

Line List: Antimicrobial Resistant Organisms

Description

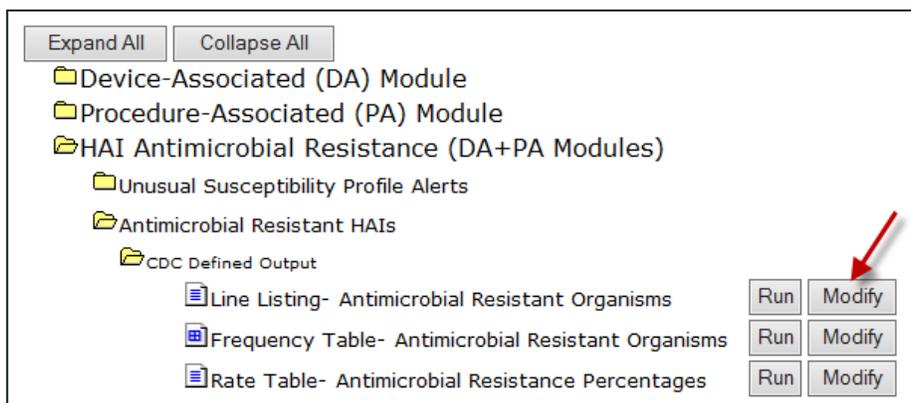
There are several analysis output options available in NHSN that will allow you to analyze HAI events from your facility (or group) in which a specific antimicrobial resistant organism (or “phenotype”) was identified. CDC has defined 11 phenotypes of epidemiologic importance; the analysis output options will display data from these 11 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 11 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 > CDC Defined Output > Line Listing-Antibiogram, which will include all events/pathogens regardless of their susceptibility results.

Line List

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 output options screen, navigate through the following folders: *HAI Antimicrobial Resistance (DA + PA Modules) > Antimicrobial Resistant HAIs > CDC Defined Output > Line Listing- Antimicrobial Resistant Organisms*. Click “Run” to view all events and pathogens from each of the 11 phenotypes, or click “Modify” to specify a time period and/or phenotype of interest.



2. In this example, we will use the modify screen to edit the time period and phenotype. To modify the time period, select “EvtDateYr” as the date variable and enter the date range 2014 to 2014.

The form has a title 'Select a time period or Leave Blank for Cumulative Time Period: HELP'. It contains three input fields: 'Date Variable' with a dropdown menu showing 'evtDateYr', 'Beginning' with a text box containing '2014', and 'Ending' with a text box containing '2014'. To the right of these fields is a 'Clear Time Period' button. Below the input fields is a checkbox labeled '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 output to a single phenotype, by using the Selection Criteria Grid. By default, several specifications are already made in the Selection Criteria grid 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 selection grid to only display certain phenotypes.

(Hint: setting a phenotype = 1 will create a line list including events of that phenotype only)

- After all necessary changes have been made, click “Run”. You may also choose to “Export Output Data Set” if you wish to obtain this output in another format (e.g., xls).

Output

The output 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 evntDateYr 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 evntDateYr 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

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 pathogen.

Additional Resources:

Definitions of pre-defined phenotypes for HAI Antimicrobial Resistance NHSN Analysis Output:

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>