

NHSN Analysis Training 2024

TDH HAI/AR Program | 2024

Housekeeping

- This call will be recorded, with recording and slides posted to the State HAI website
- Please use the chat-box for any questions.



Agenda

- Updates for 2024
 - Antibiotic Use and Resistance (AUR) Module Ratios
 - Bloodstream Infection Event (CLABSI) Module Ratios
- Analysis Tools
 - Standardized Infection Ratio (SIR)
 - SIR Models
 - Standardized Utilization Ratio (SUR)
 - SUR Models
 - Cumulative Attributable Difference (CAD)
 - Adjusted Ranking Metric (ARM)

NHSN Analysis Report Tree

- Navigating Tree
- Modifying Reports
- Creating Custom Report





2024 Updates

Summary of Changes

- Additions
 - Updated AR SRIR & pSIR section
 - Including adding quick reference analysis guides
- Clarifications
 - Predicted event calculations for CLABSI SIR

2022 Rebaseline Coming Soon



Additions: Analysis Guides

- Antimicrobial Resistance Module's
 - Standardized Resistant Infection Ratio (SRIR) $SRIR = \frac{\# \text{ Observed Resistant Infections}}{\# \text{ Predicted Resistant Infections}}$

- Pathogen-specific Standardized Infection Ratio (pSIR) section

 $pSIR = \frac{\# \text{ Observed Infections of Specific Pathogens}}{\# \text{ Predicted Infections of Specific Pathogens}}$

 Including added quick reference analysis guides (linked in Resources)



Clarifications: 2023 Version

Types of CLABSI Analysis Reports

Standardized Infection Ratio (SIR):

The standardized infection ratio (SIR) is calculated by dividing the number of observed events by the number of predicted events. The number of predicted events is calculated using probabilities estimated from negative binomial models constructed from 2015 NHSN data, which represents the baseline population.

For more information on SIR and the CLABSI parameter estimates, please see the SIR guide:

https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf.

 $SIR = \frac{Observed(O) HAIs}{Predicted(P) HAIs}$



Types of CLABSI Analysis Reports

Standardized Infection Ratio (SIR):

The standardized infection ratio (SIR) is calculated by dividing the number of observed events by the number of predicted events. The number of predicted events is calculated using probabilities estimated from statistical models constructed from national NHSN data, which represents the baseline population. For more information on SIR and the CLABSI parameter estimates, please see the SIR guide: https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf.

 $SIR = \frac{Observed(O) HAIs}{Predicted(P) HAIs}$



CDC Rebaseline Effort

- 2022 Rebaseline Coming Soon
 - New baseline year will be 2022
 - Used for all SIR and SUR calculations
 - CDC's goal to have all new reports by end of 2024
 - Current details on the process included in the Resources section





Analysis Tools

Standardized Infection Ratios

- Adjusts for complexity of patients receiving care at your facility
- Adjusts for lab testing methods (CDI)
- Allows for scalability (facility-wide CLABSI SIR vs. unitspecific rates)
- Requires a baseline, progress can be measured



Standardized Infection Ratio (SIR)

$SIR = \frac{Observed (O) HAIs}{Predicted (P) HAIs}$

- Observed HAIs = sum of all HAIs
- Predicted HAIs = sum of factors from model* used

- SIR < 1.0 : Actual infections are LESS than predicted infections
- SIR > 1.0 : Actual infections are MORE than predicted infections
- SIR = 1.0 : Actual infections are EQUAL to predicted infections



*Logistic Regression vs Negative Binomial Regression

Standardized Infection Ratios (Models)

Healthcare-associated Infection (HAI) Type	Model Type
SSIs	★ Logistic Regression Model
CLABSIs, CAUTIs, VAEs, LabID MRSA, and LabID CDI	Negative Binomial Regression Model



Standardized Infection Ratios (Predicted SSIs)

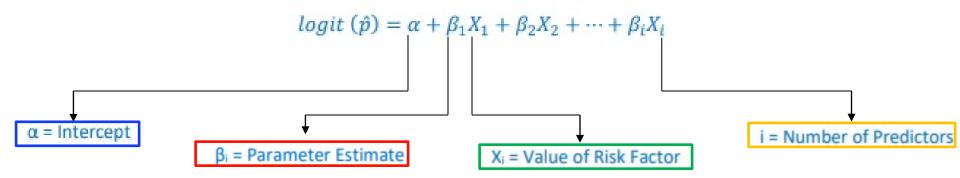


Table 1. Risk Factors for SSI HYST: Complex 30-Day Model (2015 Baseline)

Factor	Parameter Estimate	P-value	Variable Coding
Intercept	-5.1801	-	
Diabetes	0.3247	<0.0001	Yes= 1 No= 0
ASA Score	0.4414	<0.0001	1= 1 2= 2 3= 3 4/5= 4
Body Mass Index (BMI)	0.1106	0.0090	≥ 30= 1 < 30= 0
Patient Age	-0.1501	< 0.0001	Patient's age/10
Oncology Hospital	0.5474	0.0005	Oncology hospital= 1 Non-oncology hospital= 0



Standardized Infection Ratios (Predicted SSIs)

 $logit\,(\hat{p}) = \alpha + \beta_1 X_1 + \beta_2 X_2 + \dots + \beta_i X_i$

 $logit (\hat{p}) = -5.1801 + 0.3247 (DIABETES) + 0.4414 (ASA) + 0.1106 (BMI) - 0.1501 (AGE) + 0.5474 (ONCOLOGY HOSPITAL)$

 $logit(\hat{p}) = -5.1801 + 0.3247(1) + 0.4414(2) + 0.1106(0) - 0.1501(3.2) + 0.5474(1) = -3.9055$

Variable Coding
-
Yes= 1
No = 0
1= 1
2 = 2
3 = 3
4/5 = 4
≥ 30 = 1
< 30 = 0
Patient's age/10
Oncology hospital= 1
Non-oncology hospital= 0

1

$$\hat{p} = \frac{e^{\log it(\hat{p})}}{1 + e^{\log it(\hat{p})}}$$
$$\hat{p} = \frac{e^{-3.9055}}{1 + e^{-3.9055}}$$
$$\hat{p} = 0.020$$

"There is a 2% risk of SSI for Patient 1 undergoing this surgery."

