National Center for Emerging and Zoonotic Infectious Diseases



Diving Into Dialysis Data: NHSN Dialysis Component Analysis & Report Options

Tamara Hoxworth, M.S., Ph.D.,

Centers for Disease Control and Prevention
National Center for Emerging and Zoonotic Infectious Diseases
Division of Health Quality Promotion
Surveillance Branch

July 2024

Presentation Overview

- Why are NHSN data important?
- How are NHSN data used and by whom?
- How can YOU use NHSN data?
 - * NHSN Analysis and Report Tools

Why Collect NHSN Data?

- Data reflect healthcare practices that impact patient safety and health
- Measures like bloodstream infections (BSI) and local access site infections (LASI) can be indicators of healthcare practice and patient health
- Specific fields we collect like access type and facility/patient characteristics are important to study
- That's why these data are critical to monitor and examine

How are NHSN Data Used?

- CMS for quality incentive program (QIP)
- CDC for national surveillance reports
- studies to better understand dialysis events and practices
- Corporations use data to assess performance at the organization and facility level
- State and local health depts. and ESRD networks use data to monitor performance and practice in jurisdictions, or at the facility and organization level
- YOU can use the data too, to examine performance at the jurisdiction/facility-level
- We'd like to show you how!

How Can you Examine Your Own Data?

NHSN Dialysis Analysis & Reports Function

NHSN reports can be run anytime to review data

Standard reports can be run as default or modified

Different reports are available:

- NHSN can summarize what's been reported & calculate infection rates
- Report types include line listings, frequency tables, bar charts, pie charts, rate tables, run charts

Use reports to:

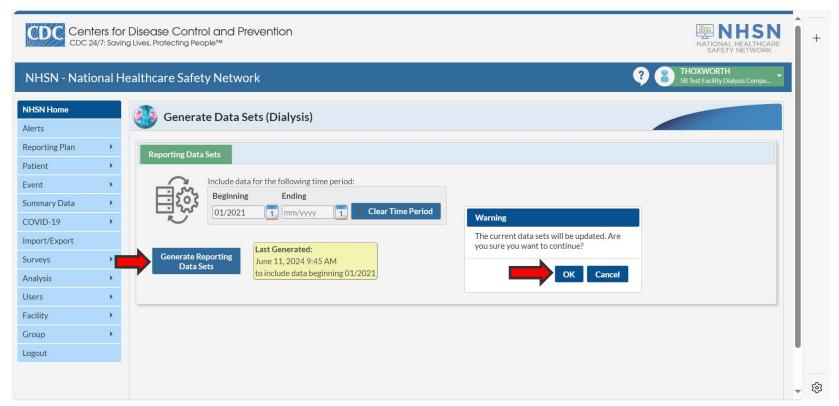
- Track infections
- Inform infection prevention practices
- Identify areas for quality improvement

Running Reports: 3 Steps



- NHSN includes reports that jurisdictions/ facilities can run anytime to examine data
- There are many canned reports to use without modifying anything (default)
- Or you can modify the report to suit your needs, like filter for time period, include/ exclude certain fields/ variables & more
- So, get in there & muck around....you won't break anything!

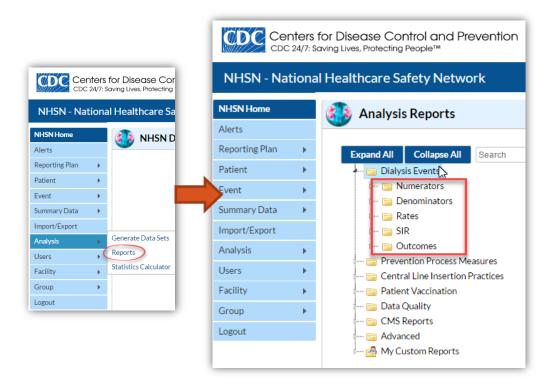
Step 1 - Generate New Data Sets



Notes on Generating Data Sets

- Data sets include your jurisdiction's data that NHSN uses to run reports
- Generating new data sets allows capture of all your jurisdiction's data so reports reflect up-to-date, complete data
- Each user has their own data sets based on what they have access to
- It may take a while (generally few minutes) to generate, but you can work elsewhere in NHSN or minimize window and work on external tasks while you wait

Step 2 – Select a Report



- Once data sets are generated, select 'Reports' from the navigation bar
- Open "Dialysis Event" folder to find report templates

