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CAHMPAS Updates to Help Inform Your Workplan

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July 18, 2018 | Flex Program Reverse Site Visit

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Learning Objectives

At the end of this session, participants will be able to:

- Describe and interpret new financial data features available in CAHMPAS.
- Understand how to use CAHMPAS to identify hospitals or areas that may benefit from financial or operational performance improvement interventions.
- Contribute feedback and ideas for strengthening and enhancing CAHMPAS to better meet user needs.



Why CAHMPAS ?

Critical Access Hospital Measurement & Performance Assessment System



INFORMATION for

- Benchmarking
- Identifying trends
- Identifying hospitals at risk of financial distress
- Identifying potential opportunities for intervention
- A FRAMEWORK for
- Discussions with hospitals
- Real-time data collection

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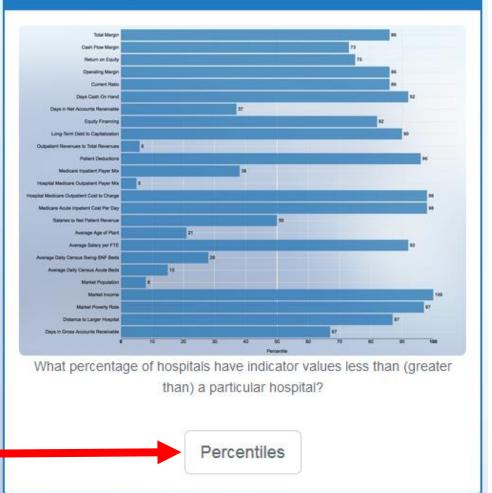
Learning Objective #1 Describe and interpret new financial data features available in CAHMPAS.



I. The Hospital Dashboard

All of the indicators for a given hospital displayed on a single screen.

For most indicators, the percentile value tells you what percentage of hospitals in the sample have values for a given indicator that are "worse" than the given hospital.



Compare Relative Position of All Indicators

Using the Dashboard

Choose a hospital							
Show 10 💌	entries		Search:				
CAHID	Name	City	CMS ID	Action			
01001	Hospital 01001	City 01001	1001	View Dashboard			
01002	Hospital 01002	City 01002	1002	View Dashboard			
01003	Hospital 01003	City 01003	1003	View Dashboard			
01004	Hospital 01004	City 01004	1004	View Dashboard			
01005	Hospital 01005	City 01005	1005	View Dashboard			
01006	Hospital 01006	City 01006	1006	View Dashboard			
01007	Hospital 01007	City 01007	1007	View Dashboard			
01008	Hospital 01008	City 01008	1008	View Dashboard			
01009	Hospital 01009	City 01009	1009	View Dashboard			
01010	Hospital 01010	City 01010	1010	View Dashboard			
Showing 1 to 10 o	f 1,376 entries						
		Previous	1 2 3 4 5	138 Next			

Using the Dashboard, cont.

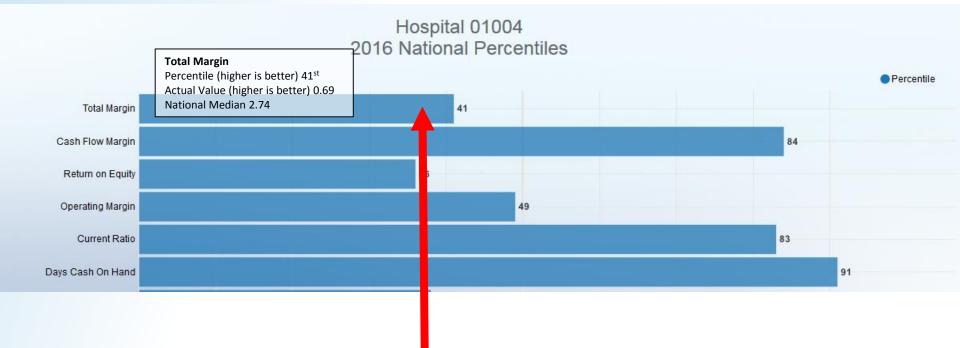


This partial dashboard provides a visual display of Hospital 01004's performance on two selected indicators in 2016 relative to CAHs nationally.

The hospital's total margin is below the median (the 50th percentile), meaning they are in the lower half of profitability compared to hospitals nationally. However, their cash flow margin is at the 84th percentile, meaning their performance on that indicator is in the top quarter of hospitals nationally.