- 0.040

Standardized Infection Ratios (Calculating SSI SIRs)

Table 2. Ki	sk Factors to	r 100 Patients	onder	going a	A HYST Procedure (Com	iplex 30-Day model)	
Patient	Diabetes	ASA score	BMI	Age	Oncology Hospital	SSI Identified?	Probability of SSI (\widehat{p})
1	Y	2	29	32	Y	1	0.020
2	Ν	3	35	49	Υ	0	0.019
3	N	5	20	51	Y	1	0.026
1.11							
100	Ν	4	27	27	Y	0	0.037
TOTAL						8 (observed SSIs)	6.750 (predicted SSIs)

Table 2 Pick Easters for 100 Patients Undergoing a HVST Procedure (Complex 20-Day model)

 $SIR = \frac{Observed(O) HAIs}{Predicted(P) HAIs} = \frac{8}{6.750} = 1.190$



Standardized Infection Ratios (Models)

Healthcare-associated Infection (HAI) Type	Model Type
SSIs	Logistic Regression Model
CLABSIs, CAUTIs, VAEs, LabID MRSA, and LabID CDI	Negative Binomial Regression Model



Standardized Infection Ratios (Predicted CDIs)

$$log(\lambda) = \alpha + \beta_1 X_1 + \beta_2 X_2 + \dots + \beta_i X_i$$

 α = Intercept

β_i = Parameter Estimate

Xi = Value of Risk Factor (Categorical variables: 1 if present, 0 if not present)

i = Number of Predictors

Table 3. Risk Factors Used in the Acute Care Hospital CDI LabID Event Model

Factor	Parameter Estimate	P-value
Intercept	-8.9463	< 0.0001
Inpatient community-onset (CO) admission prevalence rate	0.7339	< 0.0001
CDI test type= EIA	-0.1579	< 0.0001
CDI test type= NAAT	0.1307	< 0.0001
# ICU beds: ≥ 43	0.7465	< 0.0001
# ICU beds: 20-42	0.7145	< 0.0001
# ICU beds: 10-19	0.6261	< 0.0001
# ICU beds: 5-9	0.4394	< 0.0001
Oncology hospital (facility type = HOSP-ONC)	1.2420	< 0.0001
General acute care hospital (facility type = HOSP-GEN)	0.3740	< 0.0001
Total facility bed size	0.0003	< 0.0001
CDI LabID surveillance in ED or 24-hour observation location(s)	0.1119	< 0.0001
Teaching facility (major, graduate, or undergraduate)	0.0331	0.0028



Standardized Infection Ratios (Predicted CDIs)

predicted HO CDI = Exp [-8.9463

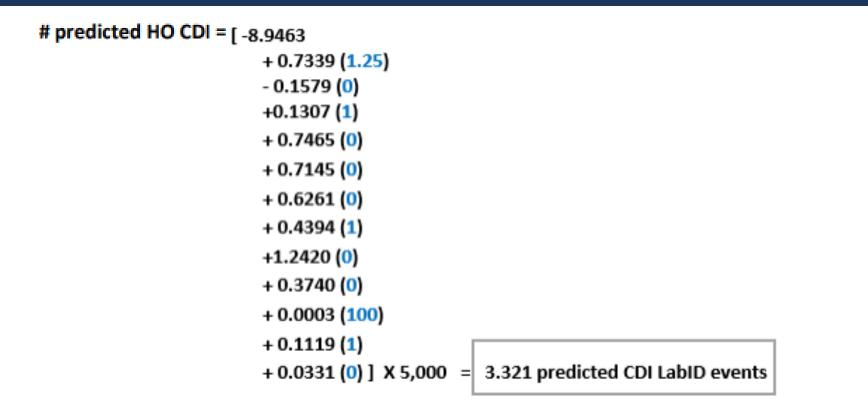
- + 0.7339 (CO prevalence rate)
- 0.1579 (CDI test type = EIA)
- +0.1307 (CDI test type = NAAT)
- + 0.7465 (ICU beds ≥ 43)
- + 0.7145 (ICU beds: 20-42)
- + 0.6261 (ICU beds: 10-19)
- + 0.4394 (ICU beds: 5-9)
- +1.2420 (Oncology hospital)
- + 0.3740 (General hospital)
- + 0.0003 (Total facility bed size)
- +0.1119 (Reporting from ED or 24 hr. Obs)
- + 0.0331 (Teaching hospital)] X CDI patient days

predicted HO CDI = Exp [-8.9463

+ 0.7339 (1.25) - 0.1579 (0) +0.1307 (1) + 0.7465 (0) + 0.7145 (0) + 0.6261 (0) + 0.4394 (1) +1.2420 (0) + 0.3740 (0) + 0.0003 (100) + 0.1119 (1)

+ 0.0331 (0)] X 5,000 = 3.321 predicted CDI LabID events





 $SIR = \frac{5 \text{ observed HO CDI LabID events}}{3.321 \text{ predicted HO CDI LabID events}} = 1.506$

Standardized Utilization Ratios

SUR = $\frac{Observed (O) device days}{Predicted (P) device days}$

- Observed Device Days = sum of all Device Days
- Predicted Device Days = sum of factors from model

