Outpatient Procedure Component: Knee Prosthesis (KPRO) Surgical Site Infection (SSI) Criteria Overview & Analysis Options

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Objectives: KPRO

By the end of this presentation, you will be able to:

- Define an Ambulatory Surgery Center (ASC)
- Identify KPRO Surgical Site Infection (SSI) Criteria
- Enter Denominator Data
- Enter a Surgical Site Infection Event

Objectives: Analysis

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

- Generate new analysis datasets
- Describe each of the 5 report types
- Modify and customize analysis reports
- Export NHSN analysis data sets out of the application

How does NHSN define an Ambulatory Surgery Center (ASC)?

An ASC is a distinct entity that operates exclusively for the purpose of providing surgical services to patients not requiring hospitalization and in which the expected duration of services would not exceed 24 hours following an admission. An ASC must be certified by the Centers for Medicare & Medicaid Services (CMS), licensed by a state agency or both.

Background: NHSN Outpatient Procedure Component - KPRO SSI Criteria

- In 2018, Centers for Medicare and Medicaid Services removed Total Knee Arthroplasty (TKA) from the in-patient-only procedure list which allows TKA procedures to be performed on an inpatient or outpatient basis
- We worked with ASC community partners to develop measure to more effectively monitor these procedures
- KPRO SSI criteria added to OPC in 2025

OPC KPRO SSI Criteria

Outpatient Procedure Component - includes 3 SSI Criteria

- **General SSI Criteria**
  - Applies to all operative procedure categories except Breast (BRST) & Knee Prosthesis (KPRO) surgeries performed in Ambulatory Surgery Centers
- **Breast Surgery (BRST) SSI Criteria**
  - Applies to surgical site infections (SSIs) during the 30-day (superficial SSI) and 90-day (deep and organ/space SSI) postoperative periods following BRST Breast Surgery performed in Ambulatory Surgery Centers
- **Knee Prosthesis (KPRO) SSI Criteria**
  - Applies to surgical site infections (SSIs) during the 30-day (superficial SSI) and 90-day (deep and organ/space SSI) surveillance periods following knee prosthesis performed in Ambulatory Surgery Centers

NHSN
NATIONAL HEALTHCARE SAFETY NETWORK

January 2025

Outpatient Procedure Component Surgical Site Infection (OPC-SSI) Surveillance

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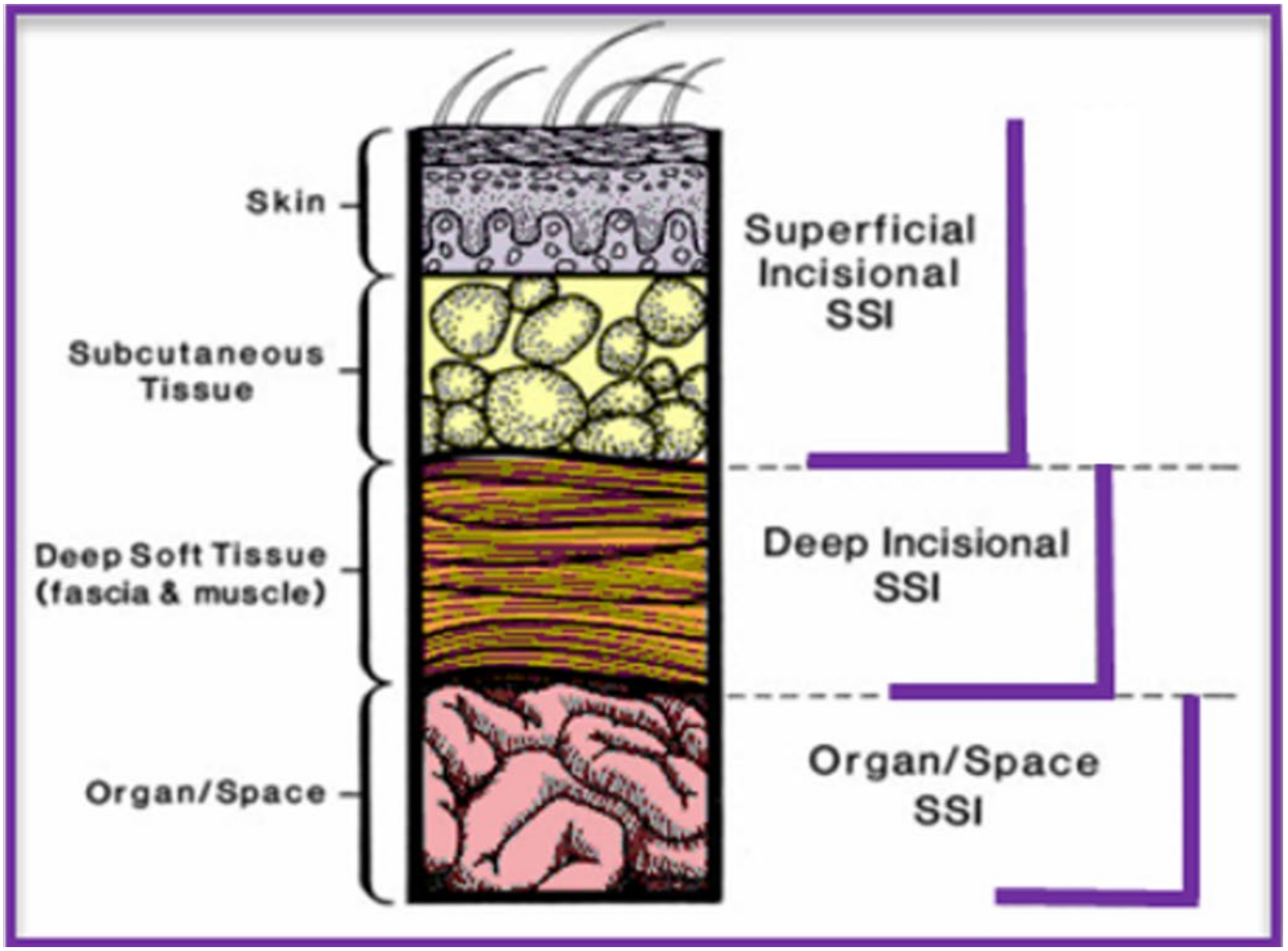
Tissue Levels for SSI Identification

SSIs are identified as:

- Superficial Incisional SSI
- Deep Incisional SSI
- Organ/Space SSI



Superficial and Deep Incisional SSI Criteria

The superficial and deep incision SSI criteria for the old and new KPRO criteria are essentially the same.

The OPC Surgical Site Infection Protocol is available on the OPC Surgical Site Infections webpage **Surgical Site Infections (SSI) | OPC | NHSN | CDC**

OPC Organ/Space SSI Criteria

Old KPRO Criteria

OPC General - Organ/Space SSI
Must meet the following criteria:

Date of event for infection occurs within 30 or 90 days following the NHSN operative procedure (where day 1 = the procedure date) according to the list in Table 2
AND
infection involves the organ/space tissues (deeper than the fascia/muscle).
AND
patient has at least ***one*** of the following:

a. purulent drainage from a drain placed into the organ/space (for example, closed suction drainage system, open drain, T-tube drain, and CT guided drainage).
b. organisms are identified from an aseptically-obtained fluid or tissue in the organ/space by a culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis or treatment (for example, not Active Surveillance Culture/Testing [ASC/AST]).
c. an abscess or other evidence of infection involving the organ/space detected on:
   - gross anatomical
   - histopathologic exam
   - imaging test consistent with infection.

NOTE:
*Meeting additional infection criteria found in the Patient Safety Component Chapter 17, CDC/NHSN Surveillance Definitions for Specific Types of Infections is **NOT** a part of the OPC General - Organ/Space SSIs reporting criteria.*

New KPRO Criteria

OPC KPRO - Organ/Space SSI
Must meet the following criteria:

Date of event for infection occurs within 90 days following a KPRO; where day 1 = the procedure date **AND**
involves the organ/space tissues (deeper than the fascia/muscle)
AND
patient has at least one of the following:

a. Two positive periprosthetic (joint) specimens (tissue or fluid) with at least one matching organism, identified by culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis and treatment, for example, not Active Surveillance Culture/Testing (ASC/AST).
b. Patient has organisms identified from bone by culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis and treatment, for example, not Active Surveillance Culture/Testing (ASC/AST).
c. A sinus tract* communicating with the joint identified on gross anatomic exam, abscess, or other gross anatomic evidence of infection at the level of the joint.
d. Patient has evidence of osteomyelitis* on gross anatomic or histopathologic exam.
e. Having three of the following minor criteria:
   i. elevated serum C-reactive protein (CRP; >100 mg/L (1 dL = 10 L) >10 mg/dL -check what standard reporting units for CRP) and erythrocyte sedimentation rate (ESR; >30 mm/hr.)
   ii. elevated synovial fluid white blood cell (WBC; >10,000 cells/µL) count OR "++" (or greater) change on leukocyte esterase test strip of synovial fluid.
   iii. elevated synovial fluid polymorphonuclear neutrophil percentage (PMN% >90%) positive histological analysis of periprosthetic tissue (>5 neutrophils (PMNs) per high power field).
   iv. organism(s) identified from a single positive joint specimen (tissue or fluid) by culture or non-culture based microbiologic testing method which is performed for purposes of clinical diagnosis and treatment, for example, not Active Surveillance Culture/Testing (ASC/AST).

* A sinus tract is defined as a narrow opening or passageway that can extend in any direction through soft tissue and results in dead space with potential for abscess formation.
*Osteomyelitis must be seen and documented during an invasive procedure.

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Knowledge Check

Mrs. Ortho Knee had a KPRO procedure performed at the ambulatory surgery center. How long should the IP conduct post-discharge surveillance for superficial incisional SSI?

- 30 days
- 60 days
- 90 days
- Determined by the KPRO procedure type

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Knowledge Check – Answer and Rationale

Mrs. Ortho Knee had a KPRO procedure performed at the ambulatory surgery center. How long will you perform post-discharge surveillance for superficial incisional SSI?

- ○ 30 days
- ○ 60 days
- ○ 90 days
- ○ Determined by the KPRO procedure type

Rationale: The surveillance period for superficial incisional SSIs is 30-days regardless of the operative procedure code category.

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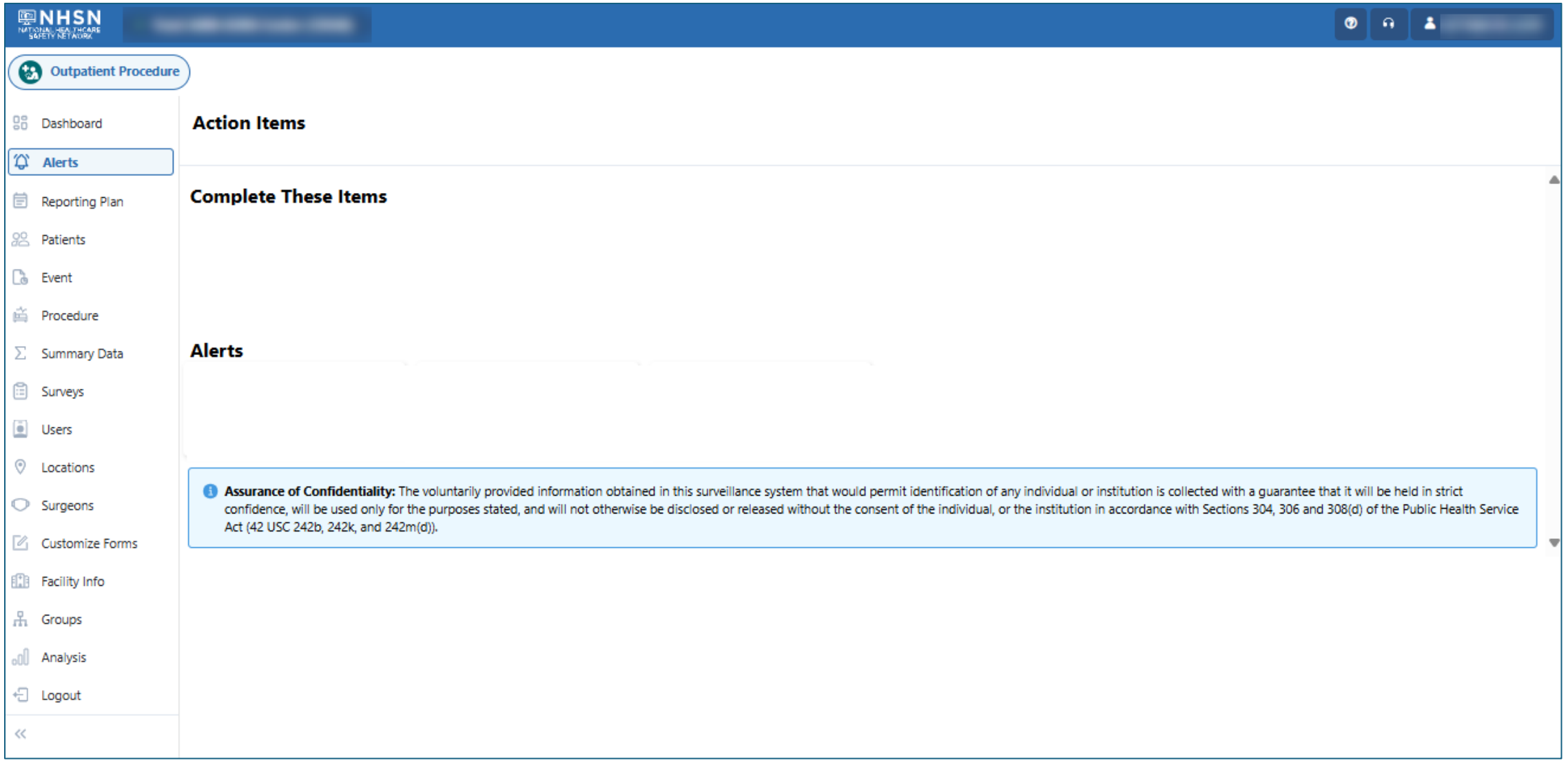
Scenario

You are the infection preventionist at the Good Health ASC where knee prosthesis (KPRO) surgeries have been performed for many years and these are the facility's highest volume procedure. Although your state does not mandate SSI reporting, the facility chooses to monitor KPROs using OPC.

