



**Flex
Monitoring
Team**

University of Minnesota

University of North Carolina at Chapel Hill

University of Southern Maine

CAHMPAS and Using FMT Data

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July 21, 2016 | 2016 Flex Reverse Site Visit



- What is it?
- How do I use it?
- What if I have problems?
- What's next?



- What is it?
- How do I use it?
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CAHMPAS

Critical Access Hospital Measurement & Performance Assessment System

- Online data query tool created by FMT
- Provides graphs and data to compare CAH performance for various measures across user-defined groups

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- What is it?
- **How do I use it?**
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Logging In

CAH Measurement and Performance Assessment System (CAHMPAS) Login

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CAHMPAS
Critical Access Hospital Measurement & Performance Assessment System

Login

Username

Password

Remember Me

Login

1. Visit <http://cahmpas.sirs.unc.edu>
2. Enter your username and password (if you need login credentials, contact us at monitoring@flexmonitoring.org)



CAHMPAS Home Screen



1. Note the navigation bar at the top of the window – use this, rather than your browser’s back & forward buttons, to get around.
2. Click “Get Started.”



Set Graph Type

CAH Measurement and Performance Assessment System (CAHMPAS) Home > Logout

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CAHMPAS
Critical Access Hospital Measurement & Performance Assessment System

What do you want to do?

Compare Individual Hospitals

Compare Hospitals based on indicator chosen

Bar Graph

Compare Group Trends

Graph Your Value Over Time

Line Graph

1. Bar graphs compare hospitals' performances on an indicator for a specific year; line graphs display performance over time.
2. Choose one. You can always use the nav bar to switch types later. We'll start with a bar graph.



Set Indicator



1. You can graph one indicator at a time. The 22 finance indicators are listed first; scroll down to access quality & community indicators.
2. We'll choose the "Total Margin" indicator here.



Set Comparison Groups

1. This screen allows you to create and define groups for comparing CAHs. CAHMPAS allows you to compare up to five custom groups at a time by using the “add group” button.
2. Let’s start with just one group... (see next step)



Set Comparison Groups

Custom Group Name: Custom Group 1
1318 Hospitals

State All
Net Patient Revenue All
Rural Health Clinic All
Long-Term Care All
Government Owned All
Data from Year 2014

Add Group Draw Graph

1. This screen allows you to create and define groups for comparing CAHs. CAHMPAS allows you (as SFCs) to compare up to five custom groups at a time by using the “add group” button.
2. Let’s start with just one group... (see next step)



Set Comparison Groups

Custom Group Name:

32 Hospitals

State

Net Patient Revenue

Rural Health Clinic

Long-Term Care

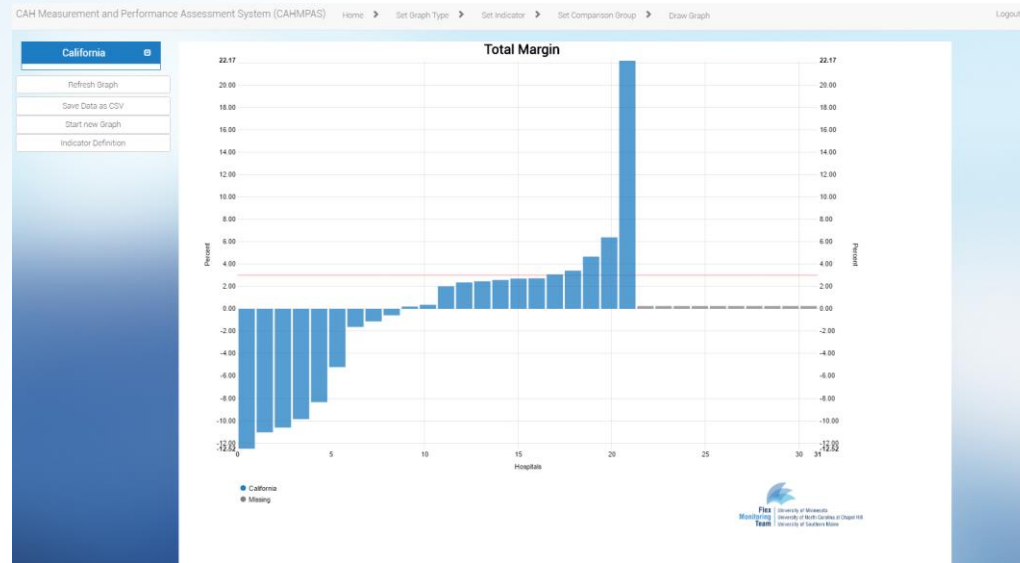
Government Owned

Data from Year

1. As you define the group, the # of hospitals will change.
2. For example, to graph all CAHs in California, select "CA" from the drop-down menu. Type a group name if desired.
3. Select "Draw Graph."



