National Center for Emerging and Zoonotic Infectious Diseases



Understanding Your Surgical Site Infections (SSIs) Standardized Infection Ratio (SIR) Using the Patient Safety Component Part Two Troubleshooting Your SSI SIR

NHSN Acute Care Analytics Team
Surveillance Branch
Division of Healthcare Quality Promotion, CDC

2021 Mini-Learning Video Series

Learner Objectives

After viewing this Quick Learn, you will be able to

- Generate specific line listing analysis reports
- Identify which procedures are excluded from your SIR denominator and the reasons for exclusion
- Determine which events are excluded from your SIR numerator

Important Note

- Topics not covered in this Quick Learn
 - Introduction to the SSI SIR, the SSI SIR models and numerator inclusion criteria, the SIR denominator universal exclusion criteria and how to generate an SIR report
 - See Understanding Your SSI SIR Part One Quick Learn under training resources
 - SIR methodology (see the SSI protocol guide: https://www.cdc.gov/nhsn/pdfs/pscmanual/9pscssicurrent.pdf)
- In-depth explanation of the statistical SIR (see SIR Guide: https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf)

Demonstrating How to Troubleshoot Your SSI SIR

Troubleshooting SSI SIR

Troubleshooting the SSI SIR is an important step in understanding your SSI SIR.

Not all procedures are included in the SSI SIR, due to inclusion and exclusion criteria explained in part one of this series.

Next, Case Scenario

- Generate a report
- Interpret the generated report

Case Scenario

Facility

- **2019Q2**
- 31 in-plan, in-patient COLOs
- 16 HYSTs
- Adults 18 years and older
- 1 in-plan, in-patient COLO event from the same time period

Complex 30-day SSI SIR Report

Included:

- 19 COLOs
- 10 HYSTs

Excluded:

- 12 COLOs
- 6 HYSTs

Next, Determine the reasons for the exclusion.

Troubleshooting Step 1: Review of Generated SIR Report

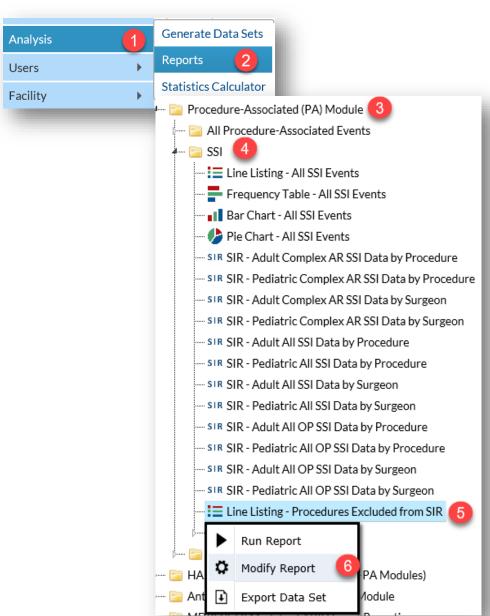
Complex 30-Day SSI Data SIR Report

National Healthcare Safet	y Network															
SIR for Complex 30-Day S		spital IQR by P	National I	lealthcare Safety I	letwork											
As of: April 27, 2021 at 1:00																
Date Range: BS2_SIR_CM	PX30DSSIPRO	OC summaryYQ	SIR for Co	omplex 30-Day SSI	Data for Hos	spital IQR by F	Procedure (20	15 Baseline) - By OrgID	/ProcCode						
Facility Org ID=10000 Type	of Affiliation	=M	As of: Apr	il 27, 2021 at 1:00 F	M											
				ge: BS2_SIR_CMPX		CaummanyVC	201002 to 2	01002								
Facility CMS Certification	n Brooduro	Drooduro	Date Kali	Je. DSZ_SIK_CIVIFA	SUDSSIPRO	Sullillary	201302 10 2	UISQZ								
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The Six is only calculated. The number of predicted e				CMS Certification	Procedure	Procedure	SummaryYr	1	l r	numPredComple		SIRComplex30d				
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				fidence Interval only calculated if	Facility	CMS Cer	tification F	Procedure								
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ata contained in this report was		L == A == 122 2024 .	at 10:56 AM to include	data heginning January 2018 through	April 2024											

