing for All Central Line-Associated BSI Events

As of: April 27, 2011 at 10:56 AM

Date Range: All CLAB\_EVENTS

orgID	patID	dob	gender	admitDate	eventID	eventDate	eventType	spcEvent	location
15634	00000	04/15/1982	M	10/20/2010	3829007	11/01/2010	BSI	LCBI	1 MICU
15634	00000	04/15/1982	M	11/01/2010	3829087	11/08/2010	BSI	LCBI	1 MICU
15634	00000	04/15/1982	M	11/08/2010	3870866	11/15/2010	BSI	LCBI	1 MICU
15634	0000000	11/29/1976	M	11/08/2010	3835411	11/10/2010	BSI	LCBI	1 MICU
15634	000007	04/15/1982	F	10/24/2010	3829008	11/01/2010	BSI	LCBI	1 MICU
15634	11234	03/05/1964	F	08/09/2010	3496838	08/17/2010	BSI	LCBI	1 MICU
15634	1256395	09/18/2010	F	09/18/2010	3836995	09/29/2010	BSI	LCBI	NICU
15634	1428653	10/10/2010	M	10/10/2010	3837012	10/30/2010	BSI	LCBI	NICU
15634	1561561	01/20/1950	F	07/15/2010	3414768	08/02/2010	BSI	LCBI	1 MICU
15634	198136	08/14/1976	F	02/01/2011	4274751	02/09/2011	BSI	LCBI	1 MICU
15634	26534	08/20/2000	M	12/20/2009	3180723	01/15/2010	BSI	LCBI	22ICU

# Output Options

- Frequency Table – a grid showing the relative frequencies of two variables

National Healthcare Safety Network  
Frequency Table for All Central Line-Associated BSI Events  
As of: April 27, 2011 at 1:17 PM  
Date Range: All CLAB\_EVENTS

Frequency Percent Row Pct Col Pct	Table of location by died		
	location	died	
	N	Y	Total
1 MICU	20	3	23
	74.07	11.11	85.19
	86.96	13.04	
	83.33	100.00	
22ICU	2	0	2
	7.41	0.00	7.41
	100.00	0.00	
	8.33	0.00	
NICU	2	0	2
	7.41	0.00	7.41
	100.00	0.00	
	8.33	0.00	
Total	24	3	27
	88.89	11.11	100.00

# Output Options

- Rate Table – stratified by CDC location, a rate table includes your numerator, denominator and rate, and compares it to national NHSN data for the corresponding location type

## National Healthcare Safety Network

### Rate Table for Central Line-Associated BSI Data for ICU-Other

As of: April 27, 2011 at 1:35 PM

Date Range: CLAB\_RATE\$ICU summaryYQ 2010Q4 to 2010Q4

orgID=15634 loccdc=IN:ACUTE:CC:M

location	summaryYM	CLABCount	numCLDays	CLABRate	CLAB_Mean	IDR_pval	IDR_pctl	numPatDays	LineDU	LineDU_Mean	P_pval	P_pctl
1 MICU	2010M10	0	247	0.0	1.9	0.6261	25	698	0.35	0.45	0.0000	45
1 MICU	2010M11	6	299	20.1	1.9	0.0000	100	710	0.42	0.45	0.0532	45
1 MICU	2010M12	0	279	0.0	1.9	0.5892	25	624	0.45	0.45	0.4188	45

Source of aggregate data: NHSN Report, Am J Infect Control 2009;37:783-805

Data contained in this report were last generated on April 27, 2011 at 10:37 AM.

# Rate Table

p-value compares your facility's rate to NHSN national comparison data, taking into account the number of central line days your facility counted

Percentile is the percent of other reporting facilities with a rate at or below yours (lower is better!)