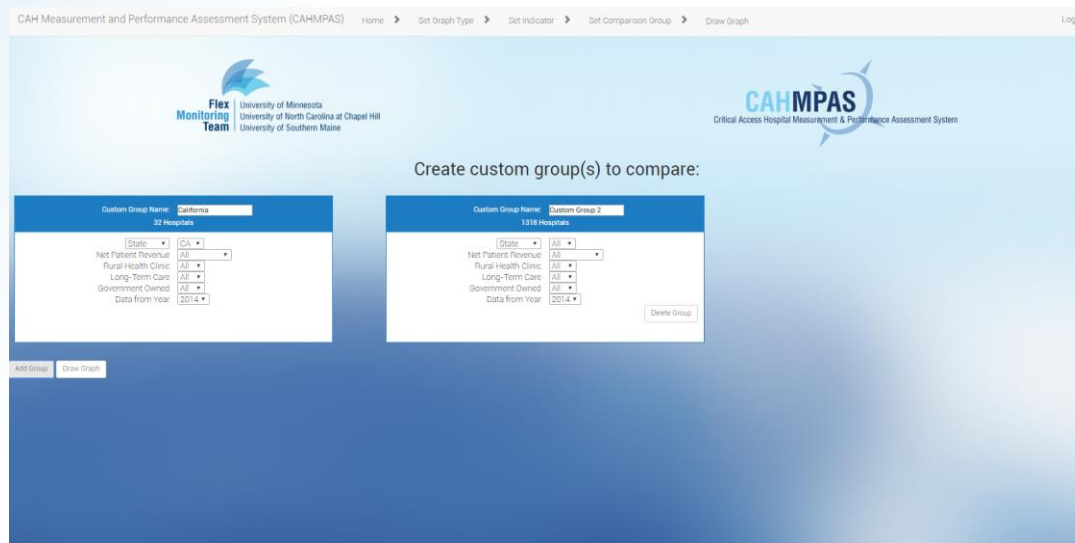
Understanding the Bar Graph



- Each bar corresponds to a CAH in CA for 2014. Hover your cursor to identify your hospital.
- Blue bars are part of the CA group; gray bars are CAHs with missing data for this year.
- The red line represents the benchmark for this indicator.



Add Comparison Groups



Let's compare 2014 Total Margin among CAHs in California by government ownership:

1. Click "Set Comparison Group" in the top nav bar.
2. Click on the "Add Group" button below.



Add Comparison Groups

Custom Group Name: **California: Gov-Owned**
17 Hospitals

State: CA
Net Patient Revenue: All
Rural Health Clinic: All
Long-Term Care: All
Government Owned: Yes
Data from Year: 2014

Custom Group Name: **California: Not Gov-Owned**
15 Hospitals

State: CA
Net Patient Revenue: All
Rural Health Clinic: All
Long-Term Care: All
Government Owned: No
Data from Year: 2014

Delete Group

Add Group Draw Graph

1. Change the name of group #1, and then select “yes” next to “Government Owned.” The number of CAHs in this group changes from 32 to 17.
2. Do the same for group 2, but specify “No.” This group has 15 CAHs.
3. Click “Draw Graph.”



