

# 50 TOP CARDIOVASCULAR HOSPITALS NATIONAL BENCHMARKS REPORT, 2012

PERFORMANCE REPORT PREPARED FOR:

Sample Hospital

City, ST

MEDICARE ID: 999999



THOMSON REUTERS

## REPORT NOTES

### Comparison Groups

So that we can compare your hospital with others most like it, we assign each hospital to one of three comparison groups according to size, teaching status, and residency/fellowship program involvement:

- Teaching hospitals with cardiovascular residency programs (CARDIO TEACHING)
- Teaching hospitals without cardiovascular residency programs (TEACHING)
- Community hospitals (COMMUNITY)

### Benchmark and Peer Groups

In the Thomson Reuters 50 Top Cardiovascular Hospitals study, we select 50 **Benchmark hospitals** (winners) based on overall performance in the most recent year of data available:

CARDIO TEACHING	15
TEACHING	20
COMMUNITY	15

**Peer group hospitals** include all U.S. hospitals in our study database, *excluding* benchmark hospitals.

In this custom report, we provide two types of comparisons:

- profiled hospital versus comparison group Benchmark hospitals
- profiled hospital versus comparison group Peer hospitals

### Patient Groups and Measure Ranking

We include data for acute myocardial infarction (AMI), heart failure (HF), coronary artery bypass graft (CABG) and percutaneous coronary intervention (PCI) patients in our analysis. Each measure category has equal weight in ranking, regardless of the number of patient group measures it includes.

Measure Category	Pt Groups	Measure Category	Pt Groups
Medical Mortality	AMI, HF	% CABG with IMA	CABG
Surgical Mortality	CABG, PCI	30 Day Measures	AMI, HF
Complications	All	Avg Length of Stay	All
Core Measures	AMI, HF	Cost per Case	All

### Public Data Sets Used

Measures	Public Data Sources
Mortality, Complications	MedPAR Federal Fiscal Yr 2009-10
ALOS, Cost per Case	MedPAR FFY 2010
Core Measures	CMS Hospital Compare (CMSHC) 2009Q4-2010Q1Q2Q3
30 Day Mortality	CMSHC July 1, 2007-June 30, 2010
30 Day Readmissions	CMSHC July 1, 2007-June 30, 2010
Cost to Charge Ratio	Medicare Cost Report FY10 or FY09

### Use of Median Values

- When individual core measures, 30 day mortality or 30 day readmission rates are missing or the reported value is insufficiently precise (patient count too low), we substitute class median values for the hospital value(s). We do this to allow overall ranking of the hospital.

### Missing Data or Incalculable Data Points

- No bar is displayed for the profiled hospital if values were not reported, are incalculable, or where the median was used.
- If a hospital was excluded from the study for missing or incalculable performance measures, we note the details at the end of the report.

