

How to Export a Modified Analysis Data Set

Guidance for the Patient Safety Component

February 2024

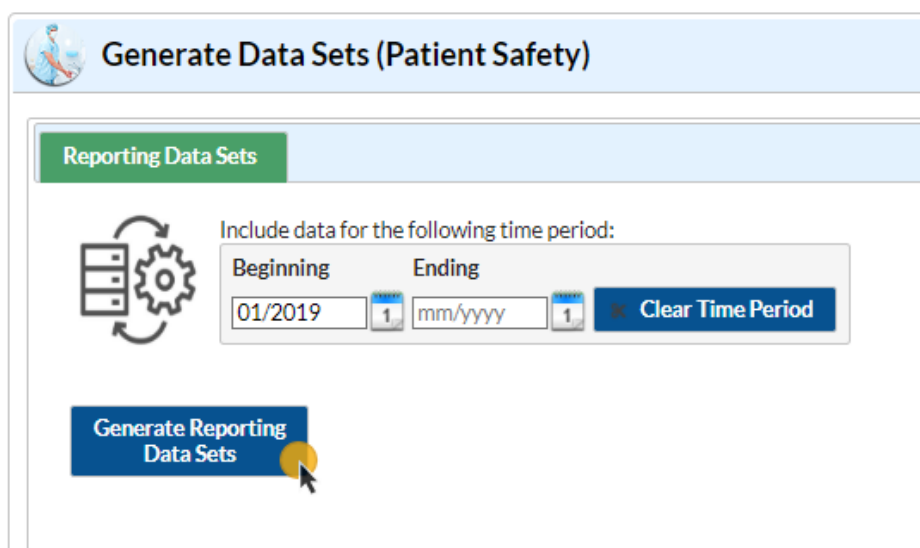
This quick reference guide outlines the basics of exporting an entire analysis data set or a modified analysis data set. In the example outlined below, a dataset containing catheter-associated urinary tract infection (CAUTI) rate data is modified and exported.

Background

NHSN contains several analysis data sets used as the basis for documenting, organizing, and analyzing data entered into NHSN. Each user who has rights to access NHSN data for a facility or group has his/her own analysis data sets. When running NHSN Analysis Reports, data is pulled from one or more of these NHSN analysis data sets. Users have the option to run default analysis reports, but additionally, each report can be modified using available selection criteria to meet a group or facility's analytical needs. However, users may also wish to use their NHSN generated analysis data sets to create external reports, in conjunction with data automations outside of NHSN, or to perform other analyses with their NHSN data.

Generating New Analysis Data Sets

Generating new data sets is the first step to exporting an entire analysis data set or a modified analysis data set. When analyzing data in NHSN, users are using a copy of the facility or group's data and not the live database of data. Therefore, it's extremely important that users generate data sets before beginning the export process. This ensures that the data contained within the analysis data sets are up-to-date.



Generate Data Sets (Patient Safety)

Reporting Data Sets

Include data for the following time period:

Beginning 01/2019 1 Ending 1 mm/yyyy 1 **Clear Time Period**

Generate Reporting Data Sets

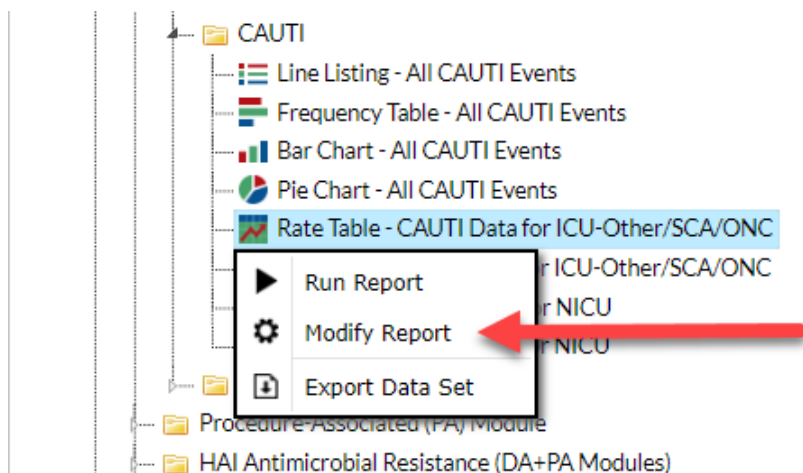


**Centers for Disease Control
and Prevention**
National Center for Emerging and
Zoonotic Infectious Diseases

Modifying an Analysis Report Data Set for Export

To begin, select “Analysis” on the NHSN home screen. Then, select “Reports” from the dropdown menu to open the Analysis Reports page. Expand the folder of the desired analysis report. This example uses the “bs2_CLAB_RatesICU_SCA” analysis data set, which can be found by navigating through the following folders: *HAI Detailed Reports (Line Lists, Rate Tables, etc.) > Device-Associated (DA) Module > CAUTI > Rate Table—CAUTI Data for ICU-Other/SCA/ONC*. After locating the desired analysis data set, follow the steps below:

1. Select the desired analysis report. This example uses “Rate Table – CAUTI Data for ICU-Other/SCA/ONC”. From the dropdown menu, choose “Modify Report”. Do not choose “Export Data Set” at this point. Choosing “Export Data Set” exports the complete, unmodified data set.



