



"March Madness" Pre-Class Review: Getting Started with NHSN Analysis

March 2012



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

Pre-Class Review of 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

- Function provides NHSN users an opportunity to utilize the data they entered into NHSN
- Facility data in NHSN can be correlated and analyzed using the output function
- Analysis section is organized by modules (i.e. Device-associated, Procedure, Lab-id, etc.) with standard CDC reports for quick, convenient analysis of data





- NHSN Home
- 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

Expand All Collapse All

- Device-Associated Module
 - Device-Associated Module
 - Central Line-Associated BSI
 - Ventilator-Associated PNEU
 - Urinary Catheter-Associated UTI
 - Central Line Insertion Practices
 - Dialysis Events
- Procedure-Associated Module
 - MDRO/CDI Module - Infection Surveillance
 - MDRO/CDI Module - LABID Event Reporting
 - MDRO/CDI Module - Process Measures
 - MDRO/CDI Module - Outcome Measures
 - Vaccination Module



View of NHSN Analysis Options for Reports

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

- Generating a new data set creates a virtual “photocopy” of your NHSN data which is stored on the CDC database
- Each time new data are 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 - National Healthcare Safety Network

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NHSN Patient Safety Component Home Page

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



...t to access the features of the application.

ntarily provided information obtained in this surveillance system that would permit ide...
that it will be held in strict confidence, will be used only for the purposes stated, and v...
ividual, or the institution in accordance with Sections 304, 306 and 308(d) of the Publi...

...r nightly
between 12am and 6am Eastern time.



[Get Adobe Acrobat Reader for PDF files](#)



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Generate Data Sets

HELP

Generate Patient Safety Analysis Data Sets

| Date Last Generated | Action |
|---------------------|---------------------------------------------|
| Jan 19 2012 7:42PM | <input type="button" value="Generate New"/> |

Clicking the "Generate New" button will schedule your data set generation. You may log o
work in other areas of NHSN. When you return to this screen you will see a progress bar i
otherwise, you will see a time completed.

Indicates when last date data set was generated

- If you have not entered any new data into NHSN since the "Date Last Generated", 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

| Date Last Generated | Action |
|---------------------|--------------|
| Jan 19 2012 7:42PM | Generate New |

Clicking the "Generate New" button will work in other areas of NHSN. When otherwise, you will see a time compl

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 the NHSN server is busy, you will receive a message indicating that you have been placed in queue; when your turn arrives, your data set will be generated.



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NHSN Home

Reporting Plan

Patient

Event

Procedure

Summary Data

Import/Export

Analysis

Generate Data Sets

Output Options

Statistics Calculator

Surveys

Users

Facility

Group

Log Out

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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 o
work in other areas of NHSN. When you return to this screen you will see a progress bar i

- 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 Options

- When an output option is executed, the output will display in a separate browser window that can be printed or saved as a file on a local computer workstation

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



Browser navigation bar with address bar: https://sdn7.cdc.gov/nhsn/analysisrequest.do?method=ListAnalysisRequests&appModule=PS&navReset=true&optForUser=¤tmenu=menu_anal_

File Edit View Favorites Tools Help

Search | MSN | News | Celebrity | Video | Weather | Hotmail | Messenger | Games

NHSN 6.5.0.14 Analysis



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Patient Safety Component Analysis Output Options

-
- Device-Associated Module
 - Procedure-Associated Module
 - MDRO/CDI Module - Infection Surveillance
 - MDRO/CDI Module - LABID Event Reporting
 - MDRO/CDI Module - Process Measures
 - MDRO/CDI Module - Outcome Measures
 - Vaccination Module
 - Advanced
 - My Custom Output
 - Published Output

Collapsed view of the Output Options Choices

- Individual modules and output options are listed



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Patient Safety Component Analysis Output Options

- Expand All Collapse All
- Device-Associated Module
 - Device-Associated Module
 - Central Line-Associated BSI
 - Ventilator-Associated PNEU
 - Urinary Catheter-Associated UTI
 - Central Line Insertion Practices
 - Dialysis Events
 - Procedure-Associated Module
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 - MDRO/CDI Module - Outcome Measures
 - Vaccination Module

Expanded view of a module with each of its sub-categories listed

Navigation bar of Internet Explorer showing the address bar with the URL: https://sdn7.cdc.gov/nhsn/analysisrequest.do?method=ListAnalysisRequests&appModule=PS&navReset=true&optForUser=¤tmenu=menu_anal_. Below the address bar are menu options: File, Edit, View, Favorites, Tools, Help. The search bar contains 'bing'. There are also icons for Search, MSN, News, Celebrity, Video, Weather, Hotmail, Messenger, and Games. A Favorites section is visible below the search bar.



