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

Tamara Hoxworth, M.S., Ph.D., CDC/NCEZID/DHQP/SB (CTR)

November 20, 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

- Research 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
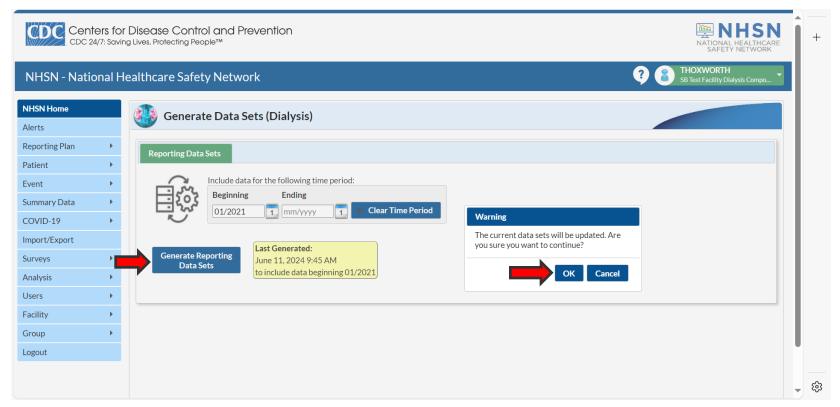- Identify areas for quality improvement

Recommend monthly/quarterly reviews of data to ensure data quality, detect trends & provide feedback 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

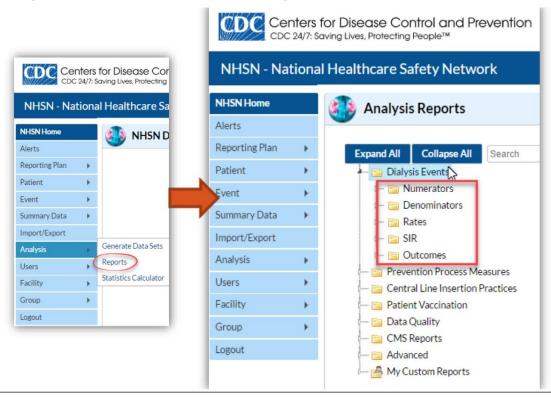- So, get in there & muck around….you won't break anything!

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 else-where 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
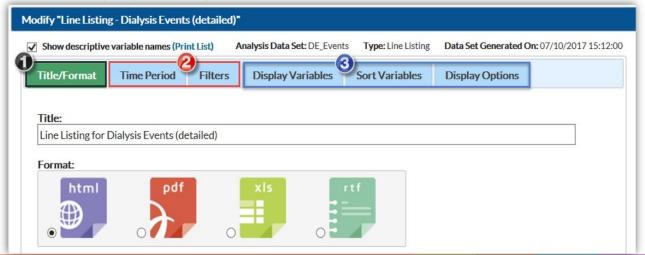
Modifying Reports – Optional

- **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**
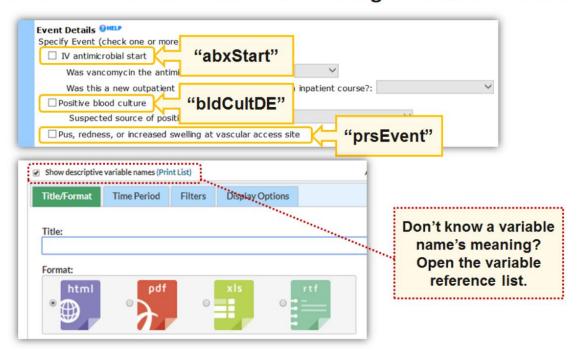
Modify Screen

The modify screen can be described in three main sections:

1. Report formatting
2. 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 data filters

Modify Report – Change Variable Display & Order

- Arrows move variables between 'Available Variables' and 'Selected Variables' columns

- 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.**

▶ Run   🖫 Save…   📑 Export…   **Close**

Dialysis Analysis & Reports Resources

Dialysis Roadmap | NHSN Roadmap | NHSN | CDC (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)

Thank you!