

NATIONAL HEALTHCARE SAFETY NETWORK EXPORTING A MODIFIED ANALYSIS DATA SET

Description

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 datasets. 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. This quick reference guide will outline the basics for exporting an entire analysis data set or a modified analysis data set. In the example outlined below, an inpatient rehabilitation facility (IRF) Catheter-associated urinary tract infection (CAUTI) analysis data set is modified to reflect only data that would be reported to CMS as part of the IRF Quality Reporting Program.

Generate New Analysis Data Sets

Generating new data sets is the first step to exporting an entire 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

Generate Patient Safety Analysis Data Sets

Datasets generated will include data for the 3 most recent full calendar years up until today's date for the Patient Safety Component. To include all years check the box below.

For all other components, datasets generated will include all years. Note that any analysis options you run will be limited to the time period shown on the date range bar.

Include all data reported to NHSN for this component within the parameters of rights conferred.



Generate New

Last Generated: Oct 20 2017 1:27PM

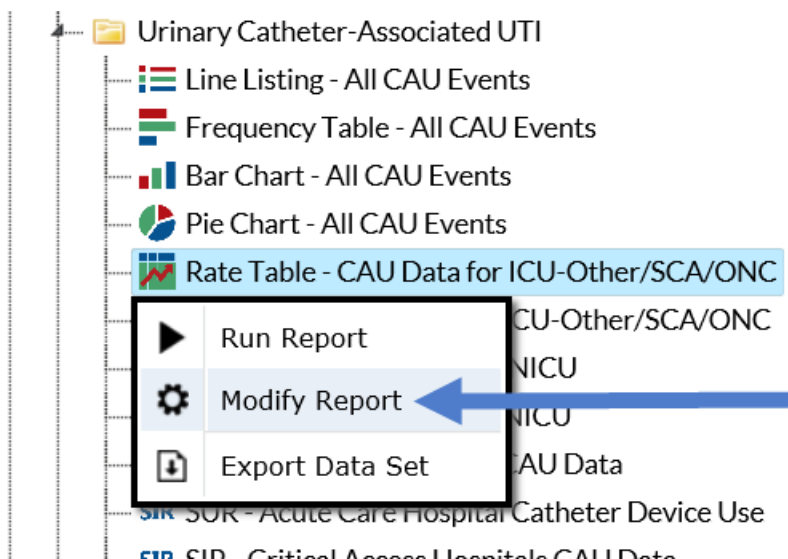


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Modifying an Analysis Report Data Set for Export

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 HAI type to be exported. For example, users seeking to export a modified version of the IRF “bs2_CLAB_RatesICU” analysis data set should expand the “Device-Associated (DA) Module” folder and the “Urinary Catheter-Associated UTI” folder. After locating the desired Analysis Data Set, follow the steps below.

1. Select the desired analysis report. This example uses “Rate Table – CAU 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” now exports the complete, unmodified data set.



2. On the Modify screen, modify the report using the Time Period, Filters, and Display Options tab. The “Time Period” tab allows user to choose a beginning and end date for the data included in the analysis data set. The Date Variable can be modified by months (summaryYM), quarters (summaryYQ), half years (summaryYH), or years (summaryYR). Use summaryYQ to choose a quarter or quarters that correspond to a specific CMS Reporting period.

The screenshot shows the 'Modify Report' screen with the 'Time Period' tab selected. The 'Date Variable' is set to 'summaryYQ', 'Beginning' is '2017Q1', and 'Ending' is '2017Q1'. A 'Clear Time Period' button is visible. Below the input fields, there is a checkbox labeled 'Enter Date variable/Time period at the time you click the Run button'.

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- Use the “Filters” tab to modify the report to meet specific requirements or omit unrequired data from the modified analysis data set. Users can add groups and rules by pressing the green “Add group” and “Add rule” buttons on the filters screen.

The screenshot shows the 'Filters' tab in the software interface. At the top, there are tabs for 'Title/Format', 'Time Period', 'Filters' (which is active), and 'Display Options'. Below these tabs, there is a section for 'Additional Filters' with 'Show' and 'Clear' buttons. The main area contains a hierarchical structure of filter groups and rules, with 'AND' and 'OR' operators. On the right side, there are three buttons: 'Add group' (green), 'Add rule' (green), and 'Delete' (red). Blue arrows point from the 'Add group' and 'Add rule' buttons towards the filter structure.

- 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 interface. The left screenshot has the checkbox 'Show descriptive variable names (Print List)' unchecked. A dropdown menu is open, showing a list of variable names: CathDU, CAUCount, CAURate, CCN, location, locationType, locCDC, locLabel, medtype, numpatdays, numSampPatDays, numSampUCathDays, numucathdays, OID, orgID, sampMethUCathDays, summaryYH, summaryYM, summaryYQ, summaryYr, and utiPlan. A blue arrow points from the checkbox to the dropdown menu. The right screenshot has the checkbox checked. The dropdown menu is open, showing a more detailed list of 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, Patient Days, Sample Number of Patient Days, Sample Number of Urinary Catheter Days, Sampling Protocol Used for Urinary Catheter Days?, Summary Year/Month, Summary--Yr, Summary--Yr/Half, Summary--Yr/Qtr, Type of Affiliation, and Urinary--Catheter Days. A blue arrow points from the checkbox to the dropdown menu.

