

Specific Antibiotic Use Bar Chart

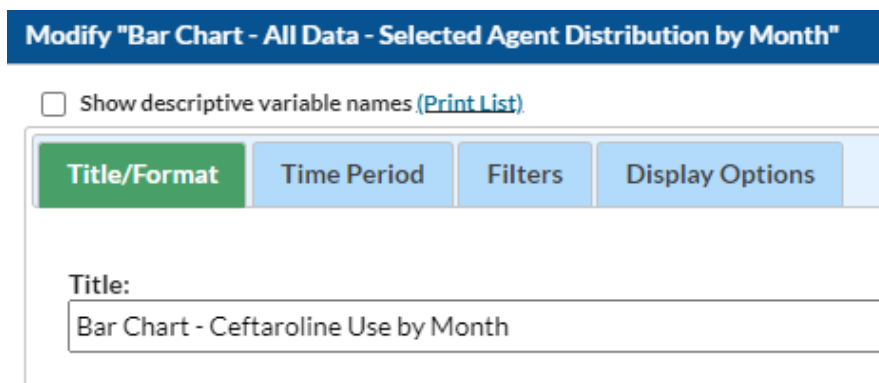
Description- These instructions will demonstrate how to use the AU Bar Chart-Selected Agents to trend rates of a specific “targeted” antibiotic. These instructions build on the [Quick Reference Guide - AU Bar Chart - Selected Drugs](#).

For this example, you will be determining use of ceftaroline. You would like the data on a monthly basis for all of calendar year 2021. To contextualize use compared to other agents used for serious MRSA infections, you may wish to include monthly data for vancomycin, daptomycin, and linezolid (Option 2 below).

Within the NHSN Reporting portal, click Analysis > Reports > Antimicrobial Use and Resistance Module > Antimicrobial Use Data > Bar Chart – All Data – Selected Agent Distribution by Month.

Modifying the Report

1. Use the Title/Format tab to name your chart. For this example, consider a title such as Ceftaroline Use by Month.



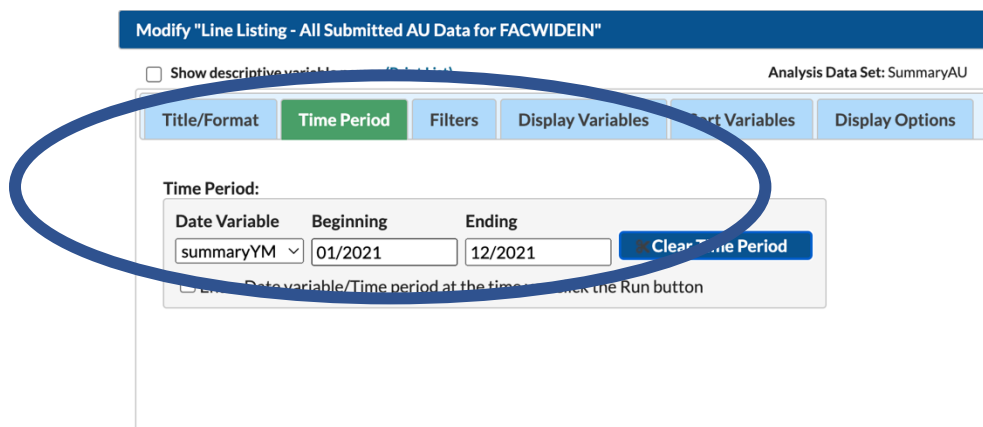
Modify "Bar Chart - All Data - Selected Agent Distribution by Month"

Show descriptive variable names ([Print List](#))

Title/Format | Time Period | Filters | Display Options

Title:
Bar Chart - Ceftaroline Use by Month

2. On the Time Period tab, select the date variable of summaryYM and enter the desired range of months:



Modify "Line Listing - All Submitted AU Data for FACWIDEIN"

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

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

Time Period:

Date Variable	Beginning	Ending	
summaryYM	01/2021	12/2021	Clear Time Period

Enter Date variable/Time period at the time you click the Run button

3. In the Filters tab, change the drugIngredients to either ceftaroline (for single drug bar graph; Option 1 below) or the desired alternatives (for this example, suggest vancomycin, linezolid, daptomycin; Option 2 below).

Modify "Bar Chart - All Data - Selected Agent Distribution by Month"

Show descriptive variable names ([Print List](#)) Analysis Data Set: SummaryAU Type: Bar Chart Summary Last Generated: April 27, 2023 11:31 AM

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

Additional Filters:

AND OR

AND OR

drugIngredient	in	
CEFAC - Cefactor		CEFDIN - Cefdinir
CEFIX - Cefixime		CEFOT - Cefotaxime
CEFPO - Cefpodoxime		CEFPRO - Cefprozil
CEFTRX - Ceftriaxone		CEFUR - Cefuroxime
CIPRO - Ciprofloxacin		ERTA - Ertapenem
GEMFI - Gemifloxacin		LEVO - Levofloxacin
MOXI - Moxifloxacin		

Option 1:



Modify "Bar Chart - All Data - Selected Agent Distribution by Month"

Show descriptive variable names ([Print List](#)) Analysis Data Set: SummaryAU Type: Bar Chart Summary Last Generated: April 27, 2023 11:31 AM

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

Additional Filters:

AND OR

AND OR

drugIngredient	equal	CEFTAR - Ceftaroline
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4. For Display Options tab, configure output as desired. For this example, the Numeric Variable to Chart (y-axis) is RateDaysPresent.