- SUR < 1.0 : Actual Device Days are LESS than predicted Device Days
- SUR > 1.0 : Actual Device Days are MORE than predicted Device Days
- SUR = 1.0 : Actual Device Days are EQUAL to predicted Device Days



Standardized Utilization Ratio (Predicted NICU Central Line Days)

$log(\lambda) = \alpha + \beta_1 X_1 + \beta_2 X_2 + \dots + \beta_i X_i$

 $\alpha = Intercept$

β_i = Parameter Estimate

X_i = Value of Risk Factor (Categorical variables: 1 if present, 0 if not present)

i = Number of Predictors

Table 1. Factors Predicting Unit Level Central Line Use; Central Line SUR, NICU (2015 Baseline)

Factor	Variable Coding	Parameter Estimate	P-value
Intercept	-	-1.7745	<0.0001
Major Teaching Hospital	Yes = 1 No = 0	0.1538	<0.0001
General Hospital	General Hospital= 1 Other hospital type= 0	-0.5650	<0.0001
Location	IN:ACUTE:CC:NURS= 1 IN:ACUTE:CC_STEP:NURS= 0	0.1781	<0.0001
Facility Bed Size	≥460 beds= 1 325-459 beds= 1 212-324 beds= 1 36-211 beds= 0	0.2783 0.1770 0.0987	<0.0001 <0.0001 0.0330
Birthweight	Birthweight Code A= 1 Birthweight Code B= 1 Birthweight Code C= 1 Birthweight Code D/E= 0	1.3932 1.0765 0.6519	<0.0001 <0.0001 <0.0001



Standardized Utilization Ratio (Predicted NICU Central Line Days)

 $logit (\hat{p}) = -1.7745 + 0.1538(MAJOR TEACHING HOSPITAL) - 0.5650(GENERAL HOSPITAL)$ + 0.1781(NICU) + 0.0987(BEDSIZE BETWEEN 212 - 324)+ 1.3932(BIRTHWEIGHT CODE A)

 $logit(\hat{p}) = -1.7745 + 0.1538(1) - 0.5650(1) + 0.1781(1) + 0.0987(1) + 1.3932(1) = -0.5157$

$$\hat{p} = \frac{e^{\log it(\hat{p})}}{1 + e^{\log it(\hat{p})}}$$
$$\hat{p} = \frac{e^{-0.5157}}{1 + e^{-0.5157}}$$
$$\hat{p} = 0.3739$$

number of predicted central line days = 0.3739×155 number of predicted central line days = 57.9545



Standardized Utilization Ratio (Predicted NICU Central Line Days)

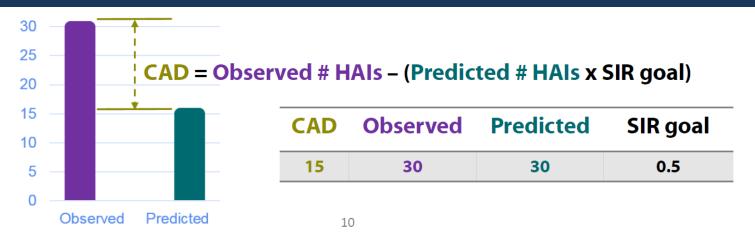
Table 2. Central Line SUR for a Level III NICU

<u>Birthweight</u> <u>Code</u>	Major Teaching Affiliation	<u>NIC</u> U	<u>General</u> Hospital	Facility Bed Size	<u>Patient</u> <u>Days</u>	<u>Probability of</u> <u>CL use (p̂)</u>	<u>Total</u> <u>Predicted</u> <u>Device Days</u>
Α	Y	Υ	Y	300	155	.3739	57.9545
В	Y	Υ	Y	300	82	.3031	24.8542
С	Y	Y	Y	300	90	.2215	19.9350
D/E	Y	Y	Y	300	56	.1291	7.2296
Total							109.9733

 $SUR = \frac{Observed(O) CL Days}{Predicted(P) CL Days} = \frac{270}{109.9733} = 2.4551$



Cumulative Attributable Difference



- Provides the number of infections needed to prevent in order to reach reduction goal
- CAD is not a comparison metric like SIR
 - Detects burden of infection
 - Positive CAD = additional burden of infections than what would be predicted for the SIR goal ("excess" infections)
 - Negative CAD = fewer infections than what would be predicted



SIR vs CAD

Rural

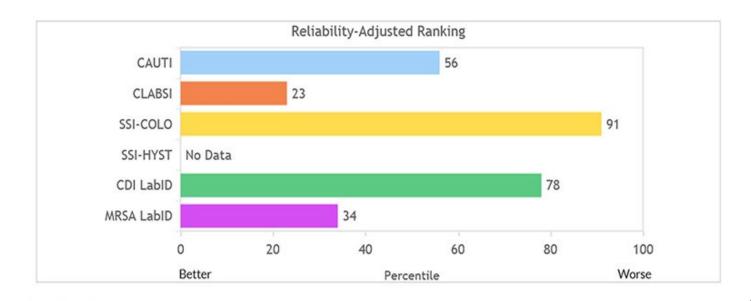
1,000

S	Standardized Infection Ratio SIR			Cu	mulative At Differer CAD	ice		
 Ratio of observed to predicted infections Summary measure used to track HAIs at a national, state, or local level over time Risk adjusted Used as a <i>comparative</i> metric 		preveSumm preveInflue	nfections than nted to achie nary measur ntion nced by exp as a <i>priorit</i>	eve SIR go e to target osure size	al			
/	Hospital	Patient days	Observed	F	Predicted	SIR	CAD	
	Major Teaching	9,000	27		9	3	18	



Adjusted Ranking Metric (ARM)

- The ARM accounts for differences in volume of exposure (specifically denominator) between facilities and is preferable for ranking facilities.
- Annual, facility-specific Reliability-Adjusted Rankings based on the ARM are displayed as percentiles on the Reliability-Adjusted Ranking dashboard within NHSN.
- Dashboard deactivated temporarily.
 - Users will receive notification when it reactivates.