Troubleshooting Step 2: Generate and Interpret Line Listing – Procedures Excluded from SIR

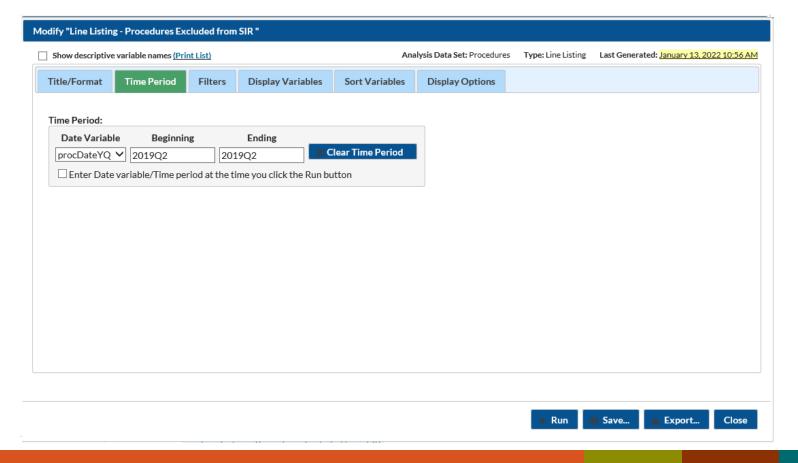
Access 'Line Listing –Procedures Excluded from SIR' analysis reports in NHSN

- 1. Select analysis on left-hand navigation bar
- 2. Select Reports
- 3. Click Procedure-associated Module folder
- 4. Click SSI subfolder
- Click Line Listing Procedures Excluded from SIR
- 6. Select Modify Report

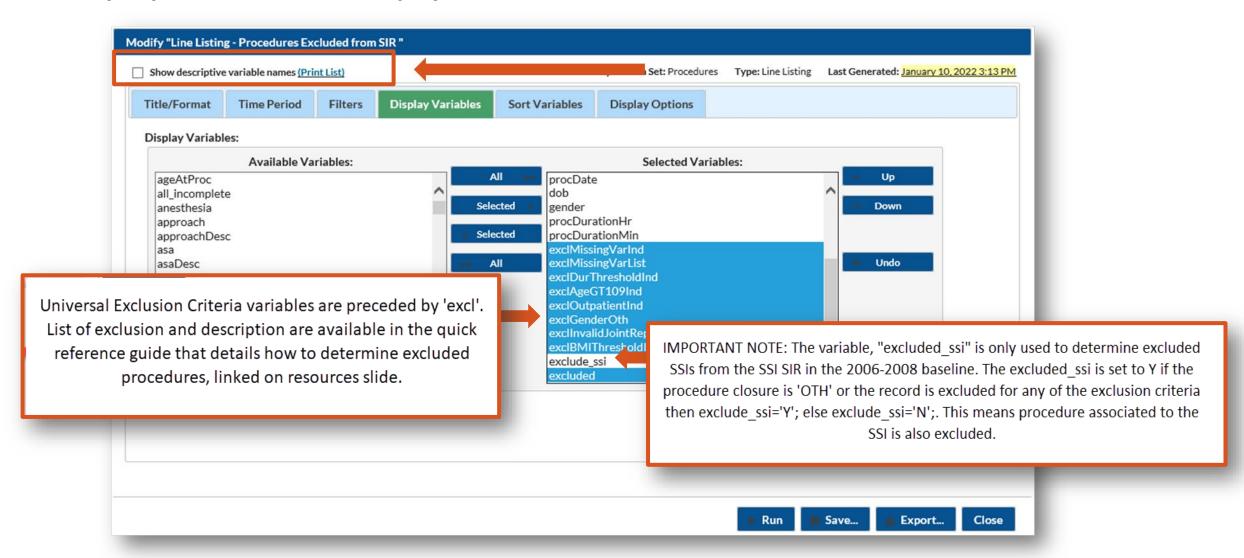


Modify Report

- 1. Select **Time Period** tab and input 2019 Q2 as the begin and end dates
- 2. Apply Filters to the report to limit output to proccode in COLO, HYST
- 3. Click Display Variables tab to select variables.