Modify "Bar Chart - All Data - Selected Agent Distribution by Month"

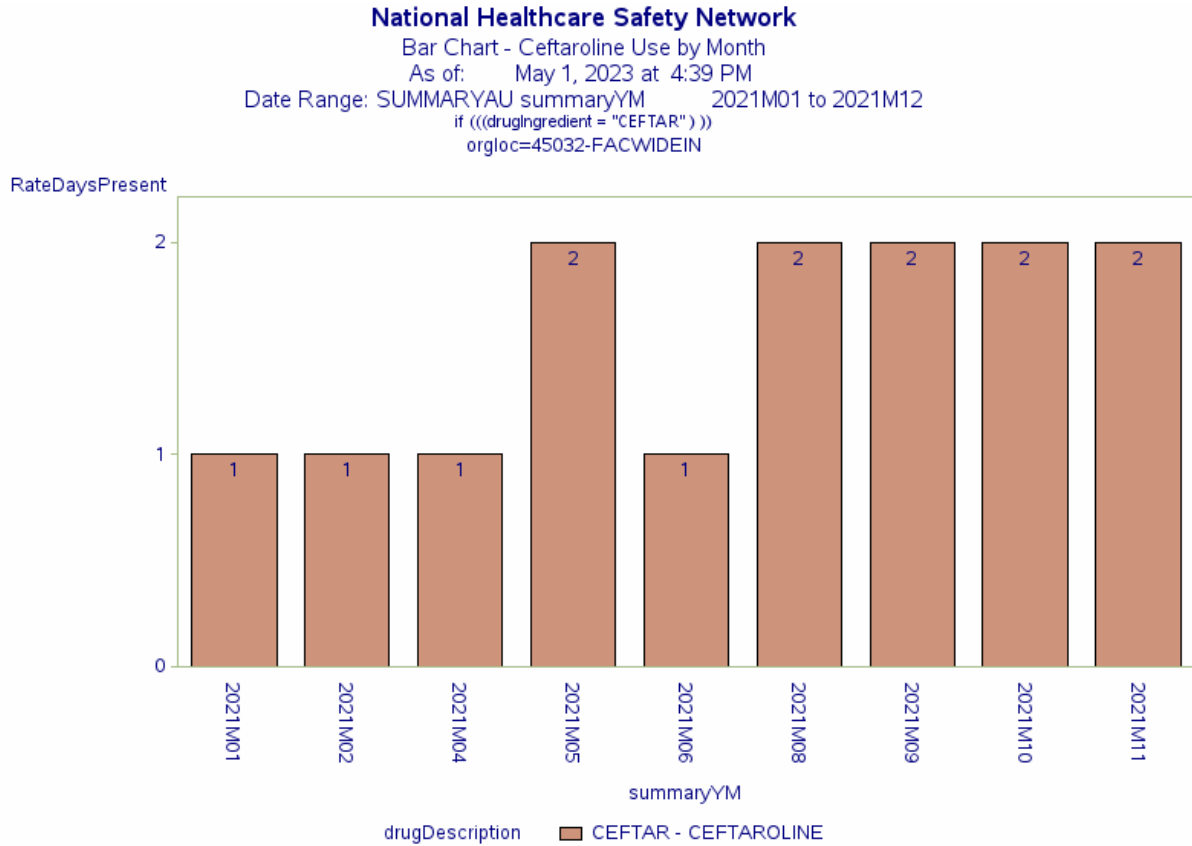
Show descriptive variable names ([Print List](#)) Analysis Data Set: SummaryAU Type: Bar Chart Summary Last Generated: April 27, 2023 11:31 AM

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

Bar Chart Options

Chart Variable	Stratification Variable	Page by	Select Numeric Variable to Chart
summaryYM	drugDescription	orgLoc	RateDaysPresent
Orientation of Bars:			
2D Vertical			
Placement of the Percent:			
None			
Placement of the Value:			
Inside			

5. You are now ready to “Run” the Option 1 report. The facility-wide (FACWIDEIN) output for ceftaroline alone in this example:



Any reported use of Colistin will be combined with and reported as Colistimethate. Any reported use of Amikacin Liposomal will be combined with and reported as Amikacin.
Data contained in this report were last generated on April 27, 2023 at 11:29 AM to include data beginning January 2019 through April 2023.

Specific areas within the facility can be examined to identify higher use areas. The report above will produce a bar graph for each NHSN area type.

