

Measure Factory Student Guide

Hospital Operations 2.0.2

Measure Factory Student Guide

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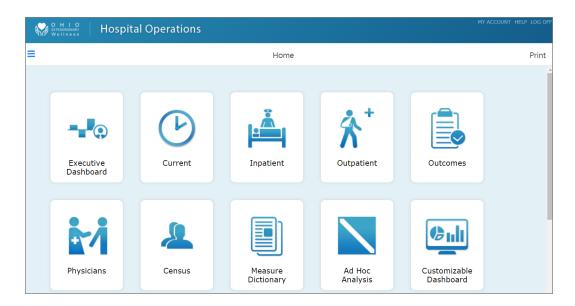
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Measure Factory About This Guide

About This Guide

Your organization's Application license provides a standard set of dashboards, which are available through DivePort. This guide explains how to work with the dashboards that are included with the Hospital Operations license.

NOTE: Your Dimensional Insight consultant and DivePort administrators within your organization can modify these dashboards to better suit your needs, so keep in mind that your view might differ from what is shown here.



Measure Factory

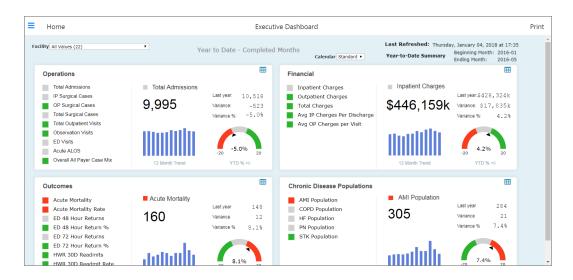
The Hospital Operations Dashboards

The following dashboards are included with your organization's license for Hospital Operations:

Executive Dashboard

Use the **Executive Dashboard** to view current and trended data about business operations, financial charges, outcomes, and chronic disease populations.

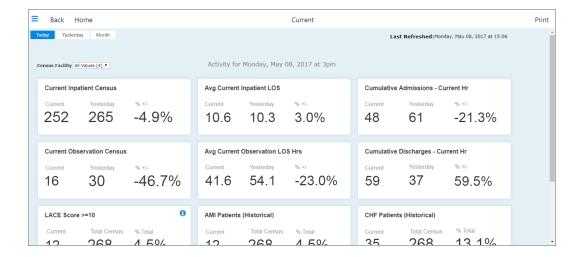
For more information, see Executive Dashboard on page 7.



Current

Use the **Current** page to view data about current and past patient volumes, and identify patients who are at risk for readmission.

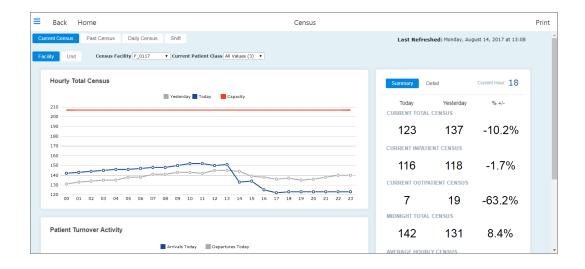
For more information, see Current on page 11.



Census

Use the **Census** page to view hourly and daily census data for a facility or nursing unit, and compare census data over time.

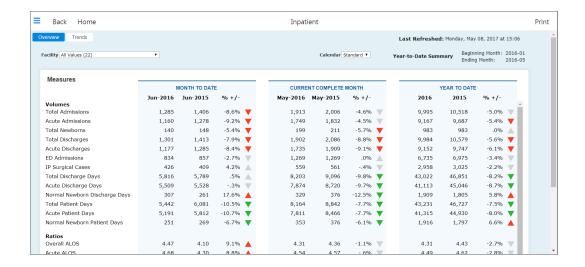
For more information, see Census on page 19.



Inpatient

Use the **Inpatient** page to view current and trended data about inpatient volumes and key indicators.

For more information, see <u>Inpatient on page 35</u>.



Outpatient

Use the **Outpatient** page to view current and trended data about outpatient volumes and key indicators.

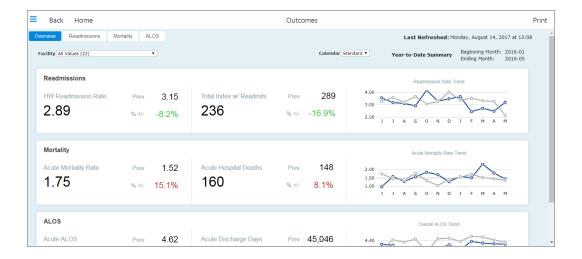
For more information, see Outpatient on page 41.



Outcomes

Use the **Outcomes** page to view data about patient outcomes related to readmissions, mortality, and average length of stay for hospital-wide, condition-specific, and procedure-specific populations.

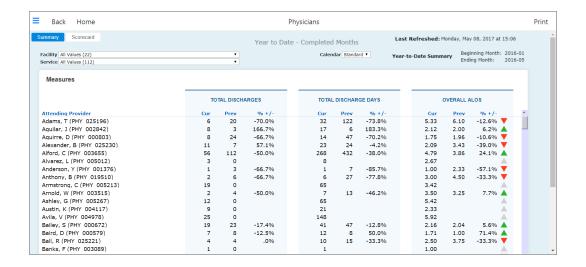
For more information, see Outcomes on page 47.



Physicians

Use the **Physicians** page to view current and trended data about attending provider volume and patient outcomes.

For more information, see Physicians on page 61.



Executive Dashboard



Go to the dashboard and adjust your view

- 1. On the home page, click **Executive Dashboard**.
- 2. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 3. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 4. In the **Calendar** pull-down menu, choose one of the following:
 - **Standard**, if you want to view data beginning with January of the current year
 - **Fiscal**, if you want to view data beginning with the first month in your organization's fiscal calendar

On the right, the **Year-to-Date Summary** updates based on your selection.

Review the data

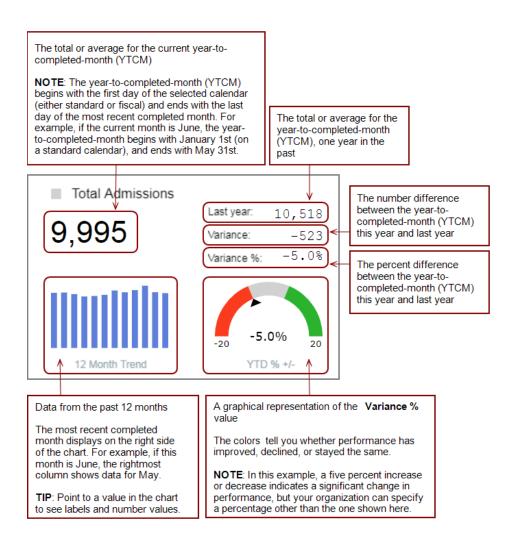
1. Each section of the page includes a list of measures on the left. Click a measure to view its data on the right.

The label above the data tells you which measure is selected.

TIP: The color to the left of the measure indicates whether performance has improved, declined, or stayed the same.



2. On the right, note the values:



Analyze the data

Choose the data that you want to analyze:

Data from a selected month, compared to the same month last year

- 1. Click the measure with the data you want to analyze.
 - The measure's data displays on the right.
- 2. On the bar chart, click the month with the data you want to analyze.
 - **TIP**: Point to a value in the chart to see labels and number values.
 - The **Default Analysis** page opens.
- 3. Note the date range:
 - The **Current** column shows data from the selected month.
 - The **Previous** column shows data from the same month, one year in the past.
- 4. Dive on the data. For more information, see Diving on Data on page 67.
 - **TIP**: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from the current year-to-completed-month (YTCM), compared to the same time-period last year

NOTE: The year-to-completed-month (YTCM) begins with the first day of the selected calendar (either standard or fiscal) and ends with the last day of the most recent completed month. For example, if the current month is June, the year-to-completed-month begins with January 1st (on a standard calendar), and ends with May 31st.

- 1. Click the measure with the data you want to analyze.
 - The measure's data displays on the right.
- 2. Below the measure name, click the value for the current year-to-completed-month (YTCM).
 - The **Default Analysis** page opens.
- 3. Dive on the data. For more information, see Diving on Data on page 67.
 - **TIP**: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

- 1. Click the measure with the data you want to analyze.
 - The measure's data displays on the right.

Executive Dashboard Measure Factory

To the upper right of the measure name, click the **Analysis** icon ■.
 The **Measure Overview** page opens.

- 3. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

- 1. Click the measure whose definition you want to view.
- To the upper right of the measure name, click the **Analysis** icon **■**.
 The **Measure Overview** page opens.
- 3. On the left, review the measure's definition and other details.

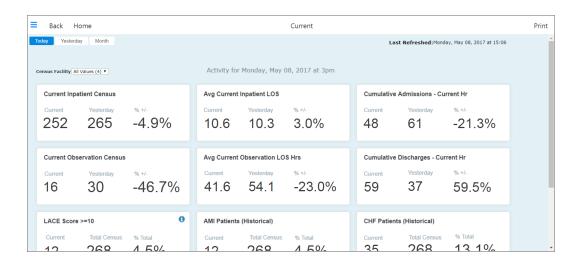
 For more information, see Viewing Measure Details on page 71.

Measure Factory Current

Current

On the **Current** page, you can choose whether to work with data from today, yesterday, or a particular month:

- Current—Working with Today's Data below
- Current—Working with Yesterday's Data on page 13
- Current—Working with Monthly Data on page 16



Current—Working with Today's Data

Go to the dashboard and adjust your view

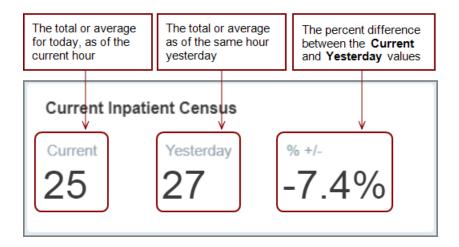
- 1. On the home page, click **Current**.
 - The **Current** page opens with the **Today** tab selected.
- 2. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
 - **TIP**: The data on this page is taken from the current census and is updated every hour.
- 3. In the **Census Facility** pull-down menu, choose whether to view data for all census facilities or one census facility.