Modify Reports: Overview of Display Variables Tab



ie Ranç				9Q2 to 2019Q2 bs2_cmpxAdult	bs2 cmpxPed	bs2 c			exclDurThreshol	exclAgeGT109		exclPedInd	Ind		exclBMIThres	excluded
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89859		1	1	1	1		N		γ	N	N	N	N	N	IN	Y
89890		1	1	1	1		N		Υ	N	N	N	N	N	N	Υ
89891 101292		1	1	1	1		N		Υ	N	N	N	N	N	N	Υ
101294		1	1	1	1		N		Υ	N	N	N	N	N	N	Υ
	COLO	1	1	1	1		N		Υ	N	N	N	N	N	N	Υ
	COLO	1	1	1	1		N		N	N	N			N	N	Υ
	COLO	1	1	1	1		N		N	N	V		N	N	N	Y
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89833 89834		1	1	1	1		N		N	N	Υ	N	N	N	N	Y
89834		1	1	1	1		N		N	N	Υ	N	N	N	N	Υ
89839		1	1	1	1		N		N	N	N	N	Y	N	N	Υ
89842		1	1	1	1		N		N	N	N	N	Y	N	N	Υ
89846		1	1	1	1		N		N	N	N	N	Y	N	N	Υ
							N		N	N	N	N	N	N	Y	Y
		apply to the 20					N		N	N	N	N	N	N	v	v
ne "Line	Listing for	Procedures Ex	cluded from	SSI SIR (2015 Bas	seline)" report co	ntains	N		N	N	N	N	N	N	v	v
riables	preceded b	oy excl indicate uick Reference	the reason for	or exclusion. If exc	I criterion is set t	to Y, th€	IA		IN	IN	IN	IN	IN	IN	ř	T

- If an excl variable is set to Y, then the procedure is universally excluded from all SSI SIR for the reason(s) indicated
- If all the excl variables are set to N and the variable excluded is set to Y, then the procedure is linked to a PATOS= Yes event, resulting in the exclusion of the procedure (and event) from the SSI SIRs

National	Healthcare	Safety Netw	ork/															
Line Listi	g for Proce	dures Exclude	ed from SSI S	SIR (2015 Baselin	ne)													
		at 12:12 PM																
Date Ran	ge: PROCE	DURES proc	DateYQ 2019	9Q2 to 2019Q2														
procID	procCode			bs2_cmpxAdult Excl	bs2_cmpxPec Excl	bs2_cmpx30d Excl	procDate		Sex	excl M issin gVarInd	exclDurThreshol dind	exclAgeGT109		exclPedInd cmpx30d	exclSe xInd	excllnvalidJ ointRepHe mi	exclBMlThres holdind	excluded
	COLO	1	1	1	1	1	5/5/2019			N	Υ	N	N	N	N	N	N	Y
	COLO	1	1	1	1	1	5/7/2019			N	Υ	N	N	N	N	N	N	Y
	COLO	1	1	1	1	1	6/24/2019			N	Y	N	N	N	N	N	N	Y
	COLO	1	1	1]]	6/28/2019	-		N	Y	N	N	N	N	N	N	Y
	COLO	1	1	1		1	5/11/2019 6/9/2019			N	Y V	N	N	N	N	N	N	v
il .	COLO	1	1	1	1	1	6/10/2019		-	N	N	N	N	N	N	N	N	v
	COLO	1	1	1	1	1	6/25/2019	-		N	N	N	V	N	N	N	N	v
	COLO	1	1	1		1	5/6/2019			N	N	N	Y	N	N	N	N	Ÿ
	COLO	1	1	1	1	1	6/10/2019			N	N	N	Y	N	N	N	N	Y
	COLO	1	1	1	1	1	6/21/2019			N	N	N	Y	N	N	N	N	Y
101306	COLO	1	1	1	1	1	6/30/2019	8/19/1974	M	N	N	N	Υ	N	N	N	N	Y
	HYST	1	1	1	1	1	4/2/2019		-	N	N	N	N	N	Y	N	N	Y
	HYST	1	1	1	1	1	4/3/2019			N	N	N	N	N	Y	N	N	Y
	HYST	1	1	1	1	1	4/6/2019			N	N	N	N	N	Y	N	N	Y
	HYST	1	1	1	1	1	4/8/2019			N	N	N	N	N	N	N	Υ	Y
	HYST	1	1	1	1	1	4/11/2019	-		N	N	N	N	N	N	N	Υ	Y
89846	HYST	1	1	1	1	1	4/15/2019	10/4/1987	F	N	N	N	N	N	N	N	Υ	Y
1. The "Lir 2. Variable 3. Please	e Listing for I s preceded b eview the Qu	y excl indicate uick Reference	cluded from S the reason fo Guide on Pro	SSÍ SIR (2015 Bas or exclusion. If excl	Criterion is set Criteria (https://	to Y, then the pr /www.cdc.gov/n	ocedure is ex hsn/pdfs/ps-a	cluded from th analysis-resou	ne denomi irces/line-l	ist-procedures	.pdf) for more inform	nation on how to o	determine which r	ecords are in	cluded in the	SIRs.		
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Data conta	ined in this re	eport were last	t generated or	April 23, 2021 at	10:56 AM to inc	lude data beginn	ing January 2	018 through A	pril 2021 .									

