Department of Health

Biospatial – EMS Performance Measures (Florida Specific Measures) Version2.0

Biospatial – EMS Performance

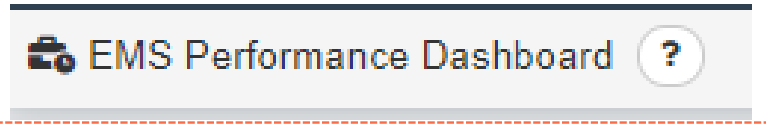
Florida Specific Measures

The EMS Performance Dashboard provides a myriad performance measures. This guide focuses on the Florida EMS Performance measures created by the Emergency Medical Services Advisory Council – Medical Care Committee. These measures are provided as “tools” for EMS agencies. These measures provides uniform definitions. Agencies are always free to run data as they see fit for their operation.

Additionally, this guide will demonstrate the ability to compare the agency performance against all EMS agencies (as a collective) in Florida, and other participating states should they desire. No agency can compare an agency’s performance against another agency.

Some measures have a “Time” performance component, such as On-Scene of less than 20 minutes. These are just suggested time frames to be uniform. Some measures use AHA-GWTG and Trauma times.

Tip: Once the setup is complete, save the Dashboard titled Florida EMS Performance Measure for future use.
Tip: Each Performance Measure has a definition, Click Circled ? , located top Left for detailed definitions.



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Florida Specific Measures

This guide will review how to set up the EMS Performance Measures – Florida Specific.

- Set up Filter/Search Toolbar (Left side)
- Set up Widgets
  - Performance by Measure 1
  - Performance by Measure 2
  - Performance by Time
  - Performance Records Table
  - Data Explorer
  - Performance Tables

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To set up the EMS Performance Dashboard for Florida Measures follow this guide. While there are many options, the recommendation is to set up this as your base.

Setup Filter/Search Tab (Left)
Set Agency: (Select your agency) (uncheck “group agencies”)
Set Date Range: *YTD (user defined)*
Syndromes: *Blank (All)*
Benchmarks to Display: Florida (Later you can explorer comparing against other states)
Remainder of filters/search criteria: Leave Blank

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2023-2028 EMS State Plan Measures

Select the 13 Measures located in the pulldown, found in the Community Provided section of the list.

Click Link to run the Florida 2023=2028 State Plan Measure on your system.
https://app.biospatial.io/link/0676697c-714c-44ea-9aab-153aeb7e97d3

Aspirin Administration for STEMI
Bystander CPR for Non-traumatic arrest
ROSC on ED Arrival for Non-traumatic arrest
SEPSIS Pre-arrival alerts
EtCO2 Documented for SEPSIS Alerts
SpO2 documentation for intubated patients
EtCO2 documented for advanced airway placement
Resuscitation before intubation
12 Lead in < 10 minutes of EMS Contact
STEMI Scene Time < 15 minutes
Stroke Alert Scene Time < 15 minutes
Trauma Alert Scene Time < 10 minutes
Trauma Alert Total Time < 60 minutes (Ground only)

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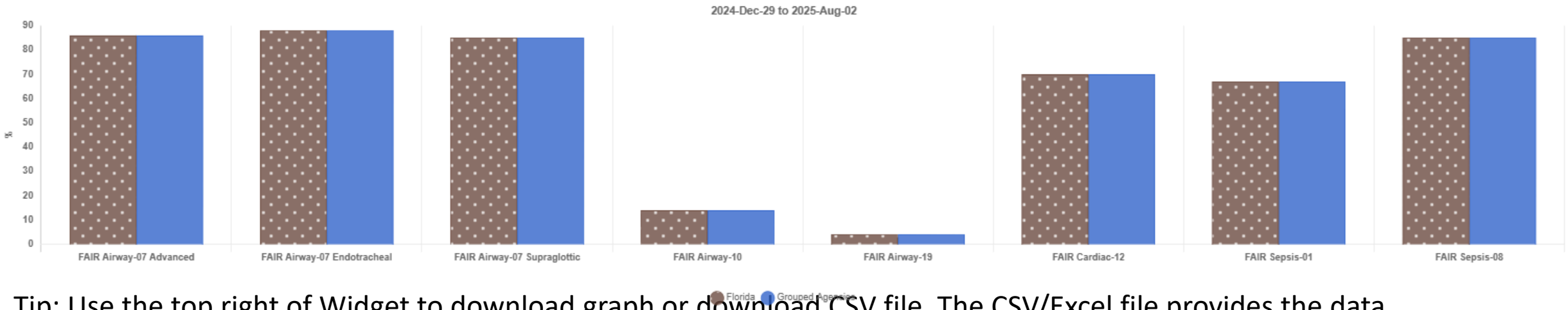
2023-2028 EMS State Plan Measures