### Winner Exclusions

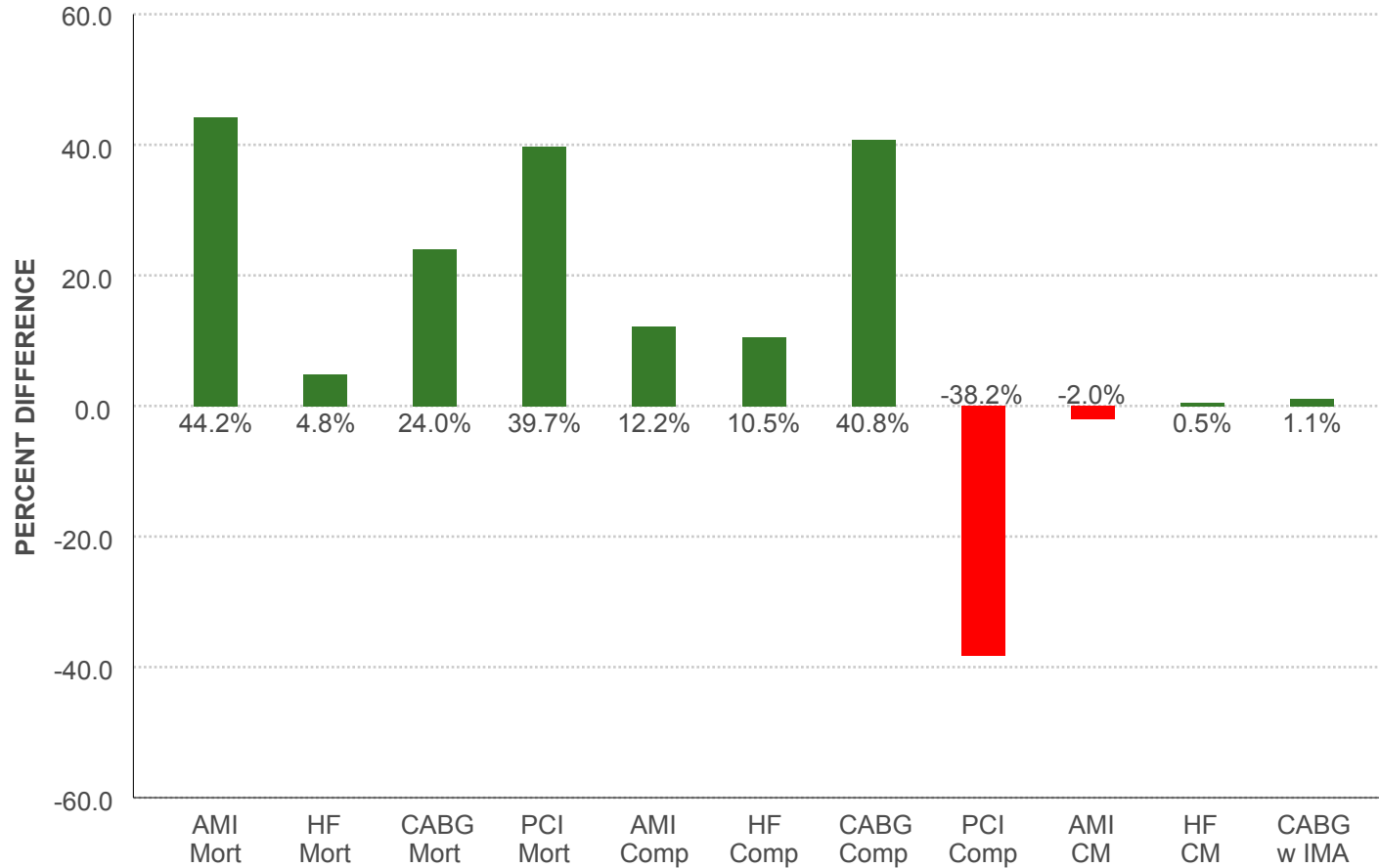
- If a hospital was not eligible to be a winner due to statistically poor performance in mortality or complications (95% confidence), or
- If a hospital was not eligible to be a winner because it had one or more outliers (interquartile range methodology) for wage- and severity-adjusted cost per case, we note the details at the end of the report.

### FOR MORE INFORMATION

**For a Study Abstract, with full details on performance measures, methods used and winner list, visit [www.100tophospitals.com](http://www.100tophospitals.com).**