Review the data

• In the top two rows, you can review data about census.

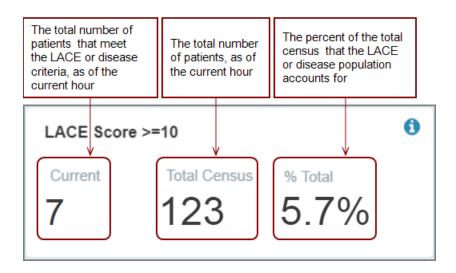
Note the values:

Current Measure Factory



In the bottom two rows, you can review data about patients who have a
high LACE¹ score or who have a history of chronic disease.

Note the values:



TIP: To see criteria for calculating LACE scores, click the **Information** icon **1** in the upper right.

View details about patients

1. Click the value with the patient details that you want to view.

 $^{^{1}\}mbox{A}$ scoring system used to estimate likelihood of readmission

Measure Factory Current

For example, below **Current Inpatient Census**, you might click the **Current** value to view details about the inpatients that were admitted as of the current hour.

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

2. Along the top of the page, you can use the pull-down menus to adjust your view.

Current—Working with Yesterday's Data

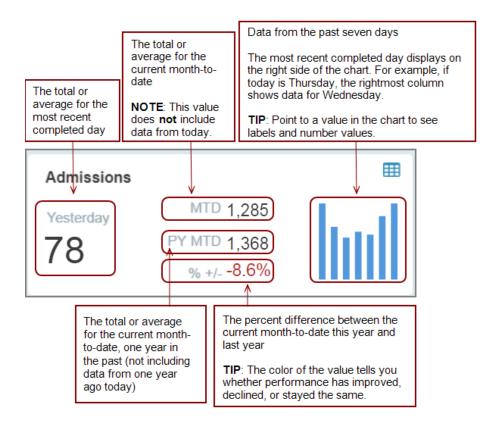
Go to the dashboard and adjust your view

- 1. On the home page, click **Current**.
 - The **Current** page opens.
- 2. In the upper left, click the **Yesterday** tab.
- 3. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 4. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.

Review the data

Note the values:

Current Measure Factory



Analyze the data

Choose the data that you want to analyze:

Yesterday's data, compared to the day before

1. Find the measure that you want to work with, and click the **Yesterday** value.

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Current Complete Day** column shows data from yesterday.
 - The **Previous Complete Day** column shows data from the day before yesterday.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>. **TIP**: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from a selected day this week, compared to the same day last week

1. Find the measure that you want to work with, and—in the chart—click the

Measure Factory Current

value with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Table** page opens.

- 2. Note the date range:
 - The **Current** column shows data from the selected day of the week.
 - The **Previous** column shows data from the same day, one week in the past.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from the current month-to-date, compared to the same timeperiod last year

 Find the measure that you want to work with, and click the MTD or PY MTD values.

NOTE: This value does **not** include data from today.

The **Default Analysis** page opens.

2. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

1. Find the measure that you want to work with, and click the **Analysis** icon

The **Measure Overview** page opens.

- 2. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

1. Find the measure whose definition you want to view, and click the **Analysis** icon **III**.

The **Measure Overview** page opens.

Current Measure Factory

2. On the left, review the measure's definition and other details. For more information, see <u>Viewing Measure Details on page 71</u>.

Current—Working with Monthly Data

Go to the dashboard and adjust your view

1. On the home page, click **Current**.

The **Current** page opens.

- 2. In the upper left, click the **Month** tab.
- 3. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 4. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 5. In the **Year-Month** pull-down menu, select the time-period with the data you want to view.

Review the data

• On the left, the **Date** column shows the dates that fall within the selected time-period.

TIP: To sort a column, click the column header.

• The columns on the right display measure data.

Analyze the data

To analyze measure data for a selected date:

1. In the table, click the value that you want to analyze.

Date	Day of Week	Admissions
Totals	Totals	1,913
2016-05-01	Sun	47
2016-05-02	Mon	63
2016-05-03 <	Tue	6 _名
2016-05-04	Wed	713

The **Default Measure Analysis** page opens.

2. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

Measure Factory Current

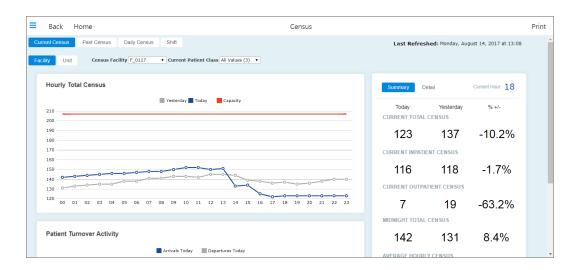
TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Measure Factory

Census

On the **Census** page, you can choose whether to work with current census data, past census data, this week's census data, or census data by shift:

- Census—Working with Current Census Data below
- Census—Working with Past Census Data on page 24
- Census—Working with This Week's Census Data on page 29
- Census—Working with Census Data by Shift on page 32



Census—Working with Current Census Data

Go to the dashboard and adjust your view

1. On the home page, click **Census**.

The **Census** page opens with the **Current Census** tab selected.

2. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.

TIP: The values on this page are updated every hour.

3. On the right, note the **Current Hour**.

This page displays data from the most recent completed hour. For example, if it is 10:01 a.m., the data is from 9:00 a.m. through 10:00 a.m., and the **Current Hour** displays as 9.

4. On the left, select one of the following:

Census Measure Factory

- Facility, if you want to view data for a facility
- Unit, if you want to view data for a nursing unit
- 5. In the **Census Facility** pull-down menu, choose whether to view data for all census facilities or one census facility.
- 6. If you are viewing data for a nursing unit, select a location code in the **Census Location Code** pull-down menu.
- 7. In the **Current Patient Class** pull-down menu, choose whether to view data for all patients, inpatients, or observation patients.

Review the data

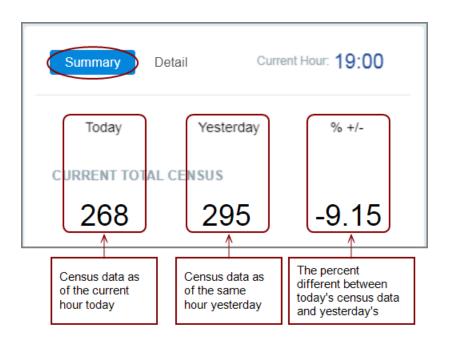
On the left, you can review graphical data about today's census:

- The **Hourly Total Census** chart shows the census for each hour today and yesterday, compared to the facility or unit capacity.
- The **Patient Turnover Activity** chart shows the number of patients that arrived and departed during each hour of today.

On the right, you can review numeric census data:

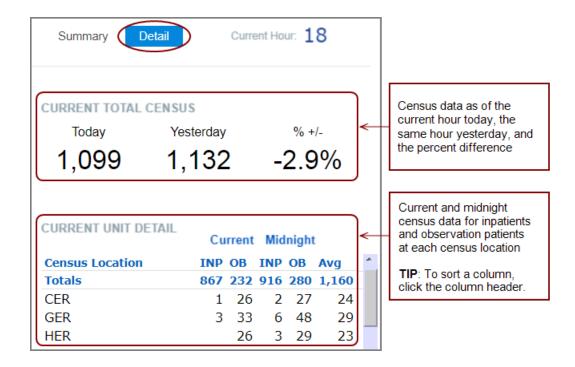
Make sure **Summary** is selected.

Note the values:



• If you are viewing data for a facility, click **Detail**.

Note the values:



View details about patients

Choose the patients whose details you want to view:

Patients that were on the census during a particular hour today or yesterday

- 1. In the **Hourly Total Census** chart, click the hour with the data you want to view, and select one of the following:
 - Patient Detail-Today, if you want to view details about today's patients for the selected hour
 - Patient Detail-Yesterday, if you want to view details about yesterday's patients for the selected hour

The Patient Detail page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

Census Measure Factory

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

2. Along the top of the page, you can use the pull-down menus to adjust your view.

Patients that arrived or departed today, during a particular hour

- 1. In the **Patient Turnover Activity** chart, click the hour with the data you want to view, and select one of the following:
 - Patient Turnover Arrival-Today, if you want to view details about patients that arrived during the selected hour
 - Patient Turnover Departure-Today, if you want to view details about patients that departed during the selected hour

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

2. Along the top of the page, you can use the pull-down menus to adjust your view.

Patients that were on the census as of the current hour today, or the same hour yesterday

- 1. On the right, make sure **Summary** is selected.
- 2. Do one of the following:
 - To view details about patients as of the current hour today, click a value in the **Today** column.
 - To view details about patients as of the same hour yesterday, click a value in the **Yesterday** column.

The **Patient Detail** page opens. Note the following:

 A Y value in the OBS column means that the patient is under observation.

 A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.

The data in the LOS column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

3. Along the top of the page, you can use the pull-down menus to adjust your view.

Inpatients or observation patients that were on the census at a particular location, as of the current hour today or through midnight yesterday

- 1. On the left, make sure **Facility** is selected, and adjust your view as needed.
- 2. On the right, click **Detail**.
- 3. In the **Current Unit Detail** table, do one of the following:
 - To view details about inpatients or observation patients as of the current hour today, click a value in the **Current** column.
 - To view details about inpatients or observation patients through midnight yesterday, click a value in the **Midnight** column.