National Rate Table for MICU-Other

As of: April 27, 2011 at 1:33 PM  
Date Range: CLAB\_RATE\$ICU summaryYQ 2010Q4 to 2010Q4

orgID=15634 loccdc=IN:ACUTE:CC:M

location	summaryYM	CLABCount	numCLDays	CLABRate	CLAB_Mean	IDR_pval	IDR_pctl	numPatDays	LineDU	LineDU_Mean	P_pval	P_pctl
1 MICU	2010M10	0	247	0.0	1.9	0.6261	25	698	0.35	0.45	0.0000	45
1 MICU	2010M11	6	299	20.1	1.9	0.0000	100	710	0.42	0.45	0.0532	45
1 MICU	2010M12	0	279	0.0	1.9	0.5892	25	698	0.35	0.45	0.4188	45

NHSN National Comparison data ("Pooled Mean") from 1/2006-12/2008

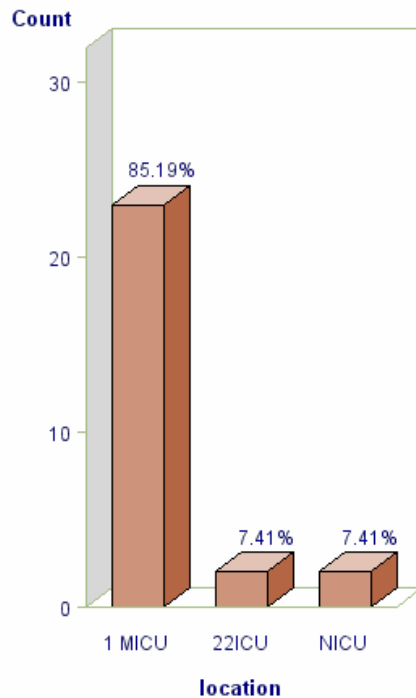
Reports for Rate & Device Utilization Ratio

2009:37:783-805  
2011 at 10:37 AM.

# Output Options

## ➤ Graphics: Bar Chart, Pie Chart, Control Chart

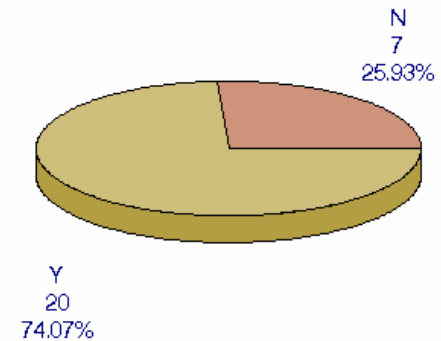
**National Healthcare Safety Network**  
Bar Chart for All Central Line-Associated BSI Events  
As of: April 27, 2011 at 1:21 PM  
Date Range: All CLAB\_EVENTS



Data contained in this report were last generated on April 27, 2011 at 10:37 AM.

**National Healthcare Safety Network**  
Pie Chart for All Central Line-Associated BSI Events  
As of: April 27, 2011 at 1:24 PM  
Date Range: All CLAB\_EVENTS