Updated OPC User Interface



Adding OPC Procedure Denominator Data

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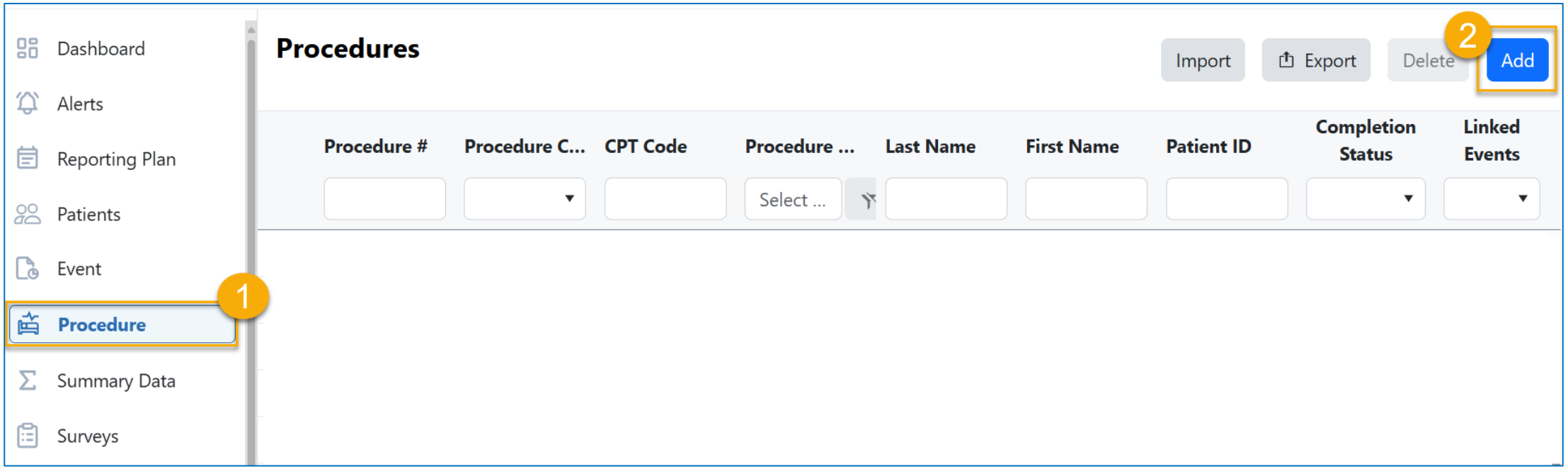
Manual Data Entry: Procedure Denominator

In the left navigation bar

1. Click **Procedure**
2. Click **Add**



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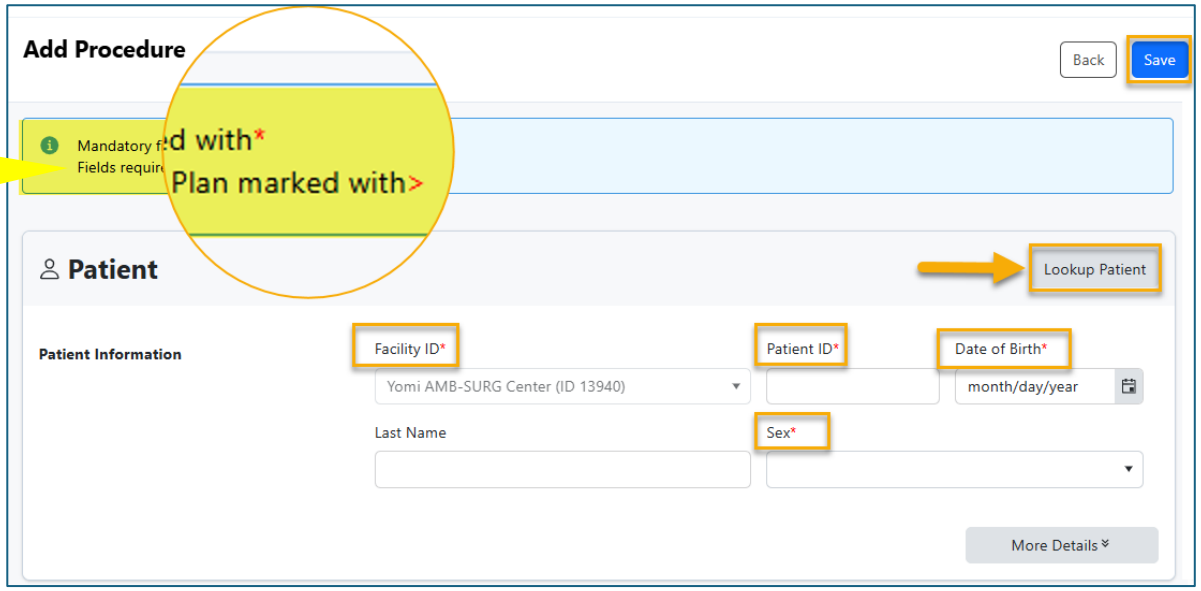
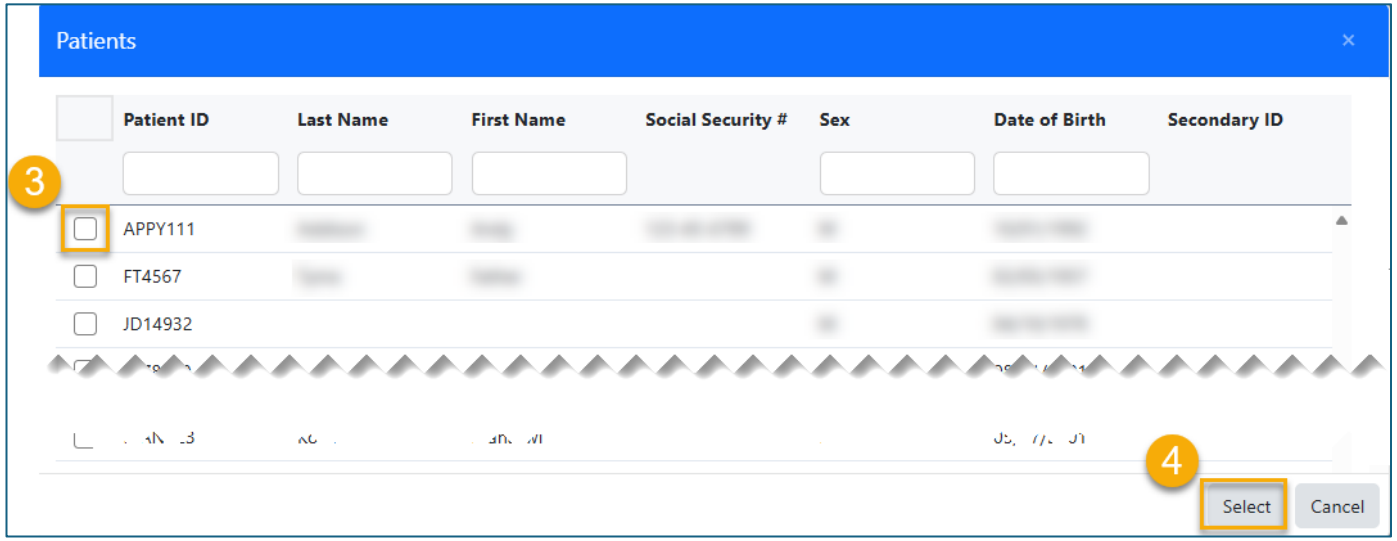
Manual Data Entry: Procedure Denominator, cont.

Enter data for all fields indicated by a red asterisk * and red >



Tip: Click the Lookup Patient button to auto-populate the Patients list

3. Check the box next to the row with the patient
4. Click **Select**



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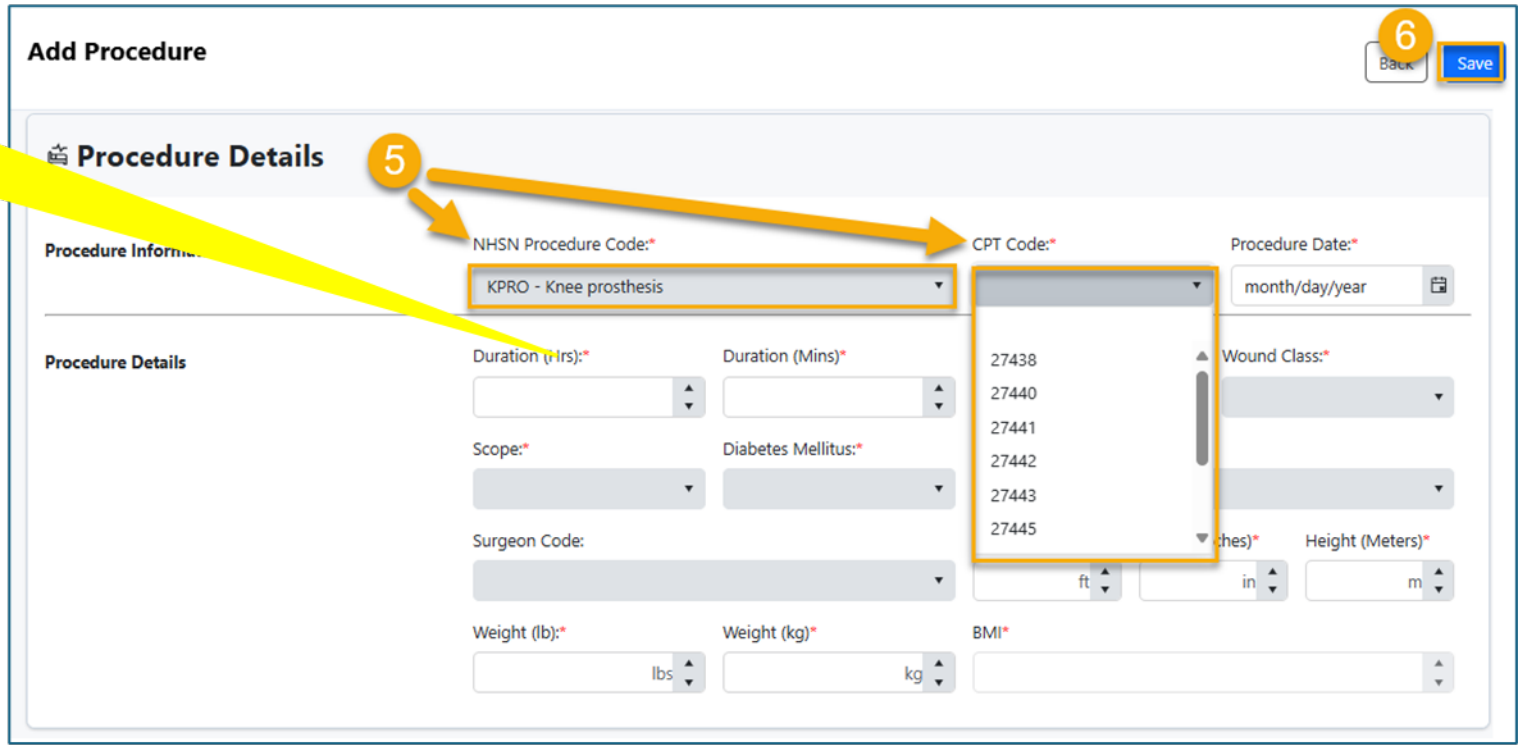
Manual Entry: Procedure Denominator Details, cont.

Enter data for all fields indicated by a red asterisk * and red >

5. Select **KPRO – Knee Prosthesis** from the drop-down box and the appropriate CPT Code
6. Click **Save**



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.CSV Upload: Procedure Denominator

Please see test file below for OPC CSV Import File

patID	sex	dob	medicarel	procCode	procCPTC	procDate	procDurat	procDurat	swClass	asa	scope	surgeonC	anesthesi	htFeet	htInches	htMetric	wtEnglish	wtMetric	diabetes	comment
OP-2000	F	6/14/1941	123456789	APPY	44900	1/1/2020	1	10	CC	2	Y		Y	5	6		167		N	New surgeon
OP-2001	F	6/14/1941	234567891	BRST	11970	1/2/2020	2	20	C	2	N		Y	5	6		167		N	New surgeon
OP-3000	M	9/18/1946	345678912	COLO	44025	1/3/2020	3	30	CO	3	N		Y	5	8		234		Y	New surgeon
OP-4000	F	4/16/1997		GAST	43117	1/4/2020	4	40	D	1	N		Y			1.8		89.2	Y	New surgeon
OP-5000	M	6/6/1966		PRST	55705	1/5/2020	5	50	C	1	Y		Y			1.8		89.2	N	New surgeon
OP-6000	F	6/7/1967		HYST	58150	1/6/2020	6	59	CC	1	N		Y			1.8		89.2	N	

Go to the Surgical Site Infections (SSI) | OPC | NHSN | CDC webpage and under the Supporting Materials section, navigate to the Outpatient Procedure CSV Guide and Import File

- Import guide - https://www.cdc.gov/nhsn/pdfs/opc/importing-opc-procedure-data-508.pdf
- Import file template - https://www.cdc.gov/nhsn/xls/opc/opc-csv-import-test-anyorder.csv

*CSV - Comma-Separated Values file also known as .csv files

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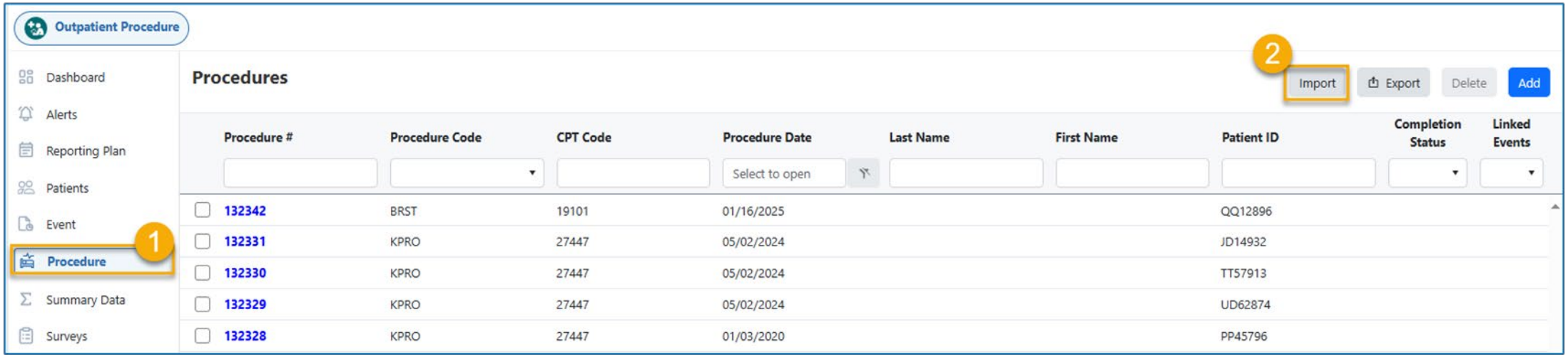
.CSV Upload: Procedure Denominator cont.

