



Using NHSN Analysis for Prevention Getting Started

May 2015



HAI Liaison Program
Hospital-Associated Infection Program
Center for Health Care Quality
California Department of Public Health

Presented live 6/2/15 1:30–3:00pm by Vicki Keller, RN, MSN, CIC
For technical questions during the presentation e-mail
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Review of NHSN Analysis Basics Objectives

By the end of this session, participants will be able to:

- Understand the basic features of the NHSN Analysis Function
- Demonstrate how and when to generate a data set
- Explore standard NHSN-prepared reports using the output “run” function
- Explore how the output “modify” function can be used to personalize reports

Understanding the Basic Features of the NHSN Analysis Function

- Analysis features provide NHSN users an opportunity to utilize the data they entered into NHSN
- Facility data in NHSN can be correlated and analyzed using the output options
- Analysis section is organized by modules (i.e. Device-associated, Procedure-Associated, MDRO/CDI , etc.); each has standard CDC reports for quick, convenient analysis of data



- NHSN Home
- Alerts
- Reporting Plan
- Patient
- Event
- Procedure
- Summary Data
- Import/Export
- Analysis**
 - Generate Data Sets
 - Output Options
 - Statistics Calculator
- Surveys
- Users
- Facility
- Group
- Log Out

Logged into California General Hospital (ID 15633) as TRACYLANIER.
Facility California General Hospital (ID 15633) is following the PS component.

Patient Safety Component

Analysis Output Options

[HELP](#)

Expand All Collapse All

- Device-Associated (DA) Module
 - Central Line-Associated BSI
 - Ventilator-Associated PNEU
 - Ventilator-Associated Events
 - Urinary Catheter-Associated UTI
 - Central Line Insertion Practices
- Procedure-Associated (PA) Module
- HAI Antimicrobial Resistance (DA+PA Modules)
- MDRO/CDI Module - Infection Surveillance
- MDRO/CDI Module - LABID Event Reporting
- MDRO/CDI Module - Process Measures
- MDRO/CDI Module - Outcome Measures
- Antimicrobial Use and Resistance Module
- CMS Reports
- TAP Reports
- Advanced
- My Custom Output



Understanding the Basic Features of the NHSN Analysis Reports

Reports may be:

- Modified for individual user preferences
- Created and saved for future use
- Exported to other programs (i.e. Excel, Access)
- Published for use by all users in a facility/system
- Saved in “stacks” (a series of different reports saved together as a package to be displayed/printed in a specific order for future use)

Where to Start...?

- Generating a Data Set
 - Creates a virtual “photocopy” of your NHSN data which is stored on the CDC database
- Each time new data is added and you want to view or print information about the data you should **generate a new data set**
- **Changes made to the data set do not affect the NHSN data base**
- Do not be afraid to use the analysis tools – you will not alter your NHSN information in the database with these tools!



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NHSN Patient Safety Component Home Page

Use the Navigation bar on the left to access the features of the application.