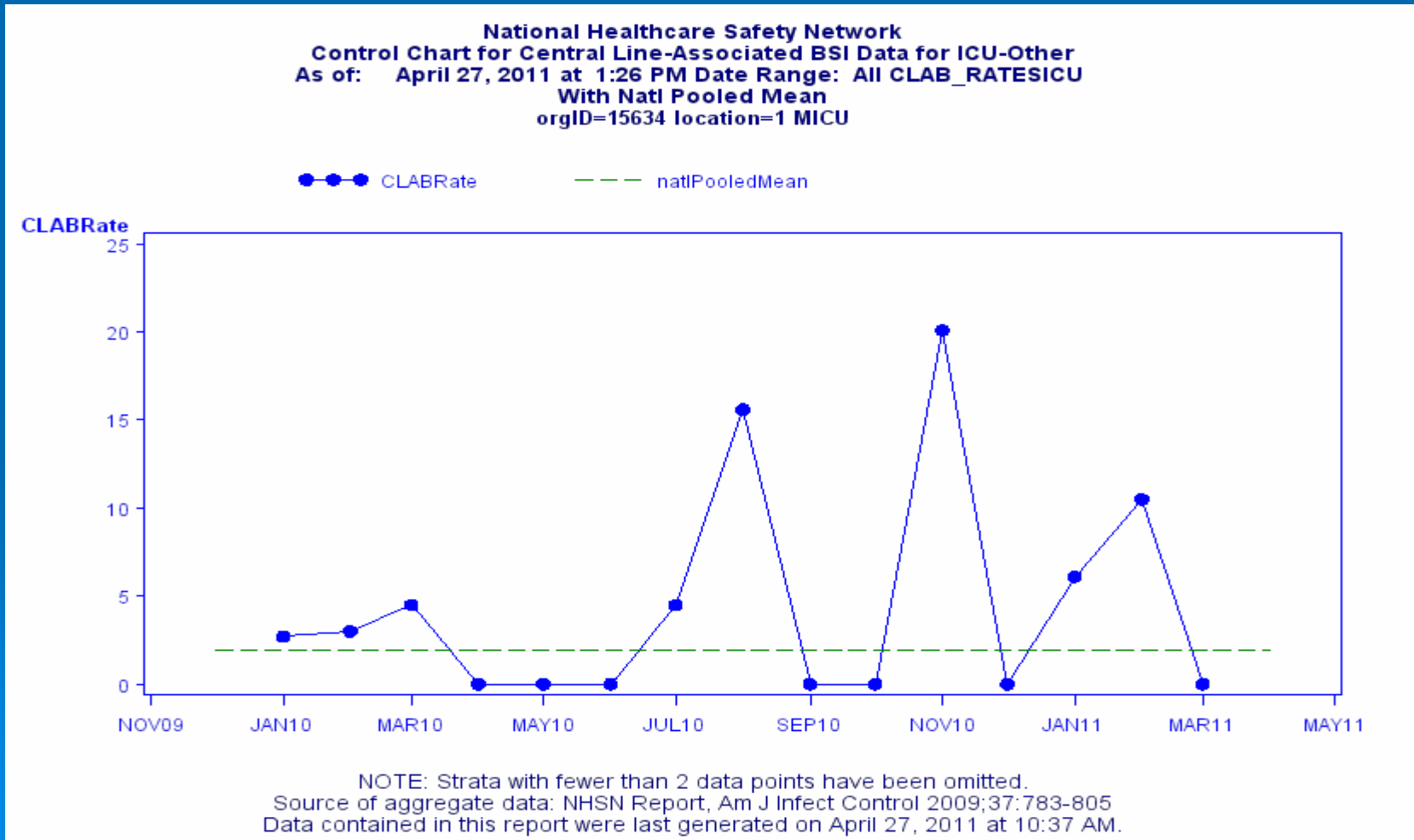
FREQUENCY of cr\_ssFever



Data contained in this report were last generated on April 27, 2011 at 10:37 AM.

# Output Options

## ➤ Graphics: Bar Chart, Pie Chart, Control Chart



# Output Options

## ➤ Standardized Infection Ratio (SIR) table

### National Healthcare Safety Network

### SIR for In-Plan Central Line-Associated BSI Data - By OrgID/Location

As of: April 27, 2011 at 1:27 PM

Date Range: All CLAB\_RATE\_SICU

if (((bsiPlan = "Y" ) ))

orgid=15634

orgid	location	summaryYH	months	infcount	numExp	numcldays	SIR	SIR_pval	SIR95CI
15634	1 MICU	2010H1	6	4	4.471	2353	0.90	0.5377	0.306, 2.047
15634	1 MICU	2010H2	6	14	3.498	1841	4.00	0.0000	2.420, 6.257
15634	22ICU	2010H1	6	1	1.214	368	0.82	0.6574	0.042, 3.906
15634	22ICU	2010H2	6	1	1.845	559	0.54	0.4497	0.028, 2.572

If infCount in this table is less than you reported, aggregate data are not available to calculate numExp.

Lower bound of 95% Confidence Interval only calculated if infCount > 0. SIR values only calculated if numExp >= 1.

Source of aggregate data: NHSN Report, Am J Infect Control 2009;37:783-805

Data contained in this report were last generated on April 27, 2011 at 10:37 AM.