Adjusted Ranking Metric (ARM)

- The ARM is calculated as a ratio of numerator divided by denominator
 - The ARM denominator is identical to that of the SIR.

ARM

SIR

Reliability adjusted number of events

Risk adjusted predicted number of events

Number of events

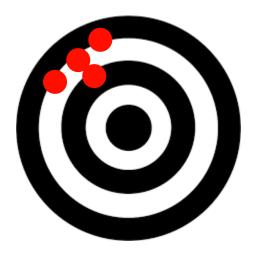
Risk adjusted predicted number of events



ARM – Reliability Adjustment



(Contemporal of the second sec



Precise/Reliable



ARM vs SIR

Adjusted Ranking Metric (ARM)	Standardized Infection Ratio (SIR)
 Shared on the Reliability-Adjusted Ranking dashboard for ACHs 	Generated in Analysis Reports
 Allows for facility comparison to other ACHs in the U.S. 	 Allows for facility comparison to static national baseline
 Adjusts for volume of exposure between facilities as well as risk adjustment 	Risk-adjusted for each facility
Preferable for ranking facilities	Used for target setting and for tracking HAIs over time
Calculated annually by NHSN	Scalable measure, partially controlled by the individual user
 Displayed as a percentile where lower percentiles imply better performance 	 Value of measure is subject to change when data are added, edited, or deleted in NHSN
	 Time period for calculation can be modified by user
	 Used by CMS as part of pay-for-reporting and pay-for- performance programs





NHSN Analysis Report Tree

NHSN Analysis Report Tree

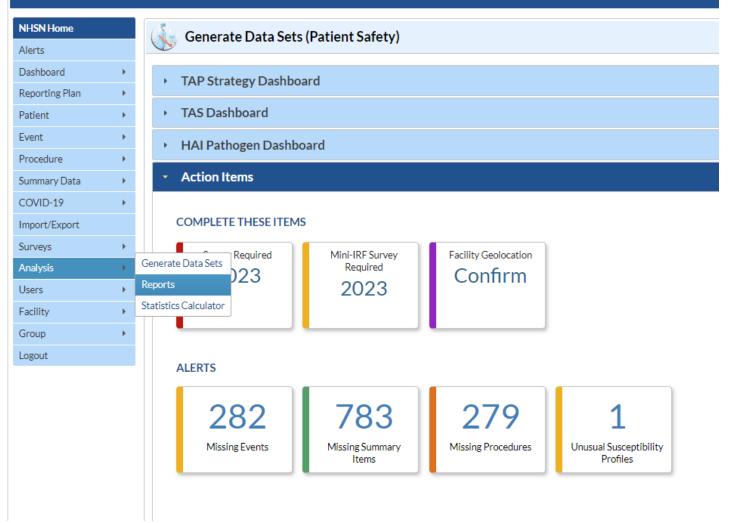
NHSN - National Healthcare Safety Network

Kelcome to the NH	ISN	Landing Page
Ashley.Gambrel	ll@t	n.gov
Select component:		
Patient Safety		•
Select facility/group:		
Fac: TDH Central (ID 15813)	-	
Submit		,



