

# Using the SIR – ACH CLABSI Data for CMS IPPS (2022 Baseline)

## Introduction

The NHSN Analysis Output Option, “SIR – ACH CLABSI Data for Hospital IPPS (2022 Rebaseline)” was created to allow facilities to review those data that would be submitted to CMS on their behalf. It’s important to keep in mind the following as you begin to use this report:

- a. These data will only be submitted for those facilities that are participating in the CMS IPPS Hospital IQR Program, as indicated by their CCN recorded in NHSN.
- b. This report will only include **in-plan CLABSI data for each adult, pediatric, and neonatal ICU beginning with 2025 data and in-plan CLABSI data for each adult and pediatric medical, surgical, and medical/surgical ward beginning with 2025 data**. Other locations/earlier years for which you may have reported CLABSI data will not be included in this output.
- c. **IMPORTANT!** Facilities must appropriately **Report No Events** for those locations and months for which no events of each type under surveillance were identified.
- d. This output option represents an SIR for each hospital, not each CCN. If your hospital shares a CCN, this SIR will only represent the data that your hospital has contributed to the overall SIR for all hospitals that share the CCN. You may wish to use the Group feature in NHSN to obtain a single SIR for all the hospitals that share a CCN. More information about the Group feature on the [Group Users page](#).
- e. The data in this report will represent data current as of the last time you generated datasets. Note that data in the Quality Net Provider Participation Report are not updated simultaneously with your data in NHSN. Data changes made in NHSN will be reflected in the next monthly submission to CMS. **EXCEPTION:** Quarterly data are frozen as of the final submission date for that quarter. For example, Q1 data will be frozen as of 7am UTC\* (3am ET) on August 16th. Any changes made to these data in NHSN after the final submission deadline will not be reflected in later months on the Provider Participation Report or on Hospital Compare.
- f. To learn more about the standardized infection ratio (SIR), including how it is calculated for CLABSI data, please see the [NHSN SIR Guide\(2022 Baseline\)](#).
- g. The information in this document should be used in conjunction with the document, “[Helpful Tips for CLABSI Reporting for the Centers for Medicare and Medicaid Services’ Hospital Inpatient Quality Reporting Program \(CMS Reporting Program\)](#).”

*\*All NHSN timestamps are displayed in the UTC Time Standard. To convert UTC to Eastern Time:*

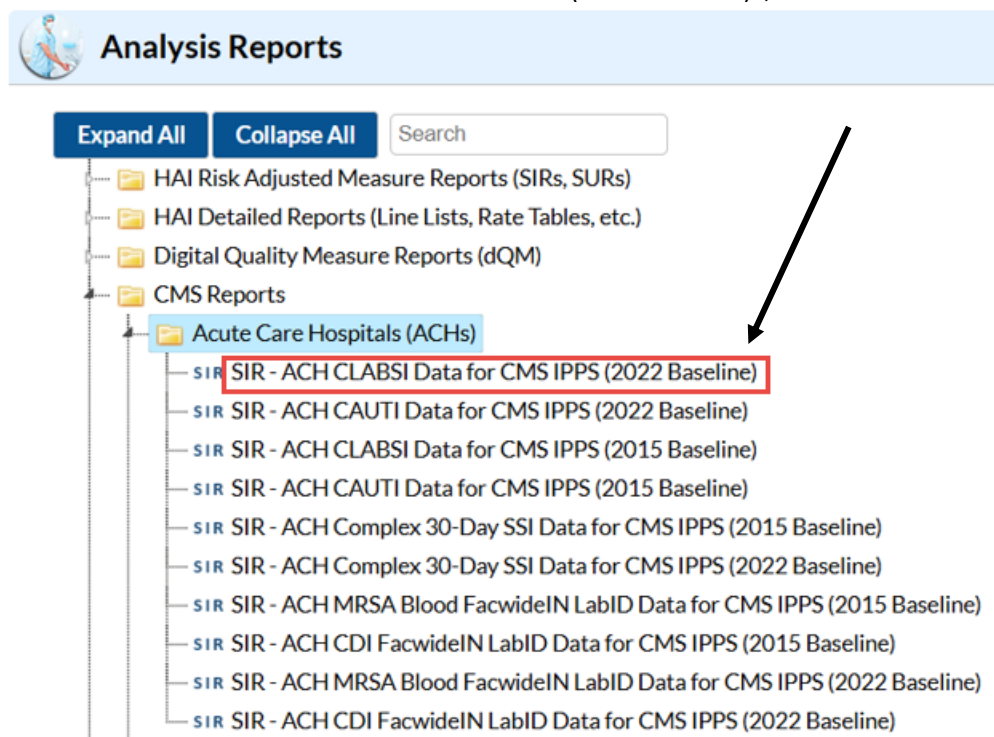
- *Between second Sunday in March – first Sunday in November: subtract 4 hours from UTC to get Eastern Daylight Time (EDT).*
- *Between first Sunday in November – second Sunday in March: subtract 5 hours from UTC to get Eastern Standard Time (EST).*

## Example of how to access, generate, interpret and perform data quality checks on the “SIR – CLABSI Data for CMS IPPS (2022 Baseline)”

Before running this output option, remember to generate your datasets for the most up-to-date data reported to NHSN by your facility! To generate datasets, go to Analysis > Generate Data Sets, then click “Generate Reporting Data Sets”.