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Patient Safety Component
Analysis Output Options

- Expand All Collapse All
- Device-Associated Module
 - All Device-Associated Events
 - Central Line-Associated BSI
 - CDC Defined Output
 - Custom Output
 - Ventilator-Associated PNEU
 - Urinary Catheter-Associated UTI
 - Central Line Insertion Practices
 - Dialysis Events
 - Procedure-Associated Module
 - MDRO/CDI Module - Infection Surveillance
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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"



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Patient Safety Component Analysis Output Options

Expand All Collapse All

- Device-Associated Module
 - All Device-Associated Events
 - Central Line-Associated BSI
 - CDC Defined Output
 - Line Listing - All CLAB Events
 - Frequency Table - All CLAB Events
 - Bar Chart - All CLAB Events
 - Pie Chart - All CLAB Events
 - Rate Table - CLAB Data for ICU-Other
 - Run Chart - CLAB Data for ICU-Other
 - Rate Table - UCAB/CLAB Data for NICU
 - Run Chart - UCAB/CLAB Data for NICU
 - Rate Table - CLAB Data for SCA

- Run Modify

CDC Defined Output

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



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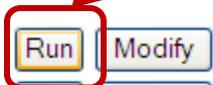
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 - Bar Chart - All CLAB Events
 - Pie Chart - All CLAB Events
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 - Run Chart - CLAB Data for ICU-Other
 - Rate Table - UCAB/CLAB Data for NICU
 - Run Chart - UCAB/CLAB Data for NICU
 - Rate Table - CLAB Data for SCA



• Choosing **“Run”** will create a standardized output utilizing ALL data in system for that output (no filters will be applied to data for date, location ,etc.)
Useful for quick view of data or to see variables



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 - Rate Table - CLAB Data for SCA

- | | |
|-----|--------|
| Run | Modify |

• Choosing "Modify" will move you to the modify screen which allows you to adjust parameters, choose variables, export data, etc.



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- | | |
|-----|--------|
| Run | Modify |

To enter report modification screen
• Select "Modify"





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Modify Output Screen

Analysis Data Set: CLAB_Events [Export Analysis Data Set](#)

Line Listing

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

Modify Attributes of the Output:

Last Modified On: 01/19/2012

Output Type: Line Listing

Output Name: Line Listing - All CLAB Events

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

Select output format:

Output Format: HTML

Use Variable Labels



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Line Listing

Analysis Data Set: CLAB_Events

Modify Attributes of the Output:

Last Modified On: 01/19/2012

Output Type: Line Listing

Output Name: Line Listing - All CLAB Events

Output Title: Line Listing for All Central Line-Associated BSI Events

Select output format:

Output Format: HTML

Use Variable Labels

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

Analysis Data Set: CLAB_Events

Modify Attributes of the Output:

Last Modified On: 01/19/2012

Output Type: Line Listing

Output Name: Line Listing - All CLAB Events

Output Title: Line Listing for All Central Line Associated BSI Events

Select output format:

Output Format:

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



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 report 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>



Browser navigation bar showing address: <https://sdn7.cdc.gov/nhsn/analysisrequest.do>

Search bar with Bing logo and search button.

Navigation icons: Search, MSN, News, Celebrity, Video, Weather, Hotmail, Messenger, Game.

