

AU Line List

Description

The line list is an organized, detailed list of each record entered into NHSN, which can be used by both facilities and groups.

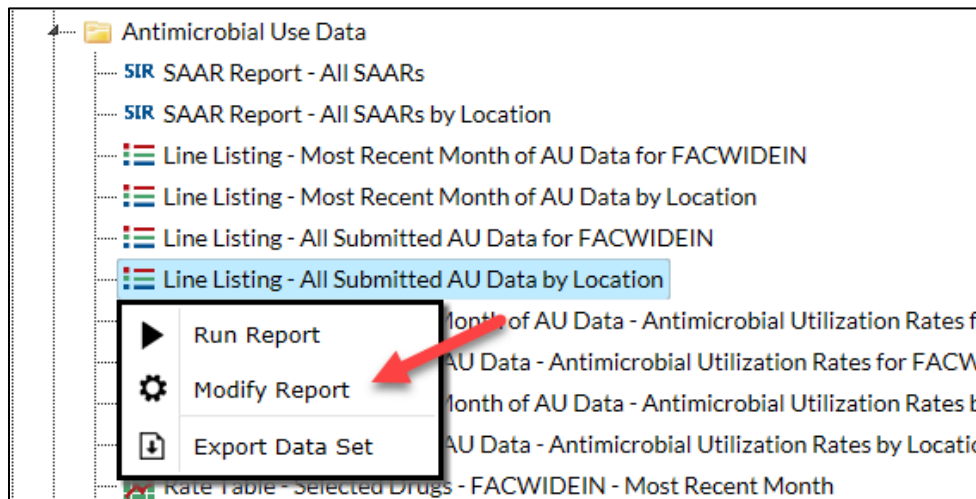
For a more basic explanation of the NHSN modification screen, refer to this document:

<https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/howtomodifyreport.pdf>.

Example

Suppose you are interested in looking at all antimicrobial prescribing in the first quarter of 2015 that occurred in the adult Medical Ward (MEDWARD). You would like to produce a line list that includes location, month, and information on each antimicrobial (total antimicrobial days, number of days present), as well as the route of administration (IV count, IM count, digestive count, and respiratory count). You would like the line list sorted by antimicrobial.

You have several report options to choose to generate a line listing. After generating data sets, to run a line list report, click Analysis > Reports > Antimicrobial Use and Resistance Module > Antimicrobial Use Data. After selecting the report, in this case, “Line Listing – All Submitted AU Data by Location,” a pop-up box will appear that will allow you to “Run Report,” “Modify Report,” or “Export Data Set.” Select “Modify Report” to customize your report.



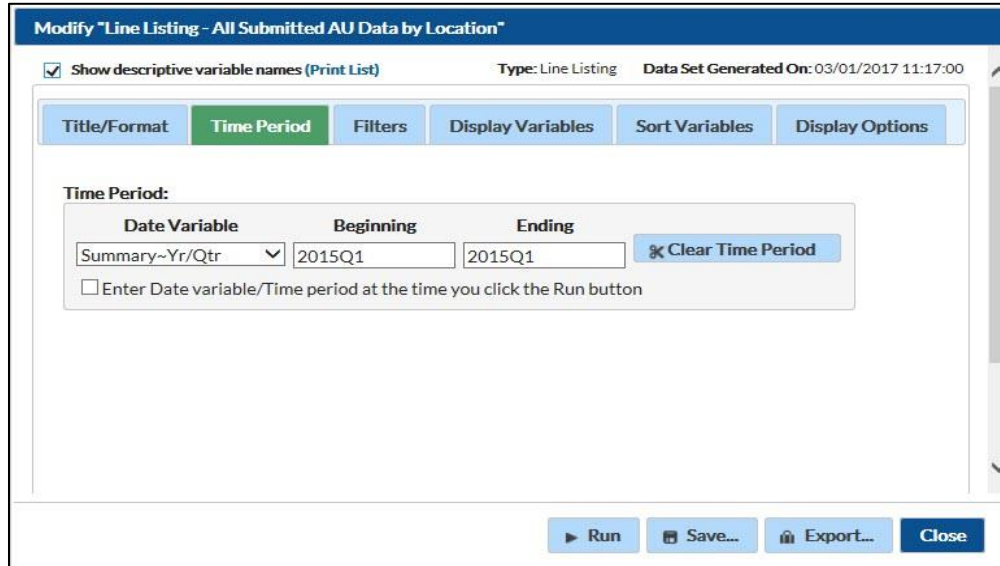
Modifying the Report

When you choose to modify the report, the modification screen appears showing multiple tabs containing available modifications for the given report. The “Title/Format” tab allows you to update the report title and select the format in which you want the report displayed, such as HTML or PDF.

