

AU Rate Table - FacWideIN

Description

Rate tables for the AU option display a facility's calculated rate of antimicrobial use. Output options include facility-wide (FACWIDEIN) rates of use or rates of use by location. Rates can be calculated by drug category and class, for specific drugs within separate classes (modified Selected Drugs option), or for individual drugs (modified Selected Drugs option).

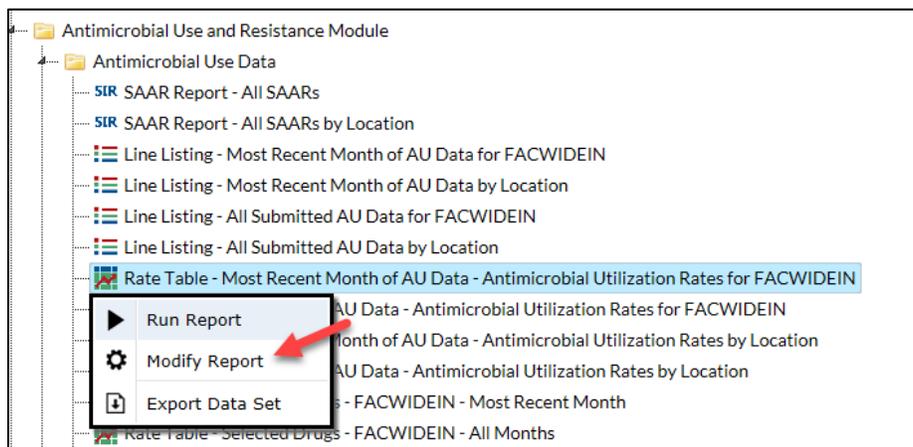
For a more basic explanation of the NHSN modification screen, refer to this document:

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

Example (Using: Rate Table – Most Recent Month of AU Data – Antimicrobial Utilization Rates for FacWideIN)

You would like to generate a rate for the facility-wide inpatient location's antimicrobial use for the most recent month of data submitted, separated by antimicrobial class. Two rate tables will be generated: one rate table using days present and the other using admissions as the denominator. *Tip: For more information about the calculation of rate tables for AU data, please see the [NHSN AUR Module Protocol](#).*

After generating data sets, to run a Rate Table report, click Analysis > Reports > Antimicrobial Use and Resistance Module > Antimicrobial Use Data. After selecting the report, in this case, "Rate Table- Most Recent Month of AU Data- Antimicrobial Utilization Rates for FACWIDEIN," 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. The "Time Period" tab allows you to update the report by a specific time period, such as year or quarter. In this example, the time period can

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be left blank since this report will automatically include facility-wide antimicrobial use for the most recent month of data submitted.

The “Filters” tab allows you to further filter the data that will be displayed in the report (e.g., limit to a single location type). In our example, we can leave this filter blank since the report already filters for FacWideIN.

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).

Final Reports

The report displays the rates separated by antimicrobial category and class. The first row for the category will show the rate for all drugs in that category (--All--). The following rows will show the rate per antimicrobial class. The rate tables have been generated for the most recent month of FacWideIN data uploaded into this NHSN facility: December 2016 (2016M12).

Tip: Reference Appendix B in the [NHSN AUR Module Protocol](#) for a list of antimicrobials and their associated class and subclass.

National Healthcare Safety Network						
Rate Table - Most Recent Month of AU Data - Antimicrobial Utilization Rates for FACWIDEIN						
Rate per 1,000 Days Present						
As of: February 8, 2017 at 5:28 PM						
Date Range: AU_RATES1MONTHFACWIDEIN						
Facility Org ID=13860						
Summary Year/Month	Antimicrobial Category	Antimicrobial Class	Antimicrobial Days	Days Present	Rate per 1000 Days Present	
2016M12	Anti-influenza	-- All --	52	2177	23.886	
2016M12	Anti-influenza	M2 ion channel inhibitors	30	2177	13.78	
2016M12	Anti-influenza	Neuraminidase inhibitors	22	2177	10.106	
1	2016M12	Antibacterial	-- All --	1626	2177	746.899
	2016M12	Antibacterial	Aminoglycosides	22	2177	10.106
	2016M12	Antibacterial	B-lactam/ B-lactamase inhibitor combination	284	2177	130.455
2	2016M12	Antibacterial	Carbapenems	101	2177	46.394
	2016M12	Antibacterial	Cephalosporins	337	2177	154.8
	2016M12	Antibacterial	Fluoroquinolones	244	2177	112.081

- There were 1,626 total antimicrobial days reported for all antibacterials and 2,177 total days present for FacWideIN in December 2016.
 - Dividing 1,626 antibacterial days (numerator) by 2,177 days present (denominator) and multiplying by 1000 gives a rate of 746.899 antibacterial days per 1000 days present.
- There were 101 total carbapenem days reported for the facility in December 2016 for a rate of 46.394 carbapenem days per 1000 days present.



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National Healthcare Safety Network
Rate Table - Most Recent Month of AU Data - Antimicrobial Utilization Rates for FACWIDEIN
Rate per 100 Admissions

As of: February 8, 2017 at 5:28 PM
 Date Range: AU_RATES1MONTHFACWIDEIN

Facility Org ID=13860

Summary Year/Month	Antimicrobial Category	Antimicrobial Class	Antimicrobial Days	Admissions	Rate per 100 Admissions
3 2016M12	Anti-influenza	-- All --	52	596	8.725
2016M12	Anti-influenza	M2 ion channel inhibitors	30	596	5.034
2016M12	Anti-influenza	Neuraminidase inhibitors	22	596	3.691
2016M12	Antibacterial	-- All --	1626	596	272.819
2016M12	Antibacterial	Aminoglycosides	22	596	3.691
2016M12	Antibacterial	B-lactam/ B-lactamase inhibitor combination	284	596	47.651
2016M12	Antibacterial	Carbapenems	101	596	16.946
2016M12	Antibacterial	Cephalosporins	337	596	56.544

3. During December 2016, there were 52 total antimicrobial days reported for all anti-influenzas and 596 inpatient admissions.
 - a. Dividing 52 anti-influenza days (numerator) by 596 admissions (denominator) and multiplying by 100 gives a rate of 8.725 anti-influenza days per 100 admissions.

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/>