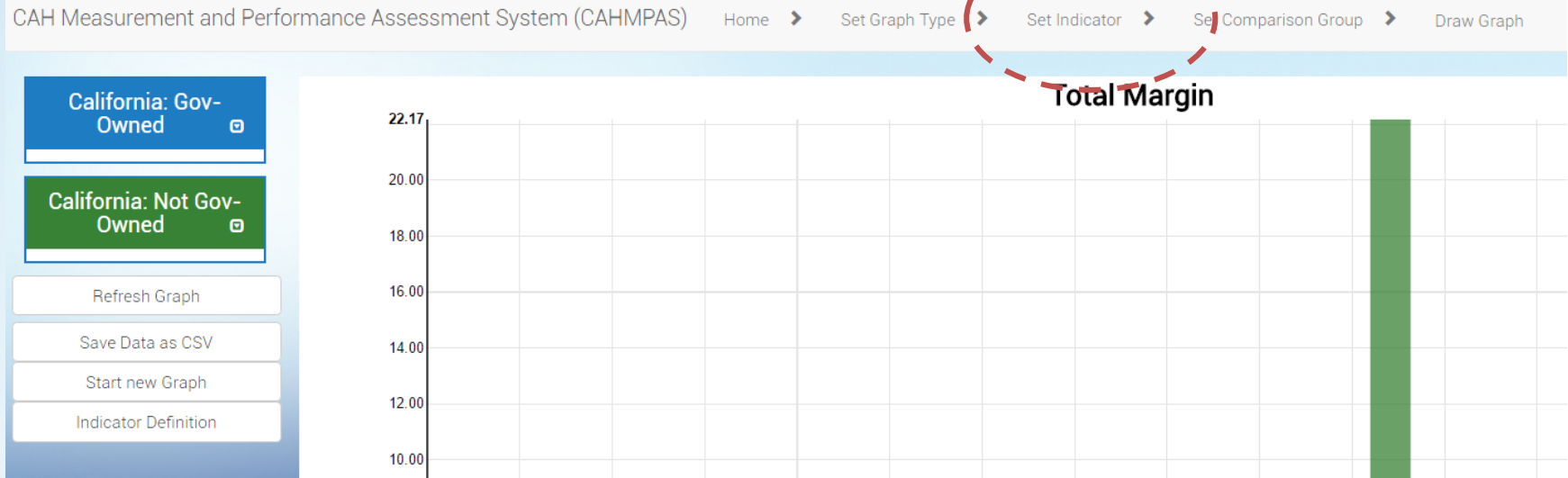
Multiple Comparison Groups



- The new graph displays the same 2014 data for total margin but now distinguishes between government-owned CAHs (blue) and non-government-owned CAHs (green) in California.



Change Indicator



- To see this same comparison for an entirely different indicator, first select “Set Indicator” from the top navigation bar to access the indicator selection page...



Change Indicator

CAH Measurement and Performance Assessment System (CAHMPAS) Home > Set Graph Type > Set Indicator > Set Comparison Group > Draw Graph Logout

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Select an indicator to graph:

Finance Indicators

| Profitability Indicators | Liquidity Indicators | Capital Structure Indicators |
|---|--|---|
| <input type="button" value="Total Margin"/> | <input type="button" value="Current Ratio"/> | <input type="button" value="Equity Financing"/> |
| <input type="button" value="Cash Flow Margin"/> | <input type="button" value="Days Cash on Hand"/> | <input type="button" value="Debt Service Coverage"/> |
| <input type="button" value="Return on Equity"/> | <input type="button" value="Days Revenue in Accounts Receivable"/> | <input type="button" value="Long-Term Debt to Capitalization"/> |
| <input type="button" value="Operating Margin"/> | | |

Revenue Indicators

| | | |
|--|--|--|
| <input type="button" value="Outpatient Revenues to Total Revenues"/> | <input type="button" value="Salaries to Net Patient Revenue"/> | <input type="button" value="Average Daily Census Swing-SNF Beds"/> |
| <input type="button" value="Patient Deductions"/> | <input type="button" value="Average Age of Plant"/> | <input type="button" value="Average Daily Census Acute Beds"/> |
| <input type="button" value="Medicare Inpatient Payer Mix"/> | <input type="button" value="FTEs per Adjusted Occupied Bed"/> | |
| <input type="button" value="Medicare Outpatient Payer Mix"/> | <input type="button" value="Average Salary per FTE"/> | |
| <input type="button" value="Medicare Outpatient Cost to Charge"/> | | |
| <input type="button" value="Medicare Acute Inpatient Cost per Day"/> | | |

Cost Indicators

Utilization Indicators

- ... then choose a new indicator. Let's look at "Medicare Inpatient Payer Mix," a revenue indicator on the left side of the screen.
- Click the indicator button.