From the left navigation bar:

1. Click **Procedure**

2. Click **Import**



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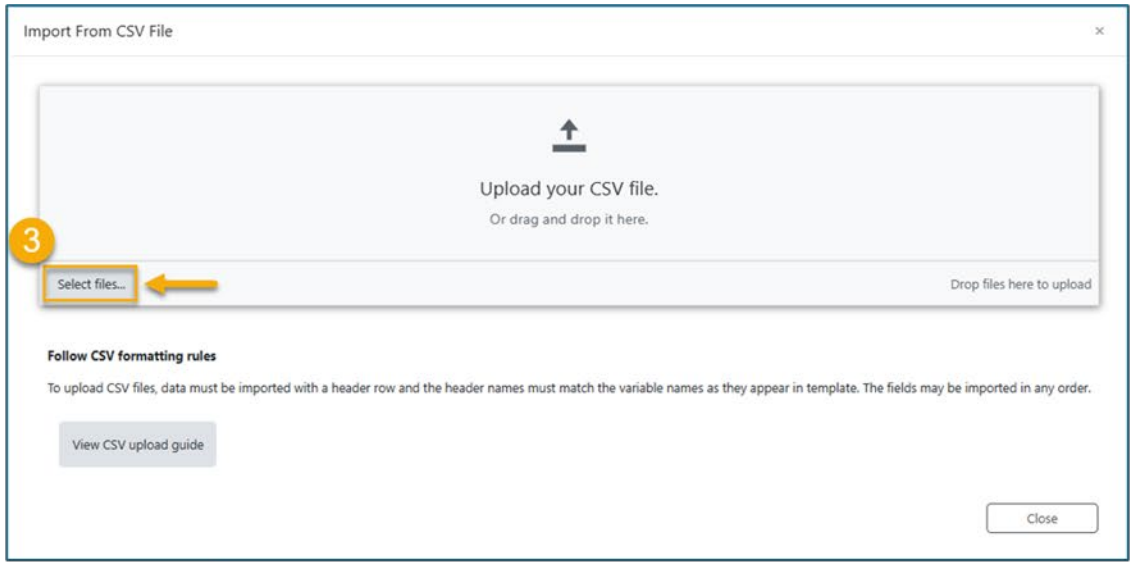
.CSV Upload: Procedure Denominator, cont.

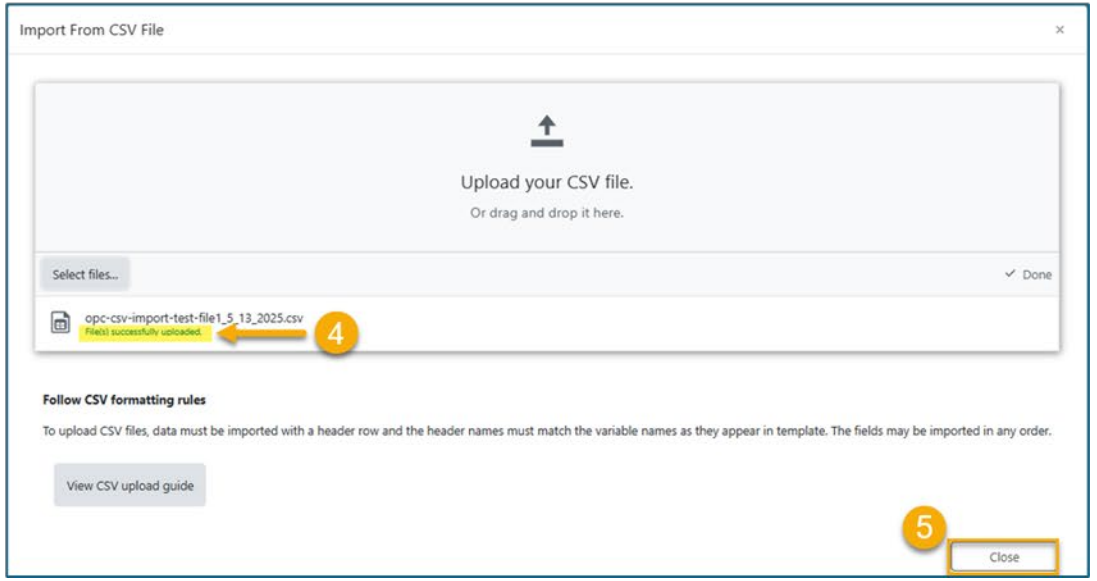
3. Click the **Select files** button

   **Select your .CSV file for upload



4. '**File successfully uploaded**' message will display

5. Click **Close**



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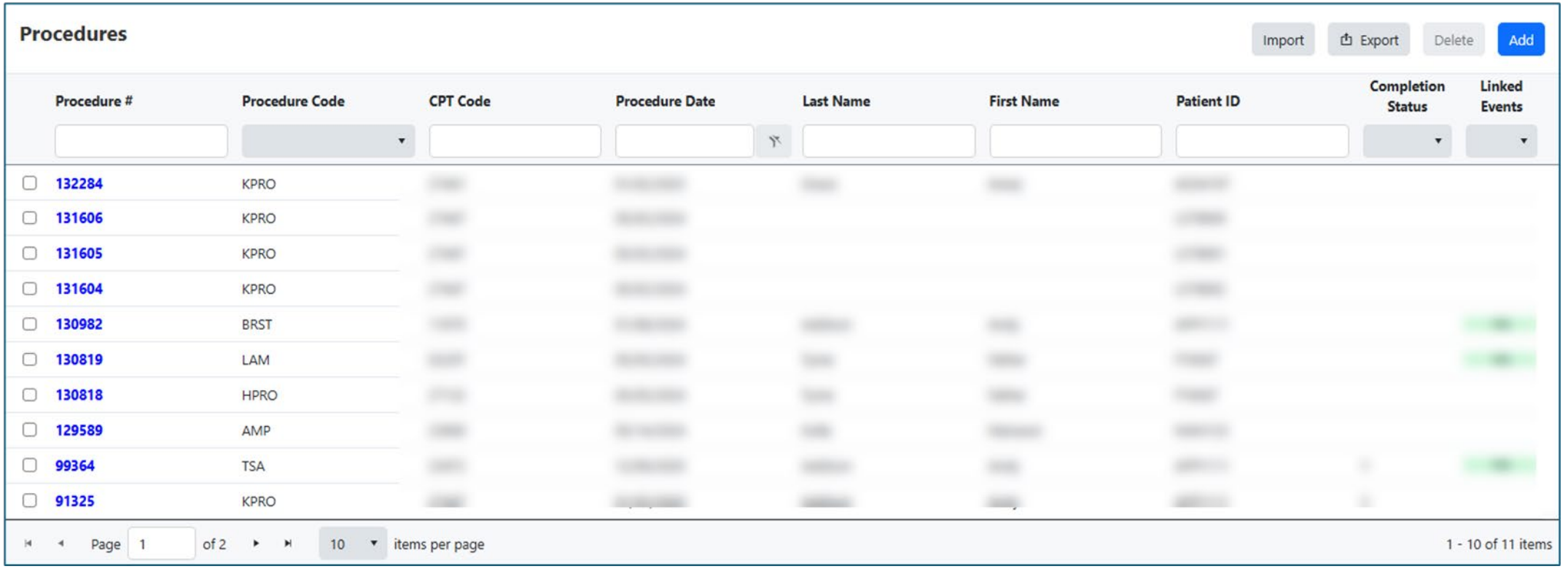
Procedures List

- All entered procedures will display



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Adding OPC SSI Event

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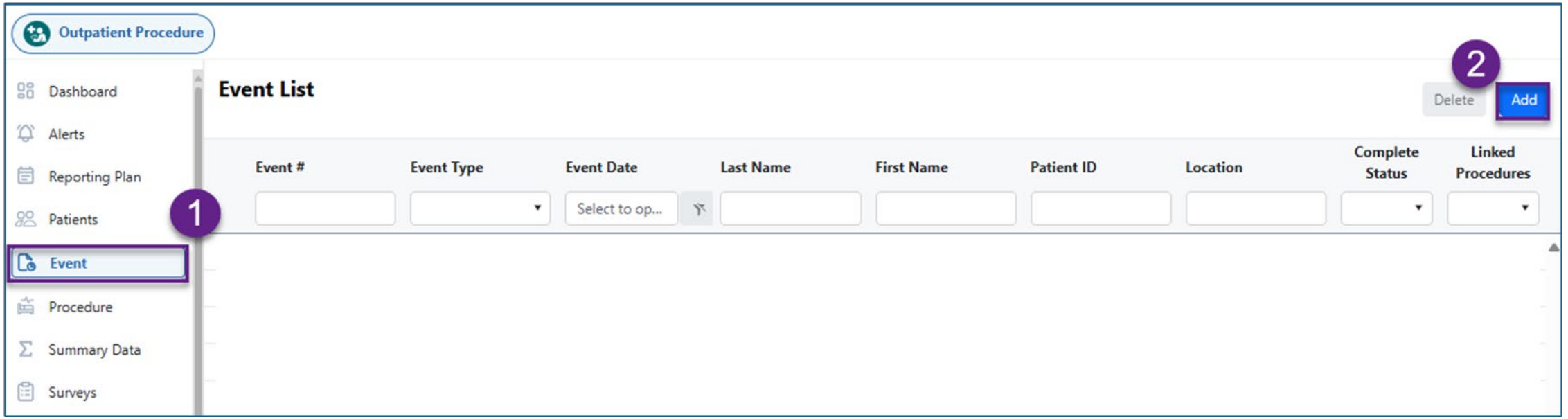
Adding an SSI Event

In the left navigation bar

1. Click **Event**
2. Click **Add**



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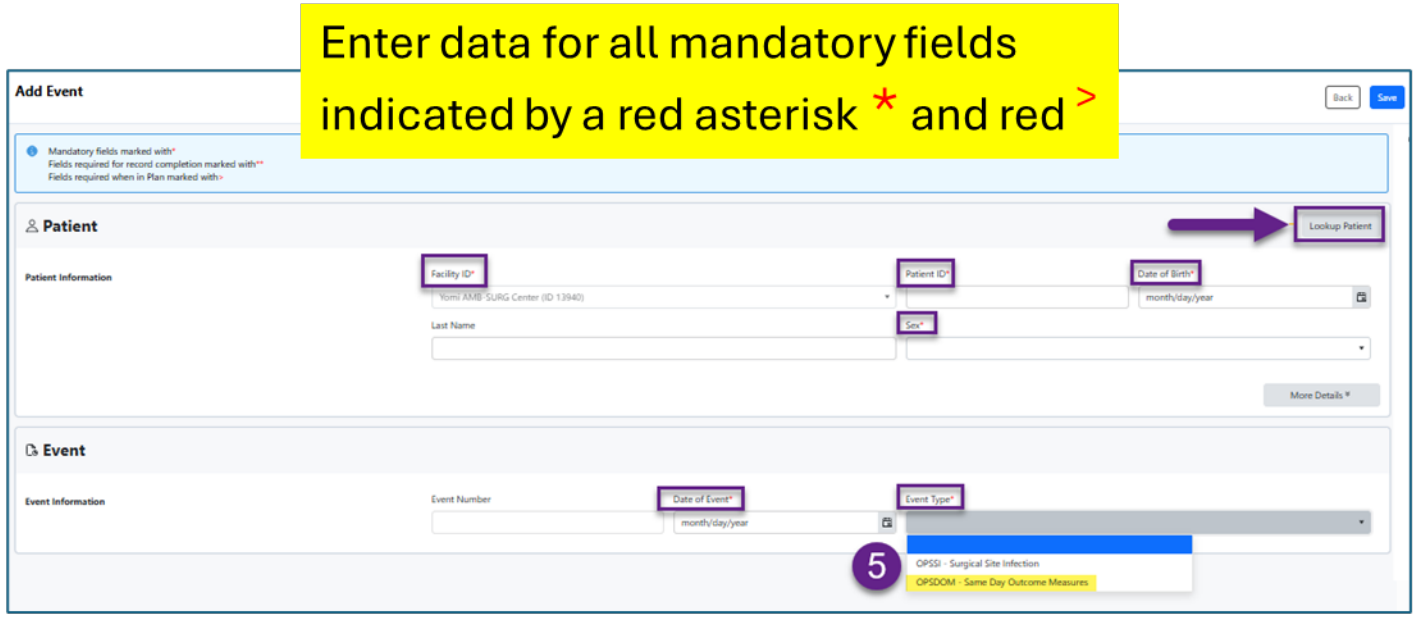
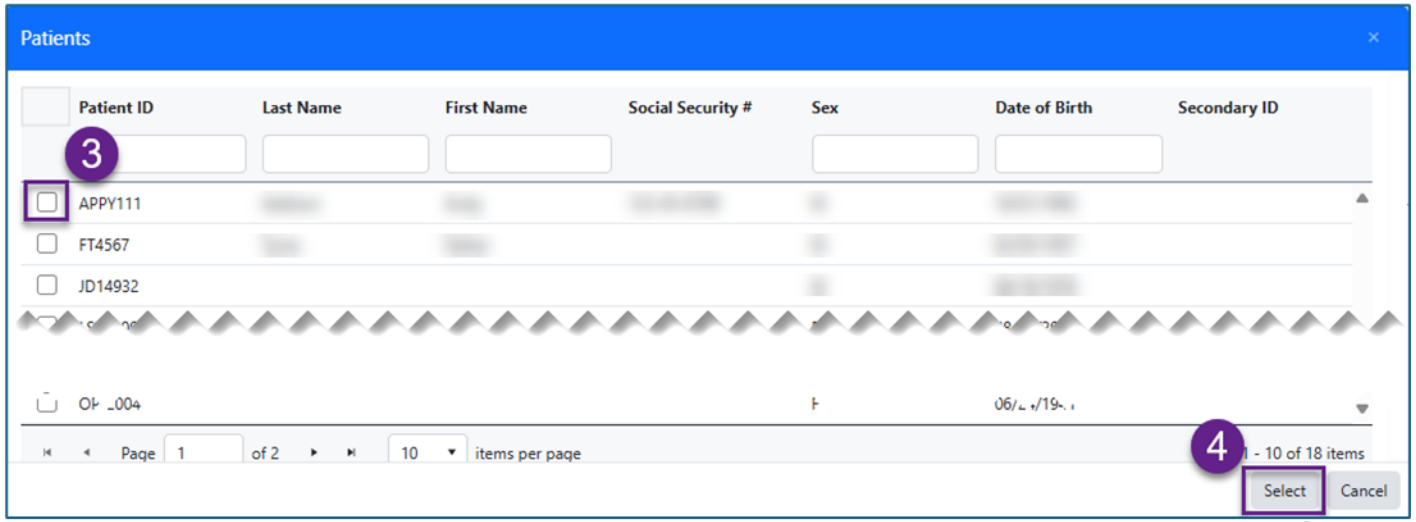
Adding an SSI Event Cont.