# What is an SIR?

- A summary measure used to track HAIs at a national, state, or local level over time
- Compares the actual number of HAIs reported with the aggregate national data (2006-2008), adjusting for risk factors known to be significantly associated with differences in infection incidence
- **An  $SIR > 1$  indicates that more HAIs were observed than expected; an  $SIR < 1$  indicates that fewer HAIs were observed than expected**

# SIR

## National Healthcare Safety Network SIR for In-Plan Central Line-Associated Infection

As of: April 27, 2011 at 1:27 PM

Date Range: 2010H1

if (infCount > 0)

o

**SIR = Number of  
CLABSI  
reported/number  
of CLABSI  
expected**

**Number of  
CLABSI  
reported by our  
facility**

orgid	location	summaryYH	months	infcount	numExp	numclays	SIR	SIR_pval	SIR95CI
15634	1 MICU	2010H1	6	4	4.471	2353	0.90	0.5377	0.306, 2.047
15634	1 MICU	2010H2	6	14	3.498	1841	4.00	0.0000	2.420, 6.257
15634	22ICU	2010H1	6	1	1.214	368	0.82	0.6574	0.042, 3.906
15634	22ICU	2010H2	6	1	1.845	559	0.54	0.4497	0.028, 2.572

**Number of Expected  
= National CLABSI  
rate\*Number of  
central line days  
reported**

**P-value and 95%  
confidence  
interval for SIR**

If you reported, aggregate data are not available for you. numExp.  
only calculated if infCount > 0. SIR  
Control 2009;37:783-805  
April 27, 2011 at 10:37 AM.

# Modifying Output

There are 3 main things you can modify:

- *Output characteristics* – change the output name, title, and format
- *Which data will be included in the report* – filter by time period, location, event type, etc.
- *How data will be displayed* – define rows, columns, variables for stratification, etc.

**Line Listing**

Analysis Data Set: CLAB\_Events [Export Analysis Data Set](#)

**Modify Attributes of the Output:**

Last Modified On: 06/29/2010

Output Type: **Line Listing** **1**

Output Name:

Output Title:

---

**Select output format:**

Output Format:

Use Variable Labels

---

**Select a time period or Leave Blank for Cumulative Time Period:**

Date Variable:  Beginning:  Ending:  [Clear Time Period](#)

Enter Date variable/Time period at the time you click the Run button **2**

---

**Specify Other Selection Criteria:**

[Show Criteria](#) [Columns +](#) [Row +](#) [Clear Criteria](#)

<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

---

**Other Options:** [Print Variable Reference List](#)

Modify Variables To Display By Clicking: [Modify List](#)

Specify Sort Variables By Clicking: [Modify List](#)

Select Page by variable:

# Modify Output Characteristics

**Modify Attributes of the Output:**

Last Modified On: **04/27/2011**

Output Type: **Rate Table**

Output Name:

Output Title:

---

**Select output format:**

Output Format:

Use Variable Labels

**Output Name is what appears on the Tree View menu**

**Output Title is what appears at the top of the output**

**Output Format options are HTML (a webpage), PDF, CSV (open in Excel), and RTF (open in Word)**

**Check "Use Variable Labels"**

# Modifying Which Data to Include

Select a time period or Leave Blank for Cumulative Time Period:

Date Variable Beginning Ending

Enter Date variable/Time period at the time you click the Run button

Specify Other Selection Criteria:

[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Modify the time period

Specify other filters

# Specify a Time Period

- You can filter any output by a date parameter and date parameters can be specified in multiple formats
- If you do not specify a time period, you will get all data in the system for your facility

<b>Date Variable</b>	<b>Beginning</b>	<b>Ending</b>
eventDate	01/01/2009	06/30/2009
evntDateYH	2009H1	2009H1
evntDateYQ	2009Q1	2009Q2

# Specify Other Selection Criteria

The screenshot shows a software interface with a list of variables on the left and a table on the right. The variables list includes: acine, admDateYH, admDateYM, admDateYQ, admDateYr, admitDate, admToDisDays, admToEvtDays, ageAtEvent, birthWt, birthWtCode, birthWtCodeDesc, cdad, centralLine, completedFlag, contribDeath, cr\_diagTher, cr\_labNoOrg, cr\_labPath, cr\_labSkinCon, cr\_ssApnea, cr\_ssBradycard, cr\_ssChills, cr\_ssFever, cr\_ssHypoten, cr\_ssHypotherm, customEventType, devInsertDate, and devInsertLoc. The table on the right has columns for 'Criteria' and 'Value'. The first row is 'e Listing - All CLAB Events', the second is 'e Listing for All Central Line-Associated BSI Events', and the third is 'Leave Blank for beginning'. Below the table, there are buttons for '+ Row +', 'Clear Criteria', and a 'Clear All' button. A red arrow points from the 'Clear All' button to the first empty cell in the table.