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

4. Along the top of the page, you can use the pull-down menus to adjust your view.

Census—Working with Past Census Data

Go to the dashboard and adjust your view

1. On the home page, click **Census**.

The **Census** page opens.

Census

- 2. In the upper left, click the **Past Census** tab.
- 3. In the **Census Date** pull-down menu, select the date with the data you want to view.
- 4. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.

TIP: The values on this page are updated every hour.

5. On the right, note the **Current Hour**.

This page displays data from the most recent completed hour, on the selected date. For example, if it is 10:01 a.m., the data is from 9:00 a.m. through 10:00 a.m., and the **Current Hour** displays as 9.

- 6. On the left, select one of the following:
 - Facility, if you want to view data for a facility
 - Unit, if you want to view data for a nursing unit
- 7. In the **Census Facility** pull-down menu, choose whether to view data for all census facilities or one census facility.
- 8. If you are viewing data for a nursing unit, select a location code in the **Census Location Code** pull-down menu.
- 9. In the **Current Patient Class** pull-down menu, choose whether to view data for all patients, inpatients, or observation patients.

Review the data

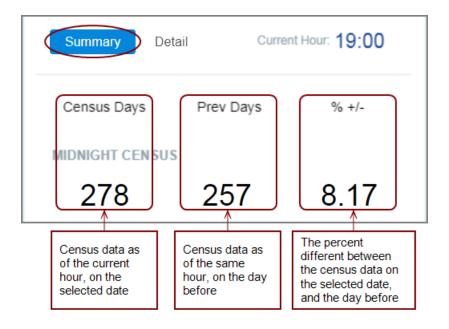
On the left, you can review graphical data about the census on the selected date:

- The **Hourly Total Census** chart shows the hourly census for the selected date and the day before, compared to the facility or unit capacity.
- The **Patient Turnover Activity** chart shows the number of patients that arrived and departed during each hour on the selected date.

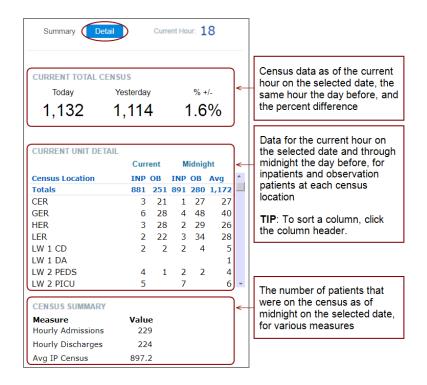
On the right, you can review numeric census data:

• Make sure **Summary** is selected.

Note the values:



If you are viewing data for a facility, click **Detail**.
 Note the values:



Census Measure Factory

View details about patients

NOTE: You can view a patient's information only as it stands today. For example, if today is June 5th and you are viewing data from June 2nd, a patient that was admitted on June 1st has a length of stay (LOS) of 4 days, even though their LOS was only 1 day on the selected date.

Choose the patients whose details you want to view:

Patients that were on the census during a particular hour on the selected date or the day before

- 1. In the **Hourly Total Census** chart, click the hour with the data you want to view, and select one of the following:
 - **Patient Detail-Today**, if you want to view details about patients that were on the census, during the selected date and hour
 - Patient Detail-Yesterday, if you want to view details about patients that were on the census the day before, during the selected hour

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

2. Along the top of the page, you can use the pull-down menus to adjust your view.

Patients that arrived or departed on the selected date, during a particular hour

- 1. In the **Patient Turnover Activity** chart, click the hour with the data you want to view, and select one of the following:
 - Patient Turnover Arrival-Today, if you want to view details about patients that arrived on the selected date and hour
 - Patient Turnover Departure-Today, if you want to view details about patients that departed on the selected date and hour

The **Patient Detail** page opens. Note the following:

 A Y value in the OBS column means that the patient is under observation.

- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the LOS column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

2. Along the top of the page, you can use the pull-down menus to adjust your view.

Patients that were on the census, as of the current hour on the selected date or the same hour the day before

- 1. On the right, make sure **Summary** is selected.
- 2. Do one of the following:
 - To view details about patients as of the current hour on the selected date, click a value in the **Census Days** column.
 - To view details about patients from the same hour the day before, click a value in the **Prev Days** column.

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

3. Along the top of the page, you can use the pull-down menus to adjust your view.

Inpatients or observation patients that were on the census at a particular location, as of the current hour on the selected date or through midnight the day before

Census Measure Factory

1. On the left, make sure **Facility** is selected, and adjust your view as needed.

- 2. On the right, click **Detail**.
- 3. In the **Current Unit Detail** table, do one of the following:
 - To view details about inpatients or observation patients as of the current hour on the selected date, click a value in the **Current** column.
 - To view details about inpatients or observation patients through midnight the day before, click a value in the **Midnight** column.

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the **Readmit** column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

4. Along the top of the page, you can use the pull-down menus to adjust your view.

Patients that were on the census as of midnight on the selected day, for a particular measure

- 1. On the left, make sure **Facility** is selected, and adjust your view as needed.
- 2. On the right, click **Detail**.
- 3. In the **Census Summary** area, click the value with the patient details that you want to view.

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

4. Along the top of the page, you can use the pull-down menus to adjust your view.

Census—Working with This Week's Census Data

Go to the dashboard and adjust your view

- 1. On the home page, click **Census**.
 - The **Census** page opens.
- 2. In the upper left, click the **Daily Census** tab.

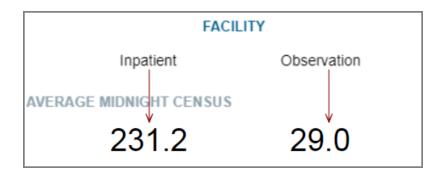
Review the data

To review data for a facility:

- 1. In the **Facility** area, choose whether to view data for all census facilities or one census facility from the **Census Facility** pull-down menu.
- 2. Review the data:
 - The **Daily Census By Facility** chart shows the average, maximum, and minimum census for the past seven days, compared to the capacity for the facility.

TIP: Point to a value in the chart to see labels and number values.

• On the right, you can view number data about the inpatients and observation patients at the facility.



To review data for a nursing unit:

1. In the **Unit** area, choose whether to view data for all census facilities or one census facility from the **Census Facility** pull-down menu.

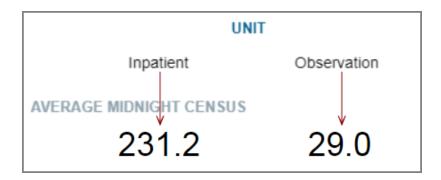
Census Measure Factory

2. In the **Census Location Code** pull-down menu, choose whether to view data for all nursing units or one nursing unit.

- 3. Review the data:
 - The Daily Census By Unit chart shows the average, maximum, and minimum census for the past seven days, compared to the total capacity for the nursing unit.

TIP: Point to a value in the chart to see labels and number values.

• On the right, you can view number data about the inpatients and observation patients that are in the census location.



View details about patients

Choose the patients whose details you want to view:

Inpatients or observation patients from the past seven days, by facility

- 1. On the right of the **Facility** area, do one of the following:
 - To view details about inpatients, click a value in the **Inpatient** column.
 - To view details about observation patients, click a value in the Observation column.

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

- 2. Along the top of the page, make sure that the pull-down menus display the values you expect:
 - **Census Facility**—Select the facility with the data you want to view.
 - Census Location Code—To view data about patients within the entire facility, select All Values.

Inpatients or observation patients from the past seven days, by nursing unit

- 1. On the right of the **Unit** area, do one of the following:
 - To view details about inpatients, click a value in the **Inpatient** column.
 - To view details about observation patients, click a value in the **Observation** column.

The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

- 2. Along the top of the page, make sure that the pull-down menus display the values you expect:
 - Census Facility—Select the facility where the nursing unit is located.
 - **Census Location Code**—Select the census location with the patient data that you want to view.

Census—Working with Census Data by Shift

Go to the dashboard and adjust your view

1. On the home page, click **Census**.

The **Census** page opens.

- 2. In the upper left, click the **Shift** tab.
- 3. On the left, choose one of the following:
 - 8-Hour, if you want to view data across three eight-hour shifts
 - 12-Hour, if you want to view data across two twelve-hour shifts
- 4. In the **Census Facility** pull-down menu, choose whether to view data for all census facilities or one census facility.
- 5. In the **Shift Date** pull-down menu, select the date with the data you want to view.

Review the data

- For each shift, you can view data by census location.
- The **Arrivals** and **Departures** columns are useful for determining the level of activity in each census location, during a particular time of day.

Shift Hours: 7:00	lours: 7:00-15:00 Shift 1				
Census Location	Begin Census	End Census	Avg Census	Arrivals	Departures
Totals	27	29	29.8	5	3
SH 20RTHO	5	5	5.3	0	1
SH 4N	5	4	4.8	0	1
SH 2W	4	5	4.8	1	0
SH 3N PCU	3	4	3.4	0	0

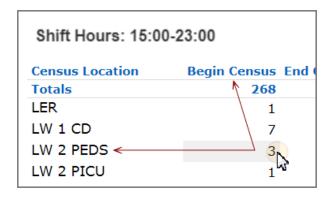
TIP: To sort a column, click the column header.

View details about patients

To view details about patients that were on the census during a particular time of day, within a certain census location:

1. Find the shift with the patient details that you want to view, and click the value that you want to see more information about.

Measure Factory Census



The **Patient Detail** page opens. Note the following:

- A Y value in the OBS column means that the patient is under observation.
- A Y value in the Readmit column means that the patient has been on the census within the past 30 days, either as an inpatient or an observation patient. These patients do not necessarily meet the CMS criteria for readmission.
- The data in the **LOS** column is updated every hour.

