



UPDATES TO PATIENT SAFETY ANALYSIS TREEVIEW MENU

NHSN Acute Care Analytics Team

October 2023

NHSN 11.6 Release

Audience

- Those who use the NHSN analysis features to analyze HAI data entered into the Patient Safety Component of NHSN
- NHSN facility and Group users who want to understand the recent changes made to the Patient Safety analysis treeview menu

Learning Objectives

By the end of this learning event, the user will be able to:

- Understand the rationale and timeline for the updated Patient Safety analysis treeview menu
- Identify the new parent folder and sub-folder structure

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- Current/New Treeview
- Two New Parent Folders

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LOG INTO NHSN

Logging into NHSN

- Go to <https://sams.cdc.gov>
- Use your grid card to log in
- Click on **NHSN Reporting**

SAMS
secure access management services

Menu

- My Profile
- Logout

Links

- SAMS User Guide
- SAMS User FAQ
- Identity Verification Overview

My Applications

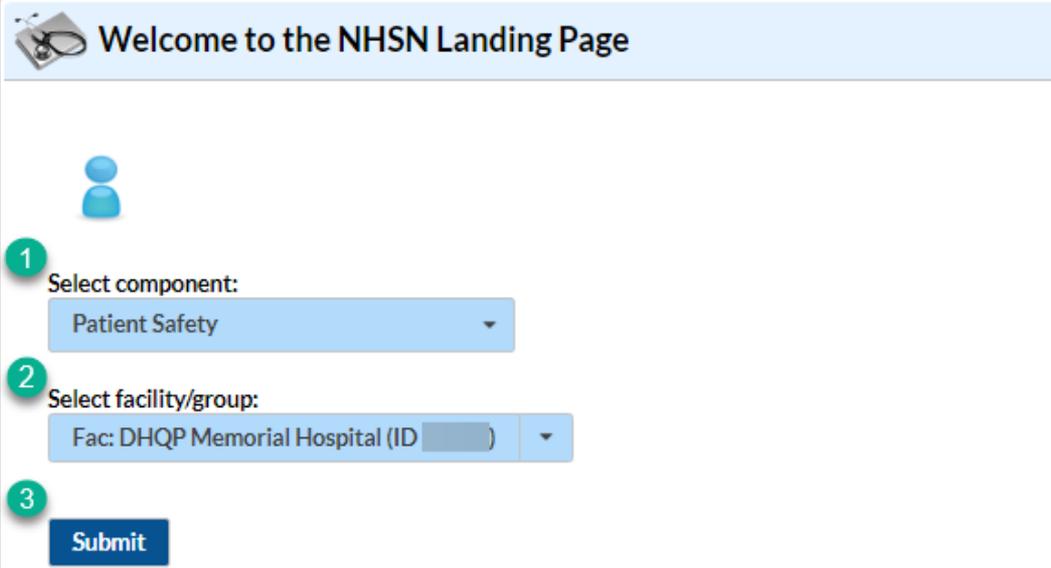
National Healthcare Safety Network System

- NHSN Reporting ***
- NHSN Enrollment *

* Strong credentials required.

NHSN Landing Page

- **Select** your component from the drop-down menu
- **Select** the facility/group
- **Click** Submit



Welcome to the NHSN Landing Page



1 Select component:
Patient Safety

2 Select facility/group:
Fac: DHQP Memorial Hospital (ID)

3 Submit

NHSN Patient Safety Home Page

- User rights determine which navigation bar options are available
- Locate the “Analysis” option in the navigation bar

NHSN - National Healthcare Safety Network

NHSN Home

- Alerts
- Dashboard ▶
- Reporting Plan ▶
- Patient ▶
- Event ▶
- Procedure ▶
- Summary Data ▶
- COVID-19 ▶
- Import/Export
- Surveys ▶
- Analysis ▶**
- Users ▶
- Facility ▶
- Group ▶
- Tools ▶
- Logout