- The highlighted COLO Procedures are excluded from the SSI SIR reports because the procedure duration meets the duration outliers of less than 5 minutes or greater than the IQR5
- The list of the IQR5 values, based on the 2015 national aggregate data, is in the SSI section of the <u>SIR</u>
 <u>Guide</u>

			ed from SSI S	SIR (2015 Baselir	ne)														
		at 12:12 PM																	
Date Rang	je: PROCE	DURES proc	DateYQ 2019	9Q2 to 2019Q2															
orocID	procCode			bs2_cmpxAdult	bs2_cmpxPed	bs2_cmpx30d Excl	procDate	dob	sex	exclMissin gVarInd	exclMissin gVarList	exclDurThreshol	exclAgeGT109		exclPedInd cmpx30d	exclSe xInd	exclinvalidJ ointRepHe mi	exclBMIThres holdind	exclude
	COLO	1	1	1	1	1	5/5/2019			N		Υ	N	N	N	N	N	N	Y
	COLO	1	1	1	1	1	5/7/2019			N		Y	N	N	N	N	N	N	Y
	COLO	1	1	1	1	1	6/24/2019			N		Y	N	N	N	N	N	N	Y
	COLO	1	1	1	1	1	6/28/2019			N		Y	N	N	N	N	N	N	Y
101292		1	1	1	1	1	5/11/2019			N		Y	N	N	N	N	N	N	Y
101294		1	1	1	1	1	6/9/2019			N		Υ	N	N	N	N	N	N	Y
101295		1	1	1	1	1	6/10/2019			N		N	N	N	N	N	N	N	Υ
101296		1	1	1	1	1	6/25/2019			N		N	N	Y	N	N	N	N	Y
101297		1	1	1	1	1	5/6/2019			N		N	N	Y	N	N	N	N	Y
101300		1	1	1	1	1	6/10/2019		-	N		N	N	Y	N	N	N	N	Y
101305		1	1	1	1	1	6/21/2019			N		N	N	Y	N	N	N	N	Υ
101306		1	1	1	1	1	6/30/2019			N		N	N	Y	N	N	N	N	Υ
89833		1	1	1	1	1	4/2/2019			N		N	N	N	N	Y	N	N	Y
89834		1	1	1	1	1	4/3/2019		-	N		N	N	N	N	Y	N	N	Y
89837		1	1	1	1	1	4/6/2019			N		N	N	N	N	Y	N	N	Υ
89839		1	1	1	1	1	4/8/2019			N		N	N	N	N	N	N	Y	Y
89842		1	1	1	1	1	4/11/2019		-	N		N	N	N	N	N	N	Y	Y
89846	HYST	1	1	1	1	1	4/15/2019	10/4/1987	F	N		N	N	N	N	N	N	Y	Υ
		apply to the 20 Procedures Ex		only. SSI SIR (2015 Bas	eline)" report co	ontains procedur	es excluded t	from one or m	ore SIRs.										
				or exclusion. If exc						nator of the re	lated SIR.								
Please re	eview the Q	uick Reference	Guide on Pro	ocedure Exclusion	Criteria (https:/	/www.cdc.gov/n	hsn/pdfs/ps-a	analysis-resou	rces/line-l	ist-procedures	s-excluded-sir	pdf) for more inforn	nation on how to	determine which r	ecords are in	cluded in the	SIRs.		
. The varia	able indicatir	ng procedures	excluded fron	n the CMS IQR pro	gram SIR is bs	2 compx30dExc	cl: it applies to	COLO and H	YST only.										