TIP: You can identify patients that are at risk for readmission, by sorting the **LACE** column in descending order. To sort a column, click the column header.

2. Along the top of the page, you can use the pull-down menus to adjust your view.

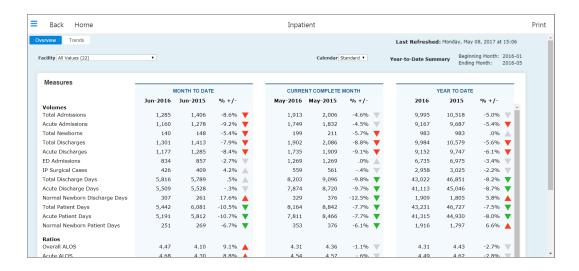
Measure Factory

Measure Factory Inpatient

Inpatient

On the **Inpatient** page, you can choose whether to work with an overview of inpatient data, or inpatient data over a 12-month trend:

- Inpatient—Working with Overview Data below
- Inpatient—Working with Trended Data on page 37



Inpatient—Working with Overview Data

Go to the dashboard and adjust your view

- 1. On the home page, click **Inpatient**.
 - The **Inpatient** page opens with the **Overview** tab selected.
- 2. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 3. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 4. In the **Calendar** pull-down menu, choose one of the following:
 - **Standard**, if you want to view data beginning with January of the current year
 - **Fiscal**, if you want to view data beginning with the first month in your organization's fiscal calendar

Inpatient Measure Factory

On the right, the **Year-to-Date Summary** updates based on your selection.

Review the data

• The **Month to Date** area shows data for the current month-to-date this year, compared to the same time-period last year.

NOTE: This value does **not** include data from today.

- The **Current Complete Month** area shows data for the most recent completed month, compared to the same month last year.
- The **Year to Date** area shows data for the current year-to-completed-month (YTCM), compared to the same time-period last year.

NOTE: The year-to-completed-month (YTCM) begins with the first day of the selected calendar (either standard or fiscal) and ends with the last day of the most recent completed month. For example, if the current month is June, the year-to-completed-month begins with January 1st (on a standard calendar), and ends with May 31st.

TIP: To the right of each time-period comparison, indicators show whether performance has improved, declined, or stayed the same.

Analyze the data

Choose the data that you want to analyze:

Data from the current month-to-date, compared to the same timeperiod last year

1. In the **Month to Date** area, click the value you want to analyze.

NOTE: This value does **not** include data from today.

The **Default Measure Analysis** page opens.

2. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from the most recent completed month, compared to the same month last year

- In the Current Complete Month area, click the value you want to analyze.
 The Default Measure Analysis page opens.
- 2. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Measure Factory Inpatient

Data from the current year-to-completed-month (YTCM), compared to the same time-period last year

NOTE: The year-to-completed-month (YTCM) begins with the first day of the selected calendar (either standard or fiscal) and ends with the last day of the most recent completed month. For example, if the current month is June, the year-to-completed-month begins with January 1st (on a standard calendar), and ends with May 31st.

- 1. In the **Year to Date** area, click the value you want to analyze.
 - The **Default Measure Analysis** page opens.
- 2. Dive on the data. For more information, see Diving on Data on page 67.
 - **TIP**: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

- 1. On the left, click the measure with the data you want to analyze.
 - The **Measure Overview** page opens.
- 2. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

- 1. On the left, click the measure whose definition you want to view.
 - The **Measure Overview** page opens.
- 2. On the left, review the measure's definition and other details.
 - For more information, see Viewing Measure Details on page 71.

Inpatient—Working with Trended Data

Go to the dashboard and adjust your view

- 1. On the home page, click **Inpatient**.
 - The **Inpatient** page opens.
- 2. In the upper left, click the **Trends** tab.
- 3. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.

Inpatient Measure Factory

4. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.

Review the data

Note the values:



Analyze the data

Choose the data that you want to analyze:

Data from a selected month, compared to the same month last year

- 1. In a chart, click the month with the data you want to analyze.
 - The **Default Analysis** page opens.
- 2. Note the date range:
 - The **Current** column shows data from the selected month.
 - The **Previous** column shows data from the same month, one year in the past.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.
 - **TIP**: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Cumulative data from the past 12 months, compared to the same timeperiod last year

- 1. Below a chart, click the value for the current or previous 12 months.
 - **NOTE**: Make sure that the entire row is selected, rather than the column.

Measure Factory Inpatient



The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Current Rolling Year by Month** column shows cumulative data from the past 12 months.
 - The **Previous Rolling Year by Month** column shows cumulative data from the same 12 months, one year in the past.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

1. Locate the measure with the data you want to analyze, and click the **Analysis** icon **■**.

The **Measure Overview** page opens.

- 2. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

1. Locate the measure whose definition you want to view, and click the **Analysis** icon **III**.

The **Measure Overview** page opens.

2. On the left, review the measure's definition and other details.

For more information, see <u>Viewing Measure Details on page 71</u>.

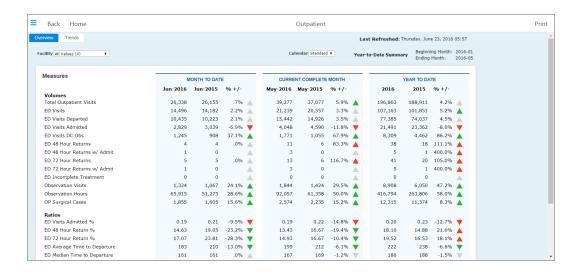
Measure Factory

Measure Factory Outpatient

Outpatient

On the **Outpatient** page, you can choose whether to work with an overview of outpatient data, or outpatient data over a 12-month trend:

- Outpatient—Working with Overview Data below
- Outpatient—Working with Trended Data on page 43



Outpatient—Working with Overview Data

Go to the dashboard and adjust your view

- On the home page, click **Outpatient**.
 The **Outpatient** page opens with the **Overview** tab selected.
- 2. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 3. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 4. In the Calendar pull-down menu, choose one of the following:
 - **Standard**, if you want to view data beginning with January of the current year
 - **Fiscal**, if you want to view data beginning with the first month in your organization's fiscal calendar

Outpatient Measure Factory

On the right, the **Year-to-Date Summary** updates based on your selection.

Review the data

• The **Month to Date** area shows data for the current month-to-date this year, compared to the same time-period last year.

NOTE: This value does **not** include data from today.

- The **Current Complete Month** area shows data for the most recent completed month, compared to the same month last year.
- The **Year to Date** area shows data for the current year-to-completed-month (YTCM), compared to the same time-period last year.

NOTE: The year-to-completed-month (YTCM) begins with the first day of the selected calendar (either standard or fiscal) and ends with the last day of the most recent completed month. For example, if the current month is June, the year-to-completed-month begins with January 1st (on a standard calendar), and ends with May 31st.

TIP: To the right of each time-period comparison, indicators show whether performance has improved, declined, or stayed the same.

Analyze the data

Choose the data that you want to analyze:

Data from the current month-to-date, compared to the same timeperiod last year

1. In the **Month to Date** area, click the value you want to analyze.

NOTE: This value does **not** include data from today.

The **Default Measure Analysis** page opens.

2. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from the most recent completed month, compared to the same month last year

- In the Current Complete Month area, click the value you want to analyze.
 The Default Measure Analysis page opens.
- 2. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Measure Factory Outpatient

Data from the current year-to-completed-month (YTCM), compared to the same time-period last year

NOTE: The year-to-completed-month (YTCM) begins with the first day of the selected calendar (either standard or fiscal) and ends with the last day of the most recent completed month. For example, if the current month is June, the year-to-completed-month begins with January 1st (on a standard calendar), and ends with May 31st.

- 1. In the **Year to Date** area, click the value you want to analyze.
 - The **Default Measure Analysis** page opens.
- 2. Dive on the data. For more information, see Diving on Data on page 67.
 - **TIP**: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

- 1. On the left, click the measure with the data you want to analyze.
 - The **Measure Overview** page opens.
- 2. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

- 1. On the left, click the measure whose definition you want to view.
 - The **Measure Overview** page opens.
- 2. On the left, review the measure's definition and other details.
 - For more information, see Viewing Measure Details on page 71.

Outpatient—Working with Trended Data

Go to the dashboard and adjust your view

- 1. On the home page, click **Outpatient**.
 - The **Outpatient** page opens.
- 2. In the upper left, click the **Trends** tab.
- 3. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.

Outpatient Measure Factory

4. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.

Review the data

Note the values:



Analyze the data

Choose the data that you want to analyze:

Data from a selected month, compared to the same month last year

- 1. In a chart, click the month with the data you want to analyze.
 - The **Default Analysis** page opens.
- 2. Note the date range:
 - The **Current** column shows data from the selected month.
 - The **Previous** column shows data from the same month, one year in the past.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Cumulative data from the past 12 months, compared to the same timeperiod last year

1. Below a chart, click the value for the current or previous 12 months.

NOTE: Make sure that the entire row is selected, rather than the column.

Measure Factory Outpatient



The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Current Rolling Year by Month** column shows cumulative data from the past 12 months.
 - The **Previous Rolling Year by Month** column shows cumulative data from the same 12 months, one year in the past.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

1. Locate the measure with the data you want to analyze, and click the **Analysis** icon **■**.

The **Measure Overview** page opens.

- 2. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

1. Locate the measure whose definition you want to view, and click the **Analysis** icon **III**.

The **Measure Overview** page opens.

2. On the left, review the measure's definition and other details.

For more information, see <u>Viewing Measure Details on page 71</u>.