NHSN Patient Safety Component Home Page

- ▶ TAP Strategy Dashboard
- ▶ TAS Dashboard
- ▶ HAI Pathogen Dashboard

Action Items

COMPLETE THESE ITEMS

- Mini-IRF Survey Required 2022
- Confer Rights Not Accepted

ALERTS

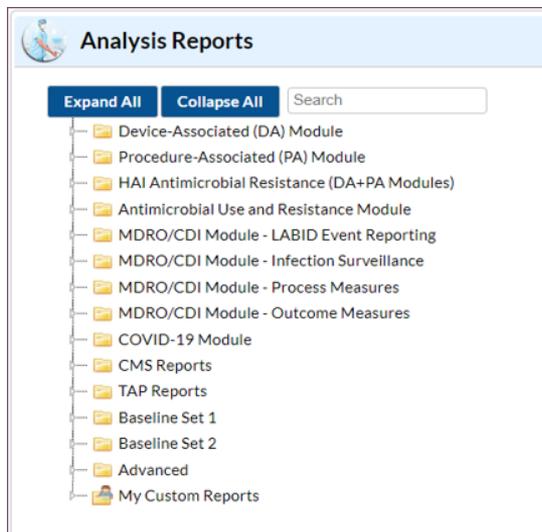
Rationale for Changing the Patient Safety Treeview Menu

WHY DO WE NEED A CHANGE

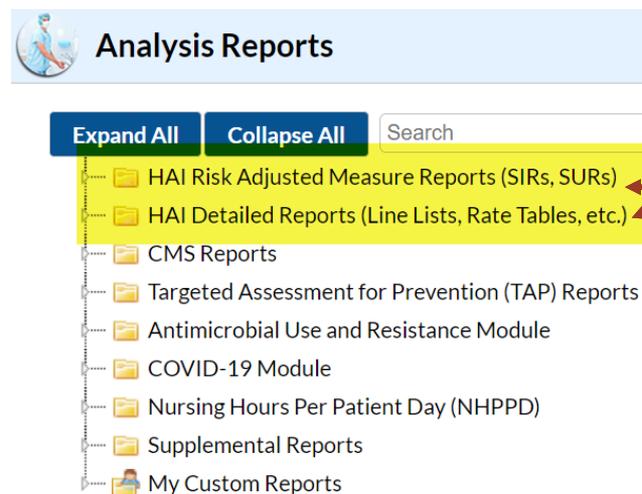
- The current treeview menu has been in place since the beginning of NHSN
- Changes were needed to:
 - Enhance the look and the feel, and improve general organization
 - Improve usability: cosmetic changes, updating terminology, acronyms, etc.
- Prepare for future analytic reports, including Rebaseline-related and digital quality measures (dQM) reports
- Updated folder organization will allow for a more intuitive navigation to desired analysis reports

Updated Treeview Layout

CURRENT TREEVIEW



NEW TREEVIEW



2 new folders

- Consolidated, new organization
- Two new parent folders at top of treeview (highlighted)
- New sub-folder structure within some of the existing folders
- **Note: No changes to Antimicrobial Use and Resistance Module, My Custom Reports or COVID-19 Module folders**

TWO NEW PARENT FOLDERS

- One parent folder for all SIRs and SURs: **“HAI Risk Adjusted Measure Reports”**
 - CMS program-specific SIRs can still be found in the CMS Reports folder (SIRs used for various CMS Quality Reporting Programs)
- Separate parent folder for all reports containing event-specific details: **“HAI Detailed Reports”**
- This structure requires NHSN users to decide, “up front”, if they want to run an SIR report or a detailed (e.g., line list) report



