

Line List

Antimicrobial-Resistant Organisms

Updated 2020

This document provides instructions for the antimicrobial-resistant organism line list that is available in the NHSN analytic reports located in the following analysis folder within NHSN: **HAI Antimicrobial Resistance (DA + PA Modules) > Antimicrobial Resistant HAIs**.

Overview

There are several analysis reports available in NHSN that will allow you to analyze HAI events from your facility (or group) in which a specific antimicrobial-resistant organism (or “phenotype”) was identified. CDC has defined 13 phenotypes of epidemiologic importance; the analysis reports will display data from these 13 phenotypes by default. Criteria and definitions for the pre-defined phenotypes can be found here:

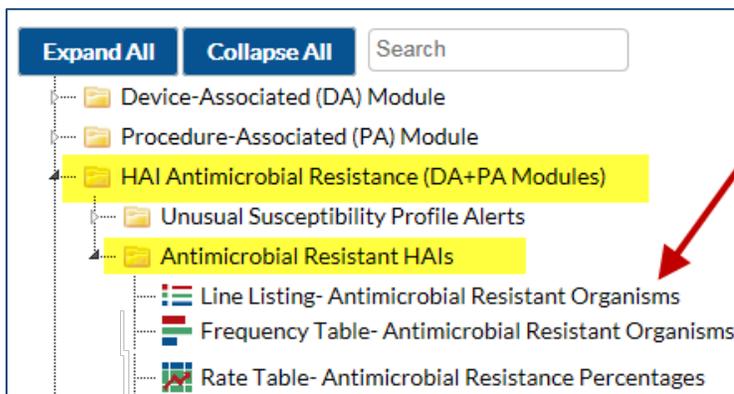
http://www.cdc.gov/nhsn/PDFs/analysis/Phenotype_Definitions.pdf.

Note: If you are interested in reviewing events and organisms beyond the 13 phenotypes, you can export the Antimicrobial Resistant Organism Line List analysis dataset to view event records and antibiogram data for other reported pathogens. You can also run the Antibiogram Line List option, found in Advanced > Pathogen-level Data > Line Listing-Antibiogram, which will include all events/pathogens regardless of their susceptibility results.

Example

The line list will allow for a record-level review of each event in which an associated pathogen meets the criteria for at least one of the pre-defined phenotypes. In this example, we are interested in reviewing all HAI events that occurred in our facility in 2014 that had an associated organism meeting one of the antimicrobial resistant phenotype definitions.

1. On the Reports screen, navigate through the following folders: HAI Antimicrobial Resistance (DA + PA Modules) > Antimicrobial Resistant HAIs > Line Listing- Antimicrobial Resistant Organisms. Click on the report title to view options for running or modifying the report. On the pop-up menu, click “Run” to view all events and pathogens from each of the 13 phenotypes, or click “Modify” to specify a time period and/or phenotype of interest.



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- In this example, we will use the modify screen to edit the time period. To modify the time period, open the tab called "Time Period" shown at the top of the Modify screen. Set "EvtDateYr" to 2014.

Modify "Line Listing- Antimicrobial Resistant Organisms"

Show descriptive variable names (Print List) Analysis Data Set: Antibiogram_HAI Type: Line Listing

Time Period:

Date Variable: evtDateYr Beginning: 2014 Ending: 2014

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

- You can make additional modifications to the line list, such as limiting the report to a single phenotype, by using the tab called "Filters". By default, several specifications are already made in the "Filters" tab, and for this example, no further modifications are needed. However, if you wish to modify the phenotypes displayed in the line list, you could edit the Filters screen to only display certain phenotypes.
- After all necessary changes have been made, click "Run" at the bottom of the Modify screen. You may also choose "Export" if you wish to obtain this output in another format (e.g., xls).

Report

The report will contain one line list for each phenotype that your facility has reported. Not all phenotypes are shown in this example.

National Healthcare Safety Network										
Line Listing- Antimicrobial Resistant Organisms										
CREall_HAI - Carbapenem-resistant Enterobacteriaceae										
As of: December 3, 2014 at 2:19 PM										
Date Range: ANTIBIOGRAM_HAI evtDateYr 2014 to 2014										
orgID	patID	dob	gender	admitDate	eventID	eventDate	eventType	location	pathogenDesc	
10401	CG071807	04/07/1990	F	05/01/2014	44140	05/05/2014	BSI	4W	Escherichia coli, enterohemorrhagic, serotype	
10401	CG0718022	06/16/1990	F	06/09/2014	44134	06/18/2014	BSI	BURN	Enterobacter cloacae - ENC	
Criteria used to define each phenotype can be found on the Patient Safety Analysis Resources webpage.										
Sorted by orgID eventDate										
Data contained in this report were last generated on December 1, 2014 at 11:25 AM.										
National Healthcare Safety Network										
Line Listing- Antimicrobial Resistant Organisms										
carbNS_Acine_HAI - Carbapenem-non-susceptible Acinetobacter spp.										
As of: December 3, 2014 at 2:19 PM										
Date Range: ANTIBIOGRAM_HAI evtDateYr 2014 to 2014										
orgID	patID	dob	gender	admitDate	eventID	eventDate	eventType	location	pathogenDesc	
10401	CG06181401	06/06/1980	F	06/02/2014	44133	06/09/2014	VAE	TELE	Acinetobacter baumannii - ACBA	
Criteria used to define each phenotype can be found on the Patient Safety Analysis Resources webpage.										
Sorted by orgID eventDate										



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In 2014, this facility reported 2 bloodstream infections with carbapenem-resistant Enterobacteriaceae (CRE) pathogens identified; the first CRE pathogen identified was *Escherichia coli*, and the second was *Enterobacter cloacae*. This facility also reported a VAE with a carbapenem-non-susceptible *Acinetobacter baumannii* pathogen.

Additional Resources

Antimicrobial Resistance Definitions:

http://www.cdc.gov/nhsn/PDFs/analysis/Phenotype_Definitions.pdf

How to run and modify a Line List in NHSN:

<http://www.cdc.gov/nhsn/PS-Analysis-resources/PDF/LineLists.pdf>



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