

## Demo Exercise Results: CAUTI SIR for CMS IPPS

### Output:

Four SIR tables are included in the CAUTI SIR output. For the sake of space, we are only including the tables relevant to this exercise (the 1<sup>st</sup> and 4<sup>th</sup> tables).

### Table 1:

National Healthcare Safety Network

SIR for CAUTI Data for CMS IPPS - By OrgID

As of: February 27, 2014 at 9:16 AM

Date Range: CAU\_RATESICU\_SCA summaryYQ 2012Q1 to 2012Q1

if (((utiPlan = "Y") AND (locationType IN ("CC"))))

Org ID=10018 CMS Certification Number=N/A

Org ID	Summary Yr/Qtr	infCount	Number Expected	Urinary Catheter Days	SIR	SIR p-value	95% Confidence Interval
10018	2012Q1	13	8.474	3709	1.534	0.1398	0.853, 2.557

If infCount in this table is less than you reported, aggregate data are not available to calculate numExp.

Lower bound of 95% Confidence Interval only calculated if infCount > 0. SIR values only calculated if numExp >= 1.

SIR excludes those months and locations where device days are missing.

Source of aggregate data: NHSN Report, Am J Infect Control 2011;39:349-367

Data contained in this report were last generated on January 24, 2014 at 10:41 AM.

### Answers:

1. *What is your facility's overall CAUTI SIR for the 1<sup>st</sup> quarter of 2012? Is it statistically significant?*  
**The CAUTI SIR for the 1st quarter is 1.534. This SIR is NOT statistically significant because its p-value, 0.1398, is greater than 0.05. The same interpretation can be made from the 95% Confidence Interval; because this interval includes the value of 1.0, the SIR is not statistically significant.**

**It is important to note that while we include both the p-value and 95% Confidence Interval in this output, only the 95% Confidence Interval is sent to CMS and used for interpretation on Hospital Compare.**

## Output (Continued):

**Table 4:**

National Healthcare Safety Network  
SIR for CAUTI Data for CMS IPPS - By OrgID/Location

As of: February 27, 2014 at 9:16 AM

Date Range: CAU\_RATESICU\_SCA summaryYQ 2012Q1 to 2012Q1

if (((utiPlan = "Y") AND (locationType IN ("CC" ))) ) )

Org ID=10018 CMS Certification Number=N/A

Org ID	Location	Summary Yr/Qtr	Months	infcount	Number Expected	Urinary Catheter Days	SIR	SIR p-value	95% Confidence Interval
10018	2 MSICU	2012Q1	3	3	1.569	682	1.913	0.2831	0.486, 5.205
10018	22ICU	2012Q1	3	3	1.145	424	2.621	0.1379	0.667, 7.132
10018	71ICU	2012Q1	3	3	1.151	677	2.607	0.1397	0.663, 7.094
10018	MICU	2012Q1	3	0	1.608	699	0.000	0.2003	, 1.863
10018	MSICU	2012Q1	3	2	1.440	626	1.389	0.5980	0.233, 4.589
10018	SICU	2012Q1	3	2	1.563	601	1.280	0.6699	0.215, 4.229

If infCount in this table is less than you reported, aggregate data are not available to calculate numExp.

Lower bound of 95% Confidence Interval only calculated if infCount > 0. SIR values only calculated if numExp >= 1.

SIR excludes those months and locations where device days are missing.

Source of aggregate data: NHSN Report, Am J Infect Control 2011;39:349-367

Data contained in this report were last generated on January 24, 2014 at 10:41 AM.

## Answers:

2. What is the CAUTI SIR in the 22ICU for the 1<sup>st</sup> quarter of 2012? **2.621**
3. Do you have complete data entered from all 6 adult and pediatric ICUs for the 1<sup>st</sup> quarter of 2012?

**There are 3 months of data submitted for each of the 6 ICUs, and therefore the data appear to be complete. We recommend a detailed look at the number of observed infections (infcount) and the number of urinary catheter days that is presented in this table for each ICU to ensure accuracy and completeness.**