Note: Within the CMS reports there are filters in place to capture in-plan data and CMS reportable locations.

1. After selecting Analysis > Reports, navigate through the following folders: CMS Reports > Acute Care Hospitals (ACHs). Click **Run** next to “SIR – CLABSI Data for CMS IPPS (2022 Baseline)”, as shown below:



2. By default, the results will appear in an HTML window. If a second window does not pop-up, please be sure to check your pop-up blocker and allow pop-ups from \*.cdc.gov.

Within the output, there will be 4 tables, each described below:

- i. SIR CLAB Data for Hospital IQR (2022 Baseline) – **By OrgID**

The first table represents an overall, single SIR for your facility, per calendar-year quarter, as shown below. This is the information that will be submitted to CMS for each IPPS-participating facility, as indicated by the facility's CCN.

## National Healthcare Safety Network

### SIR for Central Line-associated BSI Data in Acute Care Hospitals for CMS IPPS (2022 Baseline) - By OrgID

As of: July 17, 2025 at 5:38 PM

Date Range: All BS2\_CLAB\_RATES\_CMS

if (((bsiPlan = "Y") AND (locationType IN ("CC", "CC\_N", "CC\_ONC"))) OR ((bsiPlan = "Y") AND (locCDC IN ("IN:ACUTE:WARD:M", "IN:ACUTE:WARD:MS", "IN:ACUTE:WARD:S", "IN:ACUTE:WARD:M\_PED", "IN:ACUTE:WARD:MS\_PED", "IN:ACUTE:WARD:S\_PED"))))

orgID=10000 medType=''

orgID	ccn	summaryYQ	infCount	numPred	numcathdays	SIR	SIR_pval	sir95ci
10000	012345678	2025Q1	2	1.051	919	1.903	0.3729	0.319, 6.287
10000	012345678	2025Q2	1	0.165	150	.	.	.

Notice that the SIR will not be calculated if the number of predicted infection (numPred) is <1. Using the above table, one can conclude the following:

- This facility identified 2 CLABSI (infCount) among 919 central line days (numCLDays) during the 1<sup>st</sup> quarter of 2025 (2025Q1).
  - The number of CLABSI predicted (numPred), based on national data, was 1.051.
  - The overall SIR for this facility during this time period is 1.903, indicating that this facility observed approximately 90% more infections than expected.
  - Based on the p-value (SIR\_pval) and the 95% confidence interval (SIR95CI), the SIR for this facility is not statistically different from 1, indicating that there were not significantly fewer infections identified than were expected.
- ii. SIR CLAB Data for Hospital IQR (2022 Baseline)– By OrgID/Location Type
- The second table provides an SIR for each quarter and location type (e.g., ICU, NICU) with reported in-plan CLABSI data during each time period. “CC” in this table will represent all adult and pediatric ICUs; “CC\_N” will include all level 2/3 and level 3 neonatal ICUs; and “WARD” will include all adult and pediatric medical, surgical, and medical/surgical wards.

## National Healthcare Safety Network

### SIR for Urinary Catheter-associated UTI Data in Acute Care Hospitals for CMS IPPS (2022 Baseline) - By OrgID/Location Type

As of: July 17, 2025 at 5:38 PM

Date Range: All BS2 CAU\_RATES\_CMS

if (((utiPlan = "Y") AND (locationType IN ("CC", "CC\_ONC"))) OR ((utiPlan = "Y") AND (locCDC IN ("IN:ACUTE:WARD:M", "IN:ACUTE:WARD:MS", "IN:ACUTE:WARD:S", "IN:ACUTE:WARD:M\_PED", "IN:ACUTE:WARD:MS\_PED", "IN:ACUTE:WARD:S\_PED"))))

orgID=10000 medType=M

orgID	ccn	locationType	summaryYQ	infCount	numPred	numcathdays	SIR	SIR_pval	sir95ci
10000	012345678	CC	2025Q1	2	0.810	718	.	.	.
10000	012345678	CC_N	2025Q1	0	0.731	201	.	.	.
10000	012345678	CC_N	2025Q2	0	0.061	65	.	.	.
10000	012345678	WARD	2025Q2	1	0.060	63	.	.	.