Performance by Measures 1

Below is the expected output. The hash vertical bar represents Florida (or any other state you add), the solid color bar is the agency. (This example compares all of Florida to all of Florida, so the output is same)



Tip: Use the top right of Widget to download graph or download CSV file. The CSV/Excel file provides the data.

Click Link to run the Florida 2023=2028 State Plan Measure on your system.
https://app.biospatial.io/link/0676697c-714c-44ea-9aab-153aeb7e97d3

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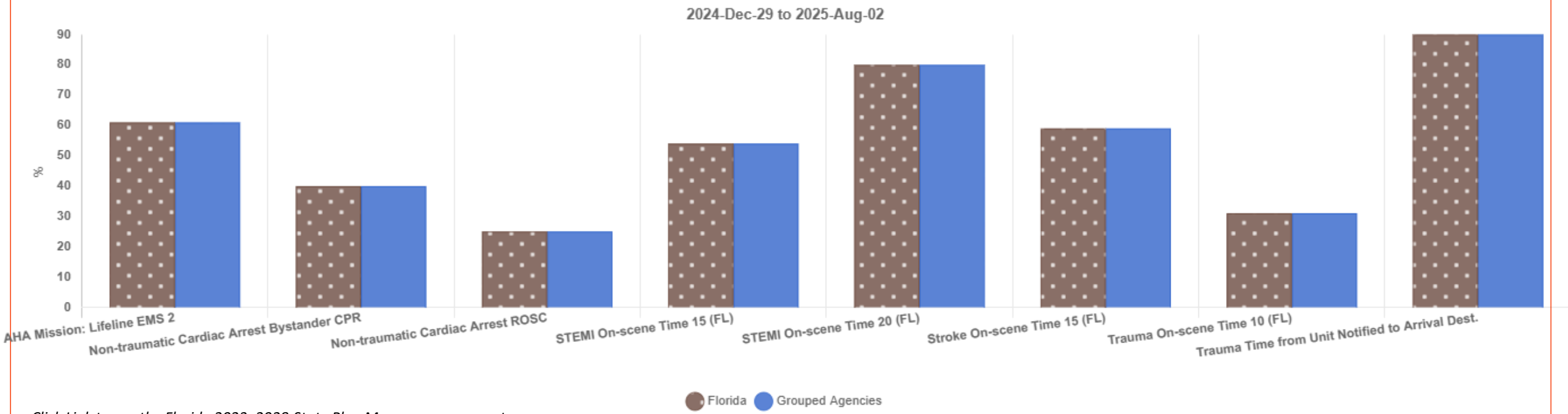
Performance by Measures 2

Performance Measure 2 widget, is a duplicate of Performance Measure 1 widget. This allows the users to have additional performance measure that otherwise do not fit. Below is the suggested base set up as an example.



Click Link to run the Florida 2023=2028 State Plan Measure on your system.
https://app.biospatial.io/link/0676697c-714c-44ea-9aab-153aeb7e97d3

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Performance by Time

This widget displays a timeline (based on user selected time frame). The timeline widget is loaded with the same list of measures available on the prior to widgets.

This example will use measures related to cardiac arrest.