It is important to note that a percentile only tells you where a hospital fits in a distribution when values are ordered. Being below the median does not necessary indicate "poor" performance, and for indicators with tight distributions, actual values could be very close to each other. It is important to look not only at the percentile, but also at the indicator value.

Using the Dashboard, again



Scrolling over each bar will give you a pop-up box with the percentile, information about whether a higher or lower value signals stronger performance, the actual indicator value and the comparator indicator value.

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Using the Dashboard Controls

Scope						
National						
Ver						
Year						
2016 🔻						
Domains						
 Profitability Liquidity Capital Structure Revenue 						
Clear All Select All						
Actions						
Refresh Change Hospital Save Image						

A series of dashboard controls allow you to select:
1. The scope for comparison – national or state
2. The data year you wish to view
3. The indicator domains you wish to view
4. A different hospital to view

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II. The Financial Distress Index

The financial distress risk category for each hospital in your state over time.

The financial distress model predicts the risk of financial distress two years in the future. Unlike the financial indicators, it is more current. It is an estimate of where a hospital may be now.

View Financial Distress Index

Name	2010	2011	2012	2013	2014	2015	2016
Sample Hospital #10							
Sample Hospital #35							
Sample Hospital #34							
Sample Hospital #9							
Sample Hospital #21							
Sample Hospital #20							
Sample Hospital #14							
Sample Hospital #39							
Sample Hospital #33							
Sample Hospital #8							
Sample Hospital #32							
Sample Hospital #7							
Sample Hospital #16							
Sample Hospital #41							
Sample Hospital #3							
Sample Hospital #30							
Sample Hospital #5							
Sample Hospital #15							
Sample Hospital #40							
Sample Hospital #13							
Sample Hospital #38							
Sample Hospital #22							
Sample Hospital #2							
Sample Hospital #11							
Sample Hospital #36							
Sample Hospital #4							
Sample Hospital #43							
Sample Hospital #31							
Sample Hospital #6							

What is the financial distress index for a given hospital?

Financial Distress Index

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Using the Financial Distress Index

Name	2012	2013	2014	2015	2016	2017	2018
Hospital 10001							
Hospital 10012							
Hospital 10011							
Hospital 10013							
Hospital 10004							
Hospital 10006							
Hospital 10003							
Hospital 10008							
Hospital 10005							
Hospital 10014							
Hospital 10009							
Hospital 10010							
Hospital 10002							
Hospital 10007							

Low risk = Green; Medium-low risk = Yellow Medium-high risk = Orange; High risk = Red Missing = Gray

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III. The Reporting Feature

Download all financial data into an EXCEL spreadsheet.

The reporting feature allows you to download data so that you can add more current data, share data with others, and/or produce your own graphs, charts or reports.