- **Tip:** Click the **Lookup Patient** button to auto-populate the **Patients** list

3. Check the box next to the row with the patient
4. Click **Select**
5. Select Event Type: **OPSSI-Surgical Site Infection**





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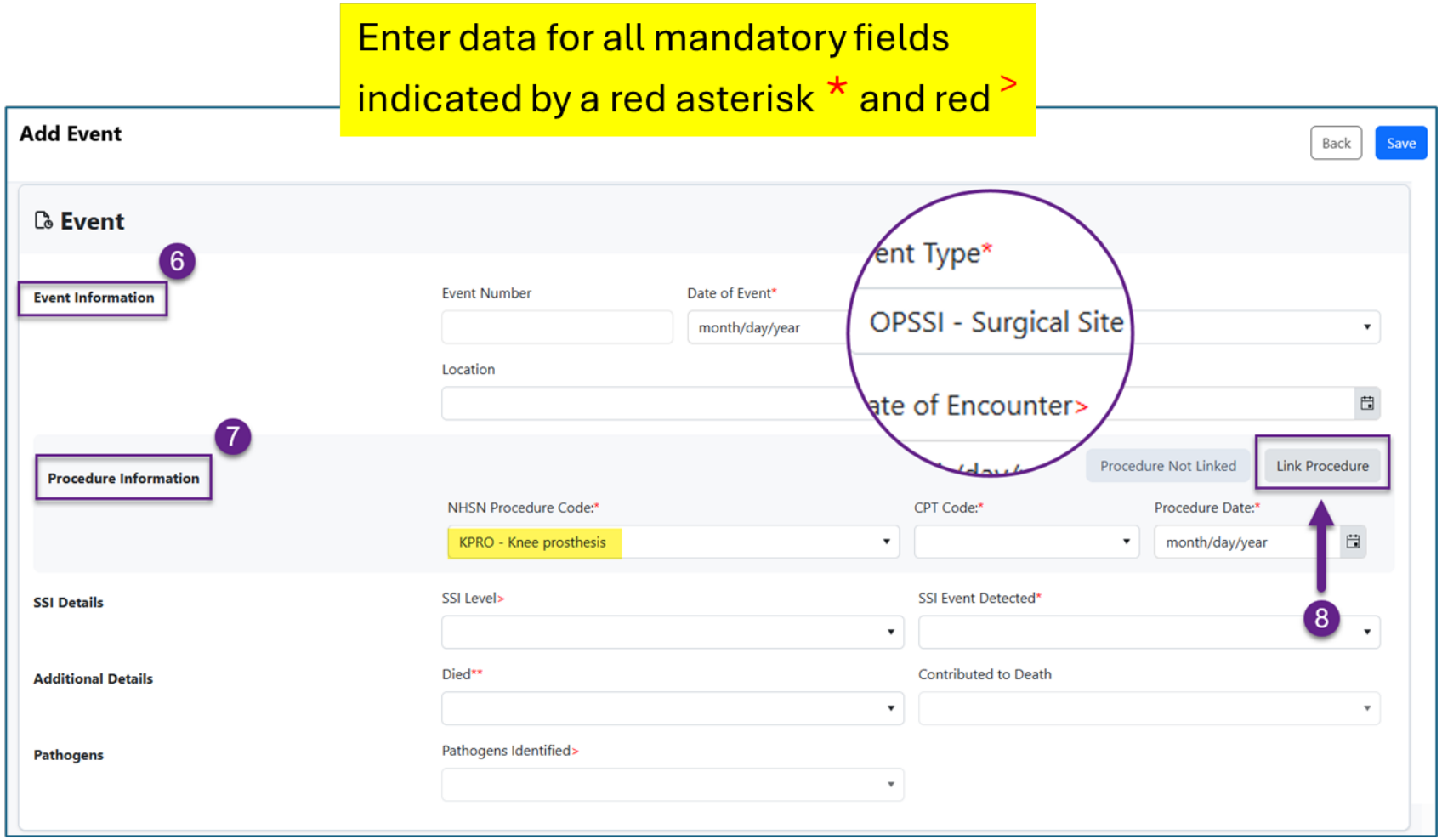
Adding an SSI Event Cont'd

6. Enter **Event Information** data

7. Enter **Procedure Information** data

8. Click the **Link Procedure** button



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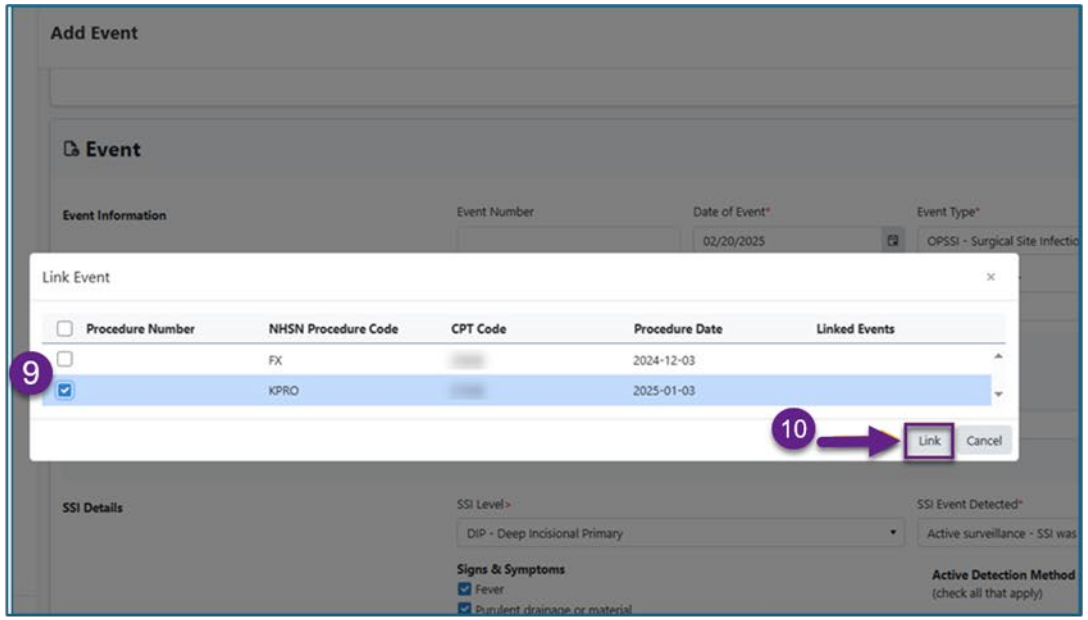
Link SSI Event to a Procedure in the Denominator

9. Check the box next to the row of the NHSN Procedure

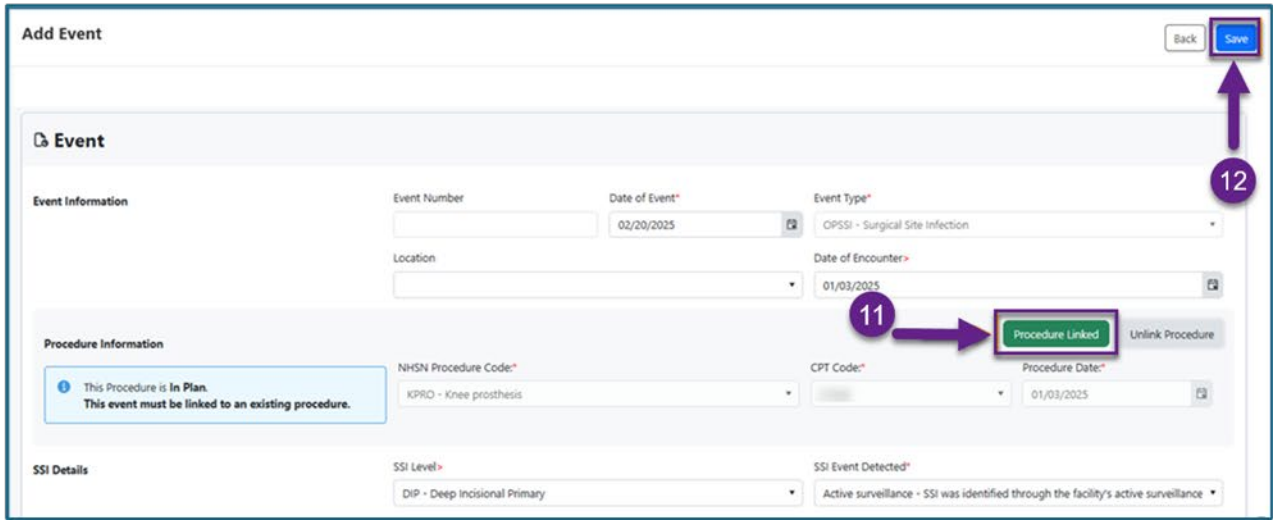
10. Click the **Link** button

Tip: Only one procedure can be linked to an SSI event



11. The OPC KPRO SSI event is now linked to the KPRO procedure as indicated by the green **Procedure Linked**

12. Click **Save**



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Analysis

The Analysis section of the NHSN application provides tools for reviewing and validating data, monitoring trends, and comparing surgical site infection (SSI) Standardized Infection Ratios (SIR). It enables users to generate customized reports, track performance over time, and identify areas for quality improvement.

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Generating Analysis Data Sets

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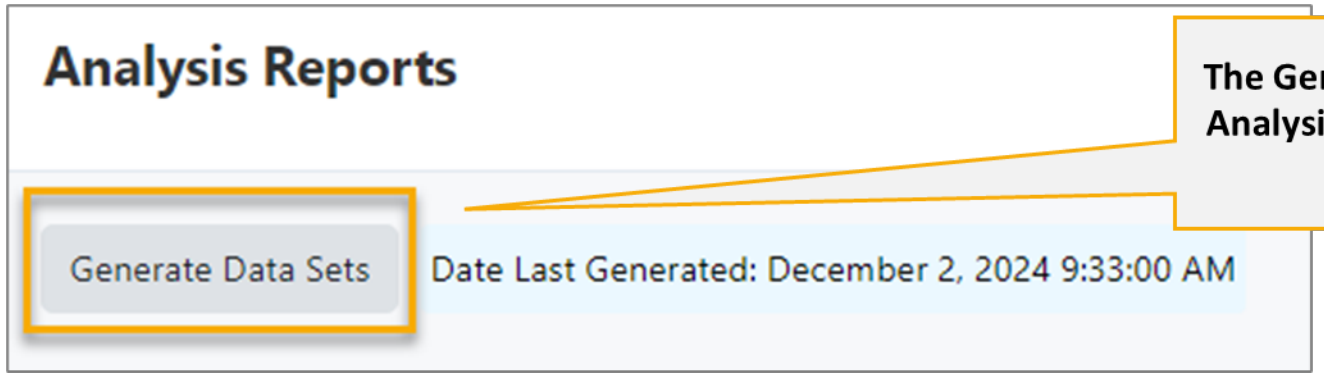
Accessing the Analysis Reports

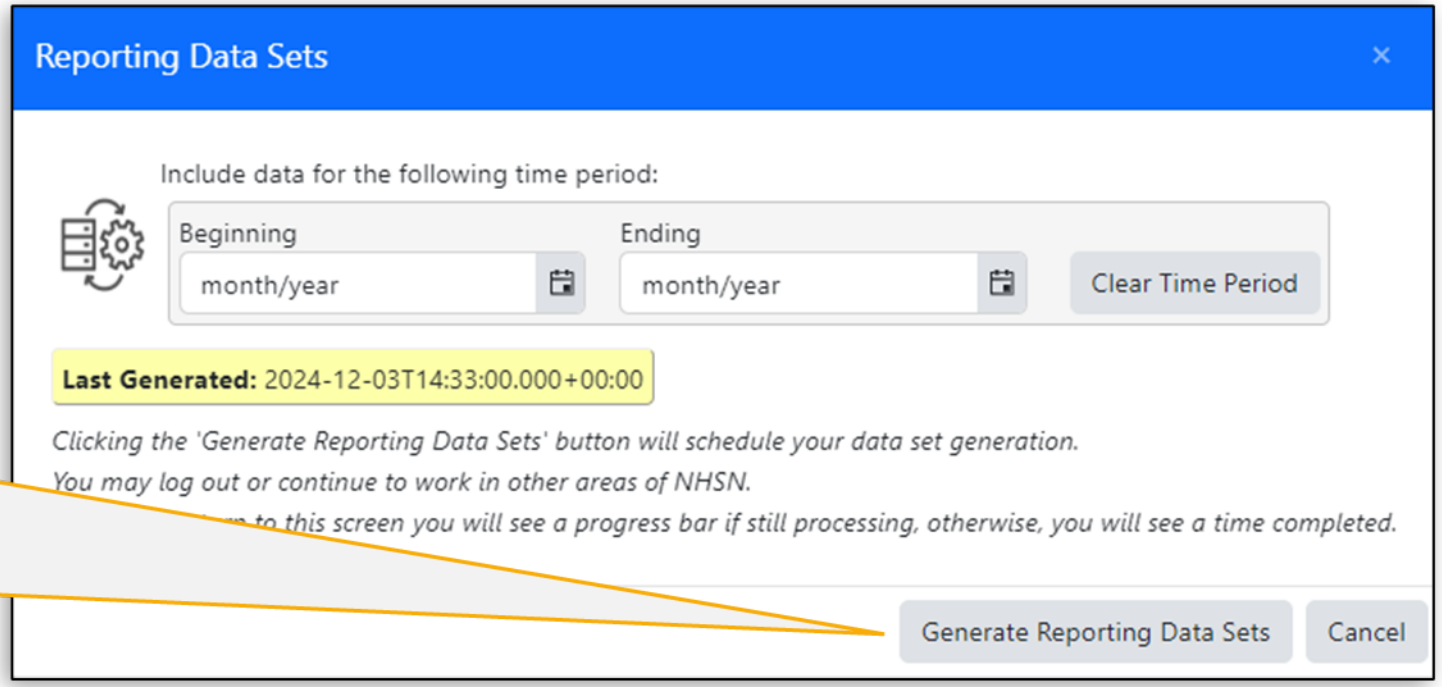
- Data Set Generation (DSG) pulls recently-entered data into analysis data sets
- DSG should be performed **each time** before starting any analytic work

Data Set Generation

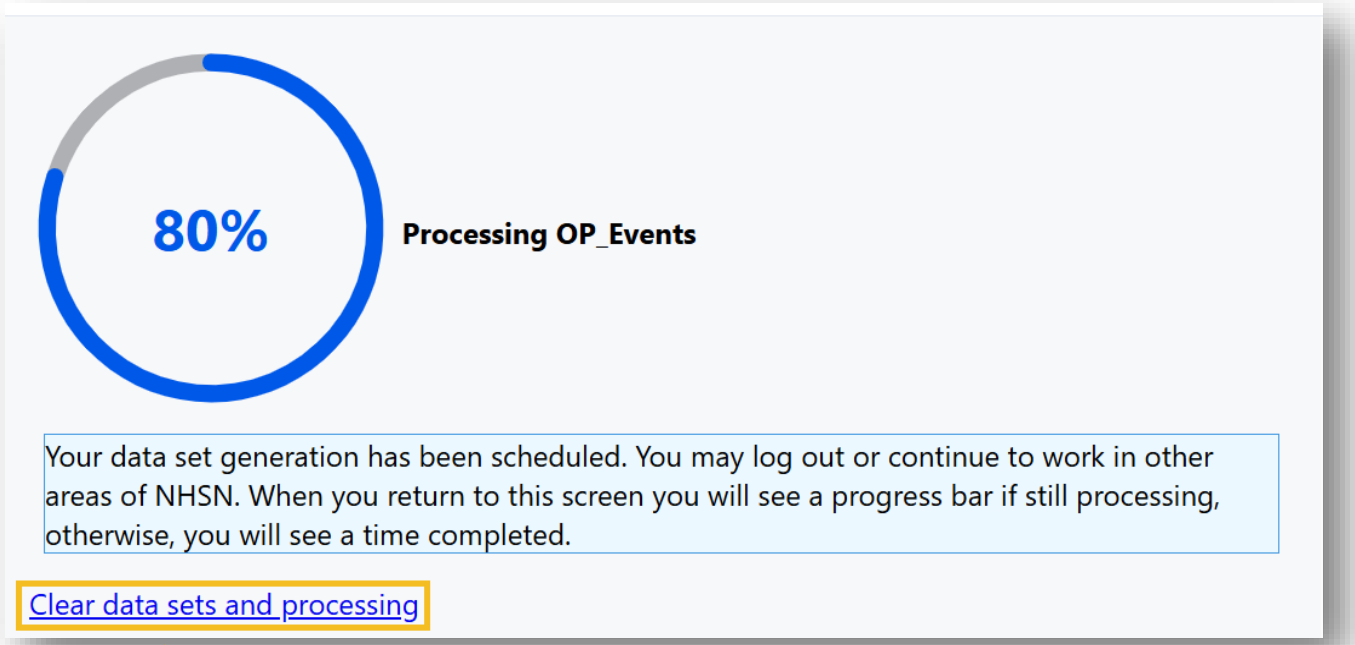


The Generate Data Sets button appears in the Analysis Reports page with the date and time of the last data set generation

The "Reporting Data Sets" window will appear on the same page and a time period can be specified to apply to all analysis data sets in MM/YYYY format. The "Generate Reporting Data Sets" button will start the data set generation process.