Option 2: To review use of ceftaroline within the context of other anti-MRSA agents, add those specific agents into the bar graph as shown below:

Modify "Bar Chart - All Data - Selected Agent Distribution by Month"

Show descriptive variable names ([Print List](#)) Analysis Data Set: SummaryAU Type: Bar Chart Summary Last Generated: April 27, 2023 11:31 AM

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

Additional Filters:

AND OR

AND OR

drugIngredient	equal	CEFTAR - Ceftaroline	Delete
drugIngredient	equal	DAPTO - Daptomycin	Delete
drugIngredient	equal	LNZ - Linezolid	Delete
drugIngredient	equal	VANC - Vancomycin	Delete

4. For Display Options tab, configure output as desired. For this example, the Numeric Variable to Chart (y-axis) is RateDaysPresent.

Modify "Bar Chart - All Data - Selected Agent Distribution by Month"

Show descriptive variable names ([Print List](#)) Analysis Data Set: SummaryAU Type: Bar Chart Summary Last Generated: April 27, 2023 11:31 AM

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

Bar Chart Options

Chart Variable	Stratification Variable	Page by	Select Numeric Variable to Chart
summaryYM	drugDescription	orgLoc	RateDaysPresent
Orientation of Bars:			
2D Vertical			
Placement of the Percent:			
None			
Placement of the Value:			
Inside			

5. You are now ready to "Run" the Option 2 report. The facility-wide (FACWIDEIN) output for the Option 2 report yields the following:

National Healthcare Safety Network

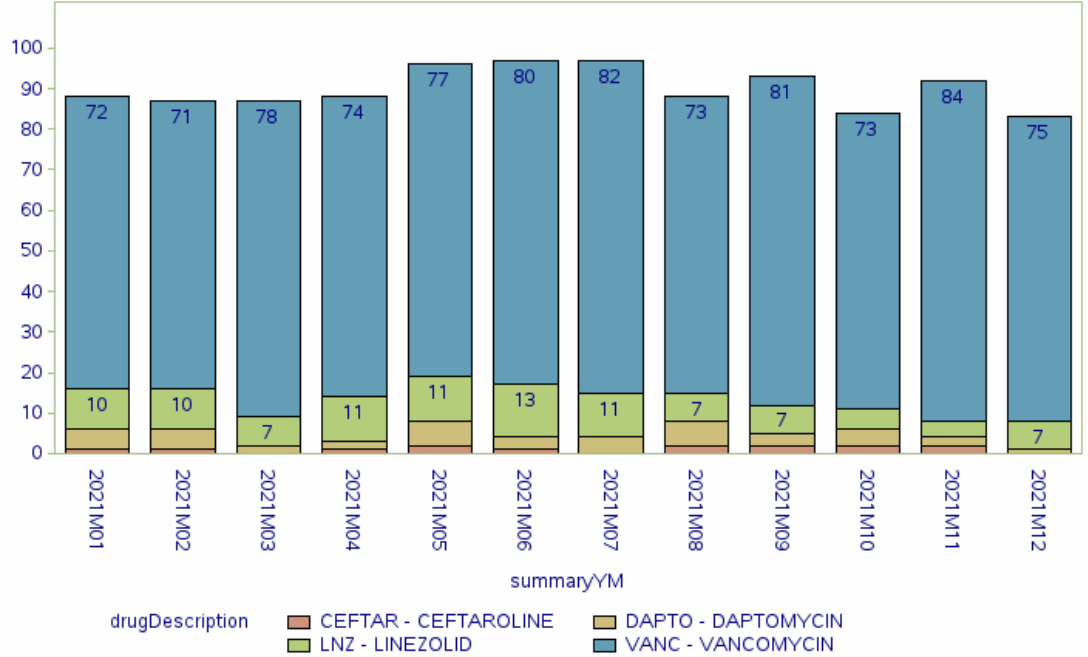
Bar Chart - Anti-MRSA Agent Use by Month

As of: May 1, 2023 at 4:44 PM

Date Range: SUMMARYAU summaryYM 2021M01 to 2021M12

if (((drugIngredient = "CEFTAR")) OR ((drugIngredient = "DAPTO")) OR ((drugIngredient = "LNZ")) OR ((drugIngredient = "VANC")))
orgloc=45032-FACWIDEIN

RateDaysPresent



Any reported use of Colistin will be combined with and reported as Colistimethate. Any reported use of Amikacin Liposomal will be combined with and reported as Amikacin.
Data contained in this report were last generated on April 27, 2023 at 11:29 AM to include data beginning January 2019 through April 2023.

6. Once you have selected a report that you would like to keep, you can click Save and create a name for your Analysis Report.

Specify a name for your Analysis Report:

Analysis Report Name:

Overwrite existing Custom Analysis Report (Save)
 Create a new Custom Analysis Report based on this one (Save as)

Save
Cancel

Run
Save...
Export...
Close

7. You may Export in a variety of formats if desired using the Export button on the bottom right of the modification window. Select “Export Entire Analysis Data Set” if you would like to export all of your facility NHSN AU data to further analyze it in Excel or SAS.