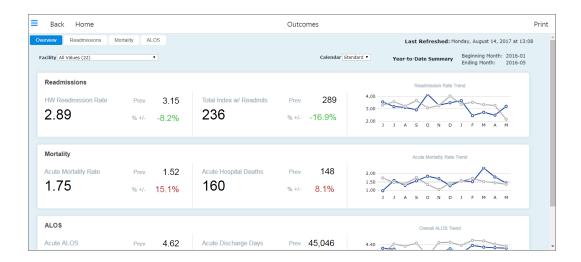
Measure Factory

Measure Factory Outcomes

Outcomes

On the **Outcomes** page, you can choose whether to work with data about all outcomes, readmission, mortality, or **ALOS**¹:

- Outcomes—Working with Data About All Outcomes below
- Outcomes—Working with Readmission Data on page 49
- Outcomes—Working with Mortality Data on page 53
- Outcomes—Working with ALOS Data on page 56



Outcomes—Working with Data About All Outcomes

Go to the dashboard and adjust your view

- 1. On the home page, click **Outcomes**.
 - The **Outcomes** page opens with the **Overview** tab selected.
- 2. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 3. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 4. In the **Calendar** pull-down menu, choose one of the following:

¹Average Length of Stay

Outcomes Measure Factory

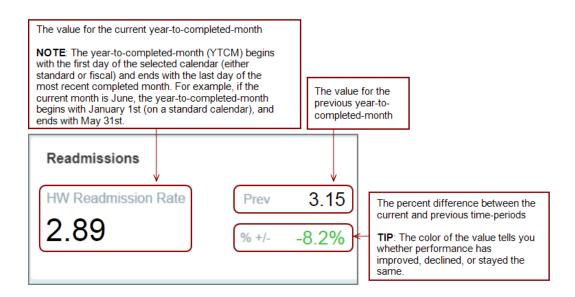
• **Standard**, if you want to view data beginning with January of the current year

• **Fiscal**, if you want to view data beginning with the first month in your organization's fiscal calendar

On the right, the **Year-to-Date Summary** updates based on your selection.

Review the data

• On the left, note the number values:



• On the right, charts display data from the past 12 months, compared to the same 12 months last year.

TIP: Point to a value in the chart to see labels and number values.

Analyze the data

Choose the data that you want to analyze:

Data about a particular outcome for the current year-to-completedmonth (YTCM), compared to the same time-period last year

1. Click the number value that you want to analyze.

The **Default Analysis** page opens.

2. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data about a particular outcome for a certain month, compared to the

Measure Factory Outcomes

same month last year

1. In a chart, click the month with the data you want to view.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Cur 12 Months** column shows data from the selected month.
 - The **Prev 12 Months** column shows data from the same month, one year in the past.
- 3. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Outcomes—Working with Readmission Data

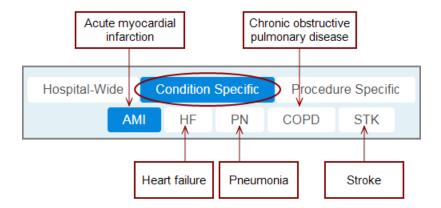
Go to the dashboard and adjust your view

1. On the home page, click **Outcomes**.

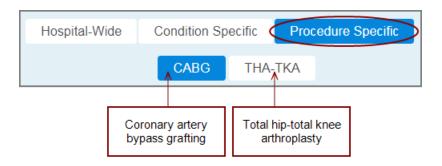
The **Outcomes** page opens.

- 2. In the upper left, click the **Readmissions** tab.
- 3. Note the dates for the data:
 - In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
 - Above the data, the **12 Month Summary** tells you how the current and previous 12 months are counted.
- 4. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 5. Along the top, select one of the following:
 - Hospital-Wide, if you want to view data for all patients
 - **Condition Specific**, if you want to view data for patients that have a certain condition

Outcomes Measure Factory

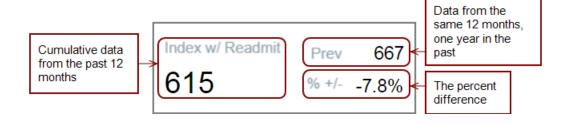


• **Procedure Specific**, if you want to view data for patients that have had a certain procedure



Review the data

• Along the top, the number values show:



 Below the number values, charts show data about discharge status and financial class.

TIP: Point to a value in the chart to see labels and number values.

• Along the bottom of the page, charts show trended data.

Measure Factory Outcomes

Analyze the data

Choose the data that you want to analyze:

Data from two measures, during a selected month

1. In the **Index w/ Readmit vs Population** chart, click the month with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

2. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from a selected month, compared to the same month one year in the past

1. In the **Readmit Rate Trend** chart, click the month with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Cur 12 Months** column shows data from the selected month.
 - The **Prev 12 Months** column shows data from the same month, one year in the past.
- 3. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Cumulative data from the past 12 months, compared to the same timeperiod last year

1. Click the value that you want to analyze.

You can choose:

- A number value along the top of the page
- A value in the Index w/ Readmit by Discharges Status chart
- A value in the Top 5 Index w/ Readmit by Financial Class chart

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Current Rolling Year by Month** column shows cumulative data from the past 12 months.

- The **Previous Rolling Year by Month** column shows cumulative data from the same 12 months, one year in the past.
- 3. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

1. In the upper right, click **Analysis**.

The **Measure Overview** page opens.

- 2. In the upper left of the page, note the name of the measure.
- 3. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

1. In the upper right, click **Analysis**.

The **Measure Overview** page opens.

- 2. In the upper left of the page, note the name of the measure.
- 3. On the left, review the measure's definition and other details.

 For more information, see Viewing Measure Details on page 71.

View a CMS1 specification report

- 1. Along the top, select one of the following:
 - **Hospital-Wide**, if you want to view a specification about readmission measures for all patients
 - Condition Specific, if you want to view a specification about condition-specific readmission measures

This specification shows information about measures related to AMI, COPD, HF, PN, and STK.

 Procedure Specific, if you want to view a specification about procedure-specific readmission measures

This specification shows information about measures related to CABG and THA-TKA.

¹Centers for Medicare and Medicaid Services

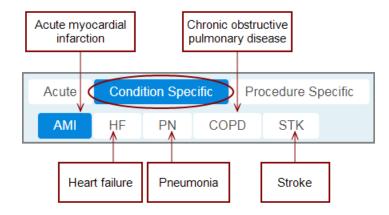
Measure Factory Outcomes

2. In the upper right, click **Specifications**. The specification report opens.

Outcomes—Working with Mortality Data

Go to the dashboard and adjust your view

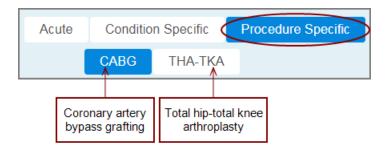
- 1. On the home page, click **Outcomes**.
 - The **Outcomes** page opens.
- 2. In the upper left, click the **Mortality** tab.
- 3. Note the dates for the data:
 - In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
 - Above the data, the **12 Month Summary** tells you how the current and previous 12 months are counted.
- 4. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 5. Along the top, select one of the following:
 - Acute, if you want to view data for patients with an acute diagnosis
 - **Condition Specific**, if you want to view data for patients that have a certain condition



• **Procedure Specific**, if you want to view data for patients that have

Outcomes Measure Factory

had a certain procedure



Review the data

• Along the top, the number values show:



 Below the number values, charts show data about age group and financial class.

TIP: Point to a value in the chart to see labels and number values.

• Along the bottom of the page, charts show trended data.

Analyze the data

Choose the data that you want to analyze:

Data from two measures, during a selected month

1. In the **Acute Mortalities vs Acute Discharges** chart, click the month with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

2. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from a selected month, compared to the same month one year in

Measure Factory Outcomes

the past

1. In the **Acute Mortality Rate Trend** chart, click the month with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Cur 12 Months** column shows data from the selected month.
 - The **Prev 12 Months** column shows data from the same month, one year in the past.
- 3. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Cumulative data from the past 12 months, compared to the same timeperiod last year

1. Click the value that you want to analyze.

You can choose:

- A number value along the top of the page
- A value in the **Top 5 Acute Mortalities by Age Group** chart
- A value in the **Top 5 Acute Mortalities by Financial Class** chart

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Current Rolling Year by Month** column shows cumulative data from the past 12 months.
 - The **Previous Rolling Year by Month** column shows cumulative data from the same 12 months, one year in the past.
- 3. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

1. In the upper right, click **Analysis**.

The **Measure Overview** page opens.

- 2. In the upper left of the page, note the name of the measure.
- 3. Do one of the following:

- Analyze how the data has changed over time (default analysis)
- Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

1. In the upper right, click **Analysis**.

The **Measure Overview** page opens.

- 2. In the upper left of the page, note the name of the measure.
- 3. On the left, review the measure's definition and other details.

 For more information, see Viewing Measure Details on page 71.

View a **CMS1** specification report

- 1. Along the top, select one of the following:
 - Condition Specific, if you want to view a specification about condition-specific mortality measures
 - This specification shows information about measures related to AMI, COPD, HF, PN, and STK.
 - **Procedure Specific**, if you want to view a specification about procedure-specific mortality measures
 - This specification shows information about measures related to CABG.
- 2. In the upper right, click **Specifications**.

The specification report opens.

Outcomes—Working with ALOS Data

Go to the dashboard and adjust your view

- 1. On the home page, click **Outcomes**.
 - The **Outcomes** page opens.
- 2. In the upper left, click the **ALOS²** tab.
- 3. Note the dates for the data:

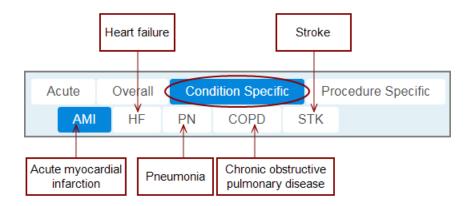
¹Centers for Medicare and Medicaid Services

²Average Length of Stay

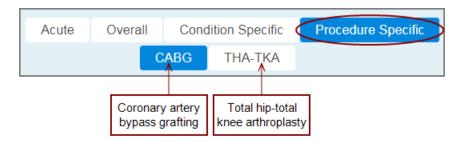
Measure Factory Outcomes

• In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.