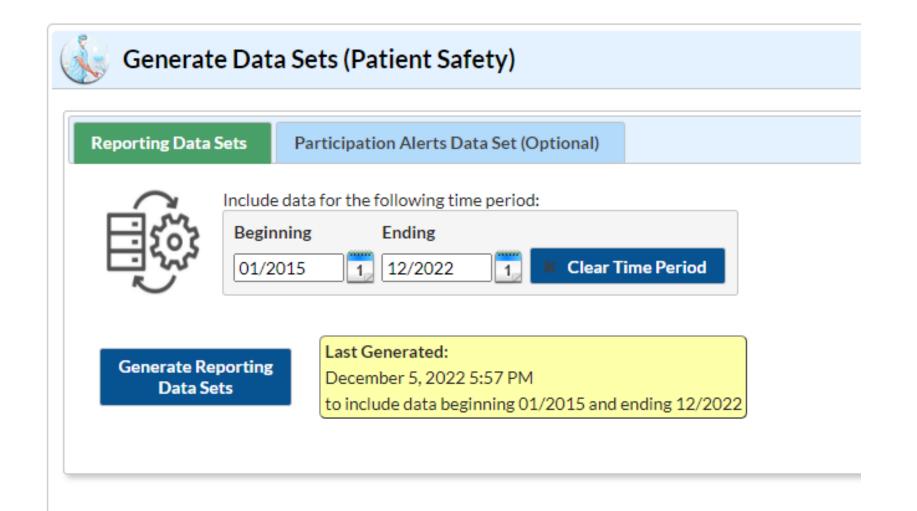
NHSN Analysis Report Tree

NHSN - National Healthcare Safety Network



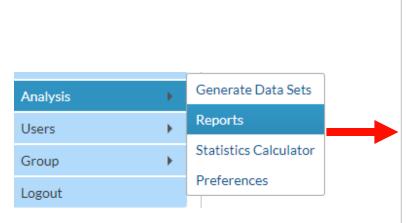


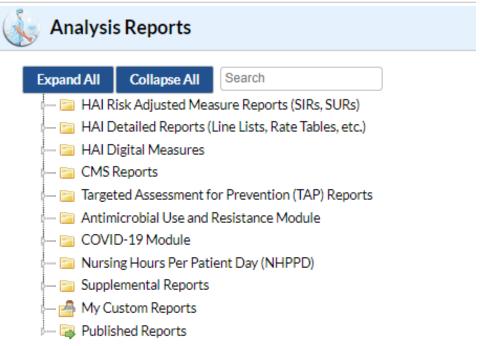
Updating Datasets





NHSN Analysis Report Tree







NHSN Analysis Report Tree

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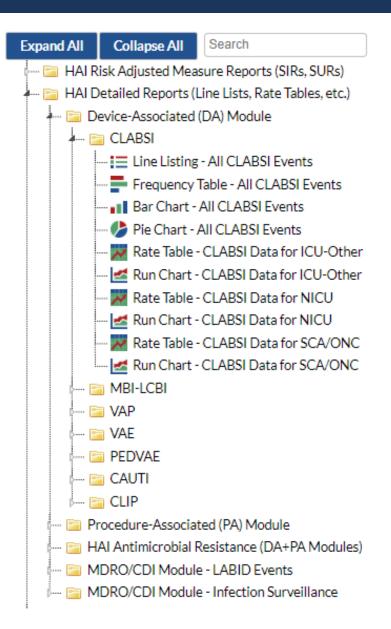
NHSN - National Healthcare Safety Network

ISN Home		Analysis Reports					
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atient	•	🦛 🚞 2015 Baseline (Baseline Set 2)					
		🔚 CLABSI and MBI-LCBI					
vent	- P	📄 CAUTI					
rocedure	- F	🚞 VAE					
ummary Data	•	🚞 SSI					
		🚘 MRSA Blood LabID					
OVID-19	•	🖂 🗁 🔚 CDI LabID					
mport/Export		🦾 📴 Original Baseline (Baseline Set 1)					
urveys		🚘 HAI Detailed Reports (Line Lists, Rate Tables, etc.)					
ui veys	· ·	🖙 🔚 HAI Digital Measures					
Analysis	•	🚞 CMS Reports					
Jsers	•	🔤 Targeted Assessment for Prevention (TAP) Reports					
acility		🚞 Antimicrobial Use and Resistance Module					
actificy	· · ·	🚞 COVID-19 Module					
Group	•	🚞 Nursing Hours Per Patient Day (NHPPD)					
ogout		🚞 Supplemental Reports					
		🚰 My Custom Reports					
		- 🔁 Published Reports					

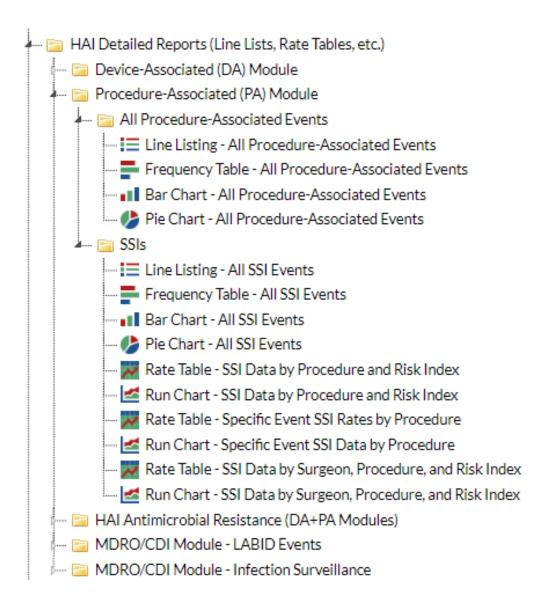


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eporting Plan	•	🔚 HAI Risk Adjusted Measure Reports (SIRs, SURs)
Patient	•	🚛 📄 2015 Baseline (Baseline Set 2)
vent	•	CLABSI and MBI-LCBI
Procedure	•	
Summary Data	•	sur SUR - ACH Central Line Device Use (2015 Baseline) sur SIR - CAH CLABSI Data (2015 Baseline)
COVID-19	•	
mport/Export		
Surveys	•	
Analysis	•	sur SUR - IRF Central Line Device Use (2015 Baseline)
Users	•	Events Excluded from the CLABSI SIR Numerator
Facility	•	📴 CAUTI
		🔁 VAE
Group	•	e 🔚 SSI
Logout		🚘 MRSA Blood LabID
		jeen 📴 CDI LabID
		/ 📴 Original Baseline (Baseline Set 1)
		HAI Detailed Reports (Line Lists, Rate Tables, etc.)
		🔚 HAI Digital Measures
		Antimicrobial Use and Resistance Module
		COVID-19 Module
		- Source I Structure
		🔚 Supplemental Reports

