

BAR CHARTS

Last Updated: January 2024

Description

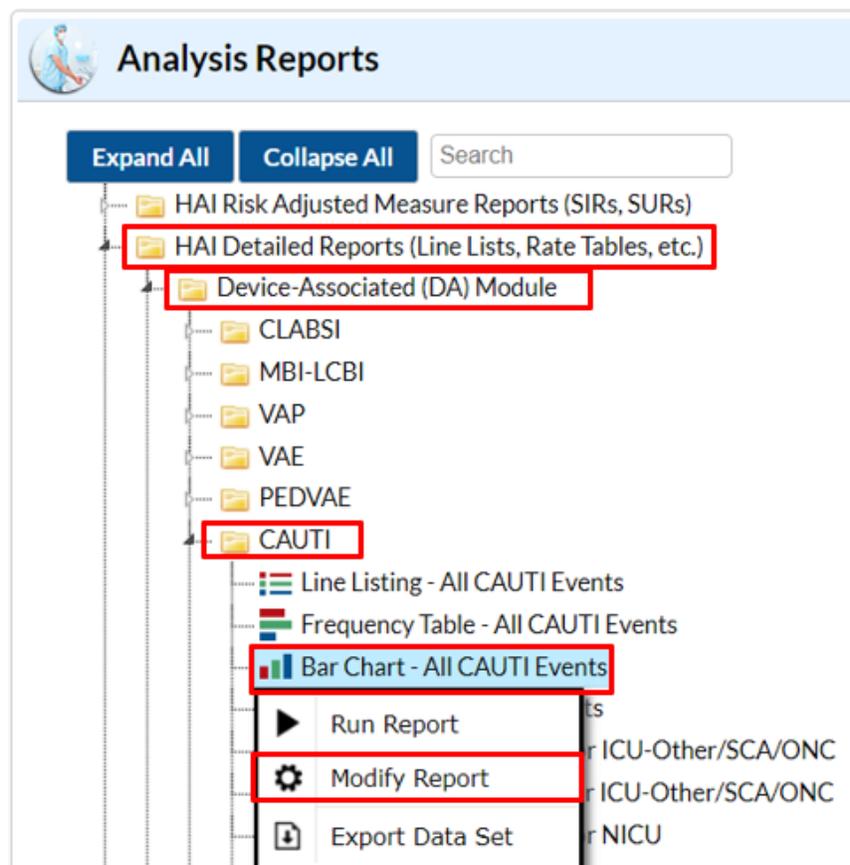
The NHSN application allows for various options to analyze and visualize data. Within the NHSN Analysis Reports section, users can generate bar charts as graphical representations of data where the length or height of the bars represents counts of records meeting the criteria. The bar charts can only be produced as an HTML report. Therefore, the results will appear in a pop-up window in your browser.

Example

Bar charts can be created to visualize the occurrence of various Healthcare-Associated Infections (HAIs) across different criteria. In the following example, a bar chart is generated to illustrate the distribution of Device-Associated (DA) events, specifically Catheter-Associated Urinary Tract Infection (CAUTI) events. While this example focuses on CAUTI events, the same steps can be replicated for different DA event types, such as Central Line-Associated Bloodstream Infection (CLABSI) and Ventilator-Associated Event (VAE).

Accessing Report

To access the report, assuming that analysis datasets have already been generated, select Analysis>Reports from the left navigation menu in the NHSN application. Then, navigate through the following folders in the treeview: HAI Detailed Reports (Line Lists, Rate Tables, etc.)> Device-Associated (DA) Module>CAUTI>Bar Chart-All CAUTI Events.



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Report Modification

Modifications to this report are based on the example. The basic modification guidelines can be found here: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/howtomodifyreport.pdf>

The 'Filters' tab enables you to filter or restrict the types of data that will appear in the analysis report. Here, the bar chart will include events from 'eventType'=UTI-Urinary Tract Infection.

The screenshot shows the 'Filters' tab selected in a report modification interface. The 'Additional Filters' section contains a filter rule: 'eventType' equal to 'UTI - Urinary Tract Infection'. The filter rule is highlighted with a red box. Buttons for 'Show', 'Clear', 'Add group', 'Add rule', and 'Delete' are visible.

The 'Display Options' tab enables you to organize your report based on specific criteria. The stratification variable is used to categorize data into distinct segments. In this example, there is not a stratification variable selected. The chart variable, 'locationType,' represents the distribution of the location categories; separate bars will be displayed for each value of the chart variable.

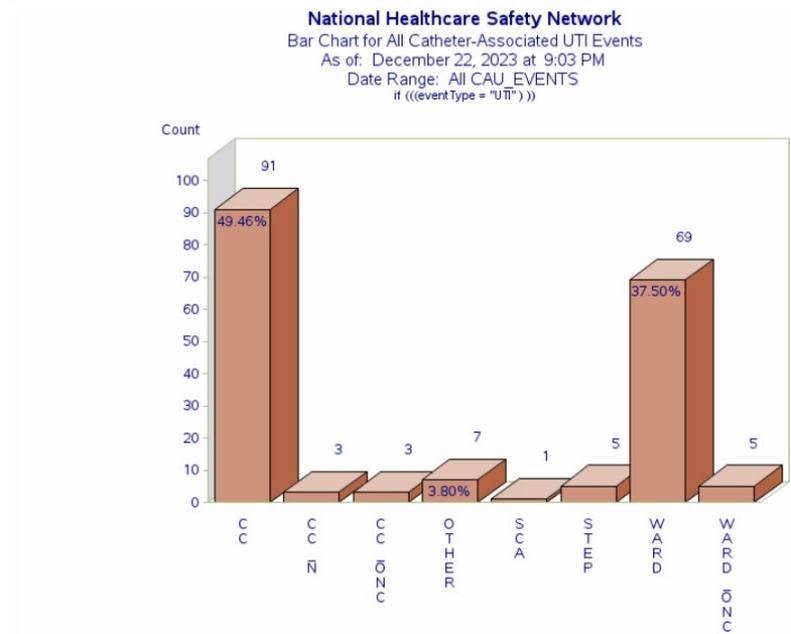
The screenshot shows the 'Display Options' tab selected in a report modification interface. The 'Bar Chart Options' section shows 'Chart Variable' set to 'locationType' and 'Stratification Variable' set to an empty dropdown. Other options include 'Orientation of Bars' (3D Vertical), 'Placement of the Percent' (Inside), and 'Placement of the Value' (Outside). A 'Page by' dropdown is also visible.

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Report Results and Interpretation

- The count is the total number of events and is represented by the height of the bars (vertical axis).
- At the top of each bar, the total count of all CAUTI events in each location is displayed.
- The percentage shown for each bar represents a proportion of all events (n=184) on this chart that are within the specific bar.
- Example: Of all reported CAUTI events, 49.46% (91/184) occurred within ICU locations, as designated by the “CC” (critical care) location type.



Data contained in this report were last generated on December 19, 2023 at 1:04 PM to include data beginning January 2005 through November 2023. Beginning January 2015, the CAUTI definition excludes all non-bacterial pathogens and therefore, the number of CAUTIs reported in 2015 and forward may be lower than in previous years.

Additional Resources

Introduction to NHSN Analysis: <https://www.cdc.gov/nhsn/pdfs/training/2022/Introduction-Analysis-508.pdf>