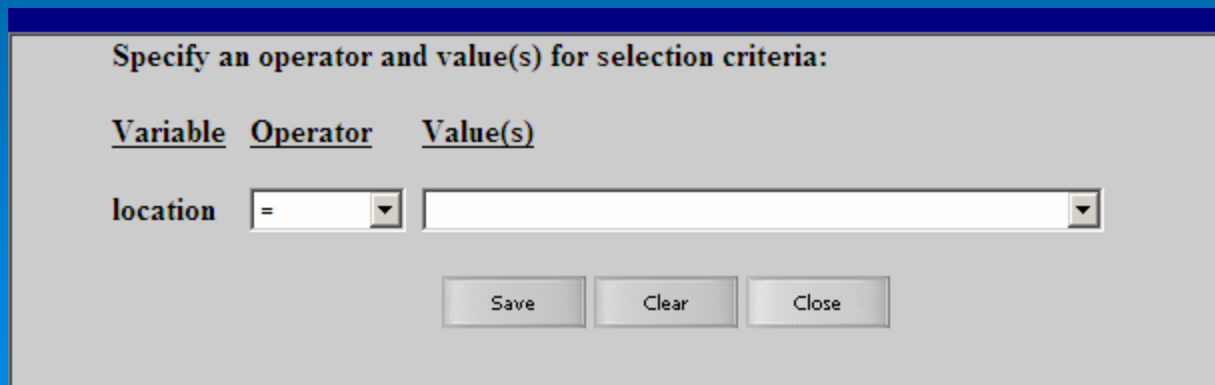
Criteria	Value
e Listing - All CLAB Events	
e Listing for All Central Line-Associated BSI Events	
Leave Blank for beginning	

Click on the arrow for a list of all available variables – you can filter on any of the variables in this list

Next, click in the empty box below the variable you selected

# Specify Other Selection Criteria

- You will see a pop-up to specify your selection criteria
  - Using the drop downs, select your operator (=, >, >=, <, <=, ~= (*not equal*), in, ~in (*not in*), between)
  - Then select the value(s) you want selected – this may be a drop down list or a free text field that you will need to type in
- When you are done, click Save



Specify an operator and value(s) for selection criteria:

<u>Variable</u>	<u>Operator</u>	<u>Value(s)</u>
location	=	

Save Clear Close

# Specify Other Selection Criteria

- When specifying selection criteria or defining filters:
  - Criteria are read ACROSS a row as AND
  - Once you move DOWN a row, criteria are read as OR

**Specify Other Selection Criteria:**

[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

eventType	locCDC	
= BSI	= IN:ACUTE:CC:C	
<b>OR</b> {	<b>AND</b>	<b>AND</b> = IN:ACUTE:CC:MS }

# Specify Other Selection Criteria

**Specify Other Selection Criteria:**

[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

eventType	locCDC	
= BSI	= IN:ACUTE:CC:C	
= BSI	= IN:ACUTE:CC:MS	

“Give me all events where the patient had a bloodstream infection **AND** was located in a medical cardiac critical care unit (CC:C),

**OR** give me events where the patient had a bloodstream infection **AND** was located in the medical surgical critical care unit (CC:MS)”

# Specify Other Selection Criteria

**Specify Other Selection Criteria:**

[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

eventType	locCDC	
= BSI	IN (IN:ACUTE:CC:C, IN:ACUTE:CC:MS)	

“Give me all events where the patient had a bloodstream infection **AND** (the patient was located in a medical cardiac critical care unit (CC:C) **OR** the medical surgical critical care unit (CC:MS))”