- The highlighted procedures are excluded from the <u>inpatient SSI SIR</u> reports because they are outpatient procedures
- These COLOs <u>are included</u> in the *All-Adult OP SSI Data* for outpatient procedures
- Since none of these highlighted procedures meet other universal exclusion criteria, they are included in the outpatient SSI SIR report

		Safety Netv																	
Line Listin	g for Proce	dures Exclud	ed from SSI	SIR (2015 Baseli	ne)														
As of: Apr	127, 2021	at 12:12 PM																	
Date Rang	e: PROCE	DURES proc	DateYQ 201	9Q2 to 2019Q2															
,																			
procID	procCode		bs2_allPed	bs2_cmpxAdult	bs2_cmpxPe	d bs2_cmpx30d Excl	procDate	dob	sex		exclMissin gVarList	exclDurThreshol	exclAgeGT109	exclOutpatient	exclPedInd	exclSe xInd	excllnvalidJ ointRepHe mi	exclBMIThres	excluded
89858	COLO	1	1	1		1 1	5/5/2019	9/11/1935	M	N		Υ	N	N	N	N	N	N	Υ
89859	COLO	1	1	1		1 1	5/7/2019	1/13/1937	M	N		Υ	N	N	N	N	N	N	Y
89890	COLO	1	1	1	1	1 1	6/24/2019	9/3/1946	M	N		Y	N	N	N	N	N	N	Y
89891	COLO	1	1	1	1	1 1	6/28/2019	4/11/1947	F	N		Y	N	N	N	N	N	N	Y
101292	COLO	1	1	1		1 1	5/11/2019	3/2/1945	F	N		Υ	N	N	N	N	N	N	Y
101294	COLO	1	1	1		1 1	6/9/2019	5/18/1948	F	N		Υ	N	N	N	N	N	N	Υ
101295		1	1	1		1 1	6/10/2019	12/25/1950	F	N		N	N	N	N	N	N	N	Υ
101296		1	1	1		1 1	6/25/2019			N		N	N	Y	N	N	N	N	Υ
101297		1	1	1		1 1	5/6/2019			N		N	N	Y	N	N	N	N	Υ
101300		1	1	1		1 1	6/10/2019		-	N		N	N	Υ	N	N	N	N	Υ
101305		1	1	1		1 1	6/21/2019			N		N	N	Y	N	N	N	N	Y
101306		1	1	1		1 1	6/30/2019			N		N	N	Y	N	N	N	N	Υ
89833		1	1	1		1 1	4/2/2019			N		N	N	N	N	Y	N	N	Υ
89834		1	1	1		1 1	4/3/2019		F	N		N	N	N	N	Υ	N	N	Υ
89837		1	1	1		1 1	4/6/2019		F	N		N	N	N	N	Υ	N	N	Υ
89839		1	1	1		1 1	4/8/2019			N		N	N	N	N	N	N	Υ	Υ
89842		1	1	1		1 1	4/11/2019			N		N	N	N	N	N	N	Y	Y
89846	HYST	1	1	1		1 1	4/15/2019	10/4/1987	F	N		N	N	N	N	N	N	Υ	Υ
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		apply to the 2																	-
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				or exclusion. If exc								10.6					OID		
										ist-procedures	-excluded-sir	pdf) for more inform	nation on how to	determine which r	ecords are in	cluded in the	SIKs.		
4. The varia	able indicatir	ng procedures	excluded from	n the CMS IQR pr	ogram SIR is b	s2_compx30dEx	ci; it applies to	COLO and F	HYST only.										
Data conta	ined in this r	eport were las	st generated o	n April 23, 2021 at	10:56 AM to in	clude data beginn	ing January 2	018 through A	pril 2021 .										