Change Indicator

Custom Group Name: **California: Gov-Owned**
17 Hospitals

State: CA
Net Patient Revenue: All
Rural Health Clinic: All
Long-Term Care: All
Government Owned: Yes
Data from Year: 2014

Custom Group Name: **California: Not Gov-Owned**
15 Hospitals

State: CA
Net Patient Revenue: All
Rural Health Clinic: All
Long-Term Care: All
Government Owned: No
Data from Year: 2014

Delete Group

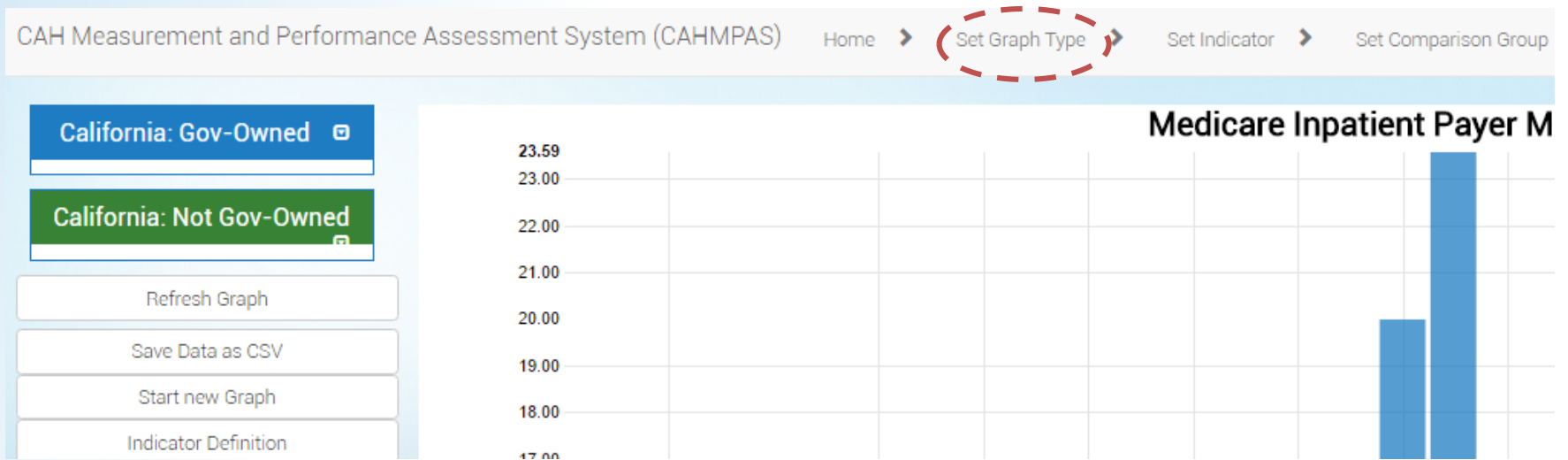
Add Group Draw Graph

...This brings you back to the “Set Comparison Group” page. You’ll notice that your previous group settings are still there.

1. Click “Draw Graph” again to see results. This process can be used to generate comparisons for every indicator in CAHMPAS.



Change Graph Type



To switch from a bar graph to a line graph or vice versa, use the same basic process as changing an indicator.

1. Select "Set Graph Type" from the top navigation bar. This will take you to the graph type selection page.

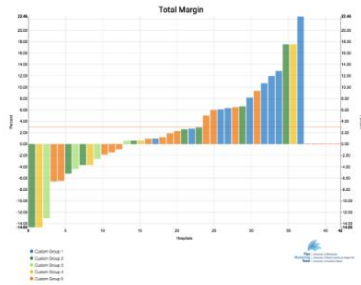


Change Graph Type



What do you want to do?

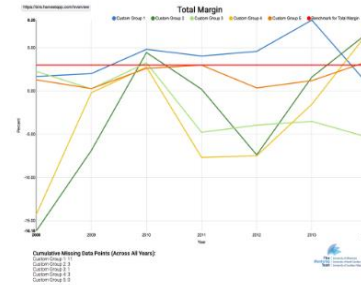
Compare Individual Hospitals



Compare Hospitals based on Indicator chosen

Bar Graph

Compare Group Trends



Graph Your Value Over Time

Line Graph

2. Choose "line graph" on the bottom right.



Change Graph Type

CAH Measurement and Performance Assessment System (CAHMPAS) Home > Set Graph Type > Set Indicator > Logout

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Select an indicator to graph:

Finance Indicators

- Profitability Indicators**
 - Total Margin
 - Cash Flow Margin
 - Return on Equity
 - Operating Margin
- Liquidity Indicators**
 - Current Ratio
 - Days Cash on Hand
 - Days Revenue in Accounts Receivable
- Capital Structure Indicators**
 - Equity Financing
 - Debt Service Coverage
 - Long-Term Debt to Capitalization
- Revenue Indicators**
 - Outpatient Revenues to Total Revenues
 - Patient Deductions
 - Medicare Inpatient Payer Mix
 - Medicare Outpatient Payer Mix
 - Medicare Outpatient Cost to Charge
- Cost Indicators**
 - Salaries to Net Patient Revenue
 - Average Age of Plant
 - FTEs per Adjusted Occupied Bed
 - Average Salary per FTE
- Utilization Indicators**
 - Average Daily Census Swing-SNF Beds
 - Average Daily Census Acute Beds

3. Select an indicator. Let's use "Total Margin" again.



Change Graph Type

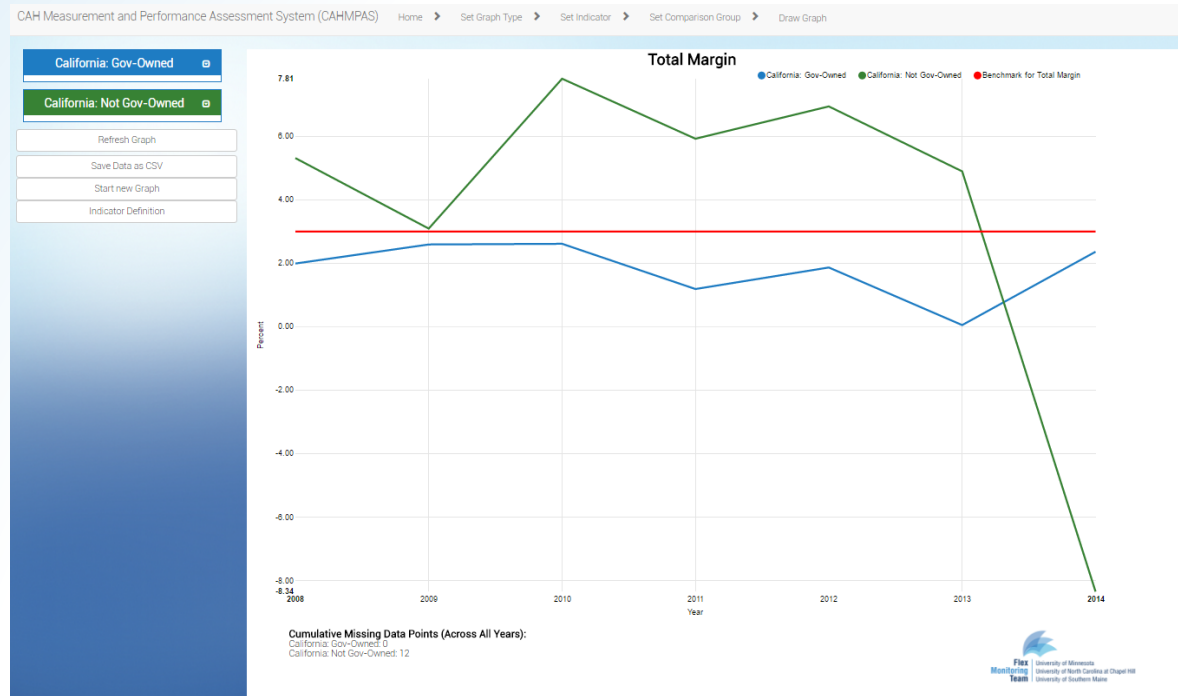
The screenshot displays two side-by-side panels for configuring a comparison group. The left panel is titled 'Custom Group Name: California: Gov-Owned' and shows '20 Hospitals'. The right panel is titled 'Custom Group Name: California: Not Gov-Owned' and shows '16 Hospitals'. Both panels have a 'State' dropdown set to 'CA'. The left panel has dropdowns for 'Net Patient Revenue' (All), 'Rural Health Clinic' (All), 'Long-Term Care' (All), and 'Government Owned' (Yes). The right panel has dropdowns for 'Net Patient Revenue' (All), 'Rural Health Clinic' (All), 'Long-Term Care' (All), and 'Government Owned' (No). At the bottom left are 'Add Group' and 'Draw Graph' buttons. At the bottom right of the right panel is a 'Delete Group' button.