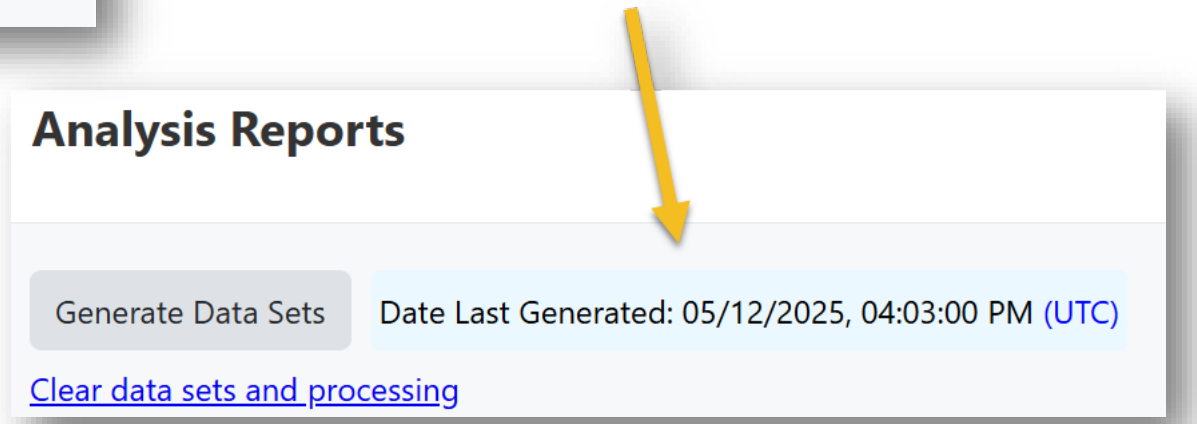


Data Set Generation



Click here if you need to clear your analysis data sets or cancel your in-progress data set generation

When the process starts, you will see a new processing image appear on the Analysis page. When data sets have generated, the date and time of last generation will be updated to indicate that the data sets generated successfully.



Opening the Analysis Reports

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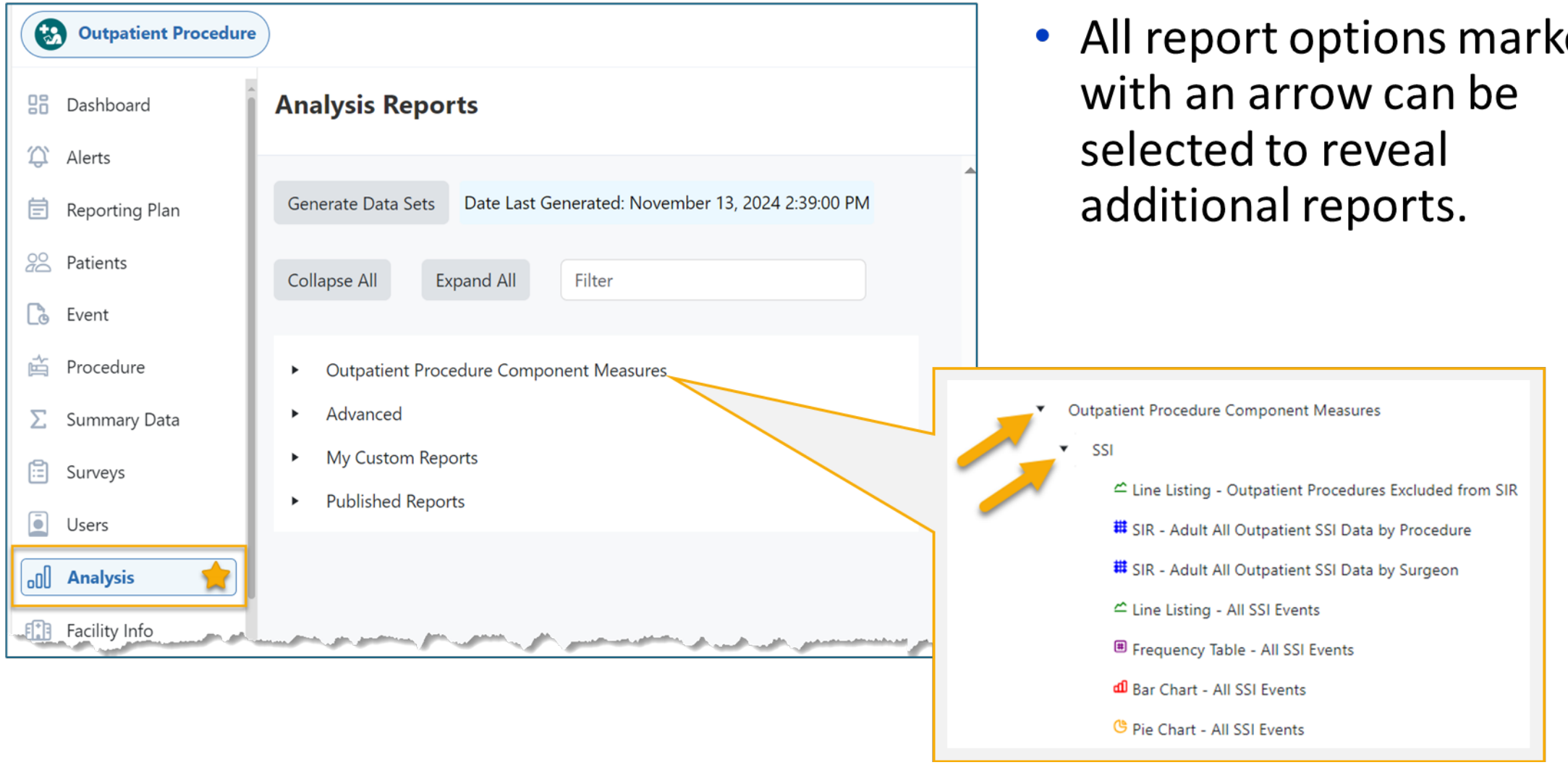
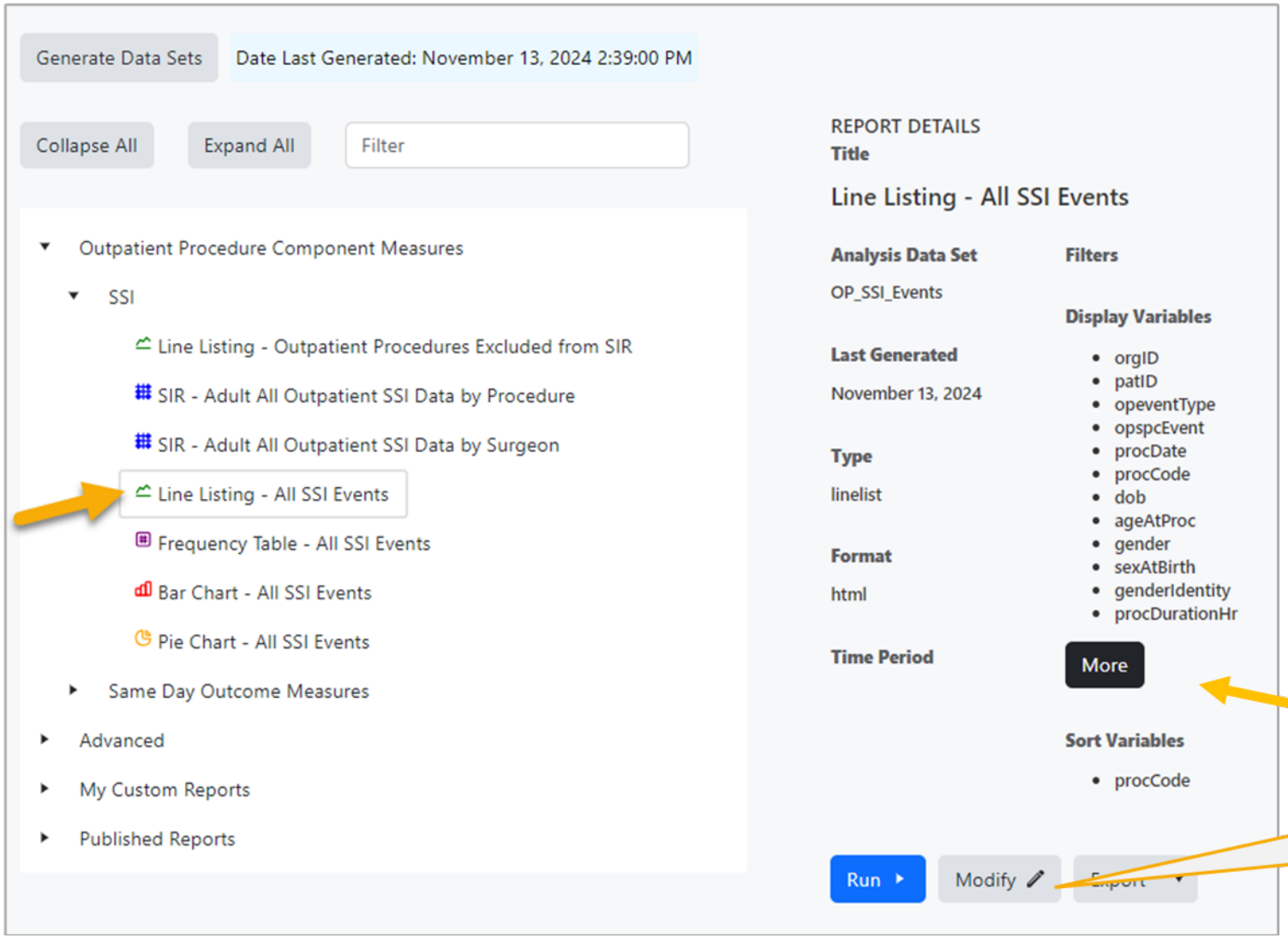
Accessing the Analysis Report



- All report options marked with an arrow can be selected to reveal additional reports.

Selecting an Analysis Report



- **5 Report Formats**
  - Line Listing
  - Frequency Table
  - Bar Chart
  - Pie Chart
  - SIR Report

Simply select the 'Modify' button to adjust the report filters

Selecting an Analysis Report - Line Listing

- **Detailed list of each record in NHSN**
- **Example:** Line Listing of all SSI Events

National Healthcare Safety Network
Line Listing - All SSI Events
As of: May 12, 2025 at 4:28 PM UTC
Date Range: All OP_SSI_EVENTS
if ((((patID ~= "1"))) AND (orgid = 14913))

orgID	patID	opeventType	opspcEvent	procDate	procCode	dob	ageAtProc	sex	procDurationHr	procDurationMi
14913	2323	OPSSI	BRST-DIP	03/15/2018	BRST	08/12/1890	127		.	
14913	OPC1396	OPSSI	DIS-BRST	06/02/2018	BRST	08/15/1968	49	F	6	2
14913	OPC1022	OPSSI	SIS	06/11/2018	HER	09/21/1956	61	M	2	2
14913	OPC1177	OPSSI	SIS	06/30/2018	LAM	04/20/1981	37	F	2	
14913	OPC1200	OPSSI	SIS	07/05/2018	KPRO	10/20/1974	43	F	3	
14913	OPC1202	OPSSI	SIS	07/05/2018	KPRO	12/21/1975	42		1	5
14913	OPC1029	OPSSI	OS-BRST	07/06/2018	BRST	10/09/1972	45		0	4
14913	OPC1189	OPSSI	OS	07/09/2018	LAM	03/18/1984	34	F	0	
14913	OPC1205		DIP		KPRO	06/1	44	M		

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Selecting an Analysis Report - Frequency Table

- **Counts and percentages, organized by chosen row and column variables**
- **Example:** OP Event Type by procedure code

National Healthcare Safety Network
Frequency Table of All Surgical Site Infection Events
As of: May 13, 2025 at 7:51 PM UTC
Date Range: All OP_SSI_EVENTS
if (orgid = 14913)

Frequency Percent Row Pct Col Pct	Table of procCode by opspcEvent									
	opspcEvent									
procCode	BRST-DIP	DIP	DIS	DIS-BRST	OS	OS-BRST	SIP	SIP-BRST	SIS	Total
AMP	0 0.00 0.00 0.00	2 4.88 100.00 18.18	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	2 4.88
APPY	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	3 7.32 100.00 25.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	3 7.32
AVSD	0 0.00 0.00 0.00	3 7.32 50.00 27.27	2 4.88 33.33 66.67	0 0.00 0.00 0.00	1 2.44 16.67 16.67	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	6 14.63
BRST	1 2.44 16.67 100.00	0 0.00 0.00 0.00	0 0.00 0.00 0.00	2 4.88 33.33 100.00	0 0.00 0.00 0.00	1 2.44 16.67 100.00	1 2.44 16.67 8.33	1 2.44 16.67 100.00	0 0.00 0.00 0.00	6 14.63
[illegible]	0	[illegible]	1	[illegible]	0	[illegible]	[illegible]	0	0	[illegible]