Select the following:

- Non-Traumatic Cardiac Arrest Bystander CPR
- Non-Traumatic Cardiac Arrest ROSC
- ROSC Survival to Discharge

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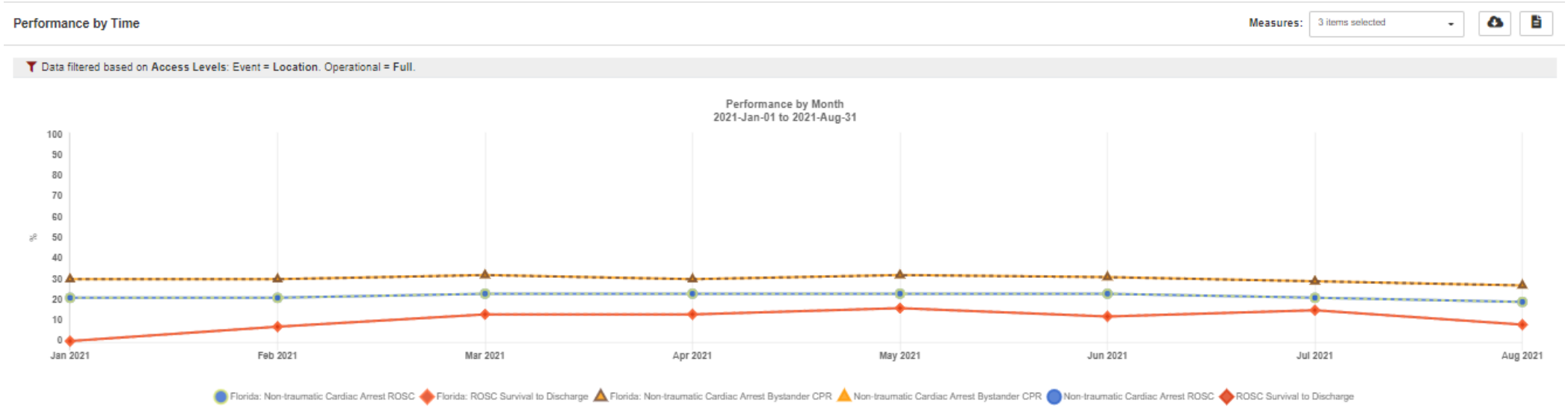
Performance by Measures 2

Below is the expected output. The dotted lines represent Florida, the solid color line is the agency.
(This example compares all of Florida to all of Florida, so the output is same)

Caution: For the any of the “Outcome” measures, remember not all records have an HIE match. Additionally, not all hospitals enter ICD-10 codes. See HIE Guide to determine current HIE percentage of matched records to HIE.



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Performance Records Table, Data Explorer

These widgets are covered in other guides. The Performance Records Table lists the events used in the data previously defined in slide 4. Data Explorer example below will be set up in this guide for Cardiac Arrest Etiology.

Performance Records Table

Select Measure from Pulldown

ROSC Outcome 1

Recommended Column Visibility

Date

Syndrome

Primary Impression

Hospital DX Codes

Hospital Flag

Hospital Outcome

Data Explorer

Recommended Set up

Chart Type: Vertical Bar

Measure: Count

Dimension: Cardiac Arrest Etiology

Group Bye: None

Advanced Tip: From the filter/search toolbar, select “Linked Hospital Data Available: True. This only brings Hospital outcomes for ROSC Pt’s.