- The top 3 HYST procedures highlighted are excluded from the SSI SIR reports because the procedures were performed in patients with sex reported as other
- The bottom 3 HYST procedures highlighted in gold are excluded because the BMI values meets the BMI outliers of less than 12 kg/m² or greater than 60 kg/m² for adults

		Safety Netw																	
			ed from SSI S	SIR (2015 Baselir	ie)														
		at 12:12 PM																	
Date Ran	ge: PROCE	DURES proc	DateYQ 201	9Q2 to 2019Q2															
procID	procCode			bs2_cmpxAdult Excl	bs2_cmpxPed Excl			dob	sex	exclMissin gVarInd	exclMissin gVarList	exclDurThreshol	exclAgeGT109	exclOutpatient	exclPedInd	exclSe xInd	excllnvalidJ ointRepHe mi	exclBMlThres	excluded
89858	COLO	1	1	1	1	1	5/5/2019	9/11/1935	M	N		Υ	N	N	N	N	N	N	Y
89859	COLO	1	1	1	1	1	5/7/2019	1/13/1937	M	N		Υ	N	N	N	N	N	N	Y
89890	COLO	1	1	1	1	1	6/24/2019	9/3/1946	M	N		Υ	N	N	N	N	N	N	Y
89891	COLO	1	1	1	1	1	6/28/2019	4/11/1947	F	N		Υ	N	N	N	N	N	N	Y
101292	COLO	1	1	1	1	1	5/11/2019	3/2/1945	F	N		Υ	N	N	N	N	N	N	Y
101294	COLO	1	1	1	1	1	6/9/2019	5/18/1948	F	N		Υ	N	N	N	N	N	N	Y
101295	COLO	1	1	1	1	1	6/10/2019	12/25/1950	F	N		N	N	N	N	N	N	N	Y
101296		1	1	1	1	1	6/25/2019	7/13/1951	F	N		N	N	Y	N	N	N	N	Y
101297	COLO	1	1	1	1	1	5/6/2019	1/18/1954	M	N		N	N	Y	N	N	N	N	Y
101300		1	1	1	1	1	6/10/2019			N		N	N	Y	N	N	N	N	Y
101305	COLO	1	1	1	1	1	6/21/2019			N		N	N	Y	N	N	N	N	Y
101306		1	1	1	1	1	6/30/2019			N		N	N	Y	N	N	N	N	Y
89833	HYST	1	1	1	1	1	4/2/2019	9/8/1976	F	N		N	N	N	N	Υ	N	N	Y
89834	HYST	1	1	1	1	1	4/3/2019	8/19/1977	F	N		N	N	N	N	Υ	N	N	Y
89837		1	1	1	1	1	4/6/2019		-	N		N	N	N	N	Υ	N	N	Y
89839		1	1	1	1	1	4/8/2019			N		N	N	N	N	N	N	Υ	Y
89842		1	1	1	1	1	4/11/2019			N		N	N	N	N	N	N	Υ	Y
89846	HYST	1	1	1	1	1	4/15/2019	10/4/1987	F	N		N	N	N	N	N	N	Υ	Y
		1.00	045.0																
		apply to the 2			-ENI *			<u> </u>	OID										
				SSI SIR (2015 Bas							LILLOID								
				or exclusion. If exc										determine out 1		abode die d	OID-		
											s-excluded-sii	r.pdf) for more inform	nation on how to	determine which r	ecords are in	cluded in the	SIKS.		
4. The vari	abie indicatii	ng procedures	excluded fron	n the CMS IQR pro	gram SIR is bs	2_compx30dExc	ci; it applies to	OCOLO and F	TYST only.										
		L		A 3100 0004 1	40.50.414.			2040 11	1,0001										+
ata conta	ined in this i	eport were las	t generated o	n April 23, 2021 at	10:56 AM to inc	iude data beginn	ing January 2	2018 through A	April 2021 .										