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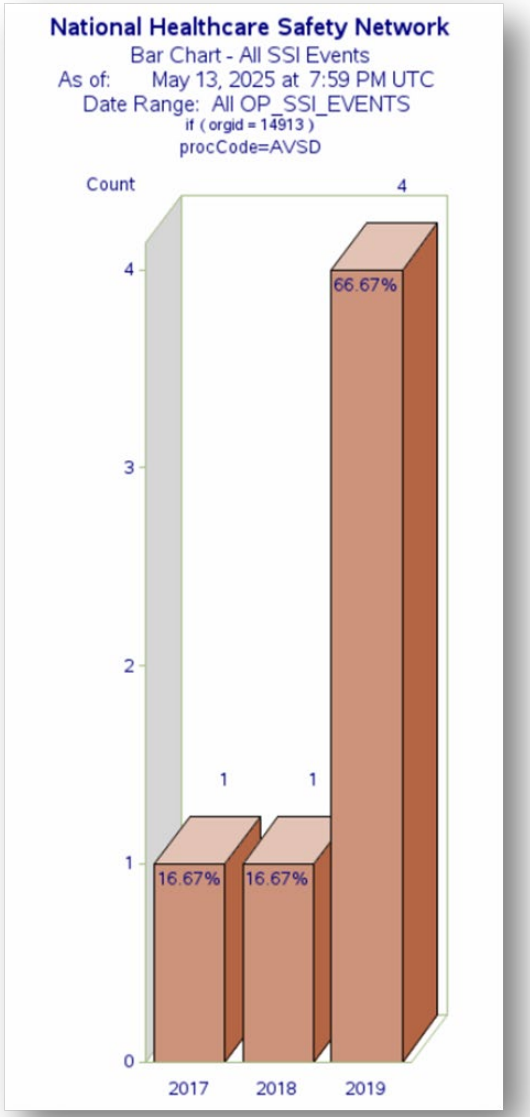
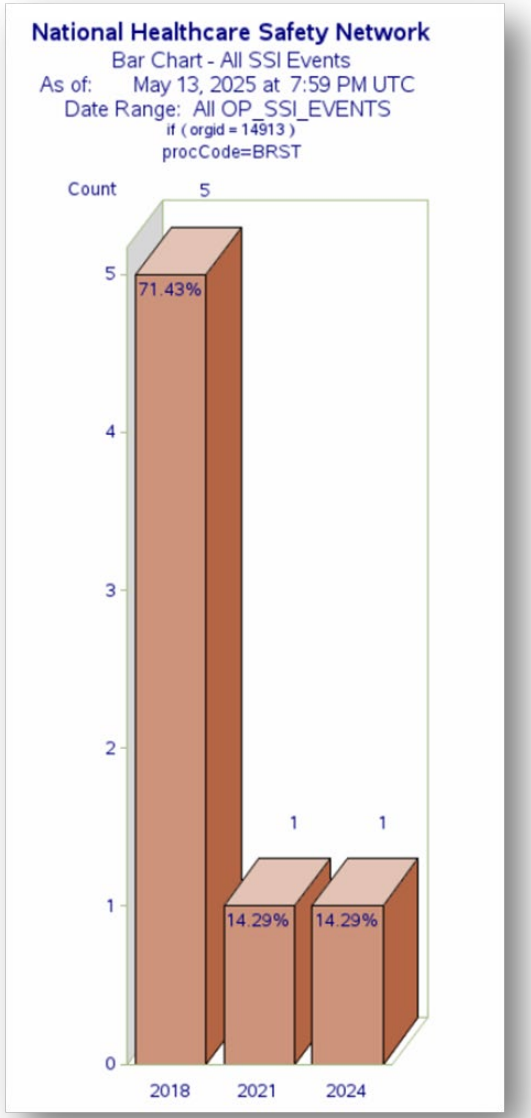
Selecting an Analysis Report – Bar Chart

- **Bars for side-by-side comparison**

- **Example:** SSI Event Count by procedure type and year





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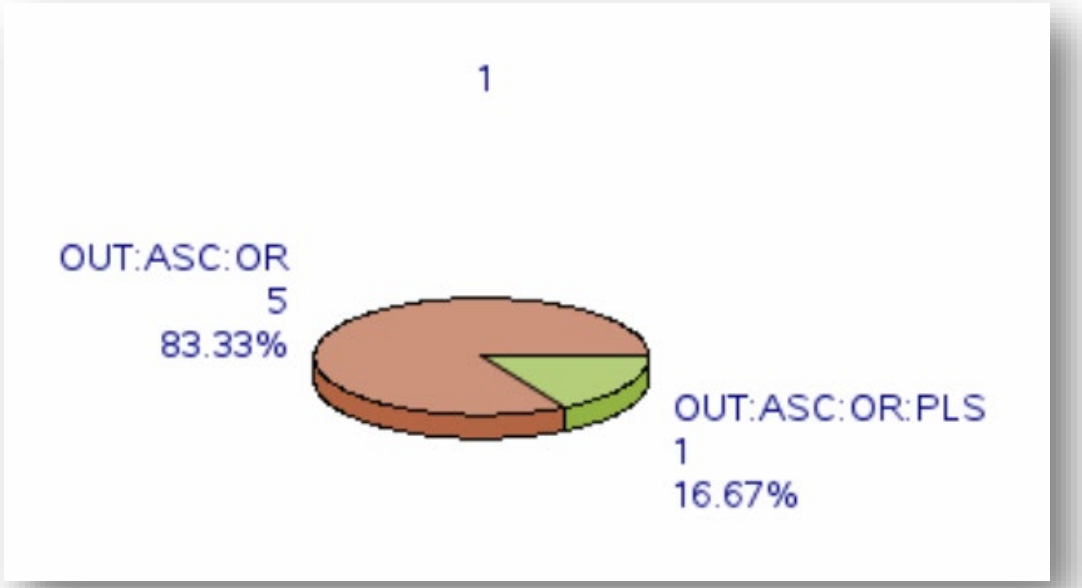
Selecting an Analysis Report – Pie Chart

- **Circular visualization useful for showing proportions**

- **Example:** Count of SSI events by facility location, where ASA score = 1



Selecting an Analysis Report – SIR Report

Background:

- The Standardized Infection Ratio (SIR) is a key NHSN metric to track HAIs over time
- Adjusted for facility and patient-level factors
- Compares number of HAIs reported to number of HAIs predicted by statistical modeling
- Full SIR guide available on NHSN website

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

Selecting an Analysis Report – SIR Report

- **A summary metric used to monitor actual incidence compared to predicted incidence**

- **Example:** facility-wide SIR report (top) and SIRs broken down by procedure code (bottom)

National Healthcare Safety Network
SIR for Adult All Outpatient SSI Data by Procedure (2015 Baseline) - By OrgID
As of: May 14, 2025 at 10:13 AM UTC
Date Range: All OP_SIR_ADULTALLSSIPROC
if (orgid = 14913)

orgid=14913

orgid	CCN	procCount	infCountAdultAll	numPredAdultAll	SIRAll	SIRAll_pval	SIRAll95CI
14913	65C32	3619	14	13.007	1.076	0.7532	0.613, 1.763

National Healthcare Safety Network
SIR for Adult All Outpatient SSI Data by Procedure (2015 Baseline) - By OrgID/ProcCode
As of: May 14, 2025 at 10:13 AM UTC
Date Range: All OP_SIR_ADULTALLSSIPROC
if (orgid = 14913)

orgid=14913

orgid	CCN	proccode	months	procCount	infCountAdultAll	numPredAdultAll	SIRAll	SIRAll_pval	SIRAll95CI
14913	65C32	BRST	9	1040	4	4.23	0.946	0.9740	0.300, 2.281
14913	65C32	HER	4	818	0	5.265	0	0.0052	, 0.569
14913	65C32	KPRO	7	899	8	0.519	.	.	
14913	65C32	LAM	4	862	2	2.993	0.668	0.6250	0.112, 2.208

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Knowledge Check

When doing data analysis in the NHSN application, how often should you generate data sets?

A. At the start of every week
B. At the start of every month
C. Each time you start analytic work
D. When the application reminds you

Knowledge Check

When doing data analysis in the NHSN application, how often should you generate data sets?

A. At the start of every week

B. At the start of every month

C. Each time you start analytic work

D. When the NHSN application prompts you

Why? Generating data sets ensures that the all of your latest data are being included in your analysis reports

Modifying Analysis Reports

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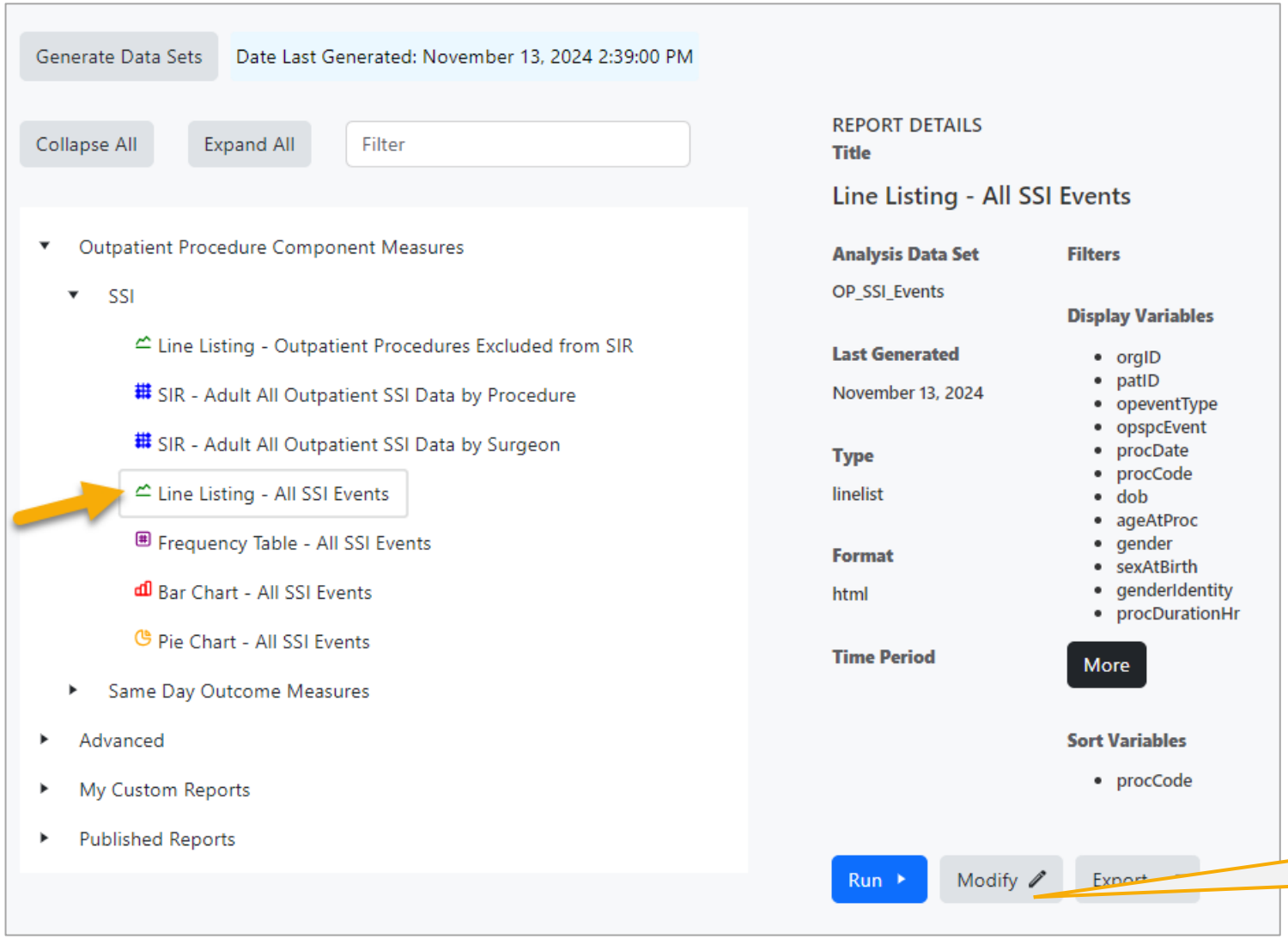
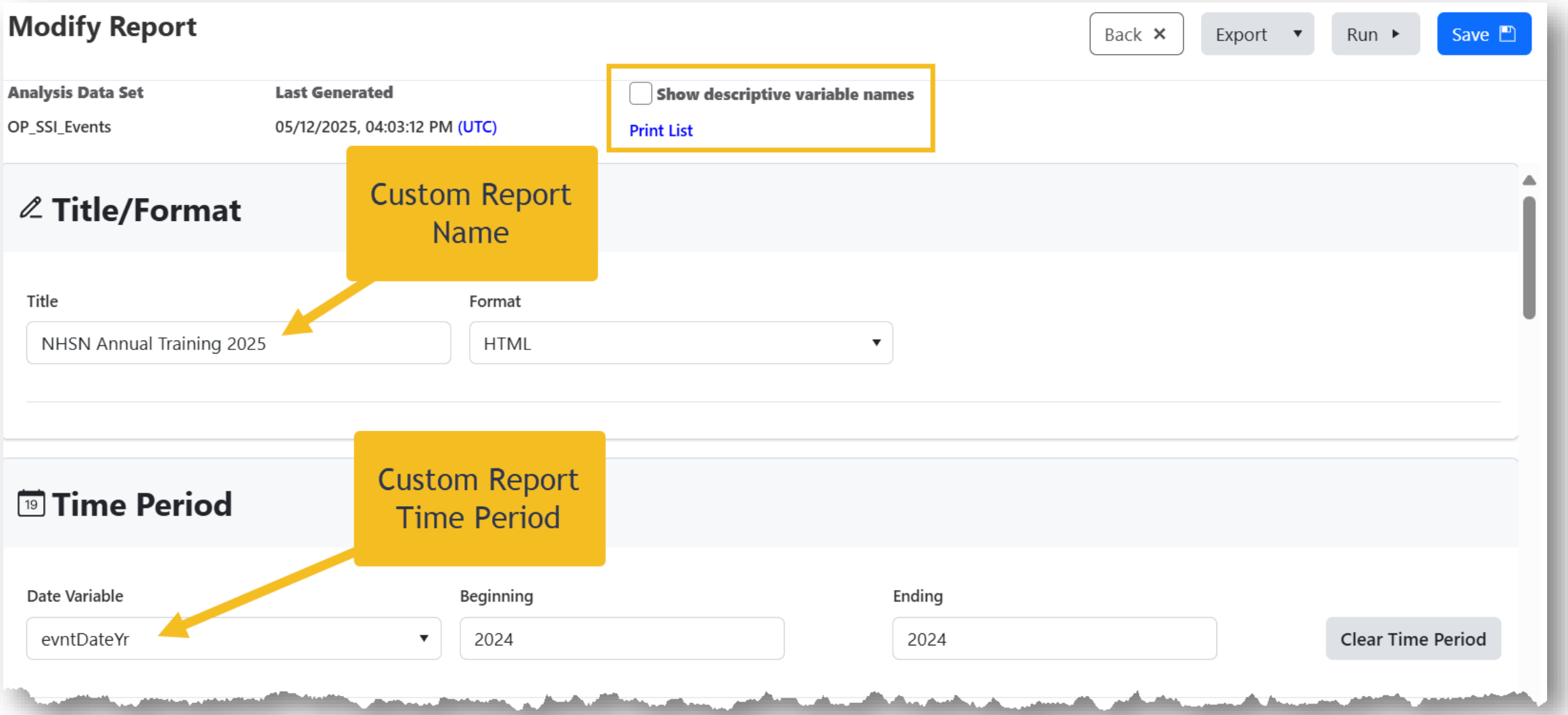
Modifying Analysis Reports



- **Each analysis report in NHSN is highly customizable**
- **Modifications can be saved to create custom reports**