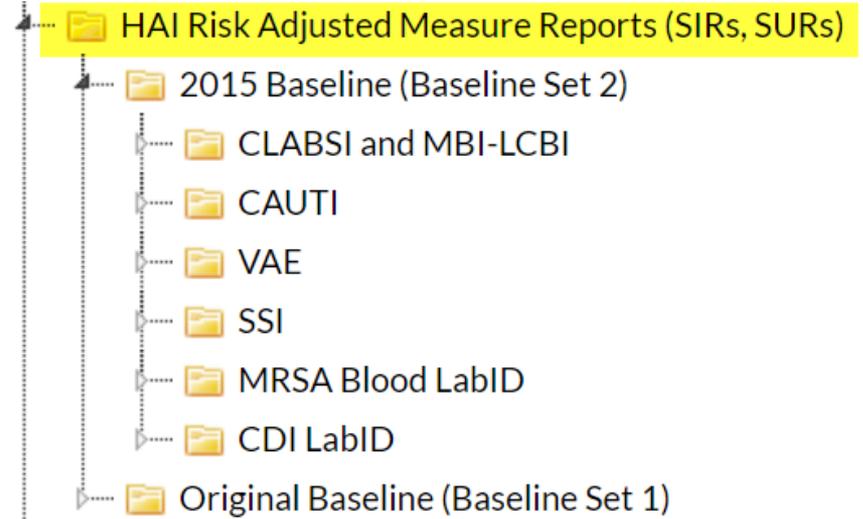
Analysis Reports

[Expand All](#)[Collapse All](#) HAI Risk Adjusted Measure Reports (SIRs, SURs) HAI Detailed Reports (Line Lists, Rate Tables, etc.) CMS Reports Targeted Assessment for Prevention (TAP) Reports Antimicrobial Use and Resistance Module COVID-19 Module Nursing Hours Per Patient Day (NHPPD) Supplemental Reports My Custom Reports

HAI Risk Adjusted Measure Reports

HAI RISK ADJUSTED MEASURE REPORTS

- Subfolder structure allows NHSN users to easily navigate between baselines
- NHSN users can clearly distinguish between baselines
- Under each baseline's folder, separate sub-folders will exist for each HAI type
- NHSN user can now navigate to the type of infection they intend to analyze



HAI RISK ADJUSTED MEASURE REPORTS

- Other reports, besides the SIR reports, can be found in this folder
- These reports will be applicable to the SIR or SUR calculations
- For example: BSI Events Excluded from the CLABSI SIR Numerator
 - Highlights the events that will not be included in the CLABSI SIR numerator

The screenshot displays the 'Analysis Reports' interface. At the top, there is a search bar and two buttons: 'Expand All' and 'Collapse All'. Below this, a tree view shows the following structure:

- HAI Risk Adjusted Measure Reports (SIRs, SURs)
 - 2015 Baseline (Baseline Set 2)
 - CLABSI and MBI-LCBI
 - SIR SIR - ACH MBI-LCBI Data (2015 Baseline)
 - SIR SIR - ACH CLABSI Data (2015 Baseline)
 - SUR SUR - ACH Central Line Device Use (2015 Baseline)
 - SIR SIR - CAH CLABSI Data (2015 Baseline)
 - SUR SUR - CAH Central Line Device Use (2015 Baseline)
 - SIR SIR - LTAC CLABSI Data (2015 Baseline)
 - SUR SUR - LTAC Central Line Device Use (2015 Baseline)
 - SIR SIR - IRF CLABSI Data (2015 Baseline)
 - SUR SUR - IRF Central Line Device Use (2015 Baseline)
 - Line Listing - BSI Events Excluded from the CLABSI SIR Numerator

HAI RISK ADJUSTED MEASURE REPORTS - Cont'd

- General clean-up of HAI and facility type acronyms used for sub-folder and report names
- SIR and SUR reports can be found, for all facility types, within the HAI-specific sub-folders
- SSI SIR Reports by surgeon were removed
 - Sorting or filter by surgeon is still an option on the modify reports screen
- Year of the baseline is included in report name and title

The screenshot displays the 'Analysis Reports' interface. At the top, there is a header with a person icon and the text 'Analysis Reports'. Below the header, there are three buttons: 'Expand All', 'Collapse All', and a search box. The main content is a tree view of folders and reports. The root folder is 'HAI Risk Adjusted Measure Reports (SIRs, SURs)'. Underneath it is a folder '2015 Baseline (Baseline Set 2)'. This folder contains several sub-folders: 'CLABSI and MBI-LCBI', 'CAUTI', 'VAE', and 'SSI'. The 'SSI' folder is highlighted in blue. Under the 'SSI' folder, there are several reports listed: 'SIR SIR - Adult Complex AR SSI Data (2015 Baseline)', 'SIR SIR - Adult All SSI Data (2015 Baseline)', 'SIR SIR - Adult All HOPD SSI Data (2015 Baseline)', 'SIR SIR - Pediatric Complex AR SSI Data (2015 Baseline)', 'SIR SIR - Pediatric All SSI Data (2015 Baseline)', and 'SIR SIR - Pediatric All HOPD SSI Data (2015 Baseline)'. Below these reports is a report with a flag icon: 'Line Listing - Procedures Excluded from SSI SIR (2015 Baseline)'. At the bottom of the tree view, there are two more folders: 'MRSA Blood LabID' and 'CDI LabID'.

HAI Detailed Reports

HAI DETAILED REPORTS

- This folder contains all other reports besides SIR and SUR reports:
 - Line Lists
 - Rate Tables
 - Pie Charts
 - Bar Charts
 - Frequency Tables
- Sub-folders are organized by module
- General clean-up of acronyms for HAIs and facility types (changing CDIF to CDI; CLAB TO CLABSI, etc.)