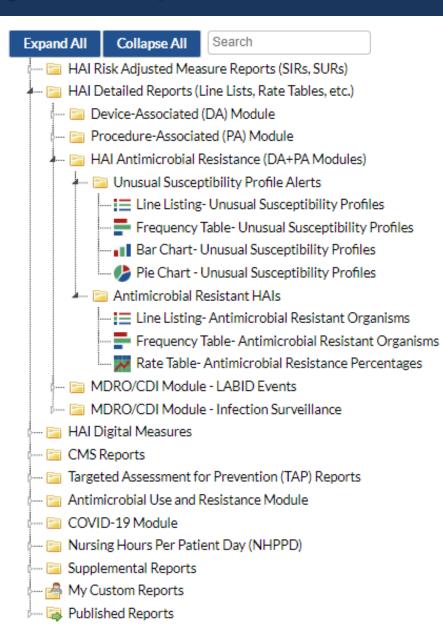




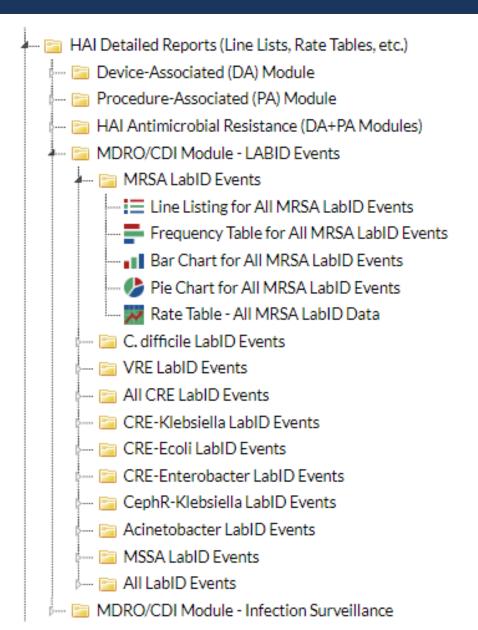








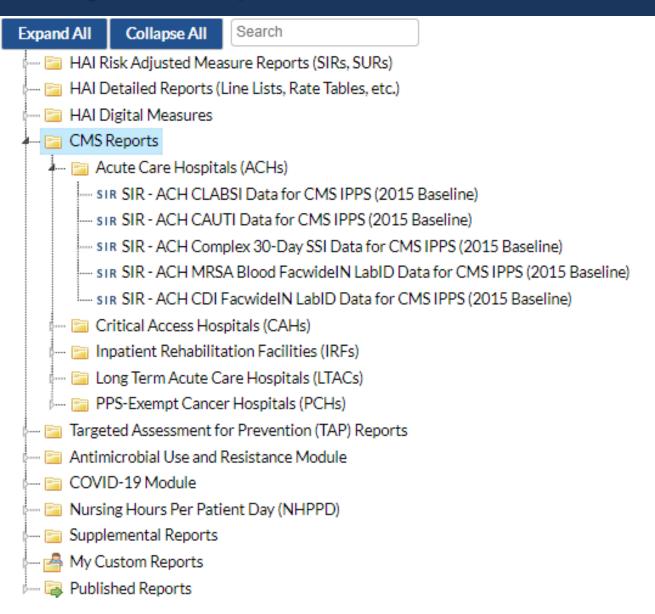




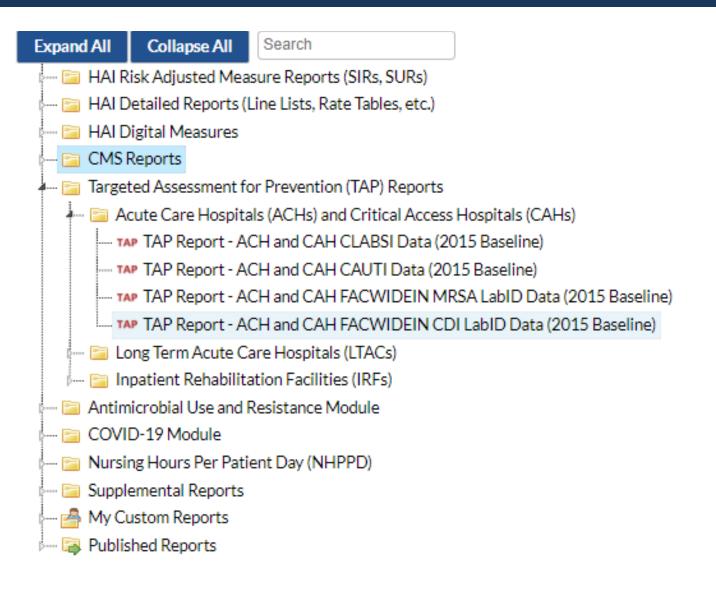




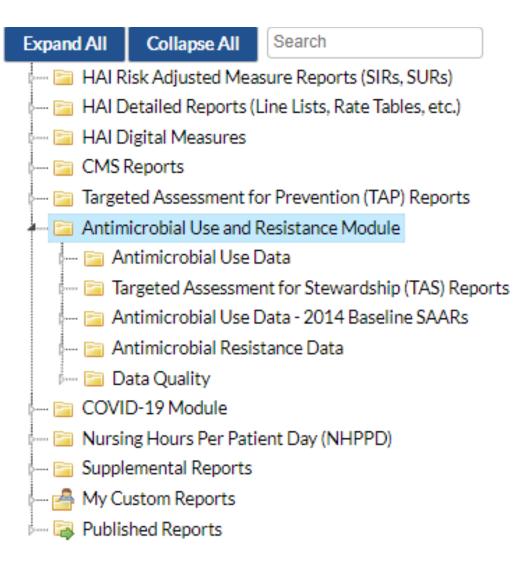




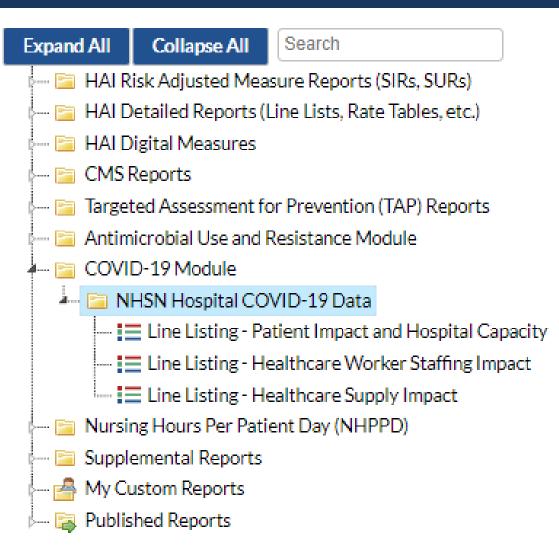




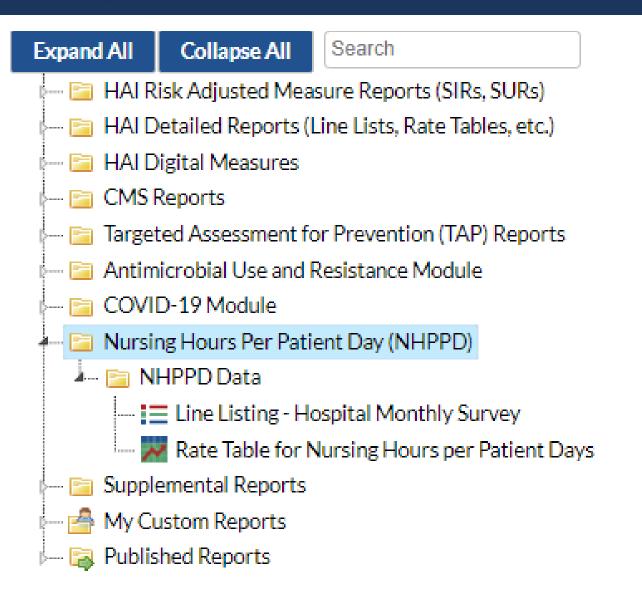




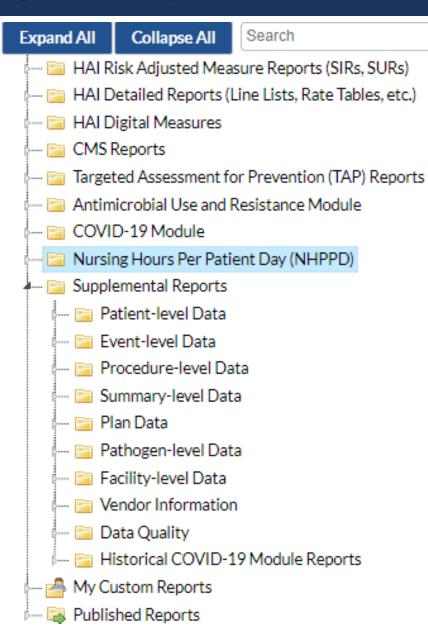








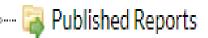




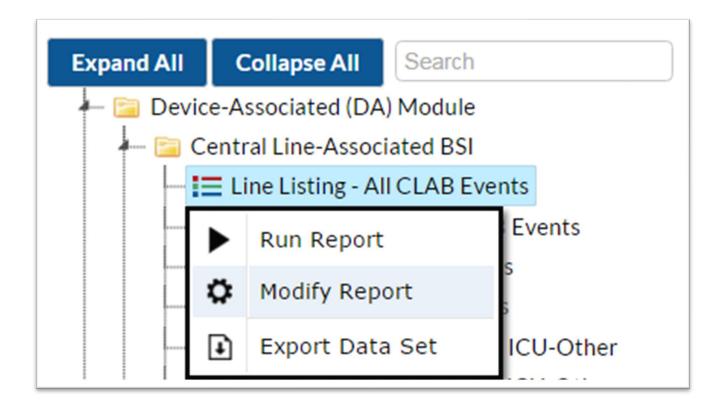


Specialized Reports (Data Quality)

- 🚛 📴 Data Quality
 - 🔚 🧮 Line Listing CDI Test Method History
 - E Line Listing Duplicate Procedures
 - 🔚 🔚 Line Listing Procedures with 0 Duration
 - Events
 - 🔚 🔚 Line Listing Duplicate SSI Events
 - 🔚 🧮 Line Listing SSIs On Procedure Date
 - 🔚 🔚 Line Listing Extremely High Incidence of SSI
 - 🛄 🔚 Line Listing Events Reported with 0 Device Days
- 📥 My Custom Reports









Modify "Line Listin;	Modify "Line Listing - All CLAB Events"									
Show descriptive	variable names <u>(Pri</u>	nt List)		Anal	ysis Data Set: CLAB_Events	Type: Line Listing	Last Generated: December 5, 2022 5:24 PM			
Title/Format	Time Period	Filters	Display Variables	Sort Variables	Display Options					
Title:										
Line Listing for	All Central Line-A	ssociated BS	6I Events							
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Show descriptive variable names (Print List) Analysis D							