PROFILED HOSPITAL COMPARED WITH TOP 15 COMMUNITY HOSPITALS<sup>1</sup>

CLINICAL OUTCOME AND PROCESS MEASURES



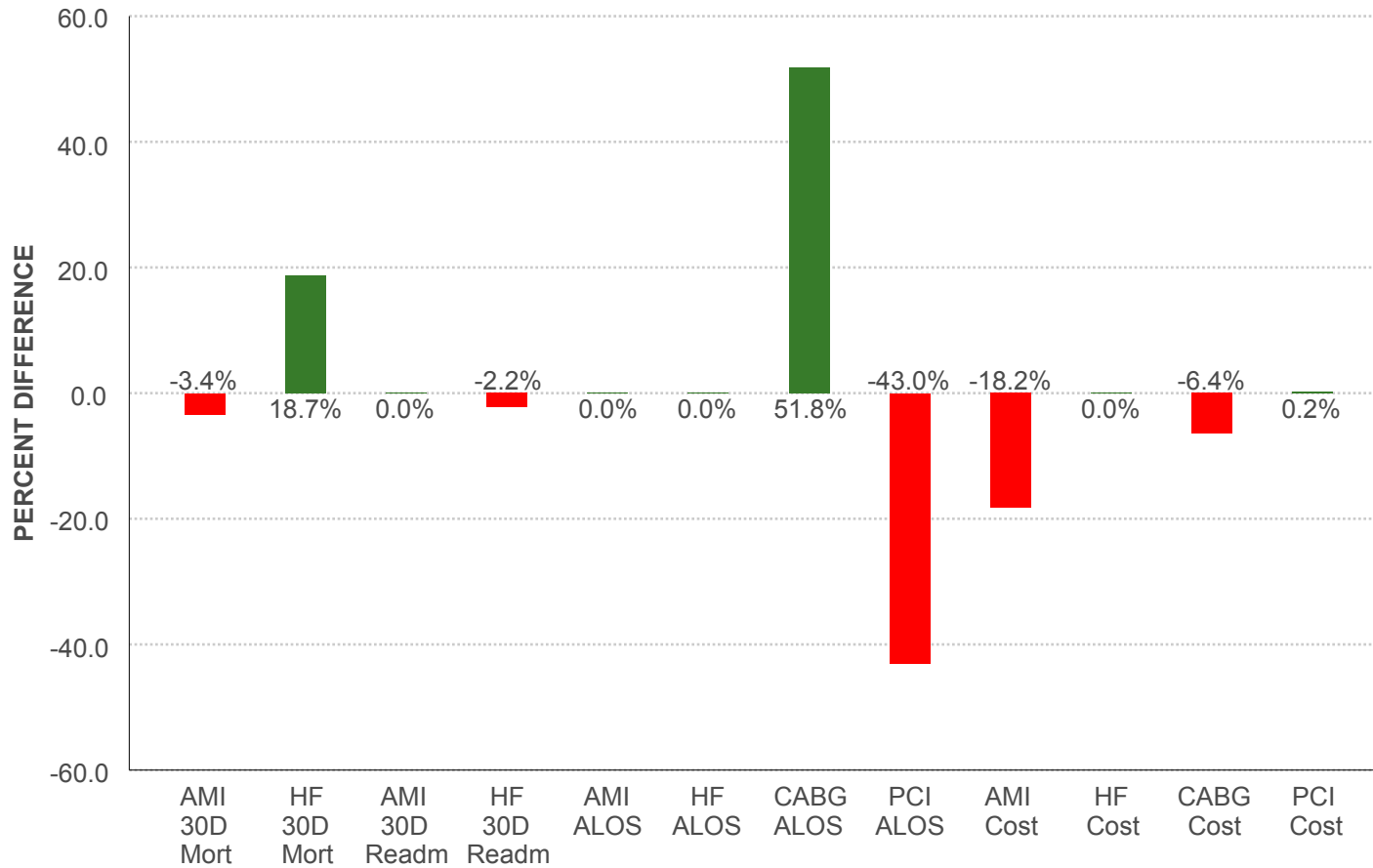
**ABBREVIATION KEY:**

- AMI Mort AMI Severity-Adjusted Mortality Index
- HF Mort HF Severity-Adjusted Mortality Index
- CABG Mort CABG Severity-Adjusted Mortality Index
- PCI Mort PCI Severity-Adjusted Mortality Index
- AMI Comp AMI Severity-Adjusted Complications Index
- HF Comp HF Severity-Adjusted Complications Index
- CABG Comp CABG Severity-Adjusted Complications Index
- PCI Comp PCI Severity-Adjusted Complications Index
- AMI CM AMI Core Measures Mean Percent
- HF CM HF Core Measures Mean Percent
- CABG w IMA CABG with Internal Mammary Artery Use (%)

<sup>1</sup>Percent difference from benchmark median.