The “Set Comparison Group” page still defaults to our previous selections, but this is a line graph, so the “select year” option is no longer present.

4. Click “Draw Graph.”



Understanding the Line Graph



Results for these two groups from 2008 through 2014 are displayed. Just like the bar graph, gov-owned CA CAHs are blue, non-gov-owned CA CAHs are green.



- What is it?
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- What's next?



Getting help

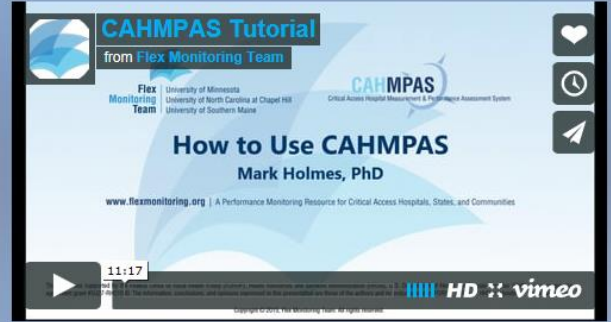
- Tutorials on line
 - PDF
 - Video

- Email us


monitoring@flexmonitoring.org

- Webinars?

Tutorial video:



PDF Step-by-Step Guide:





- What is it?
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What's next

- The example today was using our pre-production
- Move to production by end of month
 - Iterative, continuous updates
- Population/community data
 - Clearing DUA permissions
- Later this fall:
 - Data refresh
 - **Additional functionality – what is desired?**



Questions / Comments:



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In case of broken internet

Select an indicator to graph:

Profitability Indicators

- Total Margin
- Cash Flow Margin
- Return on Equity
- Operating Margin

Liquidity Indicators

- Current Ratio
- Days Cash on Hand
- Days Revenue in Accounts Receivable

Capital Structure Indicators

- Equity Financing
- Debt Service Coverage
- Long-Term Debt to Capitalization

Revenue Indicators

- Outpatient Revenues to Total Revenues
- Patient Deductions
- Medicare Inpatient Payer Mix
- Medicare Outpatient Payer Mix
- Medicare Outpatient Cost to Charge
- Medicare Acute Inpatient Cost per Day