- Above the data, the **12 Month Summary** tells you how the current and previous 12 months are counted.
- 4. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 5. Along the top, select one of the following:
 - Acute, if you want to view data for patients with an acute diagnosis
 - Overall, if you want to view data for all patients
 - **Condition Specific**, if you want to view data for patients that have a certain condition



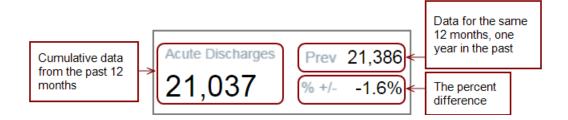
• **Procedure Specific**, if you want to view data for patients that have had a certain procedure



Outcomes Measure Factory

Review the data

• Along the top, the number values show:



 Below the number values, charts show data about age group and financial class.

TIP: Point to a value in the chart to see labels and number values.

• Along the bottom of the page, charts show trended data.

Analyze the data

Choose the data that you want to analyze:

Data from two measures, during a selected month

1. In the **Acute Discharge Days vs Acute Discharges** chart, click the month with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

2. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from a selected month, compared to the same month one year in the past

1. In the **Acute ALOS Trend** chart, click the month with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Cur 12 Months** column shows data from the selected month.
 - The **Prev 12 Months** column shows data from the same month, one year in the past.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

Measure Factory Outcomes

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Cumulative data from the past 12 months, compared to the same timeperiod last year

1. Click the value that you want to analyze.

You can choose:

- A number value along the top of the page
- A value in the Top 5 Acute ALOS by Age Group chart
- A value in the Top 5 ALOS by Financial Class chart

The **Default Analysis** page opens.

- 2. Note the date range:
 - The **Current Rolling Year by Month** column shows cumulative data from the past 12 months.
 - The **Previous Rolling Year by Month** column shows cumulative data from the same 12 months, one year in the past.
- 3. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

1. In the upper right, click **Analysis**.

The **Measure Overview** page opens.

- 2. In the upper left of the page, note the name of the measure.
- 3. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

1. In the upper right, click **Analysis**.

The **Measure Overview** page opens.

- 2. In the upper left of the page, note the name of the measure.
- 3. On the left, review the measure's definition and other details.

For more information, see Viewing Measure Details on page 71.

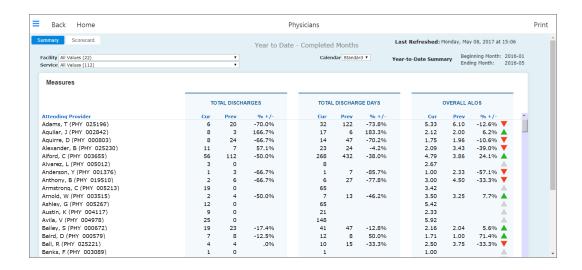
Measure Factory

Measure Factory Physicians

Physicians

On the **Physicians** page, you can choose whether to work with data about many attending providers, or only one attending provider:

- Physicians—Working with Data About Many Physicians below
- Physicians—Working with Data About One Physician on the next page



Physicians—Working with Data About Many Physicians

Go to the dashboard and adjust your view

- 1. On the home page, click **Physicians**.
 - The **Physicians** page opens with the **Summary** tab selected.
- 2. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 3. In the **Facility** pull-down menu, choose whether to view data for all facilities or one facility.
- 4. In the **Service** pull-down menu, choose whether to view data for all attending providers or only attending providers that perform a particular service.
- 5. In the Calendar pull-down menu, choose one of the following:
 - **Standard**, if you want to view data beginning with January of the current year

Physicians Measure Factory

• **Fiscal**, if you want to view data beginning with the first month in your organization's fiscal calendar

On the right, the **Year-to-Date Summary** updates based on your selection.

Review the data

A list of attending providers displays on the left.

TIP: Click the name of an attending provider to see information specific to them. For more information, see Physician below.

One Physician below.

• Each area of the page shows data from the current year-to-completedmonth, compared to the same time-period last year.

NOTE: The year-to-completed-month (YTCM) begins with the first day of the selected calendar (either standard or fiscal) and ends with the last day of the most recent completed month. For example, if the current month is June, the year-to-completed-month begins with January 1st (on a standard calendar), and ends with May 31st.

TIP: To sort a column, click the column header.

Analyze the data

To analyze data about an attending provider for the current year-to-completed-month (YTCM), compared to the same time-period last year:

1. To the right of the attending provider's name, click the **Cur** or **Prev** value that you want to analyze.

The **Default Measure Analysis** page opens.

2. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Physicians—Working with Data About One Physician

Go to the dashboard and adjust your view

1. On the home page, click **Physicians**.

The **Physicians** page opens.

- 2. In the **Facility** pull-down menu, select the facility where the attending provider works.
- 3. In the **Service** pull-down menu, select the attending provider's service.

Measure Factory Physicians

4. On the left, click the name of the attending provider that you want to see details about.

TIP: You can use your web browser's Find feature (typically, **Ctrl+F**) to search for the attending provider's name.

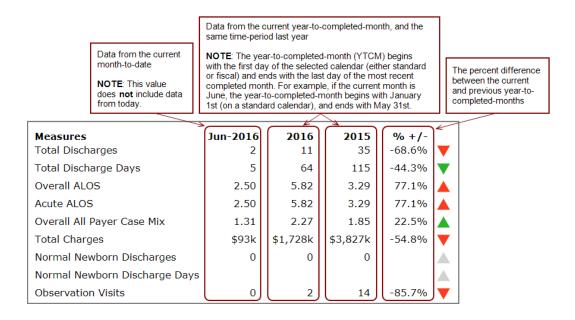
The **Scorecard** tab opens, displaying information about the selected attending provider.

- 5. In the upper right, note the date and time that the data was last updated, in the **Last Refreshed** field.
- 6. In the **Calendar** pull-down menu, choose one of the following:
 - **Standard**, if you want to view data beginning with January of the current year
 - **Fiscal**, if you want to view data beginning with the first month in your organization's fiscal calendar

On the right, the **Year-to-Date Summary** updates based on your selection.

Review the data

• In the **Measures** area, note the values:



To view trended data, click the name of a measure in the **Measures** area.
 On the right, the data displays in a chart.

TIP: Point to a value in the chart to see labels and number values.

Physicians Measure Factory



• In the lower half of the page, select the type of data that you want to view.

For example, you can select **Procedure** to view data about the procedures that the attending provider has performed.

If you are viewing data about procedures, you can click the leftmost column header, and select the information that you want to view.

TIP: To sort the values in the leftmost column, click the column header, and select **Sort Up** or **Sort Down**, at the top of the context menu. To sort the values in the other columns, click the column header.

Analyze the data

Choose the data that you want to analyze:

Data from a selected month, compared to the same month last year

1. In the **Measures** area, click the measure with the data that you want to analyze.

On the right, the measure's data displays in the chart.

2. In the chart, click the month with the data you want to analyze.

TIP: Point to a value in the chart to see labels and number values.

The **Default Analysis** page opens.

- 3. Note the date range:
 - The **Cur 12 Months** column shows data from the selected month.
 - The **Prev 12 Months** column shows data from the same month, one year in the past.
- 4. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from the current month-to-date, compared to the current and previous year-to-completed-months (YTCM)

1. In the **Measures** area, click the value that you want to analyze.

Measure Factory Physicians

NOTE: The values in the month-to-date column do **not** include data from today.

The **Analysis** page opens.

2. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data about a particular medical area for the current year-to-completedmonth (YTCM), compared across various measures

- 1. In the lower half of the page, select the type of data that you want to view. For example, you can select **Procedure** to view data about the procedures that the attending provider has performed.
- 2. In the table, click the value that you want to analyze.
 - The **Default Analysis** page opens.
- 3. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

All data for a measure, with or without a time-period comparison

- 1. In the **Measures** area, click the measure with the data that you want to analyze.
 - On the right, the measure's data displays in the chart.
- 2. To the upper right of the chart, click the **Analysis** icon **III**.

The **Measure Overview** page opens.

- 3. Do one of the following:
 - Analyze how the data has changed over time (default analysis)
 - Analyze how the data compares to other measures, without a timeperiod comparison (custom analysis)

For more information, see Analyzing Measure Data on page 77.

View the definition of a measure

- 1. In the **Measures** area, click the measure whose definition you want to view. On the right, the measure's data displays in the chart.
- 2. To the upper right of the chart, click the **Analysis** icon **III**.

The **Measure Overview** page opens.

Physicians Measure Factory

3. On the left, review the measure's definition and other details. For more information, see <u>Viewing Measure Details on page 71</u>.

Measure Factory What Is Diving?

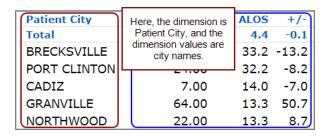
What Is Diving?

Diving is the process of displaying progressively detailed levels of data for analysis. You can dive through multiple layers of data, with each subsequent dive showing incremental detail.

In DivePort, you dive on tabular data. When you dive, you select dimensions, which determine the values that appear.

Diving on Data

Browse to the data you want to dive on.
 Dimension values display in the leftmost column. Data values display in the columns on the right.