Browser tabs: NHSN 6.5.0.14 Analysis

Use Variable Labels

Enter the timeframe for the data you wish to analyze

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

Date Variable Beginning Ending

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

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

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 | 01/01/2009 | 12/31/2009 |
| Year* | evntDateYr | 2009 | 2009 |
| Half-year* | evntDateYH | 2009H1 | 2009H2 |
| Quarter* | evntDateYQ | 2009Q1 | 2009Q4 |
| Month | evntDateYM | 01/2009 | 12/2009 |

Other Options:

[Print variable Reference List](#)

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"/> |

Other Options:

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

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

Select Page by variable:

[Print Variable Reference List](#)

Run Save As Reset Back Export Output Data Set

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



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

Specify Other Selection Criteria:

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

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

Other Options:

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

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



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

Specify Other Selection Criteria:

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

| | | | | |
|--|--|--|--|--|
| | | | | |
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| | | | | |

Other Options:

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

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!**



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

Specify Other Selection Criteria:

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

| | | |
|--|--|--|
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| | | |
| | | |
| | | |

Other Options:

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

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

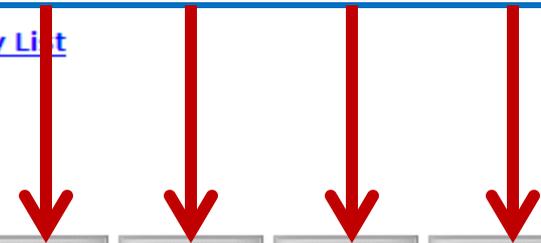
Examples:

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



Enter Date variable/Time period at the time you click the Run button**Specify Other Selection Criteria:**[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)**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

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

Enter Date variable/Time period at the time you click the Run button**Specify Other Selection Criteria:**[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)**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

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



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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)
- 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 from NHSN

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

Specify Other Set

[Show Criteria](#)

Advanced Output Options:

Save – Once you have saved your file under a unique name, in a designated file folder on you computer, you can “Save” the report with the modifications

Publish – Once you have “Saved” in your Custom Options, “Publish” allows other NHSN users at your facility to use the report

Note – a published document can only be modified by the original publisher

Other Options

Modify Variable

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

Select Page by variable:



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** as a reference

HAI Program Website

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

Healthcare Associated Infections (HAI) Program - Windows Internet Explorer

http://www.cdph.ca.gov/programs/hai/Pages/default.aspx

Healthcare Associated Infections (HAI) Program

- Birth, Death, & Marriage Certificates
- Licensing and Certification
- Pertussis (Whooping Cough)
- WIC
- Quick Links**
- About Us
- Decisions Pending & Opportunities for Public Participation
- Diseases & Conditions
- Job Opportunities
- Local Health Services
- Multimedia
- Newsroom
- Public Availability of Documents
- Related Links**
- California Health and Human Services Agency
- Department of Health Care Services (includes Medi-Cal)
- State Agencies Directory

Healthcare Associated Infections (HAI) Program

The Healthcare Associated Infections (HAI) Program is one of three programs in the [Center for Health Care Quality](#) of the [California Department of Public Health](#). The Program is responsible for the surveillance and prevention of infections in California's general acute care hospitals as mandated by Senate Bills 739, 1058, and 158. The Program was authorized in December 2009.

HAI's are the most common complication of hospital care and are listed among the top ten leading causes of death in the United States. It is estimated that each year there are more than 240,000 infections, 13,500 deaths, and \$3.1 billion dollars in excess healthcare costs in acute care hospitals alone. Based on this data it is estimated that approximately 240,000 patients develop infections in California hospitals each year at an annual cost of about \$600 million. The vision of the HAI Program is to eliminate HAI's for California patients.

With the assistance of a grant from the American Recovery and Reimbursement Act (ARRA) of 2009, Program staff are actively involved in assisting hospitals in infection surveillance, prevention and reporting procedures. The HAI Program is advised by a committee of healthcare professionals and public advocates from throughout California who recommend methods for publicly reporting cases of hospital acquired infections and process measures for preventing the spread of HAI's based on national guidelines.

Program Information

- Contact The HAI Program

Resources for Infection Prevention Programs

- Legislation and Regulations
Includes AFL 10-27 (new guidelines for ESP in long-term care facilities)
- Current Reporting Forms
- Healthcare Associated Infections and Infection Control Guidelines

Public Reporting of Hospital Data -- NO DATA POSTED AT THIS TIME

The California Antimicrobial Stewardship Program Initiative

- The California Antimicrobial Stewardship Program Initiative (CASPI)

The Healthcare Associated Infections Advisory Committee

- HAI Advisory Committee
Link to public website

Resources

- CDC National Healthcare Safety Network (NHSN)
- CDC Infection Control Guidelines
- Association of Professionals in Infection Control and Hospital

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Questions?

Your more information, please contact

InfectionControl@cdph.ca.gov

or

Your HAI Liaison IP