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, a rehabilitation facility is using the rate table report to create an analysis data set that only includes in-plan locations that should be reported to CMS. Rehabilitation facilities are required to report adult and pediatric medical wards for CAUTI data.

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Therefore, the facility would use the “Filters” tab to change the included data to include only data from locations where “utiplan” equals “Y”. The descriptive variable names indicate that this means only include data from locations where “CAUTI Plan?” equals “Yes”.

Modify "SIR - CAU Data for IRFQR"

Show descriptive variable names ([Print List](#)) Analysis Data Set: bs2_CAU_RatesIRF

Title/Format | Time Period | **Filters** | Display Options

Additional Filters:

AND OR

AND OR

utiPlan equal Y

Modify the new analysis data set to meet CMS Requirements using the CMS Report

Modify "Rate Table - CAU Data for ICU-Other/SCA/ONC "

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

Title/Format | Time Period | **Filters** | Display Options

Additional Filters:

AND OR

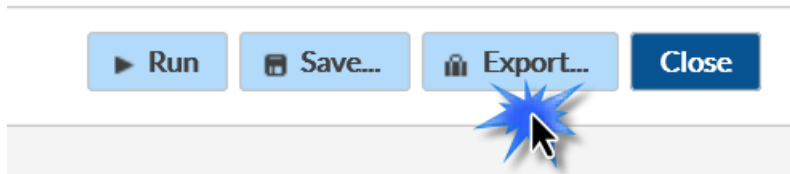
AND OR

utiPlan equal Y

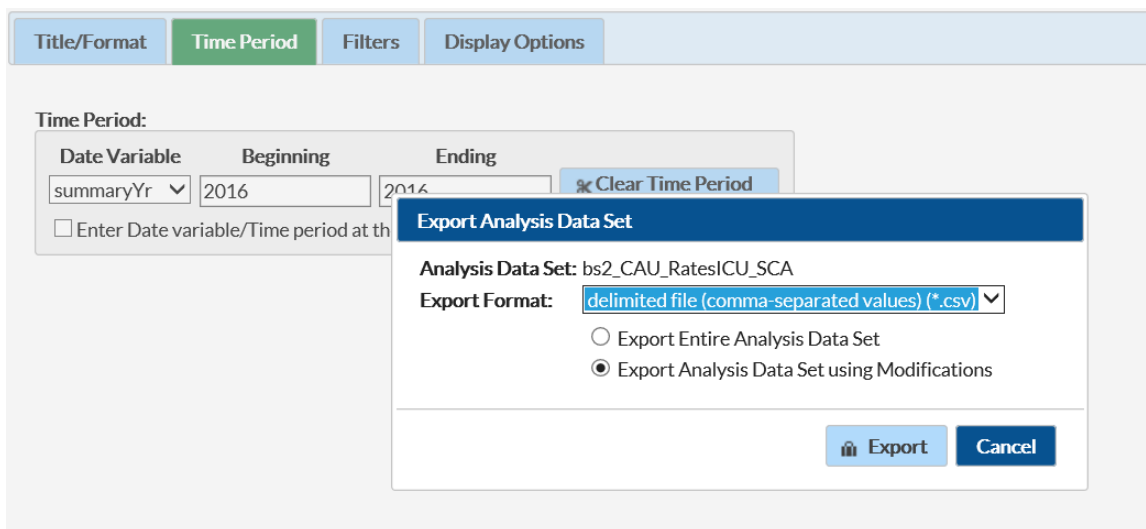


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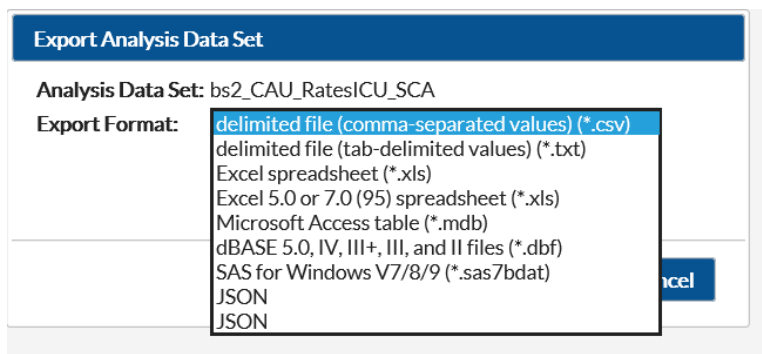
- After all modifications have been made, select “Export” at the bottom right hand corner of the modify screen. All modifications made to the report will be applied to the analysis data set.



- 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.



- The export format for the analysis data set can also be selected from here as well.



Questions can be directed to nhsn@cdc.gov.

