

Demo Exercise: CAUTI SIR for CMS IPPS

Description:

This exercise will show you how to generate a CAUTI SIR report that mirrors the data that NHSN will provide to CMS on your behalf to comply with the Inpatient Prospective Payment System (IPPS). A similar report can be generated for CLABSIs, SSIs, MRSA Bacteremia LabID event, and *C. difficile* Infection LabID event.

You should be familiar with the calculation and interpretation of an SIR and its statistics (p-value and 95% confidence interval). Information on these topics can be found here:

SIR Quick Reference Guide for Device-Associated Infections:

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

NHSN Newsletter: Your Guide to the Standardized Infection Ratio:

http://www.cdc.gov/nhsn/PDFs/Newsletters/NHSN_NL_OCT_2010SE_final.pdf

Example:

In order to ensure you are in compliance with the IPPS reporting rules, and to double-check the accuracy and completeness of your CAUTI data, your hospital epidemiologist would like to see an SIR report that includes all CAUTI data that will be sent to CMS for the 1st quarter of 2012. Your epidemiologist has mentioned that you should expect to see complete data from all ICU locations.

Answer the following questions:

1. What is your facility's overall CAUTI SIR for the 1st quarter of 2012? Is it statistically significant?
2. What is the CAUTI SIR in the 22ICU for the 1st quarter of 2012?
3. Do you have complete data entered from all 6 adult and pediatric ICUs for the 1st quarter of 2012?

Creating the CMS SIR Report:

The CMS output options in NHSN are found under Analysis > Output Options > Advanced > CMS Reports > CDC-defined output > SIR - CAUTI Data for CMS IPPS. Select 'Modify' next to the 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
 - CMS Reports
 - CDC Defined Output
 - SIR - CLAB Data for CMS IPPS Run Modify
 - SIR - CAUTI Data for CMS IPPS Run Modify**
 - SIR - Complex 30-Day SSI Data for CMS IPPS Run Modify
 - Line Listing - CMS ESRD QIP Rule Run Modify

Modification Page:

Notice that several data fields have automatically been populated on this screen to ensure that this analysis output correctly reflects the data being sent to CMS.

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

Change the time period of interest to SummaryYQ, since we have a particular quarter of interest (2012Q1).

You will notice that 2 other selection criteria have already been specified for you; these are used to limit the SIR report to include only the data that are sent to CMS (in-plan CAUTI data from critical care locations). These should not be removed, and no additional criteria need to be added for this exercise.

Analysis SIR

Analysis Data Set: CAU_RatesICU_SCA Export Analysis Data Set

Modify Attributes of the Output:

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

Output Type: **SIR**

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	
<input type="text" value="summaryYQ"/>	<input type="text" value="2012Q1"/>	<input type="text" value="2012Q1"/>	<input type="button" value="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](#)

utiPlan	locationType		
= Y	IN (CC)		

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

Group by:

In order to produce an SIR for each quarter of 2012, select summaryYQ as the Group by variable.

***For additional information on editing the modification page, please see the following Quick Reference Guides:**

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>

Operational Guidance for Acute Care Hospitals reporting CAUTI data to CMS:

<http://www.cdc.gov/nhsn/PDFs/FINAL-ACH-CAUTI-Guidance.pdf>