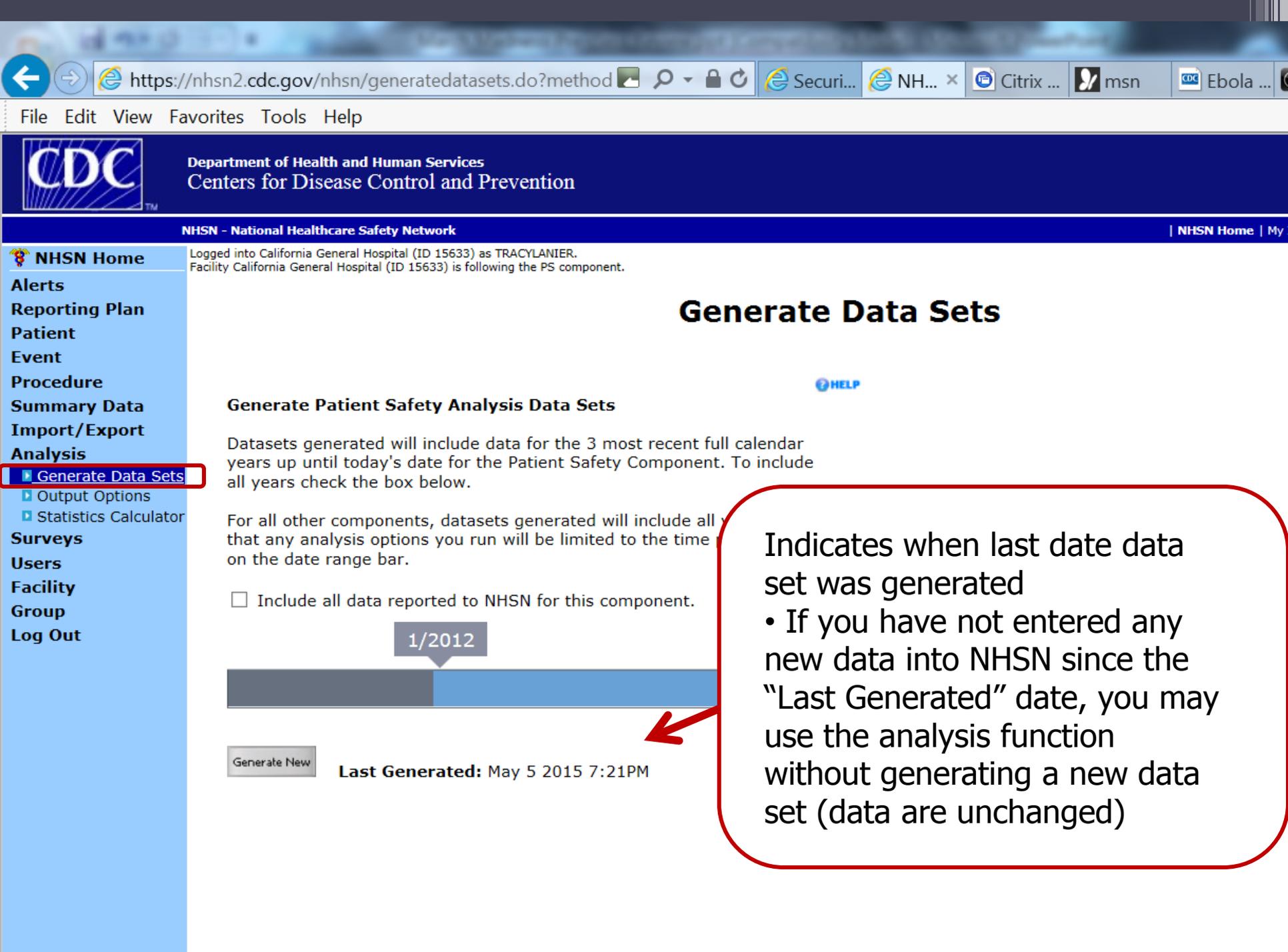
Action items

On your NHSN Home Page select the **Analysis** Function

Assurance of Confidentiality: The voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)).



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Generate Data Sets

HELP

Generate Patient Safety Analysis Data Sets

Datasets generated will include data for the 3 most recent full calendar years up until today's date for the Patient Safety Component. To include all years check the box below.

For all other components, datasets generated will include all y that any analysis options you run will be limited to the time on the date range bar.

Include all data reported to NHSN for this component.



Generate New

Last Generated: May 5 2015 7:21PM

Indicates when last date data set was generated

- If you have not entered any new data into NHSN since the "Last Generated" date, you may use the analysis function without generating a new data set (data are unchanged)



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Generate Data Sets

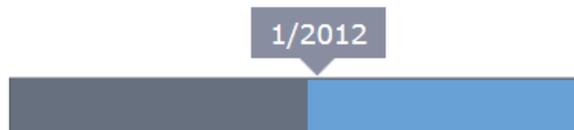


Generate Patient Safety Analysis Data Sets

Datasets generated will include data for the 3 most recent full calendar years up until today's date for the Patient Safety Component. To include all years check the box below.

For all other components, datasets generated will include all years. Note that any analysis options you run will be limited to the time period shown on the date range bar.

Include all data reported to NHSN for this component



Generate New

Last Generated: May 5 2015 7:21

Click to generate a new data set

- When "Generate New" is chosen, a progress box will appear on the screen
- Generating a data set takes about 3 – 5 minutes
- If NHSN server is busy, you will receive a message indicating that you have been placed in queue; when your turn arrives, your dataset will be generated.



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- Users
- Facility
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Generate Data Sets

HELP

Generate Patient Safety Analysis Data Sets

Date Last Generated	Action
---------------------	--------

Jan 19 2012 7:42PM	Generate New
--------------------	--------------



Clicking the "Generate New" button will schedule your data set generation. You may log out or continue to work in other areas of NHSN. When you return to this screen you will see a progress bar if still processing,

- When a new data set is ready the new date will appear under "Date Last Generated" and you are ready to proceed to "Output Options"
- Once you have initiated the generation of a new data set, try not to interrupt or stop the process until it has completed

I've Generated a Data Set – Now What?