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To filter the data by time period, choose the “Time Period” tab at the top of the page. In this example, we have limited the line list to include only antimicrobial use in the first quarter of 2015 (Summary Yr/Qtr = 2015Q1).

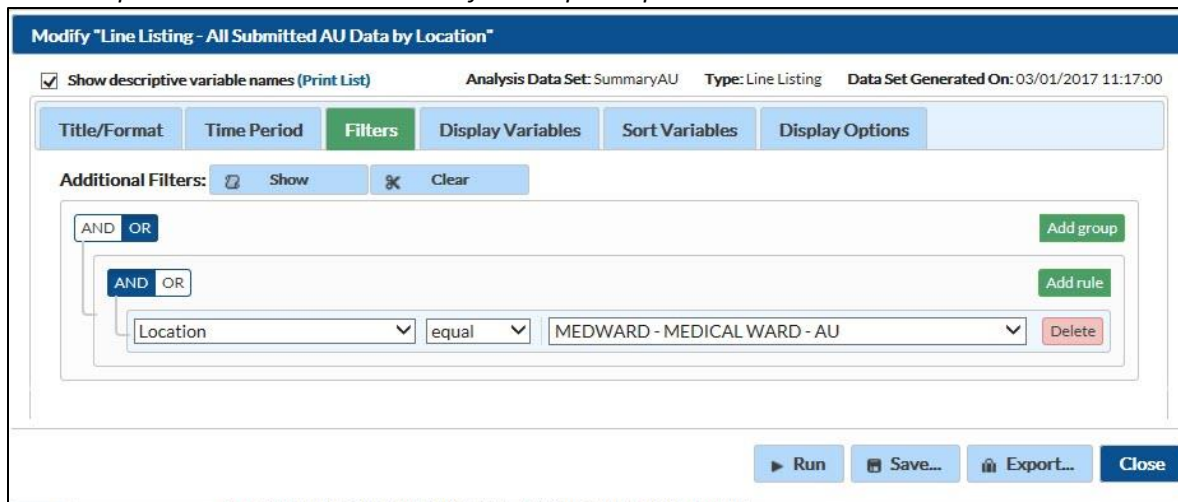
Tip: For more descriptive variable labels on your report, check the box “Show descriptive variable names” that appears near the top of the modification window (recommended).



The screenshot shows the "Modify 'Line Listing - All Submitted AU Data by Location'" window. At the top, there is a checkbox for "Show descriptive variable names (Print List)" which is checked. To the right, it says "Type: Line Listing" and "Data Set Generated On: 03/01/2017 11:17:00". Below this is a row of tabs: "Title/Format", "Time Period" (which is selected and highlighted in green), "Filters", "Display Variables", "Sort Variables", and "Display Options". Under the "Time Period" tab, there is a section titled "Time Period:" with a table-like structure. The first row has columns for "Date Variable", "Beginning", and "Ending". The "Date Variable" is a dropdown menu set to "Summary~Yr/Qtr". The "Beginning" and "Ending" are input fields both containing "2015Q1". To the right of these fields is a "Clear Time Period" button. Below this table is a checkbox labeled "Enter Date variable/Time period at the time you click the Run button" which is currently unchecked. At the bottom of the window are four buttons: "Run", "Save...", "Export...", and "Close".

The “Filters” tab allows you to further filter the data that will be displayed in the report. For our example, we want to filter the report to only show data for location equal to “MEDWARD.”

Tip: For including more than one item in each filter such as multiple locations or multiple antimicrobial agents, the “in” operator can be used instead of the “equal” operator.



The screenshot shows the "Modify 'Line Listing - All Submitted AU Data by Location'" window with the "Filters" tab selected. At the top, the "Show descriptive variable names (Print List)" checkbox is checked. The "Analysis Data Set" is "SummaryAU", "Type" is "Line Listing", and "Data Set Generated On" is "03/01/2017 11:17:00". The tabs "Title/Format", "Time Period", "Filters" (selected and highlighted in green), "Display Variables", "Sort Variables", and "Display Options" are visible. Below the tabs is an "Additional Filters:" section with "Show" and "Clear" buttons. The filter configuration area shows a hierarchical structure with "AND" and "OR" buttons. A single filter rule is defined: "Location" (dropdown) "equal" (dropdown) "MEDWARD - MEDICAL WARD - AU" (dropdown). There are "Add group", "Add rule", and "Delete" buttons associated with the filter structure. At the bottom are "Run", "Save...", "Export...", and "Close" buttons.