2. If pull-down menus are available, use them to adjust your view of the data.



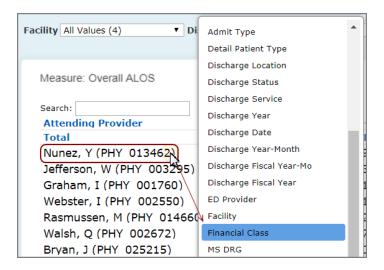
3. To view data for a different dimension, click the leftmost column header, and select a new dimension.

What Is Diving? Measure Factory



Values for the new dimension appear.

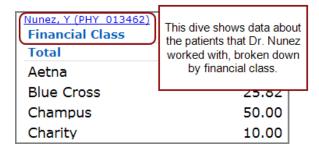
- 4. Find the dimension value that you want to dive on:
 - If searching is enabled, enter the name of the dimension value in the Search box.
 - To sort the dimension values in descending or ascending alphabetical order, click the leftmost column header, and select **Sort Up** or **Sort Down** at the top of the context menu.
 - To sort column data in descending or ascending numeric order, click the column header.
- 5. To begin diving, click the dimension value, and select another dimension.



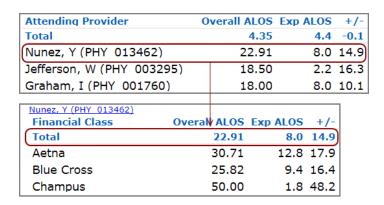
Values that meet the criteria for both dimensions appear.

In the upper left, the name of the dimension value that you dived on appears.

Measure Factory What Is Diving?



The values that appear in the **Totals row** are the same as the values in the row that you dived on.



- 6. Use the previous steps to continue adjusting your view.
- 7. To return to a previous view, in the upper left, click a dimension value.

Nunez, Y (PHY 01 Discharge Yea	3462) → Blue Cross → Female or Overall ALOS, Exp ALOS	+/-
Total	28.63 9.6	19.0
2013	1.00 3.3	-2.3
2014	71.33 14.8	56.5
2015	4.33 6.6	-2.3

8. Depending on the settings that an administrator specified, to the lower left of the data, you might be able to click an option to view the data in Excel or PDF format, or open the data in ProDiver.

What Is Diving? Measure Factory



The Measure Dictionary

The Measure Dictionary is the central place to work with your organization's measures. In the Measure Dictionary, you can view a measure's definition and other details (including the rules that it is made of), and analyze measure data. Additionally, you might be able to view industry standard specification reports that are associated with a measure, if any are available.

Viewing Measure Details

- 1. On the home page, click **Measure Dictionary**.
 - The **Measure Dictionary** page opens.
- 2. Click the measure that you want to work with, and select **Measure Overview**.

TIP: You can use your web browser's Find feature (typically, **Ctrl+F**) to search for the measure's name.

The **Measure Overview** page opens.

3. On the left, review the measure's definition and other details.

Label	Description
Definition	A brief description of what the measure represents
Business Logic	A detailed explanation of the measure's logic, including a description of the rules that make up the measure
Expression	The syntax used to generate the measure:
	Calculation—An operation used to produce a value
	 Filter—A specification that determines available values
References	The industry standard documents that support the measure's definition and business logic

Label	Description
More Details	Additional details: • Category—The group that the measure belongs to.
	The category is useful to DivePort administrators and developers who work with the Measure Factory configuration file.
	 Good Direction—One of two values (up or down) that tells you whether higher or lower values indicate improvements in performance.
	 View—The date or event that the measure is based on.
	 Data Set—The data structure that supplies the values for the measure

Viewing the Rules in a Measure

Viewing the composition of a measure can inform your understanding of its definition, as well as help you ensure **data governance1**.

- 1. On the home page, click **Measure Dictionary**.
 - The **Measure Dictionary** page opens.
- 2. Click the measure that you want to work with, and select **Measure Overview**.

TIP: You can use your web browser's Find feature (typically, **Ctrl+F**) to search for the measure's name.

The **Measure Overview** page opens.

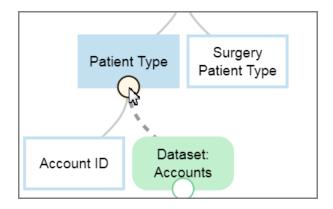
3. In the upper right, click the **Composition** tab.

A diagram opens, displaying the values that the measure is made of.

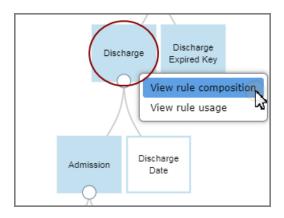
TIP: To zoom in or out, click the + and - icons in the upper left.

- 4. To view the composition of a rule or measure within the diagram:
 - If the rule or measure is made of only a few values, click the circle icons to expand branches of the diagram.

¹The process of managing the authority, control, and collaboration of data assets to ensure data usability, integrity and security.



 If the rule or measure is made of many values (more than can comfortably fit on screen), click its name, and select View rule composition or View measure composition.



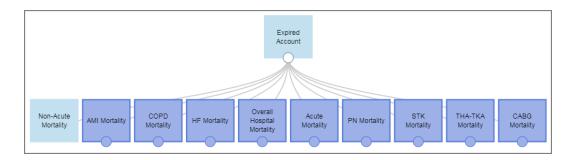
The rule or measure opens in its own diagram. Click the circle icons to expand branches of the diagram.

NOTE: To return to the previous view, in the upper left, click the < icon. To return to the composition of the original measure, click the << icon.

5. To view the places where a rule or measure is used click its name, and select **View rule usage** or **View measure usage**.

A diagram opens, displaying the rules and measures where the selected value is used.

For example, the **Expired Account** rule is used in rules and measures related to mortality.



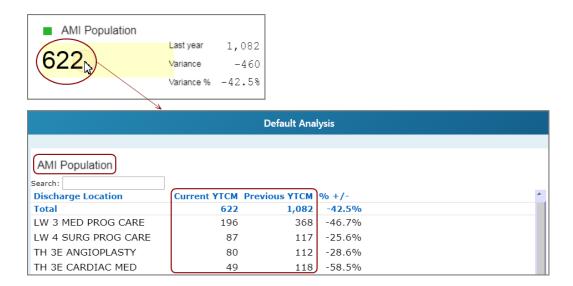
Measure Analysis Options

About Default and Custom Analyses

When working with Measure Factory data, there are two distinct types of analysis:

- Default analysis—This type of analysis allows you to compare one
 measure's data between time-periods. You perform a default analysis
 when you want to understand how one measure's data has changed.
 When doing a default analysis:
 - You can work with data from only one measure at a time.
 - If you choose to view data from the current month-to-date, the values do **not** include data from today.

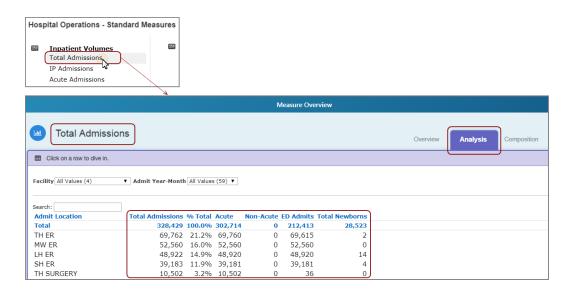
Typically, you start a default analysis by clicking a value—either a number or a graphical value—on a dashboard.



 Custom analysis—This type of analysis allows you to compare data from several measures, but does not show a time-period comparison. You perform a custom analysis when you want to understand how your organization's most current data differs between measures, but do not need to know how the data has changed.

When doing a custom analysis, if you choose to view data from the current month-to-date, the values include data from today.

To start a custom analysis, go to the **Measure Overview** page, and click the **Analysis** tab.



Other Analysis Options

Apart from default and custom analysis, each measure has unique data analysis options. These options are specified in Measure Factory, and you can work with your Dimensional Insight consultant or your organization's developers to adjust them.

To view a measure's analysis options:

- On the home page, click Measure Dictionary.
 The Measure Dictionary page opens.
- 2. Click the measure whose analysis options you want to view, and select **Measure Overview**.

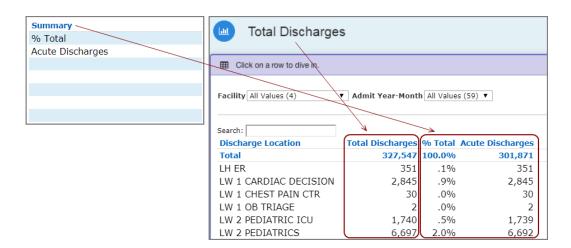
TIP: You can use your web browser's Find feature (typically, **Ctrl+F**) to search for the measure's name.

The **Measure Overview** page opens.

- 3. In the upper right, click the **Composition** tab.
- 4. On the left, note the measure's analysis options:
 - **Dimension**—This section lists the dimensions that you can choose when doing any type of analysis (either default or custom). When analyzing the selected measure, you can choose only the dimensions that display here.



• **Summary**—This section lists the columns that display on the **Analysis** tab of the **Measure Overview** page. You can view these columns only when doing a custom analysis.



• **QuickView**—This section lists the pull-down menus that display along the top of the **Analysis** tab of the **Measure Overview** page. You can use these pull-down menus only when doing a custom

analysis.



Analyzing Measure Data

Analyzing Measure Data Over Time (Default Analysis)

- 1. On the home page, click **Measure Dictionary**.
 - The **Measure Dictionary** page opens.
- 2. Click the measure with the data that you want to analyze, and select **Measure Overview**.

TIP: You can use your web browser's Find feature (typically, **Ctrl**+**F**) to search for the measure's name.

The **Measure Overview** page opens.

3. Choose the data that you want to analyze:

Data from the current month-to-date, compared to the same timeperiod last year

a. Above the measure definition, click the **MTD** value.

NOTE: This value does **not** include data from today. To work with data from the current month-to-date, including today's data, perform a custom analysis.