- A user can generate several types of output including line listings, frequency tables, pie charts, bar charts, rate tables, line plots and control charts using the Output Function
- When an output option is executed, the output will display in a separate browser window which can be printed or saved as a file on a local computer workstation

To use the Analysis Module, you must enable pop-ups from NHSN on your computer!



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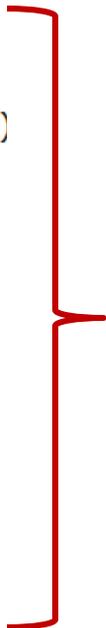
Patient Safety Component

Analysis Output Options

[HELP](#)

Expand All Collapse All

- Device-Associated (DA) Module
- Procedure-Associated (PA) Module
- HAI Antimicrobial Resistance (DA+PA Modules)
- MDRO/CDI Module - Infection Surveillance
- MDRO/CDI Module - LABID Event Reporting
- MDRO/CDI Module - Process Measures
- MDRO/CDI Module - Outcome Measures
- Antimicrobial Use and Resistance Module
- CMS Reports
- TAP Reports
- Advanced
- My Custom Output
- Published Output



Collapsed view of the Output Options Choices

- Individual modules and output options are listed



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- Reporting Plan**
- Patient**
- Event**
- Procedure**
- Summary Data**
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- Analysis**
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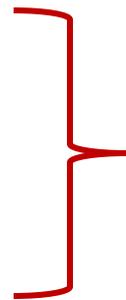
Patient Safety Component

Analysis Output Options

[HELP](#)

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- Device-Associated (DA) Module
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Expanded view of a module with each of its sub-categories listed.



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- NHSN Home**
- Alerts
- Reporting Plan
- Patient
- Event
- Procedure
- Summary Data
- Import/Export
- Analysis
 - Generate Data Sets
 - Output Options
 - Statistics Calculator
- Surveys
- Users
- Facility
- Group
- Log Out

Patient Safety Component Analysis Output Options

Expand All Collapse All

- Device-Associated (DA) Mod
 - Central Line-Associated BSI
 - CDC Defined Output
 - Custom Output
 - Ventilator-Associated PNEU
 - Ventilator-Assoc
 - Urinary Cathete
 - Central Line Insertion Practice
- Procedure-Associated (PA) M
- HAI Antimicrobial Resistance
- MDRO/CDI Module - Infection Surveillance
- MDRO/CDI Module - LABID Event Reporting
- MDRO/CDI Module - Process Measures
- MDRO/CDI Module - Outcome Measures
- Antimicrobial Use and Resistance Module
- CMS Reports



Each sub-category can be printed as:

- CDC Defined Output** – reports created by NHSN using common variables for that topic
- Custom Output** – reports that **you** have created or modified previously for a category, saved both with the sub-category and under "Custom Output"

- Procedure
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- Log Out

Expand All Collapse All

Device-Associated (DA) Module

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
Run Chart - CLAB Data for ICU-Other	Run	Modify
Rate Table - CLAB Data for NICU	Run	Modify
Run Chart - CLAB Data for NICU	Run	Modify
Rate Table - CLAB Data for SCA/ONC	Run	Modify
Run Chart - CLAB Data for SCA/ONC	Run	Modify
Rate Table - CLAB Data for LTAC	Run	Modify
Run Chart - CLAB Data for LTAC	Run	Modify
Rate Table - CLAB Data for IRF	Run	Modify
Run Chart - CLAB Data for IRF	Run	Modify
SIR - In-Plan CLAB Data	Run	Modify
SIR - All CLAB Data	Run	Modify
SIR - CLAB Data for Long Term Acute Care	Run	Modify

Custom Output

- Ventilator-Associated PNEU
- Ventilator-Associated Events
- Urinary Catheter-Associated UTI

CDC Defined Output

- All pre-made options for line listings, tables, charts and graphs for the sub-category will appear

NHSN Quick Tips Document

NHSN has a great summary document that outlines all of the features in the "Modify" feature

NHSN Quick Tips Document Link:

www.cdc.gov/nhsn/PS-Analysis-resources/reference-guides.html



Quick Tips: Run and Modify Output

Inside Quick Tips—
 The National Healthcare Safety Network provides Quick Tips as a convenient review of important skills and topics relevant to HHSN users.