The “Display Variables” and “Sort Variables” tabs allow you to display and sort specific variables in your report. Both tabs will produce a similar window, shown below, which allows you to move variables from the available list in the left column to the selected list in the right column by using the directional arrows in the center. You can also re-order the selected variables using the “Up” and “Down” buttons, found to the right of the selected

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variables list. For our example, we will arrange the variables into the order we want for our final report and then sort them by antimicrobial (Antimicrobial Agent-Description).

Tip: Not sure of the meaning of the variables in the list? Use the variable reference list:

http://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/varlabelxref-ps_current.pdf.

The screenshot shows the 'Modify "Line Listing - All Submitted AU Data by Location"' interface. It includes a header with 'Show descriptive variable names (Print List)', 'Analysis Data Set: SummaryAU', 'Type: Line Listing', and 'Data Set Generated On: 03/01/2017 11:17:00'. Below the header are tabs for 'Title/Format', 'Time Period', 'Filters', 'Display Variables', 'Sort Variables', and 'Display Options'. The 'Display Variables' tab is active, showing a list of 'Available Variables' on the left and 'Selected Variables' on the right. The 'Available Variables' list includes 'Antimicrobial Agent', 'Antimicrobial Category', 'Antimicrobial Class', 'Antimicrobial Subclass', 'antimicrobialRate', 'CDC Location', 'CMS Certification Number', 'drugDescription', 'Facility Org ID', 'Location Label', 'Location Type', 'NHSN Facility ID - Location', 'OID of Facility', 'Summary--Yr', and 'Summary--Yr/Half'. The 'Selected Variables' list includes 'Summary Year/Month', 'Antimicrobial Agent-Description', 'Antimicrobial Days', 'Days Present', 'Admissions', 'Route: IM', 'Route: IV', 'Route: Digestive', 'Route: Respiratory', and 'Location'. Navigation buttons like 'All', 'Selected', and '<< All' are present between the lists. At the bottom right, there are buttons for 'Run', 'Save...', 'Export...', and 'Close'.

Final Report

The example line list shown below is the result of the modifications shown in this document. There is one row for each antimicrobial by month and one column for each variable. The list is sorted alphabetically by antimicrobial, and chronologically by month. The output below shows only the first three antimicrobials, but would continue alphabetically through Zanamivir.

National Healthcare Safety Network								
Line Listing - All Submitted AU Data by Location								
As of: January 24, 2017 at 11:57 AM								
Date Range: SUMMARYAU summaryYQ 2015Q1 to 2015Q2								
Location=MEDWARD								
Summary Year/Month	Antimicrobial Agent Description	Antimicrobial Days	Days Present	Route: IM	Route: IV	Route: Digestive	Route: Respiratory	Location
2015M01	AMAN - Amantadine	0	583	0	0	0	0	MEDWARD
1 2015M02	AMAN - Amantadine	2	606	0	0	2	0	MEDWARD
2015M03	AMAN - Amantadine	0	606	0	0	0	0	MEDWARD
2015M01	AMK - Amikacin	0	583	0	0	0	0	MEDWARD
2 2015M02	AMK - Amikacin	2	606	0	2	0	0	MEDWARD
2015M03	AMK - Amikacin	0	606	0	0	0	0	MEDWARD
2015M01	AMOX - Amoxicillin	4	583	0	0	4	0	MEDWARD
2015M02	AMOX - Amoxicillin	5	606	0	0	5	0	MEDWARD
2015M03	AMOX - Amoxicillin	5	606	0	0	5	0	MEDWARD

1. In February 2015, there were two Amantadine antimicrobial days in the Medical Ward. Both of these antimicrobial days were administered via the digestive route.

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2. In February 2015, there were two total Amikacin antimicrobial days in the Medical Ward. For each antimicrobial day, the patient received Amikacin intravenously (IV) and via the respiratory route. However, a single patient can still only attribute one total Amikacin day per calendar day per location.

Additional Resources

Introduction to NHSN Analysis: <https://www.cdc.gov/nhsn/pdfs/training/2016/analysis-data-quality-parikh.pdf>

How to Export Data from NHSN: <http://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/exportdata.pdf>

AUR Module Protocol: <http://www.cdc.gov/nhsn/pdfs/pscmanual/11pscaurcurrent.pdf>

Surveillance for Antimicrobial Use Option: <http://www.cdc.gov/nhsn/acute-care-hospital/aur/>