- HAI Detailed Reports (Line Lists, Rate Tables, etc.)
 - Device-Associated (DA) Module
 - CLABSI
 - MBI-LCBI
 - VAP
 - VAE
 - PEDVAE
 - CAUTI
 - CLIP
 - Procedure-Associated (PA) Module
 - All Procedure-Associated Events
 - SSIs
 - HAI Antimicrobial Resistance (DA+PA Modules)
 - MDRO/CDI Module - LABID Events
 - MRSA LabID Events
 - C. difficile LabID Events
 - VRE LabID Events
 - All CRE LabID Events
 - CRE-Klebsiella LabID Events
 - CRE-Ecoli LabID Events
 - CRE-Enterobacter LabID Events
 - CephR-Klebsiella LabID Events
 - Acinetobacter LabID Events
 - MSSA LabID Events
 - All LabID Events

HAI DETAILED REPORTS

- Changes to the DA Module folder:
 - No major changes, aside from acronym updates
 - *Line Listing – BSI Events Excluded from SIR Numerator*: this report now lives in the HAI Risk Adjusted Measure Reports folder

- Changes to PA Module folder:
 - Moved post-procedure pneumonia (PPP) reports out of the standard PA Module folder and into the Supplemental Reports folder
 - Added SSI rate tables and run charts into the SSI sub-folder (previously housed in “Advanced” folder)

- Changes to MDRO/CDI Module folder:
 - Re-ordered the organism-specific sub-folders
 - Moved Process and Outcome Measures to Supplemental Reports

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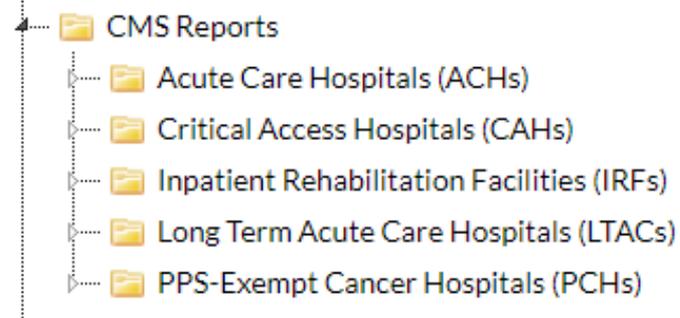
graph TD
    DA[Device-Associated (DA) Module] --> CLABSI[CLABSI]
    CLABSI --> CLABSI_LL[Line Listing - All CLABSI Events]
    CLABSI --> CLABSI_FT[Frequency Table - All CLABSI Events]
    CLABSI --> CLABSI_BC[Bar Chart - All CLABSI Events]
    CLABSI --> CLABSI_PC[Pie Chart - All CLABSI Events]
    CLABSI --> CLABSI_RT1[Rate Table - CLABSI Data for ICU-Other]
    CLABSI --> CLABSI_RC1[Run Chart - CLABSI Data for ICU-Other]
    CLABSI --> CLABSI_RT2[Rate Table - CLABSI Data for NICU]
    CLABSI --> CLABSI_RC2[Run Chart - CLABSI Data for NICU]
    CLABSI --> CLABSI_RT3[Rate Table - CLABSI Data for SCA/ONC]
    CLABSI --> CLABSI_RC3[Run Chart - CLABSI Data for SCA/ONC]

    PA[Procedure-Associated (PA) Module] --> PA_APE[All Procedure-Associated Events]
    PA --> PA_SSI[SSIs]
    PA --> PA_HAI[HAIs Antimicrobial Resistance (DA+PA Modules)]

    MDRO[MDRO/CDI Module - LABID Event Reporting] --> MRSA[MRSA LabID Events]
    MRSA --> MRSA_LL[Line Listing for All MRSA LabID Events]
    MRSA --> MRSA_FT[Frequency Table for All MRSA LabID Events]
    MRSA --> MRSA_BC[Bar Chart for All MRSA LabID Events]
    MRSA --> MRSA_PC[Pie Chart for All MRSA LabID Events]
    MRSA --> MRSA_RT[Rate Table - All MRSA LabID Data]
  