Select Output Format 2
 Variable names vs. Variable labels 2
 Filter by Time Period 2
 Filter by Additional Criteria 2
 Other Options 3
 • Line Listings 3
 • Rate Tables & SIR Tables 3
 • Frequency Tables 3
 Name and Save Modified Output 4
 Export Data Sets 4

Where do I begin?
 From the left Navigation Bar, Select Generate Data Sets, if needed.

- User -specific
- Based on user rights
- May take a few minutes!

Select Output Options—
 Expand folders in Module or Advanced until desired output option is found

- Click Run to view output in browser window
- To change the output, click Modify

Example of Analysis Modification Screen

Can export analysis and output data-sets. Can change the design parameters of output here.

The top section allows you to modify output characteristics, such as output name, title, and format.

The middle section allows you to specify which data will be considered for the output. You can filter output by time and other criteria (e.g., limit to a single location or infection type.)

The bottom section allows you to specify how the data in the output will be displayed and organized (e.g., sort by location, group by quarter.)

Page 1 August 2010

Labels in the Reaction?

it includes

Ending
12/31/2009
2009
2009H2
2009Q4
12/2009

date or month range.

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selection criteria:

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Options page, where you
 ns for the export

Output Options

Page 3 August 2010



NHSN - National Healthcare Safety Network

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- NHSN Home
- Alerts
- Reporting Plan
- Patient
- Event
- Procedure
- Summary Data
- Import/Export
- Analysis
 - Generate Data Sets
 - Output Options
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- Surveys
- Users
- Facility
- Group
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Modify Output Screen

Line Listing

HELP

Analysis Data Set: CLAB_Events Export Analysis Data Set



Export Analysis Data Set – this tab exports ALL (unfiltered) data associated with the module you are analyzing (it has limited practical use for most projects)

Modify Attributes of the Output:

Last Modified On: **05/05/2015**

Output Type: **Line Listing**

Output Name:

Output Title:

Select output format:

Output Format:

Use Variable Labels

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



NHSN - National Healthcare Safety Network

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- NHSN Home
- Alerts
- Reporting Plan
- Patient Event
- Procedure
- Summary Data
- Import/Export
- Analysis
 - Generate Data Sets
 - Output Options
 - Statistics Calculator
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- Group
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Analysis Data Set: CLAB_Events

Modify Attributes of the Output:

Last Modified On: 05/05/2015

Output Type: Line Listing

Output Name:

Output Title:

Select output format:

Output Format:

Use Variable Labels

Line L

Modify Attributes of the Output

- lists last time data was modified and type of report

"File Cabinet" name for output type

"File Name" for your modified report





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Line Listing

[HELP](#)

Analysis Data Set: CLAB_Events

Export Analysis Data Set

Modify Attributes of the Output:

Last Modified On: 05/05/2015

Output Type: Line Listing

Output Name: Line Listing - All CLAB Events

Output Title: Line Listing for All Central Line-Associated B

Select output format:

Output Format: HTML

Use Variable Labels

Output Format

- Choose format for report from HTML, CSV, PDF or RTF

Always check box to get comprehensive labels on your final reports

Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)



Output Formats

- **PDF** – “snap shot” of your data; easiest reports to interpret
 - Data cannot be easily modified once in this format
- **HTML** – Web page based document language¹
 - Default for all reports unless changed; good graphical display of data
- **CSV** – comma separated value file.
 - Used when you want to export data reports from NHSN to spreadsheets (i.e. Excel)
 - Exported files can be modified/manipulated within the receiving program
- **RTF** – Rich Text Format
 - Document file format developed by Microsoft for cross-platform document interchange¹



1.HTML, RTF. (n.d) Wikipedia. Retrieved from <http://en.wikipedia.org/wiki/Html>

Last Modified On: **05/05/2015**
 Output Type: **Line Listing**
 Output Name:
 Output Title:

Select output format:
 Output Format:
 Use Variable Labels

Enter the timeframe for the data you wish to analyze

Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)
 Date Variable:
 Beginning:
 Ending:

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

Don't use unless you want to clear time variable selections

Middle section of screen

There are **5 different selections for the date variable**; choose the type that best suits your needs

- Note – NHSN quarters and half-years are based on a **calendar year**

Specify by	Date variable	Beginning	Ending
Date	eventDate	01/01/2015	12/31/2015
Year*	evntDateYr	2015	2015
Half-year*	evntDateYH	2015H1	2015H2
Quarter*	evntDateYQ	2015Q1	2015Q4
Month	evntDateYM	01/2015	12/2015

Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)

Date Variable Beginning Ending

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

Other Selection Criteria: [HELP](#)