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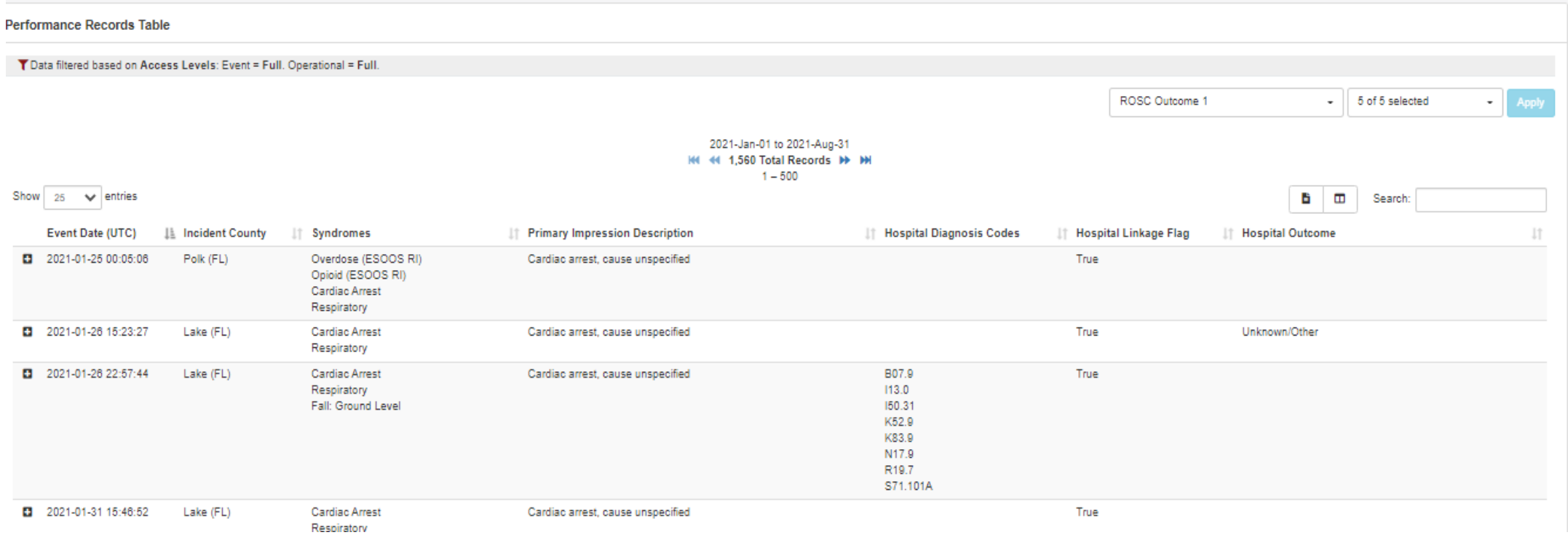
Performance Records Table

Below is the expected output based on the settings suggested on previous slide. Here the “Advanced tip was used to display Hospital Outcome for those where an HIE record was matched.



Performance Records Table

Data filtered based on **Access Levels**: Event = **Full**. Operational = **Full**.

ROSC Outcome 1 | 5 of 5 selected | Apply

2021-Jan-01 to 2021-Aug-31

1,560 Total Records

1 – 500

Show 25 entries | Search:

Event Date (UTC)	Incident County	Syndromes	Primary Impression Description	Hospital Diagnosis Codes	Hospital Linkage Flag	Hospital Outcome
2021-01-25 00:05:06	Polk (FL)	Overdose (ESOOS RI) Opioid (ESOOS RI) Cardiac Arrest Respiratory	Cardiac arrest, cause unspecified		True	
2021-01-26 15:23:27	Lake (FL)	Cardiac Arrest Respiratory	Cardiac arrest, cause unspecified		True	Unknown/Other
2021-01-26 22:57:44	Lake (FL)	Cardiac Arrest Respiratory Fall: Ground Level	Cardiac arrest, cause unspecified	B07.9 I13.0 I50.31 K52.9 K83.9 N17.9 R19.7 S71.101A	True	
2021-01-31 15:46:52	Lake (FL)	Cardiac Arrest Respiratory	Cardiac arrest, cause unspecified		True	