The **Default Analysis** page opens.

b. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from a selected month, compared to the same month last year

a. In the bar chart, click the month with the data you want to analyze.

The most recent completed month displays on the right side of the chart. For example, if this month is June, the rightmost column shows data for May.

TIP: Point to a value in the chart to see labels and number values.



The **Default Analysis** page opens.

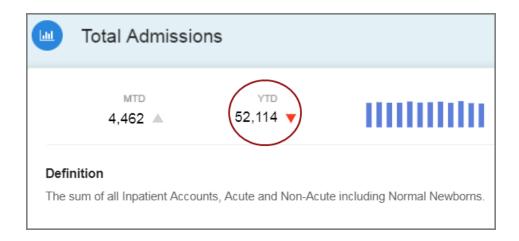
- b. Note the date range:
 - The **Current** column shows data from the selected month.
 - The **Previous** column shows data from the same month, one year in the past.
- c. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

Data from the current year-to-completed-month (YTCM), compared to the same time-period last year

NOTE: The year-to-completed-month (YTCM) begins with the first day of the selected calendar (either standard or fiscal) and ends with the last day of the most recent completed month. For example, if the current month is June, the year-to-completed-month begins with January 1st (on a standard calendar), and ends with May 31st.

a. Above the measure definition, click the **YTD** value.



The **Default Analysis** page opens.

b. Dive on the data. For more information, see <u>Diving on Data on page 67</u>.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format.

NOTE: On dashboards that display the selected measure, you might be able to analyze data from time-periods other than the ones listed here.

Analyzing Measure Data, Without a Time-Period Comparison (Custom Analysis)

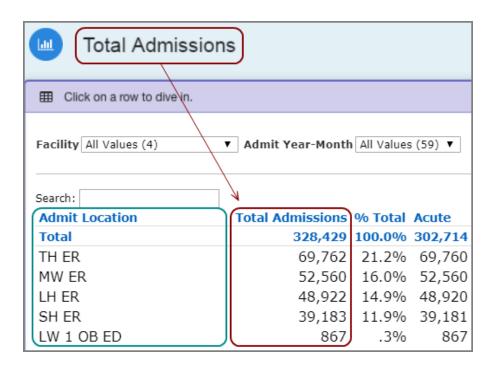
- 1. On the home page, click **Measure Dictionary**.
 - The **Measure Dictionary** page opens.
- 2. Click the measure with the data that you want to analyze, and select **Measure Overview**.

TIP: You can use your web browser's Find feature (typically, **Ctrl+F**) to search for the measure's name.

The **Measure Overview** page opens.

3. In the upper right, click the **Analysis** tab.

The measure displays as a column. Dimension values display in the leftmost column.



4. Along the top of the page, you can use the pull-down menus to adjust your view.

NOTE: If you choose to view data from the current month-to-date, the values include data from today.

5. Dive on the data. For more information, see Diving on Data on page 67.

TIP: In the lower left of the window, you can click an option to open the data in Excel or PDF format, or in ProDiver.

Opening Measure Data in ProDiver

If you have access to ProDiver, you can open a measure's data as a marker file. This option is useful when you want to perform a complex analysis or save your view.

1. On the home page, click **Measure Dictionary**.

The **Measure Dictionary** page opens.

2. Click the measure that you want to analyze, and select **ProDiver**.

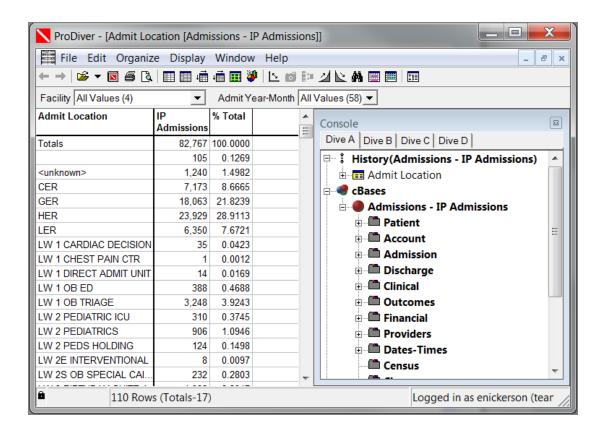
TIP: You can use your web browser's Find feature (typically, **Ctrl+F**) to search for the measure's name.

The downloads area for your web browser displays.

- 3. Follow your web browser's prompts to open the file. ProDiver starts.
- 4. If prompted, enter your logon credentials.

The measure data opens in ProDiver.

The measure displays as a column. Dimension values display in the leftmost column.



5. Along the top, you can use the pull-down menus to adjust your view.

NOTE: If you choose to view data from the current month-to-date, the values include data from today.

6. Dive on the data.

For more information about the ProDiver tool, see the *ProDiver Help*.

Accessing CMS Specification Reports

For some measures, you can view related *pdf* reports that tell you about **CMS1** requirements. These reports were created by the Yale New Haven Health Services Corporation/Center for Outcomes Research & Evaluation (YNHHSC/CORE) and were prepared for Centers for Medicare & Medicaid Services (CMS).

- 1. On the home page, click **Measure Dictionary**.
 - The **Measure Dictionary** page opens.
- 2. Choose the measure with the specification report that you want to view, and select **Specification**.

Specification Report	Related Measures
2017 All-Cause Hospital-Wide Measure Updates and Specifications Report	In the 30 Day Readmissions section, choose any of the hospital-wide readmission measures. For example, you might choose the HWR 30D Readmit Rate measure.
2017 Condition- Specific Measures Updates and Specifications Report (Hospital-Level 30- Day Risk-Standardized Readmission Measures)	In the 30 Day Readmissions section, choose any of the condition-specific (AMI2 , COPD2 , HF2 , PN2 , STK2) readmission measures. For example, you might choose the AMI 30D Readmit Rate measure.

¹Centers for Medicare and Medicaid Services

²Acute myocardial infarction

²Chronic obstructive pulmonary disease

²Heart failure

²Pneumonia

²Stroke

Specification Report	Related Measures
2017 Procedure- Specific Measures Updates and Specifications Report Hospital-Level 30-Day Risk-Standardized Readmission Measures	In the 30 Day Readmissions section, choose any of the procedure-specific (CABG1 , THA-TKA1) readmission measures. For example, you might choose the CABG 30D Index Population measure.
2017 Condition- Specific Measures Updates and Specifications Report (Hospital-Level 30- Day Risk- Standardized Mortality Measures)	In the Mortality section, choose any of the condition-specific (STK, HF, AMI, PN, COPD) mortality measures or the acute mortality measures. For example, you might choose the STK Mortality measure.
2017 Procedure- Specific Measure Updates and Specifications Report Hospital-Level 30-Day Risk-Standardized Mortality Measure	In the Mortality section, choose any of the CABG measures. NOTE : This specification shows information only about measures related to CABG.

¹Coronary artery bypass grafting

¹Total hip-total knee arthroplasty

Measure Factory

Measure Factory Data Sets

If you have access to ProDiver, you can open the Measure Factory data sets that supply your system.

This option is useful when you want to work with complete data for a large number of measures. If you want to work with data for only a few measures, consider doing a more focused analysis. For more information, see Analyzing Measure Data on page 77.

- 1. On the home page, click **Ad Hoc Analysis**.
 - The **Ad Hoc Analysis** page opens.
- 2. On the left, select one of the following:
 - **All Measures**, if you want to open information from all available data sets at the same time.
 - **Data Sets**, if you want to open one of several data sets, each of which are useful for viewing certain information.

Data Set	Description
Accounts	View complete information for each account ID.
	The Accounts data set contains the most information, and is useful when you want to work with data at the account level.
Adjustments	View transaction data about billing adjustments for each account ID.
Census Analysis	View census data recorded through a period of time that your organization chooses (typically, one year in the past).
	The Census Analysis data set is updated each day.
Census Capacity	View information about the total number of patients that can be admitted to each unit.

Data Set	Description
Charges	View transaction data about the charges that were billed to each account ID.
	TIP : You can use the Charges data set to determine the location or department that a patient was admitted to, such as the ED1 or OR1 .
Daily Census	View data using one of three industry-standard methods for calculating patient days.
	Before you open this data set, be sure you know which method your organization uses.
Diagnoses	View the principal and secondary diagnoses that were coded against each account ID.
ED Log	View emergency department information for each account ID.
Hourly	View census data recorded through the past 30 days.
Census	The Hourly Census data set is updated each hour.
OR Log	View operating room information for each account ID.
Payments	View transaction data about the payments submitted for each account ID.
Previous Hourly Census	The Previous Hourly Census data set is used to calculate certain values.
	Dimensional Insight recommends that you choose a different data set for analysis.
Procedures	View the principal and secondary procedures coded against each account ID.

¹Emergency Department

¹Operating Room

Data Set	Description
Squashed Previous Hourly Census	The Squashed Previous Hourly Census data set is used to calculate certain values. Dimensional Insight recommends that you choose a different data set for analysis.

- **Standard DivePlans**, if you want to open information from the **Adjustments**, **Charges**, and **Payments** data sets at the same time. This is useful for analyzing financial information.
- 3. On the right, click the name of the data set that you want to open.

The downloads area for your web browser displays.

4. Follow your web browser's prompts to open the file.

ProDiver starts.

5. If prompted, enter your logon credentials.

The data set opens in ProDiver.

Note the following:

- The dimensions on the Console typically show counts of values.
- You can click Edit > Select Columns to access all the information in the data set.
- If you choose to view data from the current month-to-date, these values include data from today.
- To open another data set or to change the data set that you are viewing, on the ProDiver toolbar, click the **DiveBook** icon **S**.

For more information about the ProDiver tool, see the *ProDiver Help*.