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Modify "Line Listing - All CLAB Events"								
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Modify "Line Listing - All CLAB Events" Show descriptive variable names (Print List) Analysis Data Set: CLAB_Events Type: Line Listing Data Set Generated On: 01/25/2017 09:25:00 Title/Format **Display Variables Display Options** Time Period Filters Sort Variables **Display Variables:** Available Variables: Selected Variables: All ►≻ Up evntDateYH orgID ^ * evntDateYM patID Down Selected > ~ evntDateYQ dob evntDateYr gender evntToDisDays Add selected variables to the report id2 Undo All eventDate IcbiPath eventType IcbiPathDesc spcEvent linkedproc locationType location locCDC locCDCDesc locLabel locStatus mbi Icbi



how descriptive variable names <u>(Pri</u>	n <u>t List)</u>	Analysis Data Set: CLAB_Events	Type: Line Listing	Last Generated: December 5, 2022 5:2
tle/Format Time Period	Filters Display Variable	Sort Variables Display Options		
ort Variables:				
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birthWtCodeDesc				
cdad				
centralLine				
clab_exclude				
completedFlag				
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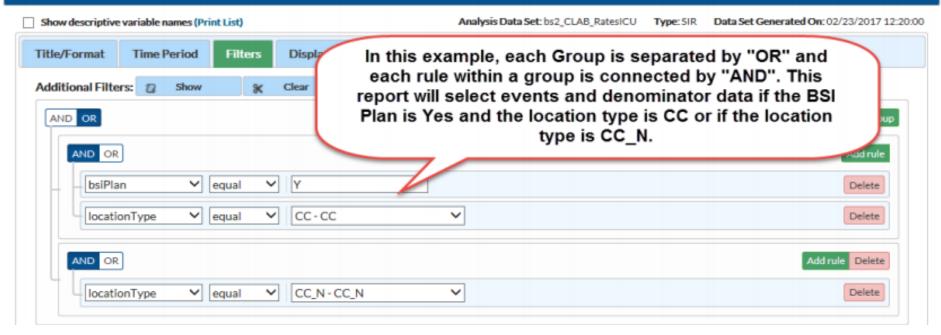
Modify "Line Listing - All CLAB Events"