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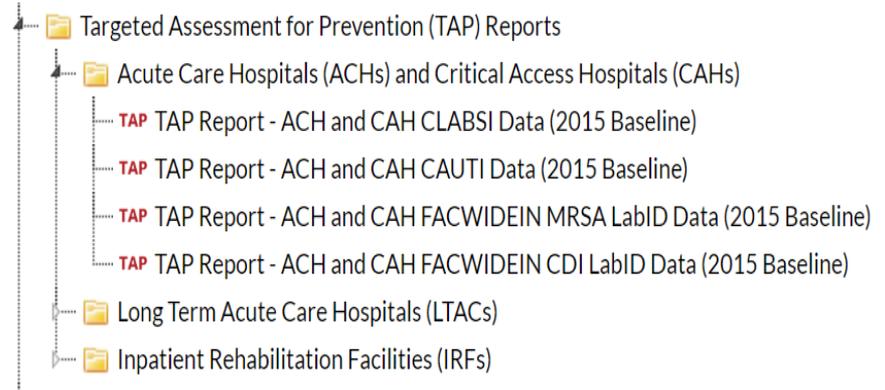
CMS REPORTS

- Sub-folders still exist for each facility type
- The SIRs *currently* used by CMS will be displayed by default in each folder
 - Baseline year listed at the end of report name
 - Consistent acronyms used for Quality Reporting Programs (QRPs)



TAP REPORTS

- First facility type folder name now includes both ACHs and CAHs (no change to data)
- CLAB and CAU changed to CLABSI and CAUTI
- (2015 Baseline) added to all report names
- When applicable, an **Archive** sub-folder will be created, for each facility type, to house the TAP reports on historical baseline



SUPPLEMENTAL REPORTS

- Name change: “Advanced” folder has been **renamed** to “Supplemental Reports”
 - Folder called “Advanced” houses additional reports, such as Annual Survey line lists, that didn’t fit into any of the existing folders
 - Nothing “Advanced” about these reports
 - New folder name is user-friendly and more accurate
- We hope this user-friendly name will encourage users to navigate to this folder when needed
- No other changes to this folder

The screenshot shows a navigation menu for 'Analysis Reports'. At the top, there is a search bar and two buttons: 'Expand All' and 'Collapse All'. Below these are several folder items, each with a folder icon and a text label. The 'Supplemental Reports' folder is highlighted in yellow, and a red arrow points to it from the right. Below the main list, the 'Supplemental Reports' folder is expanded, showing a sub-list of items, also with folder icons and text labels. The items in the expanded folder are: Patient-level Data, Event-level Data, Procedure-level Data, Summary-level Data, Plan Data, Pathogen-level Data, Facility-level Data, Vendor Information, Data Quality, and Historical COVID-19 Module Reports.

Analysis Reports	
Expand All	Collapse All
Search	
Folder icon	HAI Risk Adjusted Measure Reports (SIRs, SURs)
Folder icon	HAI Detailed Reports (Line Lists, Rate Tables, etc.)
Folder icon	CMS Reports
Folder icon	Targeted Assessment for Prevention (TAP) Reports
Folder icon	Antimicrobial Use and Resistance Module
Folder icon	COVID-19 Module
Folder icon	Nursing Hours Per Patient Day (NHPPD)
Folder icon	Supplemental Reports
Folder icon	My Custom Reports
Folder icon	Supplemental Reports
Folder icon	Patient-level Data
Folder icon	Event-level Data
Folder icon	Procedure-level Data
Folder icon	Summary-level Data
Folder icon	Plan Data
Folder icon	Pathogen-level Data
Folder icon	Facility-level Data
Folder icon	Vendor Information
Folder icon	Data Quality
Folder icon	Historical COVID-19 Module Reports

Additional Resources

ADDITIONAL TRAINING RESOURCES

- Additional information is available in the Patient Safety Treeview Quick Reference Guide, available here: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/ref-guide/treeview-quick-reference-guide-508.pdf>

Service Now Cases/Questions

- Please use Subject Line: **Treeview Question**
- Your case will be assigned to one of three SME's that have in-depth knowledge of the treeview changes in the following areas.
 - Procedure Associated (PA)
 - Device-Associated (DA)
 - MDRO/CDI
- NHSN@cdc.gov email address can still be used for those who do not have access to Service Now

For more information, please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333

Telephone, 1-800-CDC-INFO (232-4636) / TTY: 1-888-232-6348

E-mail: cdcinfo@cdc.gov Web: www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.