Download Hospital Data

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2	85	\$\$001	2010	55	10-20m	Has LTC	No RHC	Govt	-5.5705588162	0.3171664075	2,6439450354	1.0543746
3		\$\$001	2011		10-20m	Has LTC	No RHC	Govt	9.0795158549	2.2441762814	6.1131825464	6.6256944
4		\$\$001	2012		10-20m	Has LTC	No RHC	Govt	6.4946221435	0.0389962732	3.5339591386	0.1155674
5		55001	2013		10-20m	Has LTC	No RHC	Govt	-13.2180987129	5.6692263120	9.8507572432	18.949612
6		\$5001	2014		10-20m	Has LTC	No RHC	Govt	9.5489884244	2.6126803733	7.0266958028	9.9889260
7		\$\$001	2015		10-20m	Has LTC	No RHC	Govt	-0.6921997424	5.3450249944	1.7605392238	17.552040
8		\$\$003	2010		Under 30m	No LTC	No RHC	Govt	9.4228533087	4.4965542842	5.9802975292	999.00000
9		\$\$003	2011		Under 30m	No LTC	No RHC	Govt	12.7473027090	12.7473027090	16.3123958717	999.00000
30		\$\$003	2012		Under 10m	No LTC	No RHC	Govt	2.0626557699	2.0626557699	6.9961119364	999.00000
11		\$\$003	2013		Under 30m	No LTC	No RHC	Govt	12.4276180931	12.4276180931	7.5461124514	999.00000
12	- 55	\$5003	2014		Under 10m	NOLTE	Has RHC	Govt	-11.4119721807	11.2187624492	7.3286616772	\$999.00000
13		\$\$003	2015						999.0000000000	999.0000000000	999.000000000	999.00000
14		\$\$005	2010				No RHC	Nongovt	-999.0000000000	999.000000000	-999.000000000	-999.00000
15		\$\$005	2011			-	No RHC	Nongovt	-999.0000000000	999.0000000000	999.0000000000	999.00000
16		\$\$005	2012						5999.0000000000	999.0000000000	999.000000000	999.00000
17		\$\$005	2013		10-20m	No LTC	Has RHC	Nongovt	15.2681591817	0.1449529909	10.9259795248	999.00000
18		\$\$005	2014		10-20m	NotifC	Has RHC	Nongovt	3.7025938112	5.7025938112	27.5547540909	999.00000
19		\$\$005	2015		10-20m	NOLTE	Has RHC	Nongovt	6.2191720422	6.2191720422	22.1440342915	999.00000
20	_	55006	2010		10-20m	No LTC	No RHC	Nongovt	16.8349979712	-16.8346409317	9.2274812668	-999.00000
21		\$5006	2011		10-20m	NOLTC	No RHC	Nongovt	20.2251776047	20.1958074507	12.6383356445	999.00000
22		\$\$006	2012		10-20m	No LTC	No RHC	Nongovt	16.9746837438	15.3669865703	7.2742044542	999.00000
23		\$\$006	2014		10-20m	No LTC	No RHC	Nongovt	1.1193050275	1.1193050275	1.1193050275	1.8718611
24	207	\$\$006	2015	55	10-20m	No LTC	No RHC	Nongovt	5.9972816648	5.9972816648	3.9972816648	15.661366
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Using the Reporting Feature

Report Generator

This feature allows you to generate and download a .csv report of custom data. Each row in the download represents a single hospital/year. Any value of -999 means that the data is missing for that hospital/year.

Use the filters below to choose which hospitals/years to include in this report. If you are currently logged in as a state user, this report will only include hospitals in your state.

Please note that larger data sets may take up to a minute to download.

State:	
AL	^
AK	
AZ	
AR	
Net Patient Revenue:	
All	•
Rural Health Clinic:	
All	-
Long Term Care:	
All	•
Government Owned:	
All	•
Include Years:	
☑ 2010 ☑ 2011 ☑ 2012 ☑ 2013 ☑ 2014 ☑ 2015 ☑ 2016 ☑ 2017	
Developed Devel	
Download Report	

You will only see your state. You can choose to filter by peer group factors and by year, or you can simply download all data.

The workbook includes two tabs. The first provides the indicator values. The second provides the longer indicator names and the indicator definitions to help you interpret the data.

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Learning Objective #2 Understand how to use CAHMPAS to identify hospitals or areas that may benefit from financial or operational performance improvement interventions.

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Identifying Hospitals in Need

The financial distress index is a good place to start. Look for:

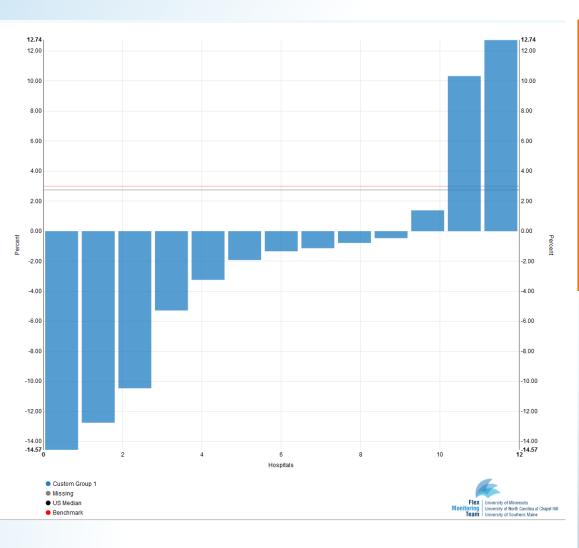
- 1. Hospitals at high risk
- Hospitals with persistently higher risk levels (medium-high or high)
- 3. Hospitals whose risk level seems to be trending higher over time

Use the dashboard feature to get a snapshot of each hospital's performance across the indicators. Use the line graph feature to examine each hospital's performance on a given indicator over time.