2. On the Modify screen, modify the report using the Time Period, Filters, and Display Options tabs. The Time Period tab allows users to choose a beginning and end date for the data included in the analysis data set. On this tab, month (summaryYM), quarter (summaryYQ), half year (summaryYH), and year (summaryYR) are available to choose as the Date Variable. In this example, the time period has been set to 2023 quarter 1 (Q1).

Title/Format	Time Period	Filters	Display Options
Time Period:			
Date Variable	Beginning	Ending	<input type="button" value="Clear Time Period"/>
summaryYQ ▼	2023Q1	2023Q1	
<input type="checkbox"/> Enter Date variable/Time period at the time you click the Run button			



**Centers for Disease Control
and Prevention**
National Center for Emerging and
Zoonotic Infectious Diseases

3. Use the Filters tab to modify the report to meet specific requirements. Users can add groups and rules by pressing the green “Add group” and “Add rule” buttons on the Filters tab.

The screenshot shows the 'Filters' tab in a software interface. At the top, there are four tabs: 'Title/Format', 'Time Period', 'Filters' (which is active), and 'Display Options'. Below the tabs, there are 'Additional Filters:' buttons for 'Show' and 'Clear'. The main area contains a filter rule structure with 'AND' and 'OR' buttons. On the right side, there are two green buttons: 'Add group' and 'Add rule', with red arrows pointing to them. A 'Delete' button is also visible at the bottom right of the filter rule area.

Rules that can be applied using the “Add group” button are available in a dropdown menu. After selecting “Add group”, choose which rules you would like to apply to the data set. This will filter the data included in the analysis data set. Check the “Show descriptive variable names” box above the Modify screen tabs to show more descriptive names for the variables.

The image shows two side-by-side screenshots of the 'Filters' tab. The left screenshot shows a dropdown menu open, displaying a list of variable names: CathDU, CAUCount, CAURate, CCN, location, locationType, locCDC, locLabel, medtype, numpatdays, numSampPatDays, numSampUCathDays, numucathdays, OID, orgID, OrgID_CL, sampMethUCathDays, and summaryYH. A red arrow points from this menu to the right screenshot. The right screenshot shows the same interface, but the dropdown menu is expanded to show a longer list of descriptive variable names: CA UTI Count, CA UTI Rate, Cath Util Ratio, CAU Plan?, CDC Location, CMS Certification Number, Facility Org ID, Location, Location Label, Location Type, OID of Facility, OrgID_CL, Patient Days, Sample Number of Patient Days, Sample Number of Urinary Catheter Days, Sampling Protocol Used for Urinary Catheter Days?, Summary Year/Month, and Summary~Yr. Above the tabs in the right screenshot, there is a checkbox labeled 'Show descriptive variable names (Print List)' which is checked.

The Filters tab can be very useful when a facility wants to limit an analysis data set based on a set of known criteria. For this example, if a facility would like to limit the analysis data set so that it only includes in-plan data, the facility would use the Filters tab to set “utiplan” (or “CAUPlan?”) equal to “Y”.



**Centers for Disease Control
and Prevention**
National Center for Emerging and
Zoonotic Infectious Diseases

☒ Show descriptive variable names [\(Print List\)](#) Analysis Data Set: bs2_CAU_RatesICU_SCA

Title/Format	Time Period	Filters	Display Options
Additional Filters: <input type="button" value="Show"/> <input type="button" value="Clear"/>			
<div>AND OR</div> <div> <div>AND OR</div> <div>CAU Plan? equal Y</div> </div>			

- After all modifications have been made, select “Export” at the bottom right-hand corner of the Modify screen. All modifications made to the report will be applied to the exported analysis data set.



- In the Export Analysis Data Set window, choose “Export Analysis Data Set using Modifications.” Alternatively, choosing “Export Entire Analysis Data Set” will export the entire unmodified data set.

Export Analysis Data Set

Analysis Data Set: bs2_CAU_RatesICU_SCA

Export Format: delimited file (comma-separated values) (*.csv) ▼

☐ Export Entire Analysis Data Set
☒ Export Analysis Data Set using Modifications

The export format for the analysis data set can also be selected in this window.

Export Analysis Data Set

Analysis Data Set: bs2_CAU_RatesICU_SCA

Export Format: delimited file (comma-separated values) (*.csv) ▼

- delimited file (comma-separated values) (*.csv)
- delimited file (tab-delimited values) (*.txt)
- Excel spreadsheet (*.xlsx)
- Excel spreadsheet (*.xls)
- SAS for Windows V7/8/9 (*.sas7bdat)
- JavaScript Object Notation - zipped (*.json)
- JavaScript Object Notation (*.json)



**Centers for Disease Control
and Prevention**
National Center for Emerging and
Zoonotic Infectious Diseases

Additional Resources

NHSN Analysis Quick Reference Guides

<http://www.cdc.gov/nhsn/PS-Analysis-resources/reference-guides.html>

NHSN Analysis Trainings

<http://www.cdc.gov/nhsn/Training/analysis/index.html>

NHSN Help Desk

nhsn@cdc.gov



**Centers for Disease Control
and Prevention**
National Center for Emerging and
Zoonotic Infectious Diseases