Cost Indicators

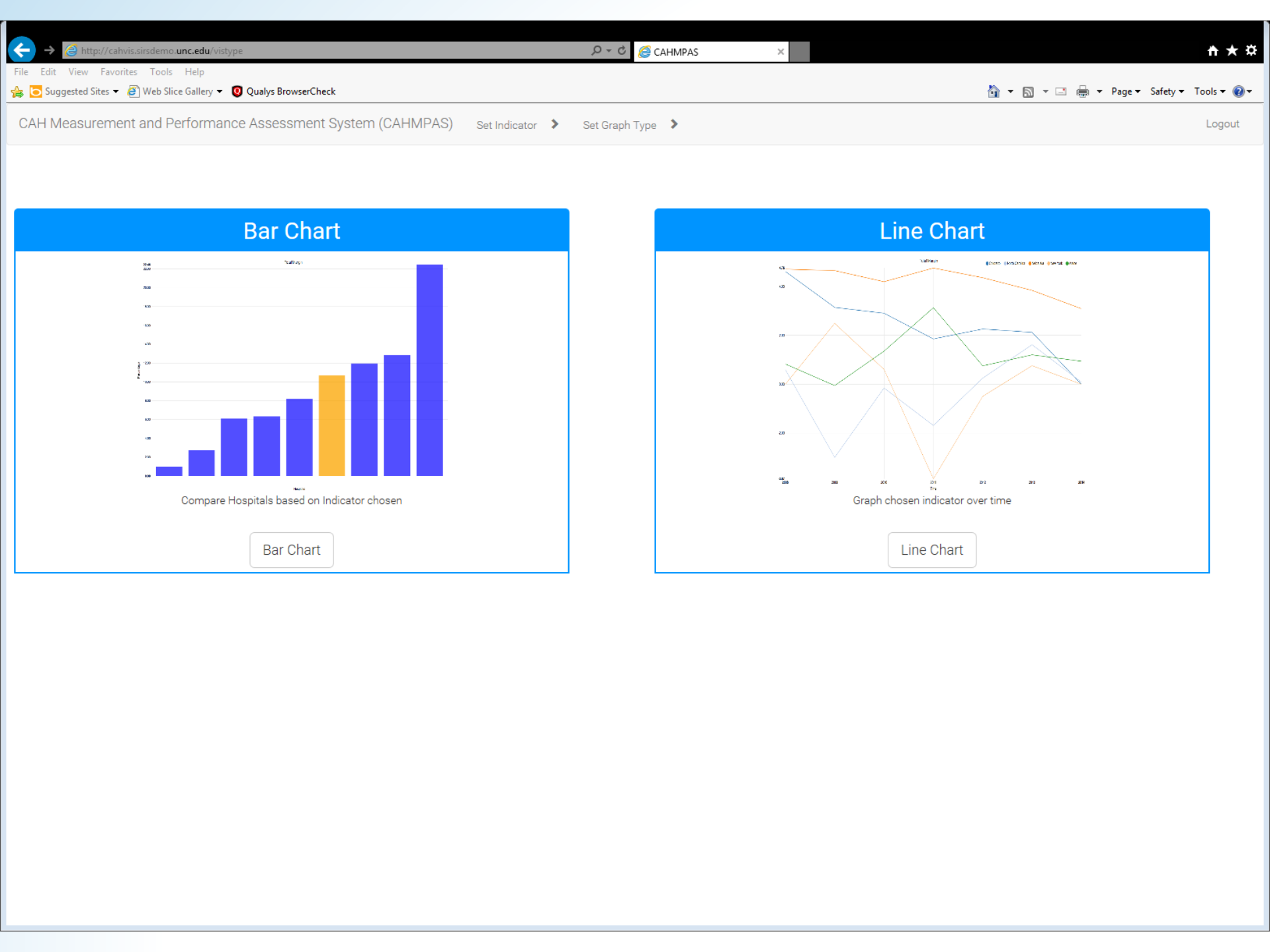
- Salaries to Net Patient Revenue
- Average Age of Plant
- FTEs per Adjusted Occupied Bed
- Average Salary per FTE

Utilization Indicators

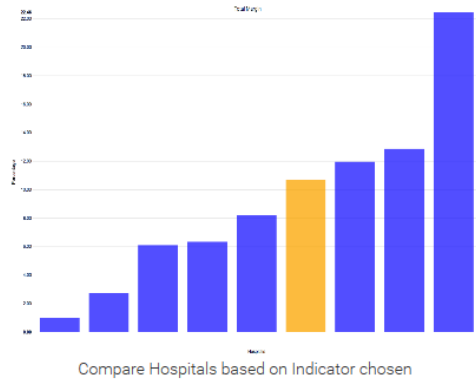
- Average Daily Census Swing-SNF Beds
- Average Daily Census Acute Beds

Market Characteristics

- Market Population
- Market Income
- Market Poverty Rate
- Distance to Larger Hospital
- Market Share

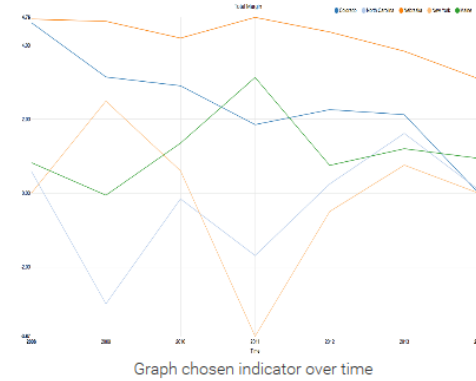


Bar Chart



Bar Chart

Line Chart



Line Chart

Create custom group(s) to compare:

Custom Group Name:

State:

Net Patient Revenue:

Rural Health Clinic:

Long-Term Care:

Government Owned:

Data from Year:

Custom Group Name:

State:

Net Patient Revenue:

Rural Health Clinic:

Long-Term Care:

Government Owned:

Data from Year:

Comparison Groups:

Kansas

Geography: state
State: KS
Net Patient Revenue: All
Rural Health Clinic: All
Long Term Care: All
Government Owned: All
Year: 2013

Nebraska

Geography: state
State: NE
Net Patient Revenue: All
Rural Health Clinic: All
Long Term Care: All
Government Owned: All
Year: 2013

Draw Graph Save Data as CSV

Days Cash on Hand