# Specify Other Selection Criteria

**Specify Other Selection Criteria:**

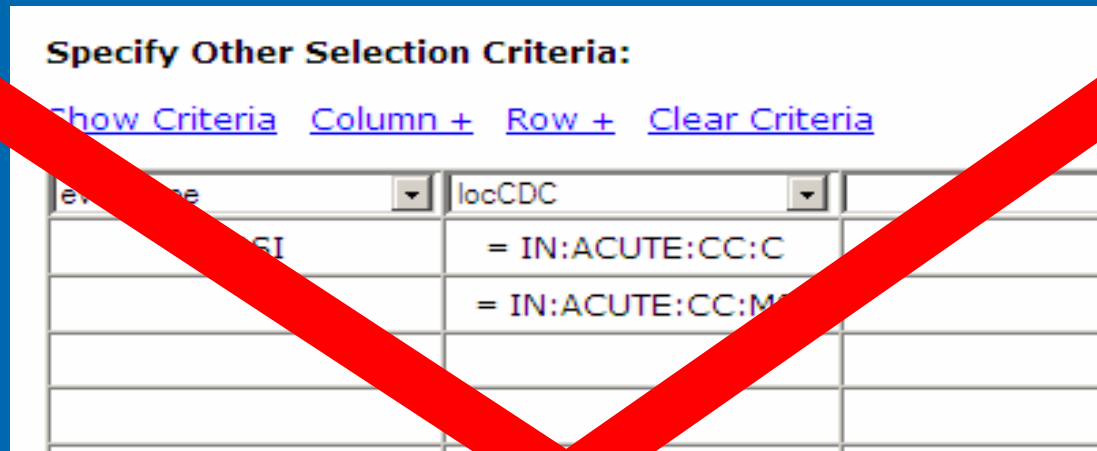
[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

eventType	locCDC	
= BSI	= IN:ACUTE:CC:C	
	= IN:ACUTE:CC:MS	

“Give me all events where the patient had a bloodstream infection **AND** was located in a medical cardiac critical care unit (CC:C),

**OR** give me events (*I don't care what type of event*) where the patient was in the medical surgical critical care unit (CC:MS)”

# Specify Other Selection Criteria



The screenshot shows a dialog box titled "Specify Other Selection Criteria:". At the top, there are four links: "Show Criteria", "Column +", "Row +", and "Clear Criteria". Below the links is a table with two columns. The first column has a dropdown menu with "locCDC" selected. The second column has a dropdown menu with "locCDC" selected. The table contains two rows of criteria:

Event Type	Criteria
Bloodstream Infection (BSI)	= IN:ACUTE:CC:C
	= IN:ACUTE:CC:MS

“Give me all events where the patient had a bloodstream infection **AND** was located in a medical cardiac critical care unit (CC:C),

**OR** give me events (*I don't care what type of event*) where the patient was in the medical surgical critical care unit (CC:MS)”

# Modify Data Display

➤ Options vary for the different types of reports

Line Listing

Other Options:

Modify Variables To Display By Clicking: [Modify List](#)

Specify Sort Variables By Clicking: [Modify List](#)

Select Page by variable:

Other Options:

Chart Variable:

Group by:

Control Chart Options:

Display Overlay Line(s)

NHSN Aggregated Pooled Mean

Local Pooled Mean

Reference Line with value =

Display Control Limits (Choose One)

Upper/Lower 95% Confidence Level

C-chart

U-chart

3-sigma

Smoothing Enabled

3 Point Moving Average

5 Point Moving Average

Other Options:

Group by:

Show Histogram

Control Chart

Rate Table

# “Advanced” Options

- If you want to include anything beyond the very basics (e.g. pathogens or custom fields), you will need to explore the “Advanced” folder

- Device-Associated Module
- Procedure-Associated Module
- MDRO/CDAD Module - Infection Surveillance
- MDRO/CDAD Module - LABID Event Reporting
- MDRO/CDAD Module - Process Measures
- MDRO/CDAD Module - Outcome Measures
- Vaccination Module
- Advanced
  - [Create New custom Option](#)
  - Patient-level Data
  - Event-level Data
  - Procedure-level Data
  - Summary-level Data
  - Plan Data
  - Pathogen-level Data
  - Facility-level Data
  - My Custom Output
  - Published Output

# Summary Data Report

Advanced

[Create New custom Option](#)