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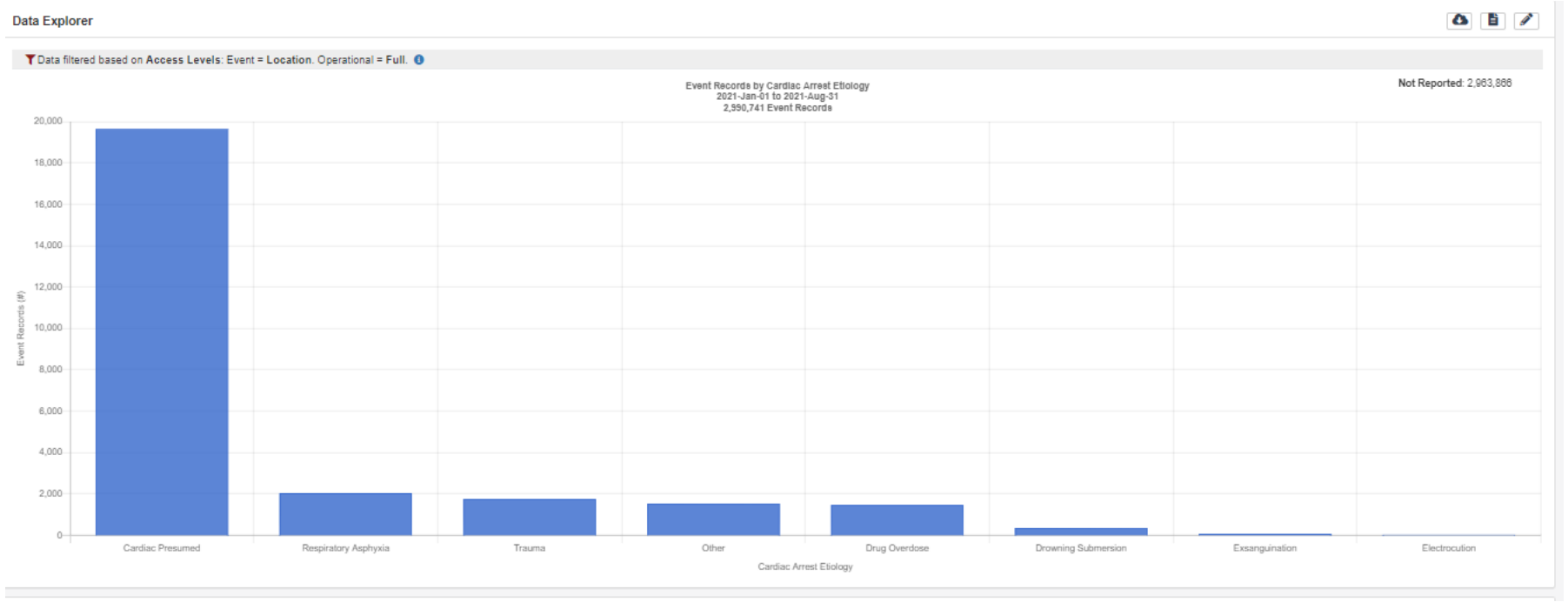
Data Explorer

Below is the expected output. The Cardiac Arrest Etiology follows the UtStein framework for OHCA. User are free to explore.



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Performance Tables

This widget provides the same data set up in the Performance Measure 1 widget, however the view is in text/table format. Data from this widget can be exported to CSV or Excel.

Performance Table
Recommended Column Visibility
Agency
Measure
Numerator
Denominator
Percent True

TIP: It is a good QA process to view the Numerator/Denomiator Unknow, to determine what may be missing from the ePCR that caused the unknown.