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

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

Options: [HELP](#)

[Print Variable Reference List](#)

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

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

Sort Page by variable:

This section allows you to filter data by selecting which variables you would like in your analysis

- The variable reference list (hyperlinked to table) is a helpful reference; provides descriptions of data variables

Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)

Date Variable Beginning Ending

Enter Data

Specify (

[Show Criteria](#)

NHSN Variable Reference List

PATIENT SAFETY COMPONENT

Variable Name	Label
abxApprove	Antibiotic Approval?
abxEducation	Stewardship Program Education?
abxFeedback	Stewardship Program Feedback?
abxMdReview	Antibiotic Audit with Feedback?
abxPharm	Pharmacist Responsible for Improving Antibiotic Use?
abxPolicy	Policy to Require Prescribers to Document Antibiotic Use in Medical Record?
abxPolicyMon	Antibiotic Use Policy Monitored?
abxStandards	Use ABX Susc Stds?
abxSteward	Antibiotic Steward?
abxStewardOthSfy	Antibiotic Steward Position - Other
abxStewardPos	Antibiotic Steward Position
abxStewardPosDesc	Antibiotic Steward Position
abxStewardSalary	Salary for Antibiotic Stewardship Activities?
abxTest	Perform Susc Testing?
abxTestLab	Where Facility Antimicrobial Susceptibility Testing Performed
abxTestLabOthSfy	Where Facility Antimicrobial Susceptibility Testing Performed - Other
abxTestPerf	Where Susc Testing Performed
abxTestPerfDesc	Where Susc Testing Performed
abxTxRecom	Antibiotic Treatment Recommendations?
abxTxRecomMon	Antibiotic Treatment Recommendations Monitored?
abxTxReview	Procedure for Antibiotic Treatment Review?
abxUse	Monitor Antibiotic Use?
abxUseDDD	Antibiotic Use Metric? Defined Daily Dose (DDD)?
abxUseDOT	Antibiotic Use Metric? Days of Therapy (DOT)?
abxUseOth	Antibiotic Use Metric? Other?

NHSN v8.3.1
March 2015

Other Options: [HELP](#)

[Print Variable Reference List](#)

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

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

Select Page by variable:

Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)

Date Variable Beginning Ending

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

Other Options:
The options displayed in this section are dependent on the type of output you are creating such as lists, graphic charts or rates

Modify Variables allows you to select which variables to show in your output report. You may add, remove, or change the order of variables depending on how you want them to appear in the final report.

Other Options: [HELP](#)

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

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

Select Page by variable:

Bottom Section of Screen

Select a time period or Leave Blank for Cumulative Time Period: [?HELP](#)

Date Variable Beginning Ending

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

Specify Other Selection Criteria: [?HELP](#)

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

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

Other Options: [?HELP](#)

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

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

Select Page by variable:

Specify Sort Variables allows you to sort data within your report (e.g. you want your report to be sorted by locations and each location sorted by date of occurrence)

- **For best results only select one or two of these sort variables!**



Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)

Date Variable: Beginning: Ending:

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

Specify Other Selection Criteria: [HELP](#)

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

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

Other Options: [HELP](#)

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

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

Select Page by variable:

You may select to display reports by a specific variable per page.

Examples:

- Reports with each individual location listed on a separate page
- All MDRO reports sorted with CDI, VRE and MRSA on separate pages



Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)

Date Variable: Beginning: Ending:

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

Specify Other Selection Criteria: [HELP](#)

Output Options:

- **Run** – quick view of your modified output before you further modify, save or export it.
- **Save As** – Option to save your modified output in your filing cabinet under the name you chose.
- **Reset** – resets your report back to the original NHSN settings
- **Back** – returns you to the output options page

Other Options: [HELP](#)

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

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

Select Page by variable:

[Print Variable Reference List](#)

Select a time period or Leave Blank for Cumulative Time Period: [HELP](#)

Date Variable Beginning Ending

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

Specify Other Selection Criteria: [HELP](#)

Output Options (continued):

Export Output Data Set- allows you to export your NHSN data to another program (i.e. Excel, Access, etc.)

