Using the “SIR – CDI LabID Data for IRFQR” Report

This document applies to CMS Inpatient Rehabilitation Facility (IRF) units located within an acute care or critical access hospital. A similar document for free-standing IRFs can be found at: https://www.cdc.gov/nhsn/cms/index.html

The NHSN Analysis Report, “SIR - CDI LabID Data for IRFQR” was created in order to allow acute care or critical access hospitals to review those data from their CMS IRF units that would be submitted to CMS on their behalf. It’s important to keep in mind the following:

• These data will only be submitted for those facilities that are participating in the CMS Inpatient Rehabilitation Facility Quality Reporting Program (IRFQR), as indicated by their IRF’s CCN recorded in NHSN.

• The SIRs generated in this output will be calculated using the 2015 national baseline data. To learn more about the standardized infection ratio (SIR) under the 2015 baseline as it pertains to CDI data, please see: https://www.cdc.gov/nhsn/2015rebaseline/.

• This report will only include in-plan C. difficile LabID data for all CMS IRF units within an acute care or critical access hospital beginning with January 2015 data. Earlier time periods for which you may have reported CDI LabID data in your IRF unit will not be included in this output. Data that have previously been submitted to CMS for participation in the IRF Quality Reporting Program can be found at the following folders: Baseline Set 1 > CMS - Inpatient Rehabilitation Facilities (IRFQR) > Rate Table - CDI LabID Data for IRF PPS.

• IMPORTANT! Facilities must appropriately Report No Events for those locations and months for which no CDI LabID events were identified.

• This output option provides an SIR report for all CMS-certified IRF units within your facility. If your IRF unit shares a CCN with another facility, the SIRs will only represent the data that your IRF unit(s) has contributed to the overall SIR for all IRFs under that CCN. You may wish to use the Group function in NHSN to be able to view the SIRs for all IRFs that share a CCN. More information about the Group function can be found here: http://www.cdc.gov/nhsn/group-users/index.html.

• The data in this report will represent data current as of the last time you generated datasets. NOTE: Quarterly data are frozen as of the final submission date for that quarter (e.g., first quarter (Q1) data will be frozen as of 3am ET on August 16th); any changes made to these data in NHSN after the final submission deadline will not be reflected in the data submitted to CMS.

• The information in this document should be used in conjunction with the document, “How to Set Up NHSN Reporting for MRSA Bacteremia and C. difficile LabID events for the CMS Inpatient

**Example of the “SIR – CDI LabID Data for IRFQR”: Interpretation and Data Checking**

*Before running this report, 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 New”.*

1. After selecting Analysis > Reports, navigate through the following folders: CMS Reports > Inpatient Rehabilitation Facilities (IRFQR) > SIR - CDI LabID data for IRFQR. Click on the report title, and then click “Run Report” on the pop-up box that appears.

![Screenshot of the CMS Report selection process](image)

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.

3. Within the output, there may be multiple tables, each described below. *Data presented below are fictitious.*

   a. **SIR Example Report:**
      The table presents an SIR for all CMS IRF units mapped in your facility combined for each calendar quarter. This is the information that will be submitted to CMS for your facility.
Using the table above, one can conclude the following:

- For the fourth quarter of 2017 (2017Q4), IRF unit(s) reported three months of CDI LabID data for IRFQR.
  - In those three months, the IRF units reported 3 location-incident healthcare facility-onset (HO) CDI LabID events. For more information about the events that are counted in the numerator of the SIR, refer to the LabID SIR Troubleshooting document.
  - 3,300 patient days were reported for IRF units.
  - The number of predicted location-incident CDI LabID events was 2.073.
  - The SIR was 1.447, p-value was 0.4992, and 95% confidence interval (CI) was (0.368 – 3.939) for CDI LabID events during this time period.
  - Based on the p-value and the 95% confidence interval, the SIR for CDI LabID events is not statistically significantly different than the nominal value of 1 (i.e., significantly more events were observed than predicted).

NOTE: If the number of predicted events is less than 1, an SIR, p-value, and 95% confidence interval will not be calculated. However, assuming all other reporting requirements are met, the SIR data are considered “complete” and will still be submitted to CMS in order to comply with Quality Reporting Programs.

- Be sure to read the footnotes beneath the SIR report for important information about the SIR calculation.
b. SIR Risk Factors Example Report

“Risk Adjustment Factors for IRF CDI SIR”

The table below presents the SIR-associated risk factors included in the calculation of the SIR for CMS IRF units, for each calendar quarter. This information is provided to help facility’s understand the SIR calculation and ensure accuracy of each risk adjustment variable. This information is not directly submitted to CMS.

<table>
<thead>
<tr>
<th>orgID</th>
<th>summaryYQ</th>
<th>facType</th>
<th>cdiTestType</th>
<th>pctOrthoAdm</th>
<th>pctSpinalGroupAdm</th>
<th>pctStrokeAdm</th>
<th>numPatDays</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2017Q4</td>
<td>HOSP-GEN</td>
<td>NAAT</td>
<td>5.0541516</td>
<td>9.7472924</td>
<td>1.8050542</td>
<td>3300</td>
</tr>
</tbody>
</table>

The table above displays the values that are included in the calculation of your IRF’s CDI LabID Event SIR.

Additional details regarding the SIR risk factors can be found here: https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf

4. What can be done if data are incomplete, or if the number of LabID events or patient days is incorrect?
   a. Check that the summary data for the CMS IRF location(s) have been entered for each month in the quarter. This includes patient days and admissions.
   b. If summary data have been entered, double-check your monthly reporting plan for each month in the quarter. Check to make sure that the monthly reporting plans include the CMS IRF unit(s) for CDI LabID Data.
   c. If summary data have been entered and no CDI LabID events have been identified, be sure to check the ‘Report No Events’ box on the summary record.
   d. If the number of CDI LabID events is less than you reported and you’ve confirmed that the summary data have been entered in-plan, double check the LabID events in NHSN using the “Line Listing for All CDI LabID Events” output option.

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

Troubleshooting MRSA and CDI LabID Event SIR:
https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/mrsacdi_tips.pdf

CMS Resources for NHSN Users:
http://www.cdc.gov/nhsn/cms/index.html

Operational Guidance for IRFs to report CDI:

Analysis Quick Reference Guides: