

Advanced NHSN Analysis for the Patient Safety Component

June 2012

This training builds on the concepts and features reviewed in the NHSN basic analysis training, available at: <http://www.cdc.gov/nhsn/PDFs/training/intro-AnalysisBasics-PSC.pdf>

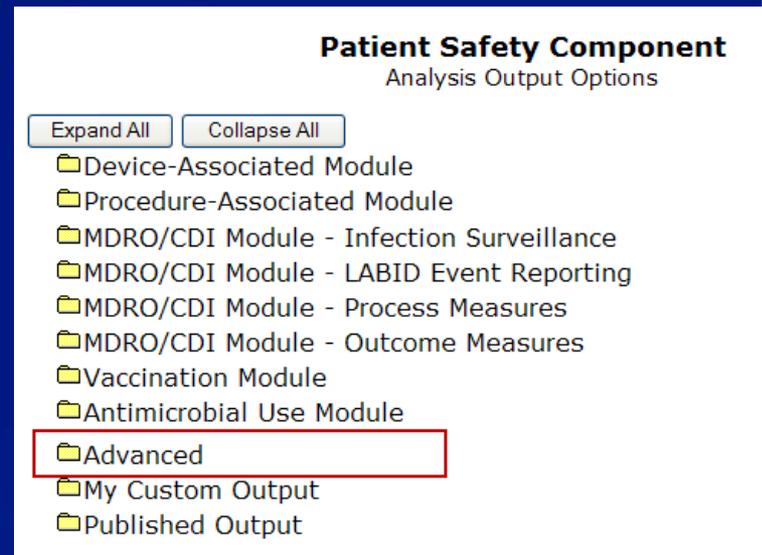
Objectives

- ❑ Review frequently-used output options in the Advanced section of analysis**
- ❑ Describe how custom output options can be shared with all users in the same facility**
- ❑ Illustrate how to create output sets**
- ❑ Discuss the Statistics Calculator using examples**

ADVANCED OUTPUT OPTIONS

Advanced Output Options

- ❑ In addition to module-specific analyses, NHSN provides datasets that allow for more in-depth analyses through an “Advanced” folder on the Output Options tree view.
- ❑ Advanced output options can be modified in the same manner as the module-specific options.



Advanced Output Options

- ❑ The following slides will highlight some of the most frequently-used advanced output options.

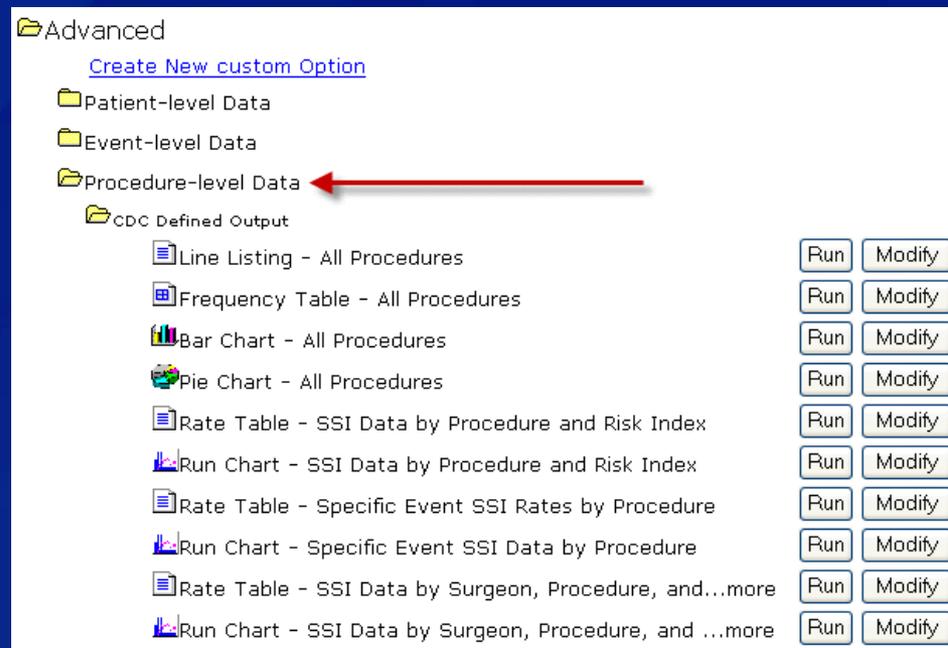
Patient Safety Component
Analysis Output Options

- 📁 Device-Associated Module
- 📁 Procedure-Associated Module
- 📁 MDRO/CDI Module - Infection Surveillance
- 📁 MDRO/CDI Module - LABID Event Reporting
- 📁 MDRO/CDI Module - Process Measures
- 📁 MDRO/CDI Module - Outcome Measures
- 📁 Vaccination Module
- 📁 Antimicrobial Use Module
- 📁 Advanced**
- 📁 My Custom Output
- 📁 Published Output

Advanced Output Options

Procedure Line List

- ❑ Use the procedure line list to obtain detailed information, including custom field data, for all procedures performed – not just those procedures resulting in an SSI.
- ❑ Navigate to: Advanced – Procedure-level Data



Advanced Output Options

Event Line List with Pathogen(s)

- ❑ If you're interested in seeing the pathogen(s) associated with each of your HAI events, use the "Line Listing – All Infection Events" line list.
- ❑ Navigate to: Advanced – Event-level Data

The screenshot shows a software interface with a tree view under the heading "Advanced". The tree structure is as follows:

- Advanced
 - [Create New custom Option](#)
 - Patient-level Data
 - Event-level Data (indicated by a red arrow pointing to it)
 - CDC Defined Output
 - Line Listing - All Infection Events (indicated by a red arrow pointing to it)
 - Line Listing - All Dialysis and Non-Infection Events
 - Line Listing - All Events
 - Frequency Table - All Events
 - Bar Chart - All Events
 - Pie Chart - All Events
 - Line Listing - All CDC Infections
 - User-Defined Rate Table - All Events

Each item in the "CDC Defined Output" list has a "Run" button and a "Modify" button to its right.

Advanced Output Options Event Line List with Pathogen(s)

- NOTE: Because this dataset will include all HAI events, you may want to limit the output to certain event types, time period, and/or location(s).**

Advanced Output Options

CMS-related Reports

- ❑ If your facility reports data as part of a CMS measure, you can see your facility's data in NHSN as they would be submitted to CMS.
- ❑ Navigate to: Advanced – Summary-level Data

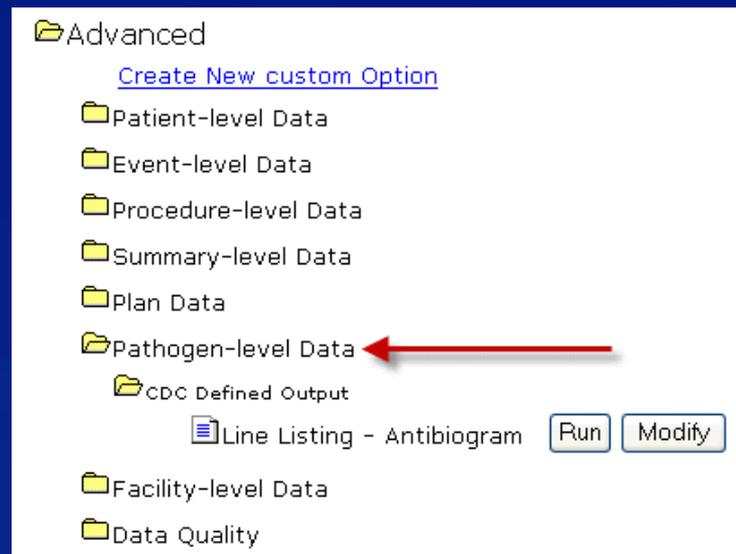
The screenshot shows a web interface for 'Advanced' output options. It features a tree view on the left with folders for 'Patient-level Data', 'Event-level Data', 'Procedure-level Data', 'Summary-level Data', and 'CDC Defined Output'. A red arrow points to the 'Summary-level Data' folder. Below this, a list of reports is displayed, each with a 'Run' and 'Modify' button. A red box highlights the first four reports: 'SIR - CLAB Data for CMS IPPS', 'SIR - CAUTI Data for CMS IPPS', 'SIR - Complex 30-Day SSI Data for CMS IPPS', and 'Line Listing - CMS ESRD QIP Rule'.

Report Name	Run	Modify
SIR - CLAB Data for CMS IPPS	Run	Modify
SIR - CAUTI Data for CMS IPPS	Run	Modify
SIR - Complex 30-Day SSI Data for CMS IPPS	Run	Modify
Line Listing - CMS ESRD QIP Rule	Run	Modify
Line Listing - All Summary Data	Run	Modify
User-Defined Rate Table - ICU-Other	Run	Modify
User-Defined Rate Table - NICU	Run	Modify
User-Defined Rate Table - SCA	Run	Modify
Line Listing - CLAB Rates for NICU	Run	Modify

Advanced Output Options

Antibiogram

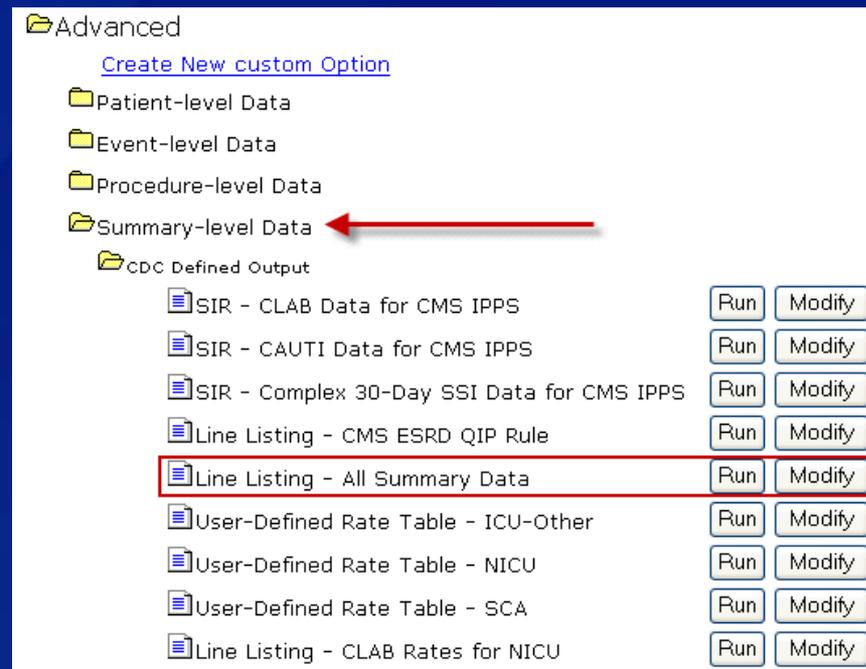
- ❑ The antibiogram is presented as a line list that will include the drugs and results for each organism for each reported infection event.
- ❑ Navigate to: Advanced – Pathogen-level Data
- ❑ **NOTE:** There will be one row per organism/event reported, up to three rows for a single event ID.



Advanced Output Options

Summary Data Line List

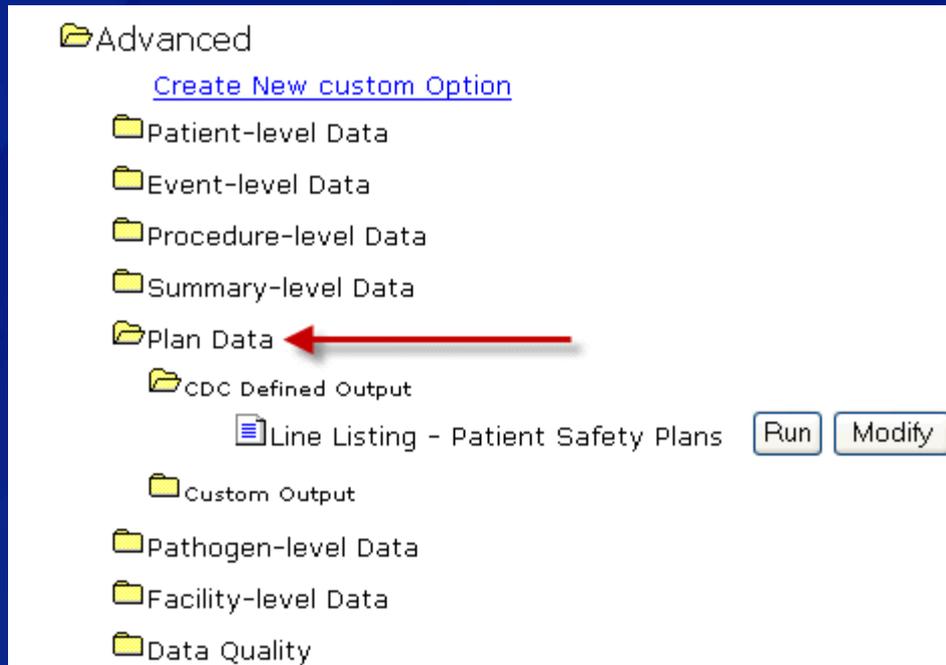
- ❑ The summary data line list provides denominator data (e.g., patient days, admissions, device days) for each location and month in a list format.
- ❑ Navigate to: Advanced – Summary-level Data



Advanced Output Options

Monthly Reporting Plan Line List

- ❑ The monthly reporting plan (“Patient Safety Plans”) line list is helpful to groups who wish to review which data are included in a facility’s monthly reporting plans, as well as which months had 0 in-plan procedures or 0 in-plan SSIs reported.
- ❑ **Navigate to: Advanced – Plan Data**



ADVANCED USE OF CUSTOM OUTPUT

Publishing Output

- ❑ **At times, you may want to share a custom output template with your coworkers so that the same customized report can be run by multiple users.**
- ❑ **Any custom output template can be “Published”**
 - This allows all users in your facility (with appropriate user rights) to run the same custom output using his/her generated datasets.

Publishing Output

- ❑ To publish a custom output option, go to the My Custom Output folder on the output options screen, and click “Modify” next to the desired output.

The screenshot displays a software interface with a folder tree on the left and a list of files on the right. At the top, there are two buttons: 'Expand All' and 'Collapse All'. The folder tree includes: Device-Associated Module, Procedure-Associated Module, MDRO/CDI Module - Infection Surveillance, MDRO/CDI Module - LABID Event Reporting, MDRO/CDI Module - Process Measures, MDRO/CDI Module - Outcome Measures, Vaccination Module, Advanced, and My Custom Output. The 'My Custom Output' folder is expanded, showing a list of files. A red arrow points to the file 'Line Listing - All ICU Device-Associated Events'. To the right of this file are three buttons: 'Run', 'Modify', and 'Delete'. The 'Modify' button is highlighted with a red box.

File Name	Run	Modify	Delete
Exercise 1b - DA Events 2009Q1	Run	Modify	Delete
Exercise 1c - DA Events by Location 2009Q1	Run	Modify	Delete
Line Listing - All ICU Device-Associated Events	Run	Modify	Delete
Exercise 1a - CLABSI Line List 2009Q1	Run	Modify	Delete

Publishing Output

- ❑ On the modification screen, scroll down to the bottom and click the “Publish” button.

Other Options: [Print Variable Reference List](#)

Modify Variables To Display By Clicking: [Modify List](#)

Specify Sort Variables By Clicking: [Modify List](#)

Select Page by variable:

Publishing Output

- ❑ After confirming that this output option should be published, you'll receive a message at the top of the design modification screen that says "Analysis Option Published Successfully".

Logged into DHQP MEMORIAL HOSPITAL (ID 10018) as MAGGIE.
Facility DHQP MEMORIAL HOSPITAL (ID 10018) is following the PS component.

Line Listing

✔ Analysis option published successfully.

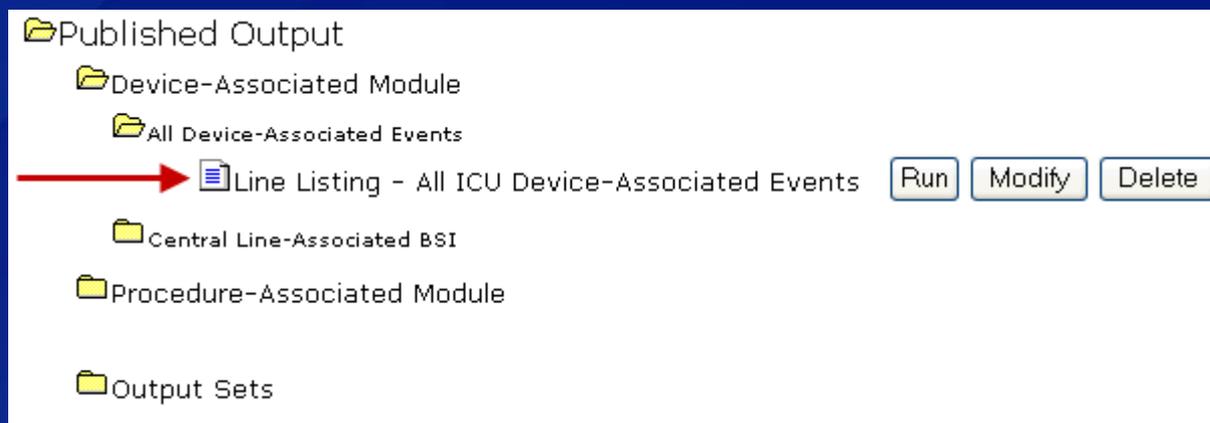
Analysis Data Set: DA_Events

Export Analysis Data Set

Modify Attributes of the Output:

Publishing Output

- ❑ The published output template is now available on the Output Options screen, under the “Published” folder, for all users with rights to analyze these data in NHSN.
- ❑ **REMEMBER:** Each user must generate datasets in order to run any output option, including published output options.



Output Sets

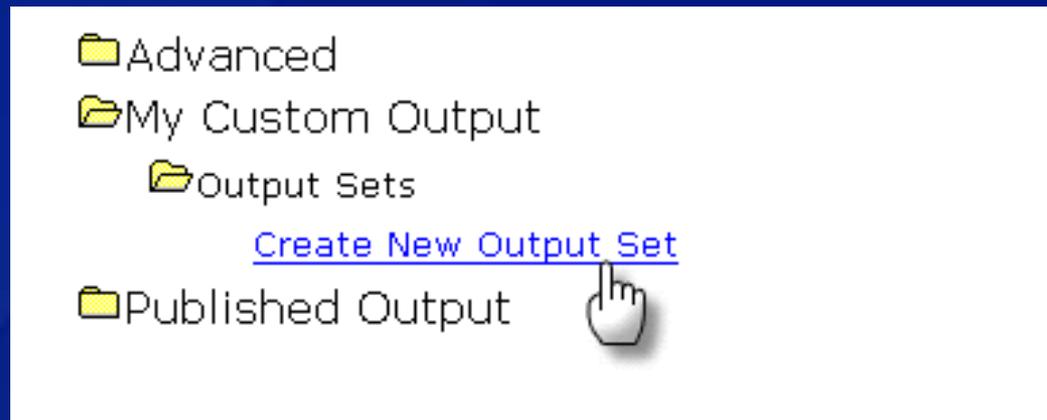
- ❑ **There may be reports that you wish to run simultaneously on a regular basis (e.g., CLABSI line list and CLABSI rate table, or all SIRs applicable to CMS IPPS reporting)**
- ❑ **You can create custom output sets in NHSN that will allow you to run multiple reports with a single click of the “Run” button**

Output Sets

- ❑ **For example, if your facility participates in the CMS IPPS program and you report all applicable CLABSI, CAUTI, and SSI data to NHSN, you may wish to have one output option that includes all SIRs that would be submitted to CMS on your behalf.**

Output Sets

- ❑ To create an output set, go to the My Custom Output folder on the output options screen, expand the folder for Output Sets and click “Create New Output Set”



Output Sets

- ❑ On the Output Set screen, enter a name and title for this output set.
- ❑ Then, click “Add Output Options”

Output Set

Mandatory fields marked with *

Output Set Name*:

Output Set Title:

Output Options*

Output Name

Output Sets

Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (ISD-CLFT-NHSN1:8081) | NHSN Home | My Info | Contact us | Help | Log Out

Logged into DHQP MEMORIAL HOSPITAL (ID 10018) as MAGGIE.
Facility DHQP MEMORIAL HOSPITAL (ID 10018) is following the PS component.

Available Output Options

Select	Output Name	Analysis Data Set	Date Created
<input type="checkbox"/>	Bar Chart - % Deaths by Access Type	DE_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - % Deaths by Event Type	DE_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - % Hospitalized by Access Type	DE_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - % Hospitalized by Event Type	DE_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All CAU Events	CAU_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All CLAB Events	CLAB_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All CLIP Events	CLIP_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All Device-Associated Events	DA_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All Events	Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All Flu Vacc Events	PSVacc_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All PPP Events	PPP_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All Procedure-Associated Events	PA_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All Procedures	Procedures	03/13/2012
<input type="checkbox"/>	Bar Chart - All SSI Events	SSI_Events	03/13/2012
<input type="checkbox"/>	Bar Chart - All VAP Events	VAP_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All ACINE HAI	MDRO_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All ACINE LabID Events	LabID_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CDIF HAI	MDRO_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CDIF LabID Events	LabID_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CEPHRKLEB HAI	MDRO_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CEPHRKLEB LabID Events	LabID_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CREECOLI HAI	MDRO_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CREECOLI LabID Events	LabID_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CREKLEB HAI	MDRO_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All CREKLEB LabID Events	LabID_Events	03/13/2012
<input type="checkbox"/>	Bar Chart for All LabID Events	LabID_Events	03/13/2012

- ❑ The list of Available Output Options will appear.
- ❑ This list includes every CDC-defined and custom output option.
- ❑ The list can be sorted by clicking on any column title.

Output Sets

- For our example, the following output options were selected by checking the boxes in the first column:
 - SIR – Complex 30-Day SSI Data for CMS IPPS
 - SIR – CLAB Data for CMS IPPS
 - SIR – CAUTI Data for CMS IPPS
- Once all options have been selected, click “Submit” at the bottom of the screen.

Available Output Options

Select	Output Name 	Analysis Data Set	Date Created
<input type="checkbox"/>	User-Defined Rate Table - SCA	UserRatesSCA	03/13/2018
<input type="checkbox"/>	User-Defined Rate Table - NICU	UserRatesNICU	03/13/2018
<input type="checkbox"/>	User-Defined Rate Table - ICU-Other	UserRatesICU	03/13/2018
<input type="checkbox"/>	User-Defined Rate Table - All Events	Events	03/13/2018
<input type="checkbox"/>	SIR - In-plan Complex AR SSI data by Surgeon	SIR_ComplexSSISurg	03/13/2018
<input type="checkbox"/>	SIR - In-plan Complex AR SSI data by Procedure	SIR_ComplexSSIProc	03/13/2018
<input type="checkbox"/>	SIR - In-Plan CLAB Data	CLAB_RatesICU	03/13/2018
<input type="checkbox"/>	SIR - In-Plan CAU Data	CAU_RatesICU_SCA	03/13/2018
<input type="checkbox"/>	SIR - In-plan All SSI data by Surgeon	SIR_AllSSISurg	03/13/2018
<input type="checkbox"/>	SIR - In-plan All SSI Data by Procedure	SIR_AllSSIProc	03/13/2018
<input type="checkbox"/>	SIR - Complex AR SSI Data by Surgeon	SIR_ComplexSSISurg	03/13/2018
<input type="checkbox"/>	SIR - Complex AR SSI Data by Procedure	SIR_ComplexSSIProc	03/13/2018
<input checked="" type="checkbox"/>	SIR - Complex 30-Day SSI Data for CMS IPPS	SIR_Complex30dSSIProc	03/13/2018
<input checked="" type="checkbox"/>	SIR - CLAB Data for CMS IPPS	CLAB_RatesICU	03/13/2018
<input checked="" type="checkbox"/>	SIR - CAUTI Data for CMS IPPS	CAU_RatesICU_SCA	03/13/2018
<input type="checkbox"/>	SIR - All SSI Data by Surgeon	SIR_AllSSISurg	03/13/2018
<input type="checkbox"/>	SIR - All SSI Data by Procedure	SIR_AllSSIProc	03/13/2018
<input type="checkbox"/>	SIR - All CLAB Data	CLAB_RatesICU	03/13/2018
<input type="checkbox"/>	Bar Chart - % Hospitalized by Event Type	DE_Events	03/13/2018
<input type="checkbox"/>	Bar Chart - % Hospitalized by Access Type	DE_Events	03/13/2018
<input type="checkbox"/>	Bar Chart - % Deaths by Event Type	DE_Events	03/13/2018
<input type="checkbox"/>	Bar Chart - % Deaths by Access Type	DE_Events	03/13/2018

Output Sets

- ❑ **Once the desired output options have been selected, you will be brought back to the Output Set screen.**
- ❑ **On this screen, you can:**
 - Change the order that these data will appear by clicking the Up and Down buttons
 - Further modify the output options by clicking Modify
 - Remove an output option from the set by clicking Delete
- ❑ **After making any changes, click Save.**

Output Set

Mandatory fields marked with *

Output Set Name*:

Output Set Title:

Output Options*

Output Name

SIR - Complex 30-Day SSI Data for CMS IPPS	<input type="button" value="Up"/>	<input type="button" value="Down"/>	<input type="button" value="Modify"/>	<input type="button" value="Delete"/>
SIR - CLAB Data for CMS IPPS	<input type="button" value="Up"/>	<input type="button" value="Down"/>	<input type="button" value="Modify"/>	<input type="button" value="Delete"/>
SIR - CAUTI Data for CMS IPPS	<input type="button" value="Up"/>	<input type="button" value="Down"/>	<input type="button" value="Modify"/>	<input type="button" value="Delete"/>

Output Sets

Output Set

Analysis Set saved successfully. ←

Mandatory fields marked with *

Output Set Name*: SIRs for CMS IPPS Reporting

Output Set Title: SIRs for CMS IPPS Reporting

Output Options*

Add Output Options

Output Name

SIR - Complex 30-Day SSI Data for CMS IPPS	Up	Down	Modify	Delete
SIR - CLAB Data for CMS IPPS	Up	Down	Modify	Delete
SIR - CAUTI Data for CMS IPPS	Up	Down	Modify	Delete

Save

Save As

Delete

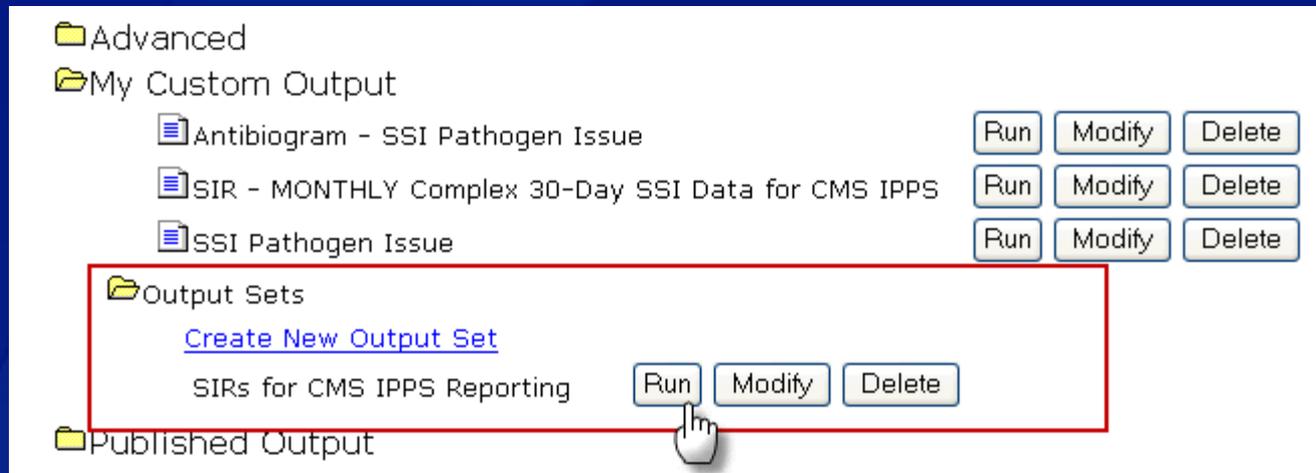
Run

Publish

Back

- ❑ After saving the Output Set, you should receive a message at the top of the screen indicating that the save was successful.
- ❑ Notice that you can make additional changes and even Publish this output set for other users at your facility.

Output Sets



- ❑ **Once saved, your output set will be available within the My Custom Output folder, under Output Sets.**
- ❑ **By clicking “Run”, all output options within that set will appear in the same results window.**

STATISTICS CALCULATOR

Statistics Calculator

- ❑ **The statistics calculator allows you to perform statistical tests to determine whether there is a statistically significant difference between two measures.**
- ❑ **The statistics calculator can be accessed from the left navigation bar by selecting Analysis>Statistics Calculator.**
- ❑ **There are four options in the statistics calculator, each described on the following slides.**

Statistics Calculator Compare Two Proportions

- ❑ Select this option when comparing proportions such as SSI rates and device utilization ratios.**
- ❑ For example, suppose you wish to compare the January urinary catheter device utilization ratio in the orthopedic ward to the February ratio in the same location.**

Statistics Calculator

Compare Two Proportions

- ❑ In January, you find that there were 300 catheter days and 500 patient days, giving a device utilization ratio of 0.60.**
- ❑ In February, you find that there were 250 catheter days and 550 patient days, giving a device utilization ratio of 0.45.**

Statistics Calculator

Compare Two Proportions

Compare Two Proportions

When comparing two proportions (e.g. SSI Rates, Device Utilization ratios etc.), the hypothesis is that the rates are not different from each other. To perform a statistical test and calculate a p-value, enter the number of events as the numerator and the number of trials as the denominator (e.g. procedures, patient days) for two data sources. Press calculate.

	Data Source #1	Data Source #2
Group Labels:	<input type="text" value="January"/>	<input type="text" value="February"/>
Numerator (Number of Events):	<input type="text" value="300"/>	<input type="text" value="250"/>
Denominator (Number of Trials):	<input type="text" value="500"/>	<input type="text" value="550"/>
Title:	<input type="text" value="Urinary Catheter Utilization Ratio Comparison"/>	

- ❑ The data are entered into the calculator, along with labels for each data source and a title.
- ❑ Once data are entered, click 'Calculate'

Statistics Calculator

Compare Two Proportions

- The statistics calculator will calculate the proportions and a proportion p-value. If this p-value is less than 0.05 (a convenient cut point), then there is a significant difference (higher or lower) between the two proportions.

National Healthcare Safety Network Urinary Catheter Utilization Ratio Comparison

As of: May 18, 2012 at 11:43 AM

	January	February
Numerator	300	250
Denominator	500	550
Proportion	60.000%	45.455%
Proportion p-value	0	

Statistics Calculator

Compare Single SIR to 1

- ❑ **This option will allow you to compare a standardized infection ratio (SIR) to 1.**
- ❑ **The SIR is calculated as the number of infections observed divided by the number of infections expected.**
- ❑ **Comparing this ratio to 1 will allow you to see whether the number of infections observed is statistically significantly different from the number of infections expected.**

Statistics Calculator Compare Single SIR to 1

- This option is recommended for those SIRs that are calculated using aggregate data from a source other than NHSN (e.g., state aggregate) or for those SIRs calculated external to the NHSN application.**
- For example, you would like to test whether the number of ventilator-associated pneumonias (VAPs) in your MICU for the 4th quarter of 2011 is different from what would be expected based on the NHSN aggregate data.**

Statistics Calculator

Compare Single SIR to 1

Compare Single SIR to 1

When comparing a standardized infection ratio, the hypothesis is that the SIR is not different from one. To perform a hypothesis test and calculate a p-value, enter the number of observed events and the number of expected events. The SIR will be displayed automatically. Press calculate.

Data Source #1

Group Labels:

Number observed:

Number expected:

Standardized Infection Ratio:

Title:

Calculate

Back

- ❑ The data are entered into the calculator, along with a label for the data source.
- ❑ Once data are entered, click 'Calculate'

Statistics Calculator Compare Single SIR to 1

- The statistics calculator will calculate the SIR and its p-value; if the p-value is less than 0.05, then the SIR is significantly different from 1 (and the number of observed infections is significantly different from the number expected). In this case, the SIR p-value is 0.3246, and the SIR is not statistically different from 1.

National Healthcare Safety Network VAP SIR in MICU, Q4 2011

As of: May 21, 2012 at 2:00 PM

Q4 2011 Number Observed	Q4 2011 Number Expected	SIR	SIR p-value	SIR95CI
4	2.874	1.392	0.3246	0.379, 3.564

Statistics Calculator Compare Single SIR to 1

- The output also includes a 95% confidence interval (SIR95CI). This gives the range of values for the SIR. If the confidence interval includes the value of 1 (as it does in our example), then SIR is not significantly different from 1.