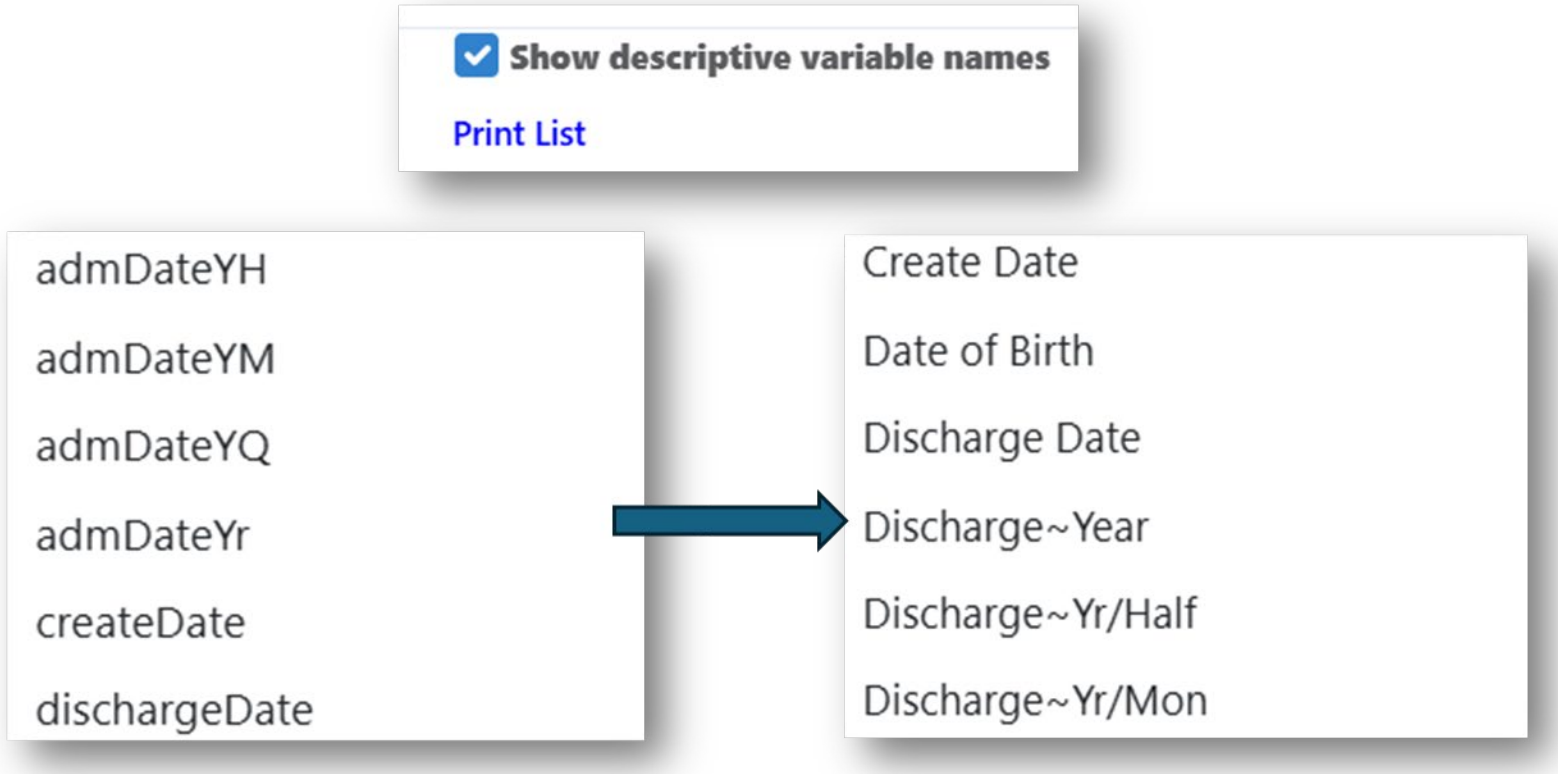
Simply select the 'Modify' button to adjust the report filters

Modifying Analysis Reports – Title and Time Period

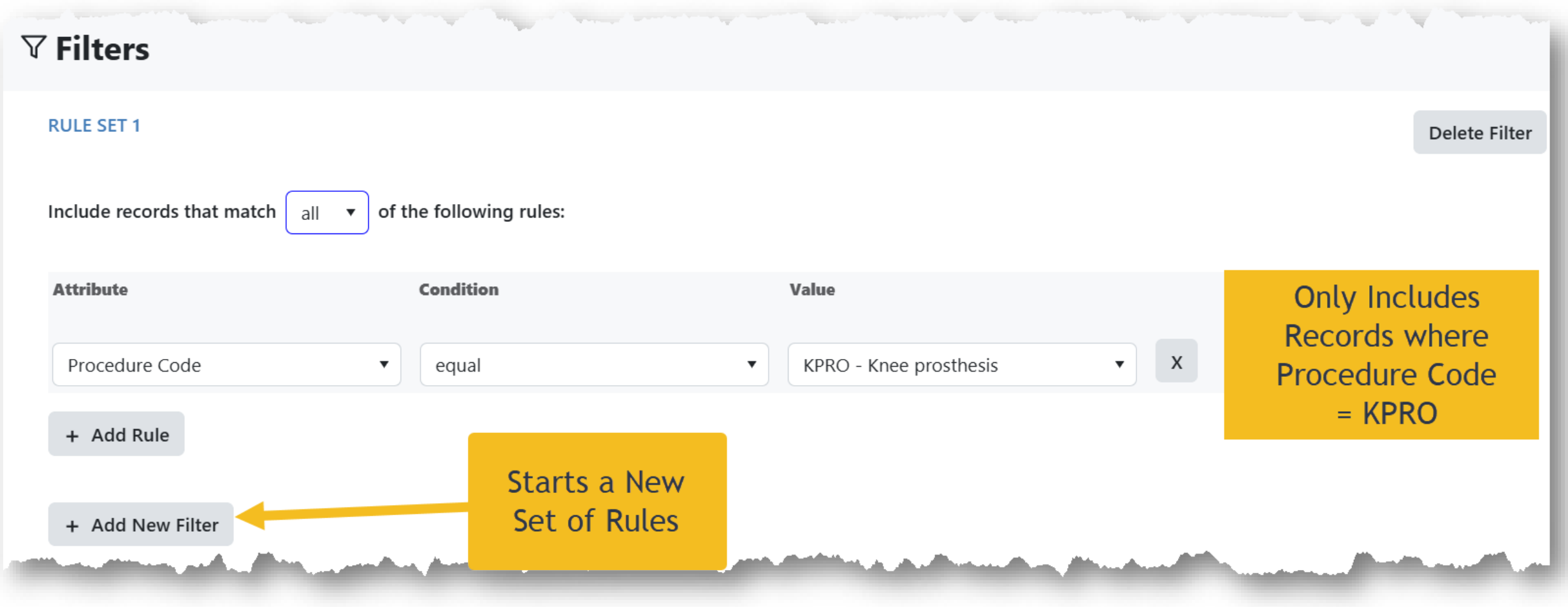


Modifying Analysis Reports – Descriptive Variables

- **Clicking the "Show descriptive variables names" button spells out every variable on the page**

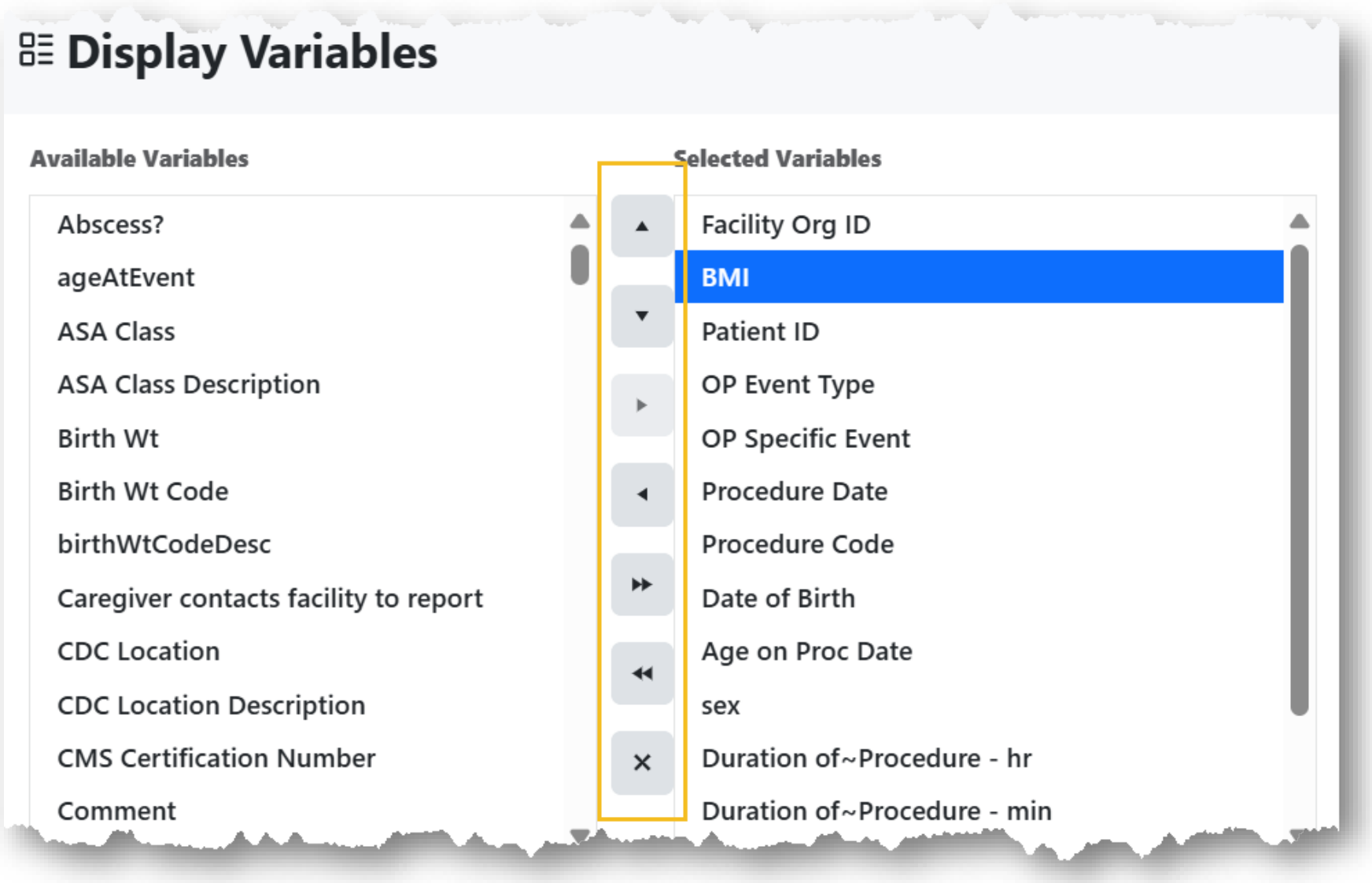


Modifying Analysis Reports – Filters



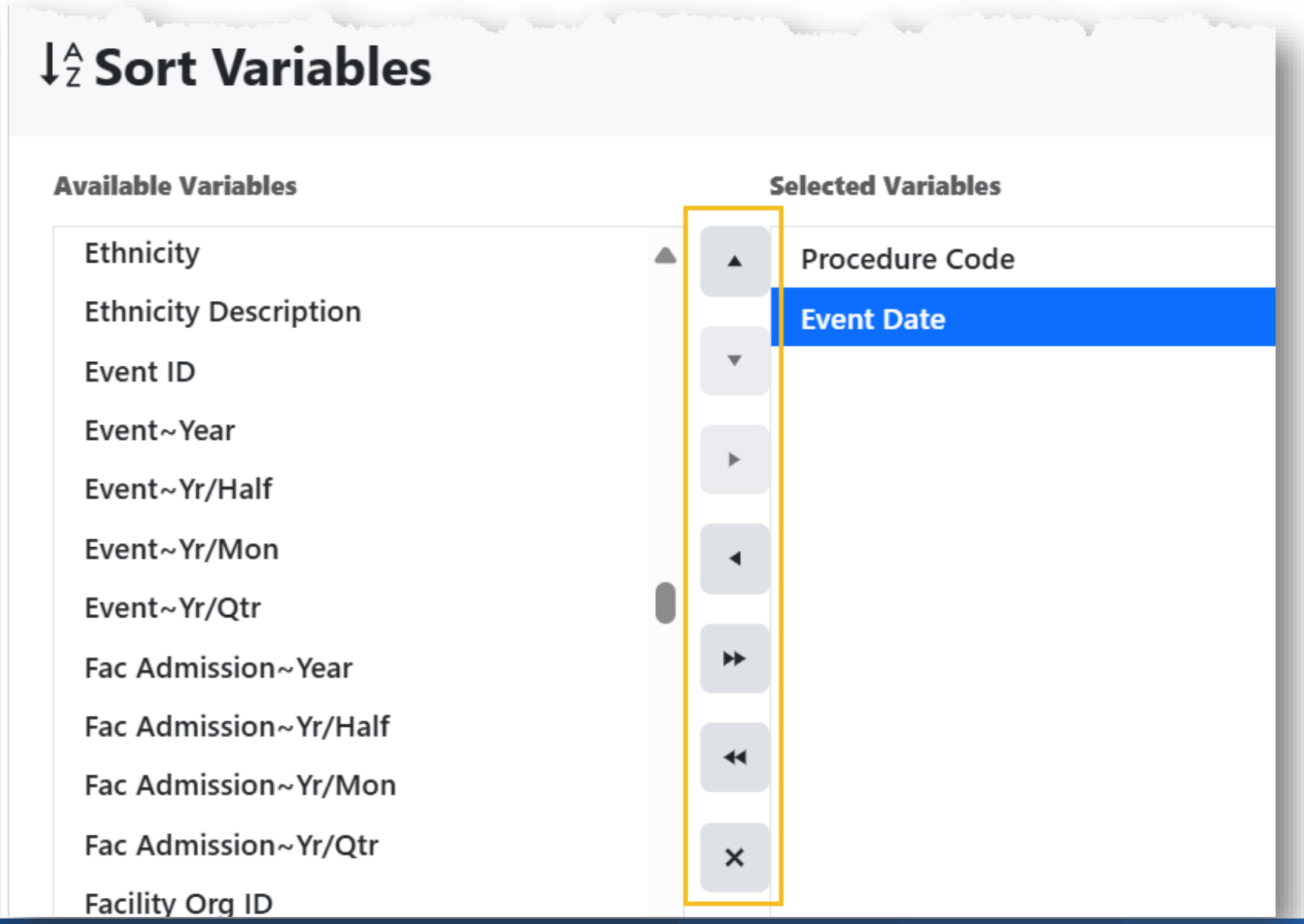
Modifying Analysis Reports – Display Variables

- Arrows are used to include, exclude, and reorder variables
- BMI has been added to the report in this example