- Folder: Patient-level Data
- Folder: Event-level Data
- Folder: Procedure-level Data
- Folder: Summary-level Data
  - Folder: CDC Defined Output
    - File: Line Listing - All Summary Data [Run] [Modify]
    - File: User-Defined Rate Table - ICU-Other [Run] [Modify]
    - File: User-Defined Rate Table - NICU [Run] [Modify]
    - File: User-Defined Rate Table - SCA [Run] [Modify]
    - File: Line Listing - CLAB Rates for NICU [Run] [Modify]
  - Folder: Custom Output
- Folder: Plan Data
- Folder: Pathogen-level Data
- Folder: Facility-level Data

**Look at all your summary data!**

# Plan Data Report

## Advanced

[Create New custom Option](#)

Folder: Patient-level Data

Folder: Event-level Data

Folder: Procedure-level Data

Folder: Summary-level Data

Folder: Plan Data

Folder: CDC Defined Output

Document: Line Listing - Patient Safety Plans

Run

Modify

Folder: Custom Output

Folder: Pathogen-level Data

Folder: Facility-level Data

**Review your patient  
safety plans!**

# Participation Alerts Report

## Advanced

[Create New custom Option](#)

Folder Patient-level Data

Folder Event-level Data

Folder Procedure-level Data

Folder Summary-level Data

Folder Plan Data

Folder Pathogen-level Data

Folder Facility-level Data

Folder CDC Defined Output

Line Listing - Facility Enrollment Data

Run

Modify

Line Listing - Conferred Rights

Run

Modify

Line Listing - Hospital Survey

Run

Modify

Line Listing - Participation Alerts

Run

Modify

**Monitor your participation alerts!**

# Participation Alerts Report

1. Month with plan and no denominator
2. Month with plan/event and denominator = 0
3. Month with denominator but no plan
4. Month with events and no denominator
5. Month with 0 rate (no events entered)

orgID	module	location	locCDC	procCode	outpatient	planYM	birthwtcode	alertType	eventType
15634	DA	MSICU	IN:ACUTE:CC:MS			2011M01		1. Month with plan and no denom	CAU
15634	DA	MSICU	IN:ACUTE:CC:MS			2011M02		1. Month with plan and no denom	CAU
15634	DA	MSICU	IN:ACUTE:CC:MS			2011M03		1. Month with plan and no denom	CAU
15634	DA	1 MICU	IN:ACUTE:CC:M			2011M01		5. Month with 0 Rate (no events entered)	CAU



Questions?





# Practice 1!

- You want to get a CLABSI rate table by quarter for your Medical Surgical ICU, for the first 3 quarters of 2010




# Practice 2!

- You want to create a CLABSI line list for all ICUs in your facility, from January-June 2010, that includes the first pathogen. You want your line list sorted by event date.