National Healthcare Safety Network VAP SIR in MICU, Q4 2011

As of: May 21, 2012 at 2:00 PM

Q4 2011 Number Observed	Q4 2011 Number Expected	SIR	SIR p-value	SIR95CI
4	2.874	1.392	0.3246	0.379, 3.564

Statistics Calculator

Compare Two Standardized Infection Ratios

- ❑ **This option will allow you to compare two SIRs to each other.**
- ❑ **You must first run SIR tables from NHSN Analysis and take note of the numerator (# of observed infections) and the denominator (# of expected infections) for both SIRs.**

Statistics Calculator

Compare Two Standardized Infection Ratios

- ❑ **For example, you are interested to know whether your surgical site infection (SSI) SIR in 2011 is significantly different from the SSI SIR in 2010.**
 - In 2010, your facility observed 3 SSIs. Based on NHSN aggregate data, the number expected was 5.523.
 - In 2011, your facility observed 4 SSIs, and 4.407 infections were expected.

Statistics Calculator

Compare Two Standardized Infection Ratios

Compare Two Standardized Infection Ratios

When comparing two standardized infection ratios, the hypothesis is that the two ratios are not different from each other. To perform a hypothesis test and calculate a p-value, enter the number of observed events and the number of expected events. The standardized infection ratio (SIR) for each data source will be displayed automatically. Press calculate.

	Data Source #1	Data Source #2
Group Labels:	2010	2011
Number observed:	3	4
Number expected:	5.523	4.407
Standardized Infection Ratio:	0.543	0.908

Title: Annual SIR Comparison, 2010-2011

Calculate

Back

- ❑ The data are entered into the calculator, along with labels for each data source and a title.
- ❑ The SIR will be calculated for you on this screen.
- ❑ Once data are entered, click 'Calculate'.

Statistics Calculator

Compare Two Standardized Infection Ratios

- ❑ The output will include several statistics, however, the recommended statistic is the two-tailed p-value.
- ❑ In this example, the two-tailed p-value is greater than 0.05, and thus the two SIRs are not significantly different from each other.

National Healthcare Safety Network Annual SIR Comparison 2010-2011

As of: May 21, 2012 at 2:08 PM

	2010	2011
Observed	3	4
Expected	5.523	4.407
SIR	0.543	0.908

Number of trials: 7

Number of successes: 4

Observed percent (%): 57.143

Expected percent (%): 44.381

Probability of success: 0.4438

One-tailed p-value: 0.3786

Two-tailed p-value: 0.7072 (Recommended)

95% Conf. Interval: 1, 6

Statistics Calculator

Compare Two Incidence Density Rates

- ❑ **Using this option will allow you to compare two incidence density rates (e.g., CLABSI or CAUTI rates) from different time periods or groups.**
- ❑ **The following example will compare CLABSI rates from two surgical ICUs.**
 - 2nd Floor SICU: 2 CLABSIs and 1054 central line days
 - 3rd Floor SICU: 1 CLABSI and 1036 central line days

Statistics Calculator

Compare Two Incidence Density Rates

Compare Two Incidence Density Rates

When comparing two incidence density rates, for example, two central line-associated bloodstream infection rates, the hypothesis is that the rates are not different from each other. To perform a statistical test and calculate a p-value, enter the number of events as the numerator and the number of person-time units as the denominator for each rate. Press calculate.

	Data Source #1	Data Source #2
Group Labels:	<input type="text" value="SICU 2nd Floor"/>	<input type="text" value="SICU 3rd Floor"/>
Numerator(Number of events):	<input type="text" value="2"/>	<input type="text" value="1"/>
Denominator(Number of person-time units):	<input type="text" value="1054"/>	<input type="text" value="1036"/>

Title:

- ❑ The data are entered into the calculator, along with labels for each data source and a title.
- ❑ Once data are entered, click 'Calculate'

Statistics Calculator

Compare Two Incidence Density Rates

- ❑ The output will include incidence density rates; in this example, this is the CLABSI rate for each SICU in the comparison.
- ❑ The IDR p-value is a comparison of the two rates; if the p-value is less than 0.05, then the two rates are significantly different from each other. In this case, the 2 SICU CLABSI rates are not significantly different from each other.

National Healthcare Safety Network
CLABSI Rates from 2nd and 3rd Floor SICUs
As of: May 21, 2012 at 2:13 PM

	SICU 2nd Floor	SICU 3rd Floor
Numerator	2	1
Denominator	1054	1036
Incidence Density Rate	1.898	0.965
IDR p-value	0.2706	

Summary

- ❑ **Advanced output options allow for more in-depth analysis of your NHSN data**
- ❑ **Customized output templates can be published for use by other NHSN users at your facility**
- ❑ **Output sets allow you to run multiple output options at the same time**
- ❑ **The statistics calculator can be used to make comparisons not already made for you within the NHSN analysis tool.**

Additional Resources

- ❑ **Introduction to NHSN Analysis in the Patient Safety Component:**
<http://www.cdc.gov/nhsn/PDFs/training/intro-AnalysisBasics-PSC.pdf>
- ❑ **Details for CMS reporting and CMS-related reports within NHSN:**
<http://www.cdc.gov/nhsn/library.html#cms>
- ❑ **NHSN Annual Reports:**
<http://www.cdc.gov/nhsn/dataStat.html>

**Questions?
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