Procedure ID **101295**, highlighted, is excluded from the SSI SIR, although all the *excl* variables are set to *N*. This is because this procedure is linked to a *PATOS= Yes event*

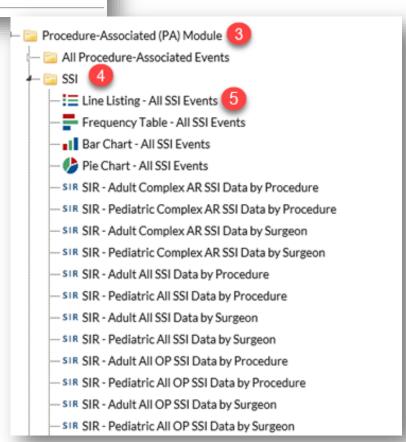
Troubleshooting Step 3: Generate and Interpret Line Listing – All SSI Events

Line Listing- All SSI Event



Access 'Line Listing –All SSI Events' analysis reports in NHSN

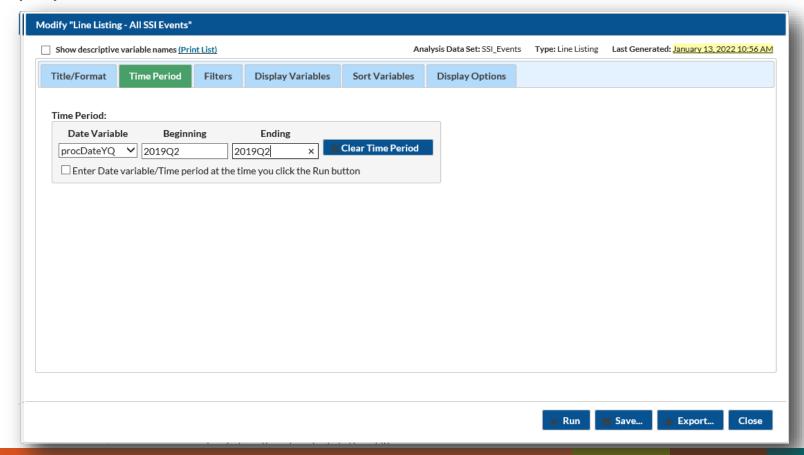
- 1. Select Analysis on left-hand navigation bar
- 2. Select Reports
- 3. Click Procedure-associated Module folder
- 4. Click SSI subfolder
- 5. Click Line Listing All SSI Events
- 6. Select Modify Report



