

Demo Exercise: Advanced Line List

Antibiogram

Description:

This exercise provides an introduction to creating a line list that includes pathogen information as well as antibiotic susceptibility results.

Example:

Your hospital epidemiologist is interested in looking at the antibiogram of all BSIs with event dates in the first half of 2011 in the cardiac ICU (711CU). She would like to view the report sorted by event date.

Answer the following questions:

1. Which organism was most often identified in bloodstream infections in the 711CU during this time period?
2. Were any of the organisms from the first question resistant to doxycycline (DOXY)?
3. How many BSIs were sensitive to ciprofloxacin (CIPRO)? What are their event IDs?

Creating the Line List:

The line list required in this example is one that includes pathogen-specific information, including the pathogen name and its antibiogram. This line list option can be found in the Advanced folder under Analysis> Advanced> Pathogen-level Data> CDC Defined Output> Line Listing-Antibiogram. Click 'Modify' to the right of this output option.

Patient Safety Component
Analysis Output Options

Expand All Collapse All

- Device-Associated Module
- Procedure-Associated Module
- MDRO/CDI Module - Infection Surveillance
- MDRO/CDI Module - LABID Event Reporting
- MDRO/CDI Module - Process Measures
- MDRO/CDI Module - Outcome Measures
- Vaccination Module
- Antimicrobial Use and Resistance Module
- Advanced
 - [Create New custom Option](#)
 - Patient-level Data
 - Event-level Data
 - Procedure-level Data
 - Summary-level Data
 - Plan Data
 - Pathogen-level Data
 - CDC Defined Output
 - Line Listing - Antibiogram Run Modify

Modification Page:

The option to use more descriptive variable labels was selected (recommended).

Select the time period of interest using evntdateYH, since we have particular half-year of interest (2011H1).

In order for the output to include only bloodstream infections, you must specify the event type and set it equal to BSI. In the second column of this grid, set location equal to 711CU. The analysis output will only include BSI events from the 711CU.

You must modify the variables to include in the line list and specify on which variable to sort the line list (see next page).

Separate tables will be created for each value of the Page by variable. You can leave it blank for this example.

Line Listing

Analysis Data Set: Antibigram Export Analysis Data Set

Modify Attributes of the Output:

Last Modified On: **02/15/2013**

Output Type: **Line Listing**

Output Name:

Output Title:

Select output format:

Output Format:

Use Variable Labels

Select a time period or Leave Blank for Cumulative Time Period:

Date Variable: Beginning: Ending: Clear Time Period

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

Specify Other Selection Criteria:

[Show Criteria](#) [Column +](#) [Row +](#) [Clear Criteria](#)

eventType	location		
= BSI	= 711CU		

Other Options: [Print Variable Reference List](#)

Modify Variables To Display By Clicking: [Modify List](#)

Specify Sort Variables By Clicking: [Modify List](#)

Select Page by variable:

***For more information about how to edit the modifications page, please see the following Quick Reference Guides:**

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

How to filter output by additional criteria: <http://www.cdc.gov/nhsn/PS-Analysis-resources/PDF/SelectionCriteria.pdf>

How to filter data by time period: <http://www.cdc.gov/nhsn/PS-Analysis-resources/PDF/FilterTimePeriod.pdf>

Modify variables to display in the Line List:

- Remove all variables that you are not interested in from the 'selected variables' column into the 'available variables' column. For this example, remove all antibiotic codes from the 'selected variables' column EXCEPT for ciprofloxacin (CIPRO) and doxycycline (DOXY).
- To move variables between the columns, highlight the variable and use the '>>' or '<<' arrows. You can also re-order the selected variables using the Up and Down buttons.
- Make sure to add patientID (patID), location, pathogenDesc (description), and pathogenSeq (sequence) to the 'selected variables' column.
- Click Save when done.

Select Variables to include in Line Listing:

Available Variables		Selected Variables
evntDateYQ		orgID
evntDateYr		eventID
gender		eventType
id2		eventDate
immunocomp		pathogenDesc
locationType		CIPRO
mdrolncompleteFlag		DOXY
mdrolnPlan	>>	location
medicareID	All >>	patID
modifyDate	<<	pathogenSeq
modifyUserID	All <<	
patGName		Up
patMName		Down
patRaceAAB		
patRaceAMIN		
patRaceASIAN		
patRaceNH_PI		
patRaceWHITE		
patSurname		
pathogen		
procCode		
procCodeDesc		
procDate		
procDateYH		
procDateYM		

Default settings for the antibiogram report include many abx, which you can edit depending on your interests. For the sake of space, we have limited this line list to only those abx referred to in this exercise.

Save Reset Close

Specify Sort Variables:

- Make sure that event date is selected as the only sort variable.
 - Note: If you attempt to sort or page by on a variable that is not included in the line list (i.e. not specified in the 'selected variables' column as shown above), you will get an error message when trying to run the line list.