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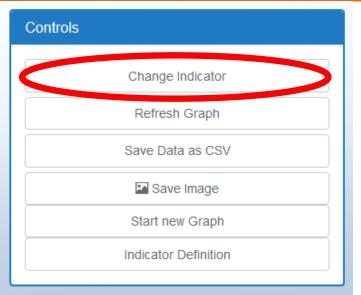
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Identifying Indicators Where Performance Suggests Common Needs



The bar graph feature can be helpful. Look for indicators where many hospitals are performing below the national median and/or below benchmark.

The "Change Indicator" control button allows you to quickly move through different indicators.



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The "Top 10" Indicators¹

- Days in Net Accounts Receivable
- Days in Gross Accounts Receivable
- Days Cash on Hand
- Total Margin
- Operating Margin
- Debt Service Coverage
- Salaries to Net Patient Revenue
- Medicare Inpatient Payer Mix
- Average Age of Plant
- Long-term Debt to Capitalization

1 National Rural Health Resource Center. Critical Access Hospital Finance 101. Updated June 2017. Available at:

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0ahUKEwj h9Pi4geDbAhUPvlkKHR1GBf0QFggvMAE&url=https%3A%2F%2Fwww.ruralcenter.org%2F sites%2Fdefault%2Ffiles%2FCAH%2520Finance%2520101%2520Manual%2520June%252 02017.pdf&usg=AOvVaw2zbOVGtHRQ2MpArJR9HnFK.

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Additional Considerations for Interpreting and Using CAHMPAS Data

It is important to understand:

- System membership may affect financial indicator values for certain hospitals
- Participation in alternative payment models incentives under different payment models warrant different interventions
- County subsidies these are not discernable from the financial indicator data



Limits of CAHMPAS Financial Indicators

Help to identify:

- Questions to ask
- Issues to address
- Problems to solve

Do not necessarily provide:

- Answers
- Explanations
- Solutions

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Developing the Workplan

Analyses may be more informed if financial data are supplemented with hospital operating metrics such as:

- Revenue cycle metrics (e.g., denials rates)
- Staffing productivity data (e.g., paid hours per unit of service)
- Volume data (e.g., Emergency Department (ED) visits, outpatient visits, inpatient days, swing bed days)
- Charges
- Service line data (e.g., surgery volumes & types)
- Physician relationships and availability
- Bypass rates

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Potential State Flex Coordinators (SFC) Actions

- Consultation
- Education
- Learning collaboratives*
- Facilitation
- Policy advocacy

*Sharing transparent data and best practices may be helpful if hospitals

agree

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Monitoring Outcomes

Different interventions will affect different metrics at varying time intervals. Important to link interventions to desired outcomes, to assess feasibility of seeing effects in the short-term, and to understand other factors that may affect metrics.

Example Intervention Target	Example Outcome Metric(s)
Revenue cycle	Days in Accounts Receivable (A/R)
Staffing productivity	Salaries to net patient revenue
Chargemaster review	Revenue; operating margin



Learning Objective #3 Contribute feedback and ideas for strengthening and enhancing CAHMPAS to better meet user needs.

Planned Enhancements

- We are working hard to develop a process for providing quarterly financial data updates.
- We are developing a series of technical assistance videos, FAQs, instructional pdfs and other materials to help users understand CAHMPAS and its features.

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How have you used CAHMPAS?

Where should CAHMPAS go next?



Questions / Comments:



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Thank you!

This work was supported by the Federal Office of Rural Health Policy (FORHP), Health Resources and Services Administration (HRSA), U.S. Department of Health and Human Services (HHS) under cooperative agreement # U27RH01080. The information, conclusions and opinions expressed in this presentation are those of the authors and no endorsement by FORHP, HRSA, or HHS is intended or should be inferred.

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Resources

- GM Holmes, BG Kaufman and GH Pink. Predicting Financial Distress in Rural Hospitals. *Journal of Rural Health*, Summer 2017; 33(3): 239-249.
 <u>https://www.ncbi.nlm.nih.gov/pubmed/?term=Predict</u> <u>ing+Financial+Distress+in+Rural+Hospitals</u>
- Prediction of Financial Distress among Rural Hospitals (January 2016) Kaufman B, Pink G, Holmes, M. FB126. <u>http://www.shepscenter.unc.edu/download/12524/</u>