Step 3 – 'Run' the Report



Modifying Reports – Optional

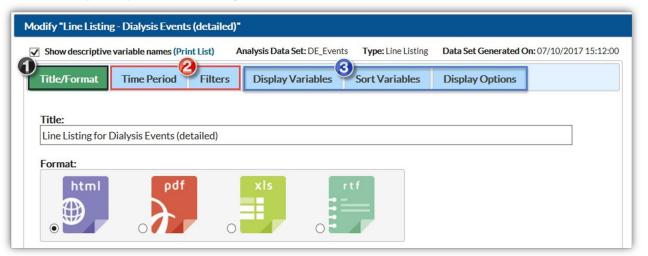
- Two Common modifications:
 - Filter the data, so the report includes desired information only
 - Customize which variables are included and in what order
- Click the 'Modify Report' button next to the template you would like to change



Modify Screen

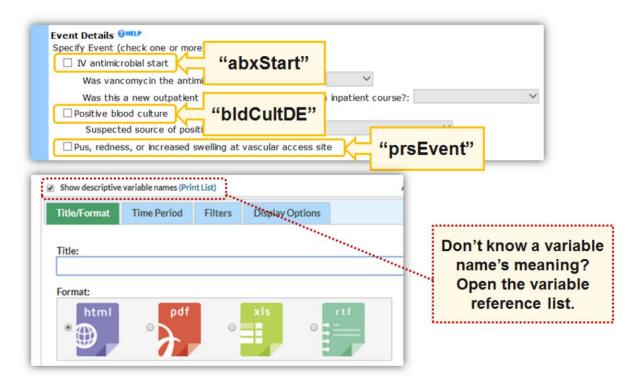
The modify screen can be described in three main sections:

- Report formatting
- Data filters
- 3. Variable display and organization



Variable Reference List

Data collected or calculated in NHSN are assigned variable names:



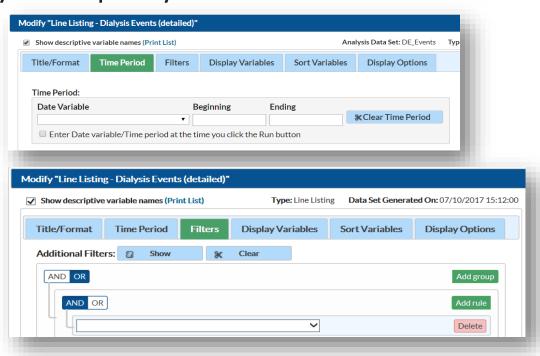
Modify the Report – Filter Data

The second section allows you to specify which data are included

in the report

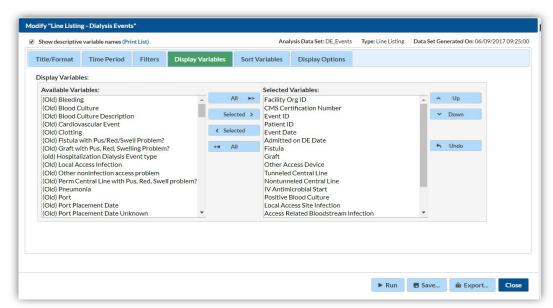
Filter by Time Period

Specify date filters



Modify Report – Change Variable Display & Order

- Selected Arrow buttons move variables between 'Available Variables' and 'Selected Variables' column
- Use 'Up' and 'Down' buttons to change the display order



Display & Save, Export Data & Close

- When modifications are complete, click the 'Run' button to determine if report is as desired
- Click 'Save...' to save modified report for future use
 - Must change the "Report Name" to save
- Click 'Export...' to export modified dataset to use with other analysis software (e.g., Excel, SAS)
- Click 'Close' to close the Modify screen without running, saving or exporting reports



Dialysis Analysis & Reports Resources

<u>Dialysis Roadmap | NHSN Roadmap | NHSN | CDC</u> (Training Resources)

Dialysis Component Analysis Manual (cdc.gov)

Steps to Review NHSN Dialysis Event Surveillance Data (cdc.gov)

NHSN Dialysis Event Bloodstream Infection (BSI) Report Quick Reference (cdc.gov)

Guide to the NHSN Dialysis Event Surveillance BSI SIR Measure (cdc.gov)

NHSN Report for CMS ESRD QIP (cdc.gov)

Analysis Resources | NHSN | CDC

NHSN ServiceNow Portal (https://sams.cdc.gov)

For any questions or concerns, contact the NHSN Helpdesk

- NHSN-ServiceNow to submit questions to the NHSN Help Desk.
- Access new portal at https://servicedesk.cdc.gov/nhsncsp.
- If you do not have a SAMS login, or are unable to access ServiceNow, you can still email the NHSN Help Desk at nhsn@cdc.gov.

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

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