Line Listing- All SSI Event

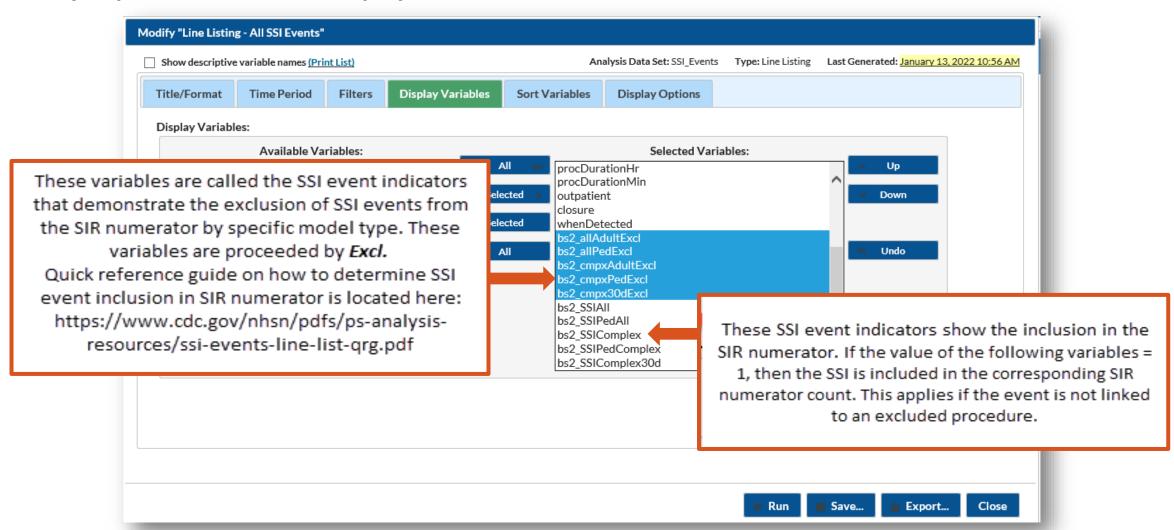
Modify Report

- 1. Select Time Period tab and input 2019 Q2 as the begin and end dates
- 2. Apply a Filter to the report to limit output to *proccode* in **COLO**, **HYST**
- 3. Click Display Variables tab to select variables.

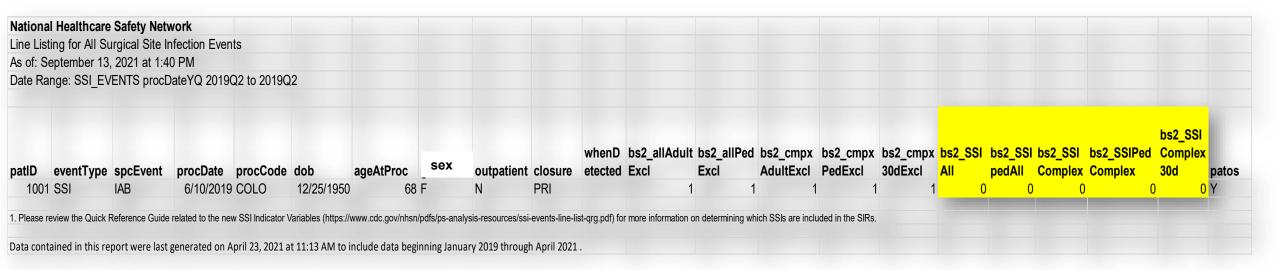


Line Listing- All SSI Event

Modify Reports: Overview of Display Variables Tab



Line Listing- All SSI Events



- Procedure ID 101295, highlighted in blue, is excluded from the SSI SIR, although all the excl variables are set to N. This is because this procedure is linked to a PATOS= Yes event
- The SSI event indicators highlighted in yellow are used to determine the SSI event inclusion criteria for SIR reports by model
 - If the SSI event indicator is set to 0, the SSI event is excluded from the SIR report
 - Details of the SSI event indicators are expressed in the quick reference guide linked below
 - Determining which SSIs are Included in the SSI SIRs (cdc.gov)

Summary of Findings

- Universal exclusion criteria are applied to all procedures prior to calculating the SSI SIR
 - A universally excluded procedure is excluded from all the SSI SIR reports
- The universal exclusion criteria are often due to potential data quality issues or data outliers determined to result in outlier SIRs, which may not be reflective of the facility's true performance
- Use NHSN Line Listing Analysis Reports to identify universally excluded procedures

Resources

- SIR Guide
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf
- How to Modify a Report
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/howtomodifyreport.pdf
- How to run the SIR report: Standardized Infection Ratio (SIR) Table Surgical Site Infections
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/sirtablesssi.pdf
- Using the "SIR Complex 30-Day SSI Data for Hospital IQR" Output Option
 - https://www.cdc.gov/nhsn/pdfs/cms/ssi/cms-ipps-ssi-sir.pdf

Additional Resources

- SSI SIR Troubleshooting Guides
 - https://www.cdc.gov/nhsn/PS-Analysis-resources/reference-guides.html
- Determining which SSIs are Included in the SSI SIRs
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/ssi-events-linelist-qrg.pdf
- Line List: Procedures Excluded from the SIRs (2015 Baseline)
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/line-list-procedures-excluded-sir.pdf

Additional Resources

- Reporting Height and Weight for Procedures in NHSN
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/Reporting-Height-and-Weight-for-Procedures-508.pdf
- How do I create a line list of procedures?
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/faq-procedure-line-list.pdf
- Using the Statistics Calculator
 - https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/StatsCalc.pdf

Thank You For any questions, contact the NHSN Helpdesk at nhsn@cdc.gov

For more information, contact CDC 1-800-CDC-INFO (232-4636)

TTY: 1-888-232-6348 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.