- Facilitates use of data in programs you may be more familiar with for statistical analysis and graphing
- Useful for sharing data with non-NHSN users within your organization
- Allows you to pre-format and filter data before exporting

Other Options: [HELP](#)

[Print Variable Reference List](#)

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

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

Select Page by variable:





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- Alerts
- Reporting Plan
- Patient
- Event
- Procedure
- Summary Data
- Import/Export
- Analysis
 - Generate Data Sets
 - Output Options
 - Statistics Calculator
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Export Output Options

Exporting Option Line Listing - All CLAB Events: Select data export format

- delimited file (comma-separated values) (*.csv)
- delimited file (tab-delimited values) (*.txt)
- Excel spreadsheet (*.xls)
- Excel 5.0 or 7.0 (95) spreadsheet (*.xls)
- Microsoft Access table (*.mdb)
- dBASE 5.0, IV, III+, III, and II files (*.dbf)
- SAS for Windows V7/8/9 (*.sas7bdat)

Export Back

Program options for exporting your data sets to from NHSN

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

Specify Other

[Show Criteria](#)

Other Options

Modify Variable

Specify Sort Variables by Clicking: [Modify List](#)Select Page by variable:

Advanced Output Options:

Save – You can save your modifications as temporary reports to use in the future. Once you have saved your file under a unique name, you can find it both in “My Custom Output” and in the original module folder in Custom Output.

Publish – You can share the template that is currently open with other NHSN Users from your facility (only) by publishing it. They can find it in the Published Output folder.

Note – a published document can be modified and saved by another user without changing the original

Run

Save

Save As

Reset

Back

Publish

Export Out
Data Set

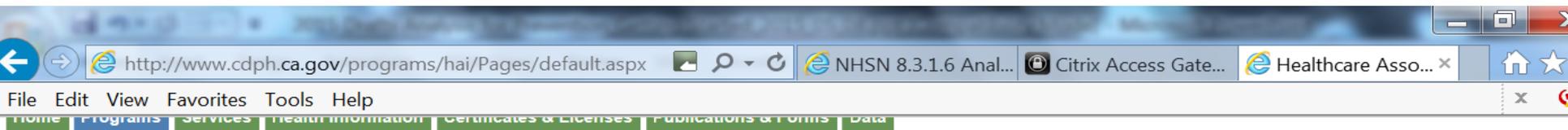
That's all there is to NHSN Analysis Basics!

Remember:

- Generate a new data set if you want to create output (ie. A report) and have entered new data
- **PRACTICE!** You are working with a copy of your data and won't harm the data you have entered into the NHSN database
- Print and use the **NHSN Analysis Quick Tips** form as a reference

HAI Program Website

www.cdph.ca.gov/programs/HAI/



en Español

→ [Su salud en su idioma](#)

Most Popular Links

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Related Links

- [California Health and Human Services Agency](#)
- [Department of Health Care Services \(includes Medi-Cal\)](#)
- [State Agencies Directory](#)

Home > Programs > **Healthcare Associated Infections Program**

Healthcare-Associated Infections (HAI) Program

The Healthcare-Associated Infections (HAI) Program is one of two programs in the [Center for Health Care Quality](#) of the [California Department of Public Health](#). The Program was created by mandate to oversee the prevention, surveillance and reporting of healthcare-associated infections in California's general acute care hospitals. HAIs are the most common complication of hospital care. It is estimated that each year there are 722,000 infections, 75,000 deaths, and 1 in 25 hospital patients at any given time has an infection contracted during the course of their hospital care. HAIs result in an estimated \$30 billion in excess healthcare costs nationally each year. Since 2010, the HAI Program has: produced annual public reports of hospital HAI data to inform choices of healthcare consumers and prompt providers to take actions to prevent infections; actively engaged in HAI prevention by performing site visits to hospitals with high infection rates, convening prevention collaboratives, and providing infection prevention education; and provided consultation and assistance to local public health for infection outbreaks that occur in healthcare facilities. The vision of the HAI Program is to eliminate HAIs for all Californians.

What You Can Do To Prevent HAI

[Me And My Family](#)



[Healthcare Providers](#)



[Public Health Partners](#)



[HAI Committee & Laws](#)



[My Hospital's Infections Map](#)



[Annual HAI Report](#)



Healthcare Associated Infections - Advisory Committee

→ [HAI Advisory Committee](#)

Antimicrobial Resistance

!New [CDPH Antimicrobial Stewardship Program \(ASP\) Toolkit 2015](#)

→ [Antimicrobial Resistance](#)

HAI Education for Healthcare Professionals

→ [Sustaining Infection Prevention Progress](#)

→ [Educational Offerings by HAI Program Staff -- 2015 Educational Calendar](#)

Resources

→ [Association of Professionals in Infection Control and Hospital Epidemiology \(APIC\)](#)

Questions?

Your more information, please contact

InfectionControl@cdph.ca.gov

or

Your HAI Liaison IP