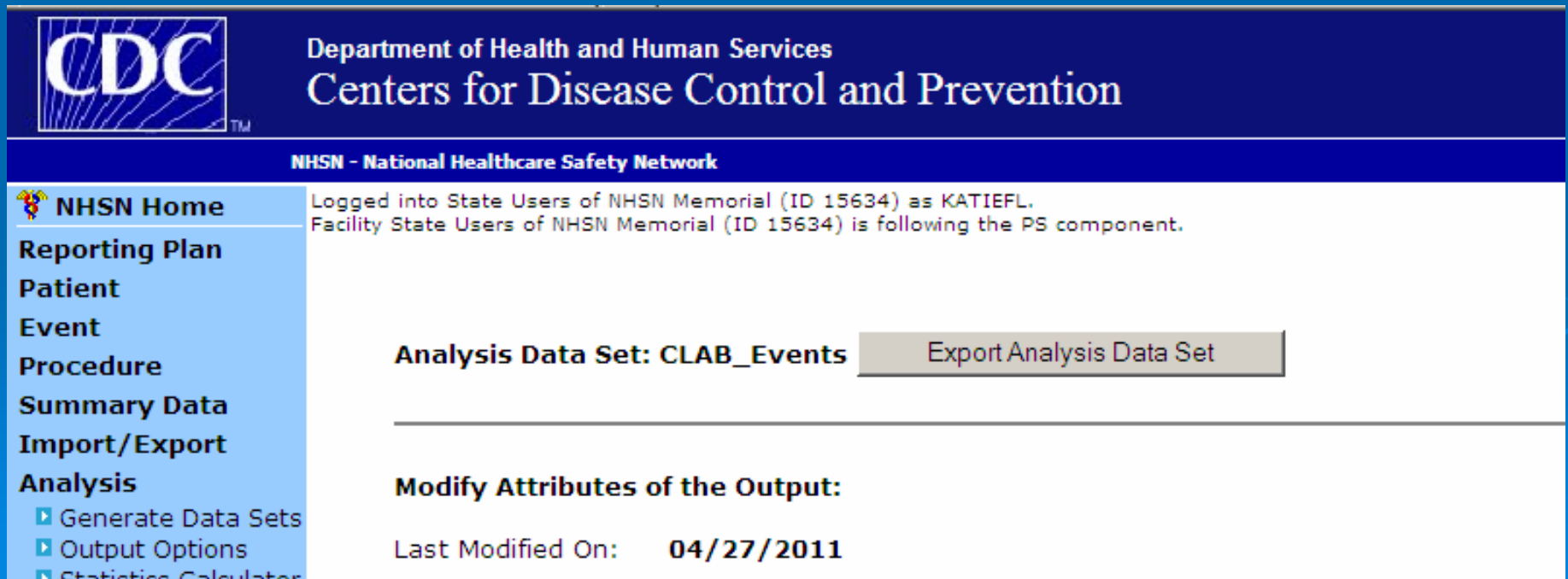


# Exporting Data

- There are 3 options for exporting data from NHSN:
    - Analysis Data Set
    - Output Data Set
    - Facility Data Set
- 

# Analysis Data Set

- Find the analysis data set at the TOP of the screen for modifying a report – BEFORE taking into account any modifications



The screenshot displays the NHSN (National Healthcare Safety Network) web application 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 a dark blue bar with the text "NHSN - National Healthcare Safety Network". A light blue sidebar on the left contains a menu with the following items: "NHSN Home", "Reporting Plan", "Patient", "Event", "Procedure", "Summary Data", "Import/Export", "Analysis", "Generate Data Sets", "Output Options", and "Statistics Calculator". 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, the text "Analysis Data Set: CLAB\_Events" is displayed next to a button labeled "Export Analysis Data Set". A horizontal line separates this section from the "Modify Attributes of the Output:" section, which includes the text "Last Modified On: 04/27/2011".

# Output Data Set

- Find the output data set at the **BOTTOM** of the screen for modifying a report – **AFTER** taking into account any modifications made above it

Other Options:

[Print Variable Reference List](#)

Modify Variables To Display By Clicking: [Modify List](#)

Specify Sort Variables By Clicking: [Modify List](#)

Select Page by variable:

Run

Save As

Reset

Back

Export Output  
Data Set

# Export Facility Data Set

The screenshot displays the NHSN web application 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 a dark blue bar with "NHSN - National Healthcare Safety Network". The main content area shows a user is logged in as "KATIEFL" from "State Users of NHSN Memorial (ID 15634)". A left-hand navigation menu lists various options, with "Import/Export" highlighted. A dropdown menu is open under "Import/Export Type:", listing options such as "CSV Import", "CDA Import", and "Export". Two red circles with arrows point to the "Import/Export" menu item (labeled '1') and the "Export" option in the dropdown (labeled '2').

**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.

**NHSN Home**  
Reporting Plan  
Patient  
Event  
Procedure  
Summary Data  
Import/Export  
Analysis  
Surveys  
Users  
Facility  
Group  
Log Out

Import/Export Type:

- CSV Import*  
Patients  
Procedures  
Surgeons
- CDA Import*  
Events, Summary Data, Procedure Denominators  
SSI events (requires link to procedure)
- Export*  
Export Facility Data

# More Information on Analysis

- Analysis Training – available at:  
<http://www.cdc.gov/nhsn/training.html>
- Analysis Quick Tips guide – available at:  
<http://www.cdc.gov/nhsn/PDFs/AnalysisBasics.pdf>
- Questions? Email:  
[HAI\\_Program@doh.state.fl.us](mailto:HAI_Program@doh.state.fl.us) or  
[NHSN@cdc.gov](mailto:NHSN@cdc.gov)

# Questions?

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