The data in this table can be interpreted similar to the first SIR table, described above. Note that this table will allow you to see the how many CLABsIs and device days were reported in each location type, as defined by CDC.

iii. SIR for CLAB Data for Hospital IQR (2022 Baseline) – **By OrgID/CDC Location Code**

The third table provides an SIR for each quarter and CDC location (e.g., adult medical ICU, pediatric medical/surgical ICU). Note that if your facility reports data for more than one location of the same CDC type (for example, 2 medical ICUs), these locations will be grouped into one SIR in this table.

**National Healthcare Safety Network**

**SIR for Central Line-associated BSI Data in Acute Care Hospitals for CMS IPPS (2022 Baseline) - By OrgID/CDC Location Code**

As of: July 17, 2025 at 11:00 PM

Date Range: All BS2\_CLAB\_RATES\_CMS

if (((bsiPlan = "Y" ) AND (locationType IN ("CC", "CC\_N", "CC\_ONC" ) ) ) OR ((bsiPlan = "Y" ) AND (locCDC IN ("IN:ACUTE:WARD:M", "IN:ACUTE:WARD:MS", "IN:ACUTE:WARD:S", "IN:ACUTE:WARD:M\_PED", "IN:ACUTE:WARD:MS\_PED", "IN:ACUTE:WARD:S\_PED" ) ) ) )

orgID=10000 medType=G

orgID	ccn	loccdc	summaryYQ	infCount	numPred	numcathdays	SIR	SIR_pval	sir95ci
10000	012345678	IN:ACUTE:CC:C	2025Q1	2	0.810	718	.	.	
10000	012345678	IN:ACUTE:CC:NURS	2025Q1	0	0.731	201	.	.	
10000	012345678	IN:ACUTE:CC:NURS	2025Q2	0	0.061	65	.	.	
10000	012345678	IN:ACUTE:WARD:M	2025Q2	1	0.060	63	.	.	

iv. SIR for CLAB Data for Hospital IQR (2022 Baseline) – **By OrgID/Location**

The fourth table provides an SIR for each quarter and individual location within your facility. This is also the only table that will allow you to see how many months of data are included in each location's quarterly SIR.

For example, looking at the MH NICU location below, we can see that the “months” column shows a value of 1, indicating that only 1 month of data have contributed to the quarterly SIR for this location. This will indicate that the SIRs in this output option are incomplete and additional data checking is needed.

## National Healthcare Safety Network

### SIR for Central Line-associated BSI Data in Acute Care Hospitals for CMS IPPS (2022 Baseline) - By OrgID/Location

As of: July 17, 2025 at 11:00 PM

Date Range: All BS2 CLAB RATES CMS

if (((bsiPlan = "Y" ) AND (locationType IN ("CC", "CC\_N", "CC\_ONC" ) ) OR ((bsiPlan = "Y" ) AND (locCDC IN ("IN:ACUTE:WARD:M", "IN:ACUTE:WARD:MS", "IN:ACUTE:WARD:S", "IN:ACUTE:WARD:M\_PED", "IN:ACUTE:WARD:MS\_PED", "IN:ACUTE:WARD:S\_PED" ) ) )

orgid=10000 medType=' '

orgid	ccn	location	summaryYQ	months	infcount	numPred	numcathdays	SIR	SIR_pval	SIR95CI
10000	012345678	ICU	2025Q1	3	2	0.810	718	.	.	.
10000	012345678	LOTEAC	2025Q2	3	1	0.060	63	.	.	.
10000	012345678	MH NICU	2025Q2	1	0	0.061	65	.	.	.
10000	012345678	NICU	2025Q1	3	0	0.731	201	.	.	.

3. What can be done if data are incomplete, as in the MH NICU example above, or if the number of infections or central line days is incorrect?
  - i. Check that the summary data for this location have been entered for each month in the quarter. This includes central line days and patient days.
  - ii. If summary data have been entered, double-check your monthly reporting plan for each month in the quarter. Check to make sure that each location is included in your monthly reporting plan, with the CLABSI box checked.
  - iii. If summary data have been entered and no CLABSIs have been identified, be sure to check the 'Report No Events' box on the summary record, next to the Central Line days count.
  - iv. If the number of infections is less than you reported *and* you've confirmed that the summary data have been entered in-plan, double check the BSI events in NHSN: if central line is entered as "No", the event is *not* considered a CLABSI and will not appear in this report. Note that you can edit the event with the correct information.

**REMEMBER:** If you have made any changes to your data, regenerate your datasets to review your output options with the most up-to-date data in NHSN.

### Additional Resources

[CMS Resources for NHSN Users](#)

[Operational Guidance](#)

[Analysis Quick Reference Guides](#)