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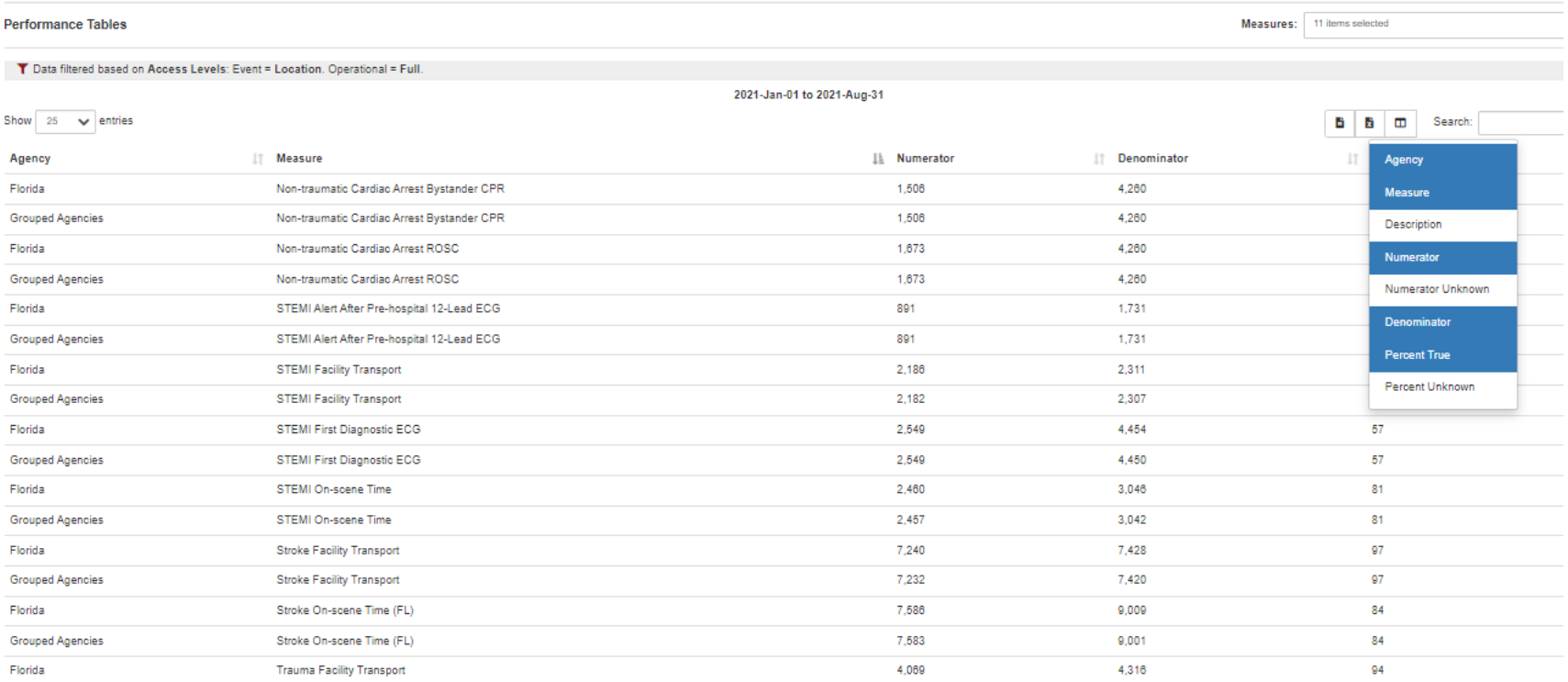
Performance Tables

Below is the expected output.



Performance Tables

Measures: 11 items selected

Data filtered based on Access Levels: Event = Location. Operational = Full.

2021-Jan-01 to 2021-Aug-31

Show 25 entries

Search:

Agency	Measure	Numerator	Denominator	
Florida	Non-traumatic Cardiac Arrest Bystander CPR	1,506	4,260	
Grouped Agencies	Non-traumatic Cardiac Arrest Bystander CPR	1,506	4,260	
Florida	Non-traumatic Cardiac Arrest ROSC	1,673	4,260	
Grouped Agencies	Non-traumatic Cardiac Arrest ROSC	1,673	4,260	
Florida	STEMI Alert After Pre-hospital 12-Lead ECG	891	1,731	
Grouped Agencies	STEMI Alert After Pre-hospital 12-Lead ECG	891	1,731	
Florida	STEMI Facility Transport	2,186	2,311	
Grouped Agencies	STEMI Facility Transport	2,182	2,307	
Florida	STEMI First Diagnostic ECG	2,549	4,454	57
Grouped Agencies	STEMI First Diagnostic ECG	2,549	4,450	57
Florida	STEMI On-scene Time	2,460	3,046	81
Grouped Agencies	STEMI On-scene Time	2,457	3,042	81
Florida	Stroke Facility Transport	7,240	7,428	97
Grouped Agencies	Stroke Facility Transport	7,232	7,420	97
Florida	Stroke On-scene Time (FL)	7,586	9,009	84
Grouped Agencies	Stroke On-scene Time (FL)	7,583	9,001	84
Florida	Trauma Facility Transport	4,069	4,316	94

Agency
Measure
Description
Numerator
Numerator Unknown
Denominator
Percent True
Percent Unknown