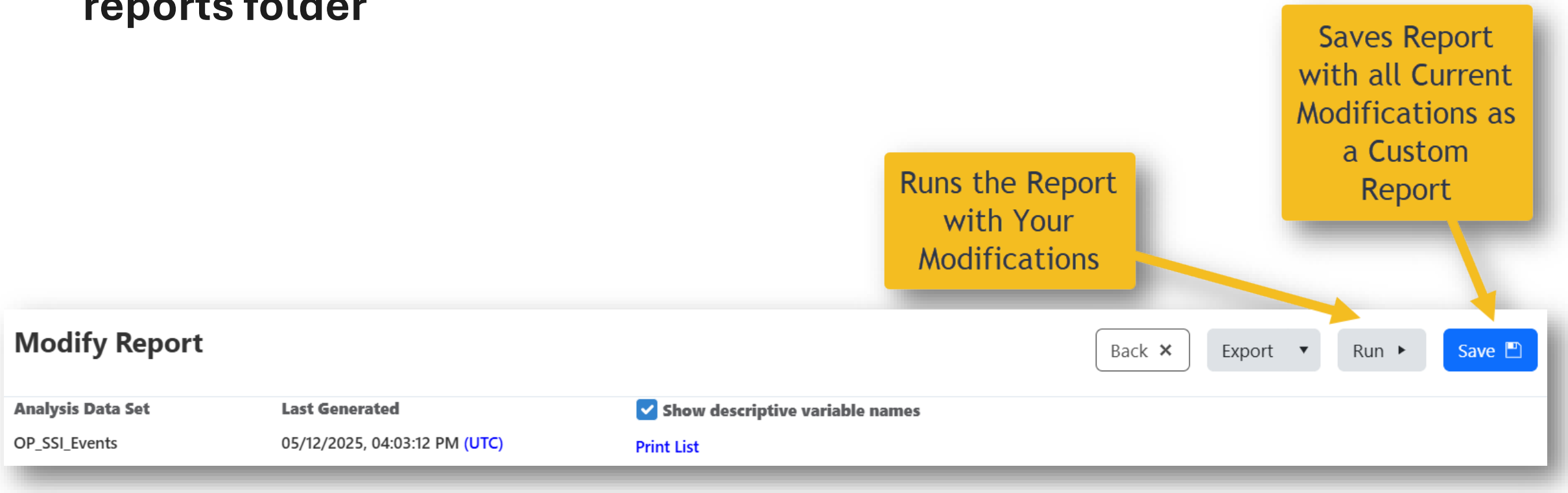
Modifying Analysis Reports – Sort Variables

- Arrows are used to change how the records are sorted
- Event Date has been added as a sort variables in this example



Modifying Analysis Reports – Running and Saving Modified Reports

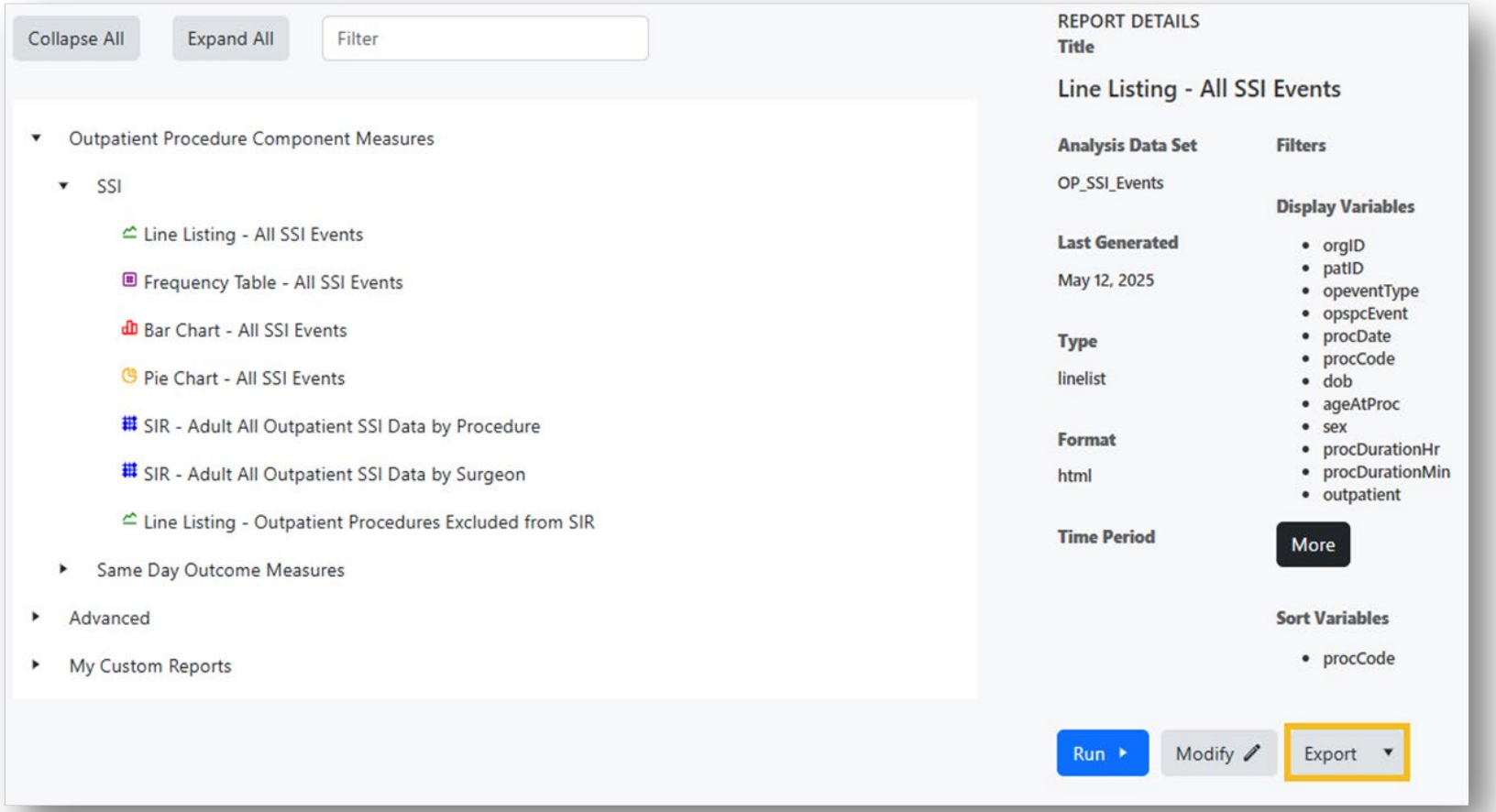
- **To save some time with future analyses, modified reports can be saved in the custom reports folder**



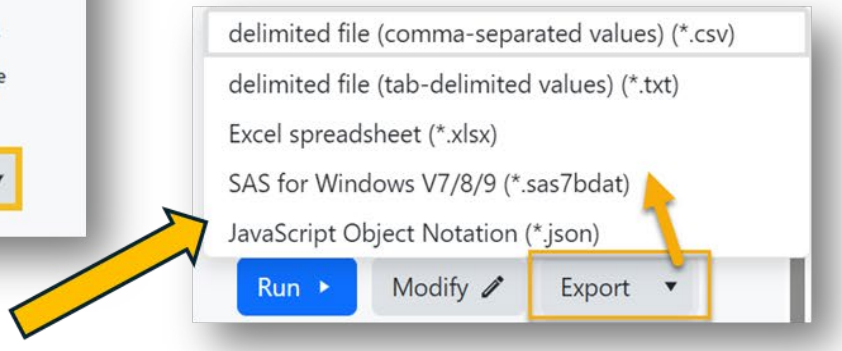
Exporting Analysis Reports

The exporting feature enables facilities to quickly export their analysis reports out of NHSN into a variety of formats

Exporting Analysis Reports



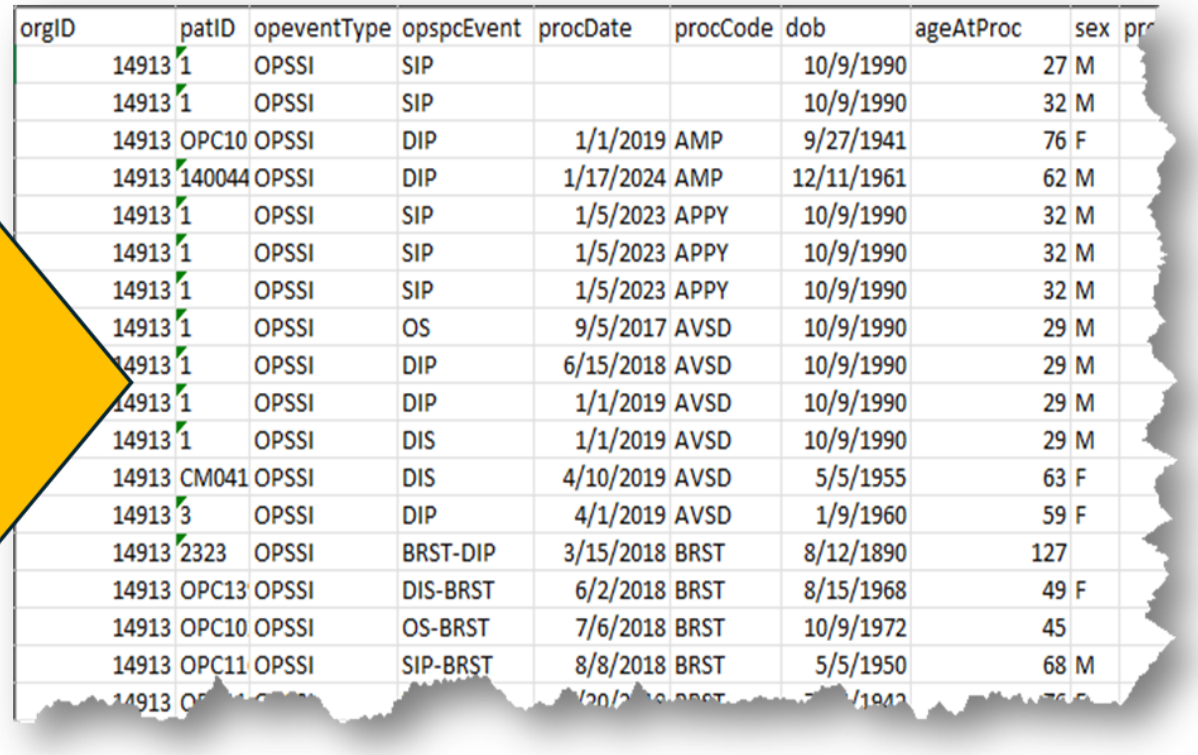
- **All analysis reports can be exported to a variety of formats**
- **Reports with modifications will include those modifications when exported**



Exporting Analysis Reports

orgID	patID	opeventType	opspcEvent	procDate	procCode	dob	ageAtProc	sex	prc
14913	1	OPSSI	SIP	.		10/09/1990	27	M	
14913	1	OPSSI	SIP	.		10/09/1990	32	M	
14913	OPC1015	OPSSI	DIP	01/01/2019	AMP	09/27/1941	76	F	
14913	140044	OPSSI	DIP	01/17/2024	AMP	12/11/1961	62	M	
14913	1	OPSSI	SIP	01/05/2023	APPY	10/09/1990	32	M	
14913	1	OPSSI	SIP	01/05/2023	APPY	10/09/1990	32	M	
14913	1	OPSSI	SIP	01/05/2023	APPY	10/09/1990	32	M	
14913	1	OPSSI	OS	09/05/2017	AVSD	10/09/1990	29	M	
14913	1	OPSSI	DIP	06/15/2018	AVSD	10/09/1990	29		
14913	1	OPSSI	DIP	01/01/2019	AVSD	10/09/1990	29		
14913	1	OPSSI	DIS	01/01/2019	AVSD	10/09/1990	29		
14913	CM0410-APPY-A	OPSSI	DIS	04/10/2019	AVSD	05/05/1955	63		
14913	3	OPSSI	DIP	04/01/2019	AVSD	01/09/1960	59		
14913	2323	OPSSI	BRST-DIP	03/15/2018	BRST	08/12/1890	127		
14913	OPC1396	OPSSI	DIS-BRST	06/02/2018	BRST	08/15/1968	49	F	
14913	OPC1029	OPSSI	OS-BRST	07/06/2018	BRST	10/09/1972	45		
14913	OPC1162	OPSSI	SIP-BRST	08/08/2018	BRST	05/05/1950	68	M	
14913	OPC1156	OPSSI	DIS-BRST	09/20/2018	BRST	07/15/1942	76	F	
14913	OP21111	OPSSI		01/25/2021	BRST	12/02/1990	30	F	
14913	OPD-89	OPSSI	SIP	02/04/2024	BRST	01/13/2002	22	M	

NHSN Application



orgID	patID	opeventType	opspcEvent	procDate	procCode	dob	ageAtProc	sex	prc
14913	1	OPSSI	SIP			10/9/1990	27	M	
14913	1	OPSSI	SIP			10/9/1990	32	M	
14913	OPC10	OPSSI	DIP	1/1/2019	AMP	9/27/1941	76	F	
14913	140044	OPSSI	DIP	1/17/2024	AMP	12/11/1961	62	M	
14913	1	OPSSI	SIP	1/5/2023	APPY	10/9/1990	32	M	
14913	1	OPSSI	SIP	1/5/2023	APPY	10/9/1990	32	M	
14913	1	OPSSI	SIP	1/5/2023	APPY	10/9/1990	32	M	
14913	1	OPSSI	OS	9/5/2017	AVSD	10/9/1990	29	M	
14913	1	OPSSI	DIP	6/15/2018	AVSD	10/9/1990	29	M	
14913	1	OPSSI	DIP	1/1/2019	AVSD	10/9/1990	29	M	
14913	1	OPSSI	DIS	1/1/2019	AVSD	10/9/1990	29	M	
14913	CM041	OPSSI	DIS	4/10/2019	AVSD	5/5/1955	63	F	
14913	3	OPSSI	DIP	4/1/2019	AVSD	1/9/1960	59	F	
14913	2323	OPSSI	BRST-DIP	3/15/2018	BRST	8/12/1890	127		
14913	OPC13	OPSSI	DIS-BRST	6/2/2018	BRST	8/15/1968	49	F	
14913	OPC10	OPSSI	OS-BRST	7/6/2018	BRST	10/9/1972	45		
14913	OPC11	OPSSI	SIP-BRST	8/8/2018	BRST	5/5/1950	68	M	

Microsoft Excel

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Resources

- **For OPC KPRO resources guides, visit the Annual Training Community**
- **You will find the following resource guides:**
  - Adding Same Day Outcome Measures and Completing Denominators for the Same Day Outcome Measure
  - Adding Monthly Reporting Plans in the NHSN Application
  - Adding and Editing Surgical Site Infection (SSI) Events and Procedures in the NHSN Application
  - How to Export Facility-Specific Data from NHSN
  - How to Generate Data Sets in NHSN
  - How to Modify Procedures Line List

For NHSN questions or concerns related to the Annual Training

Post questions in the Annual Training Community

After June 10th, please submit questions to the NHSN Help Desk.

- Access new portal at https://servicedesk.cdc.gov/nhsncsp .
- If you do not have a SAMS login, or are unable to access ServiceNow, you can still email the NHSN Help Desk 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.