Show descriptive variable names (<u>Print List</u>)				Ana	lysis Data Set: CLAB_Events	Type: Line Listing	Last Generated: <u>December 5, 2022 5:24 PM</u>
Title/Format	Time Period	Filters	Display Variables	Sort Variables	Display Options		
Line Listing Opt	ions:						
Page by variab	ole:	~					
	orgID patID dob gender sexAtBirth genderIdentit admitDate eventID eventDate eventType spcEvent location	ty					



Modifying Report (SIR Report)

Modify "SIR - Acute Care Hospital CLAB Data"



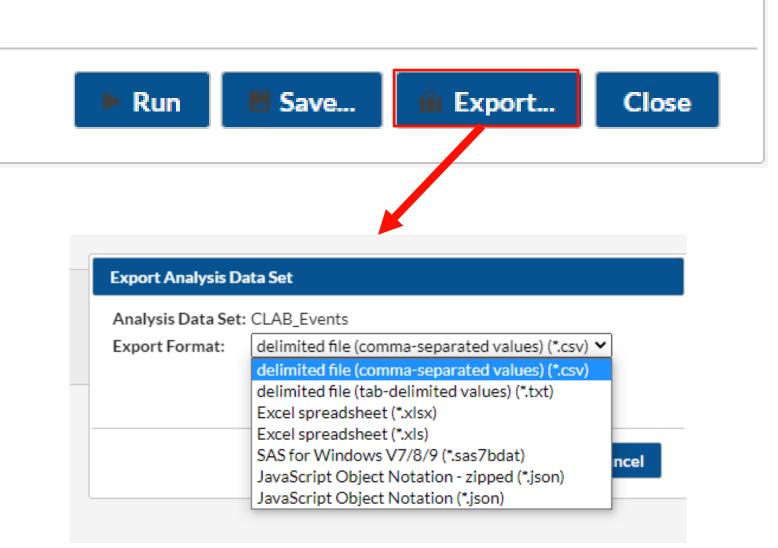


Modifying Report (SIR Report)

Modify "SIR - Acute Care Hospital CLAB Data"										
Show descriptive	Show descriptive variable names (Print List)									
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SIR Options:										
Group by: sun	nmaryYH 🔻									
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summaryYM										
sun	nmaryYQ									
sun	nmaryYr									



Viewing Report



59

Interpreting Report (SIR Report – Option "Run")

National Healthcare Safety Network SIR for Central Line-Associated BSI Data for Acute Care Hospitals (2015 baseline) - By OrgID

As of: March 10, 2017 at 9:58 AM Date Range: BS2_CLAB_RATE SALL summaryYr 2015 to 2015

orgID=10000 CCN=32M22222 medType=M

orgID	summaryYQ	infCount	numPred	numcldays	SIR	SIR_pval	sir95ci
10000	2015Q1	4	1.903	1917	2.102	0.1701	0.668, 5.070
10000	2015Q2	4	2.310	2018	1.731	0.2878	0.550, 4.176
10000	2015Q3	0	0.026	32	-		
10000	2015Q4	0	0.042	49	-		

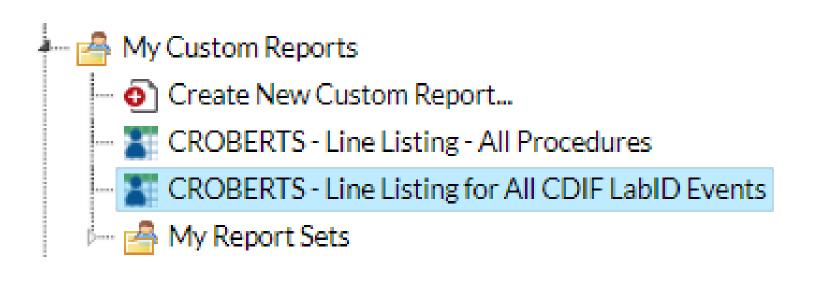


Creating a Custom Report

Modify "CROBERTS -	- Line Listing for <i>I</i>	All CDIF La	bID Events"					
Show descriptive value	ariable names (Print	t List)		Analysi	s Data Set: LabID_Events	Type: Line Listing	Data Set Generated (Dn: 01/09/2018 16:35:00
Title/Format	Time Period	Filters	Display Variables	Sort Variables	Display Options			
Time Period:								
Date Variable			Beginning	Ending				
Spec Collected~			• 01/2015	12/2017	Clear Time Pe	riod		
🗆 Enter Date va			no vou click the Run hu	tton				
	Specify a nam	e for your <i>i</i>	Analysis Report:					
	Analysis Repo	ort Name: (CROBERTS - Line Listin	g for All CDIF LabID	Events			
			Overwrite existing					
			Create a new Custo	m Analysis Report b	ased on this one (Save	as)		
						🖶 Sav	ve Cancel	
						► Run	🗑 Save 🛍 E	xport Close
						- Kull	w Jave III L	Close



Creating a Custom Report





NHSN Resources

Analysis Tools

- A Guide to the Standardized Infection Ratio
- <u>A Guide to the Standardized Utilization Ratio</u>
- AR Option Standardized Resistant Infection Ratio Guide
- AR Option Pathogen-specific Standardized Infection Ratio Guide
- <u>NHSN Patient Safety Component Analysis Quick References</u>
 <u>Guides</u>

General Tools

- 2024 Patient Safety Component Manual
- <u>Charting the Course: 2022 NHSN HAI Rebaseline</u>
- CDC's Rebaseline Project FAQ



Contact

NHSN Related

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