PROFILED HOSPITAL COMPARED WITH TOP 15 COMMUNITY HOSPITALS<sup>1</sup>

EXTENDED OUTCOME, ALOS, AND COST PER CASE MEASURES



**ABBREVIATION KEY:**

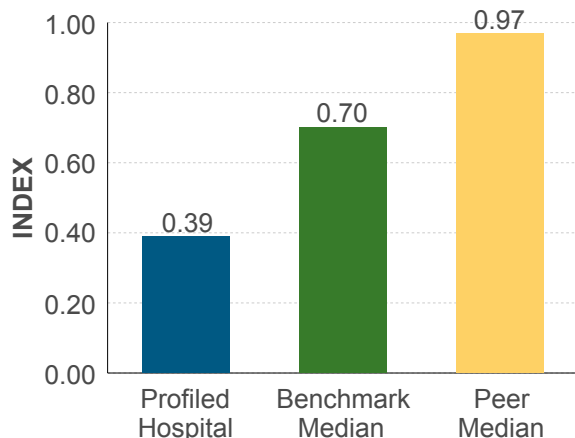
AMI 30D Mort	AMI 30-Day Mortality Rate
HF 30D Mort	HF 30-Day Mortality Rate
AMI 30D Readm	AMI 30-Day Readmission Rate
HF 30D Readm	HF 30-Day Readmission Rate
AMI ALOS	AMI Severity-Adjusted Average Length of Stay
HF ALOS	HF Severity-Adjusted Average Length of Stay
CABG ALOS	CABG Severity-Adjusted Average Length of Stay
PCI ALOS	PCI Severity-Adjusted Average Length of Stay
AMI Cost	AMI Wage & Severity-Adjusted Cost/Case
HF Cost	HF Wage & Severity-Adjusted Cost/Case
CABG Cost	CABG Wage & Severity-Adjusted Cost/Case
PCI Cost	PCI Wage & Severity-Adjusted Cost/Case

<sup>1</sup>Percent difference from benchmark median.

## PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

### AMI PATIENTS

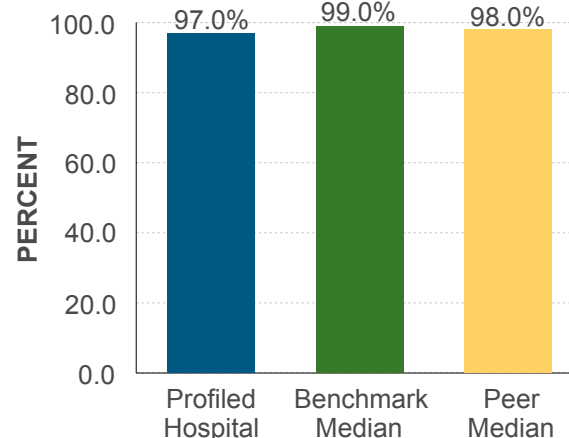
#### RISK-ADJUSTED MORTALITY INDEX



Profiled hospital is statistically BETTER THAN expected. (95% confidence)

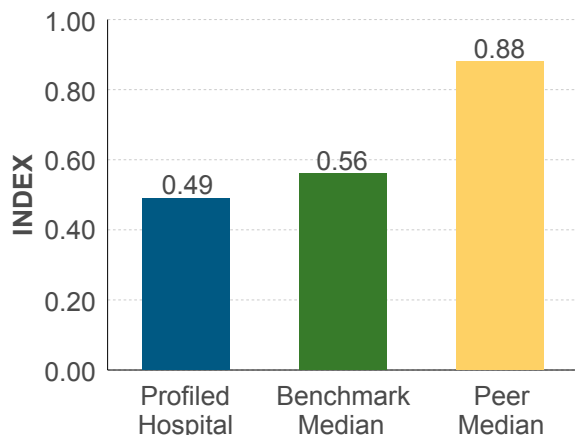
▼ DESIRED DIRECTION

#### CORE MEASURES MEAN PERCENT



▲ DESIRED DIRECTION

#### RISK-ADJUSTED COMPLICATIONS INDEX



Profiled hospital is statistically AS expected. (95% confidence)

▼ DESIRED DIRECTION

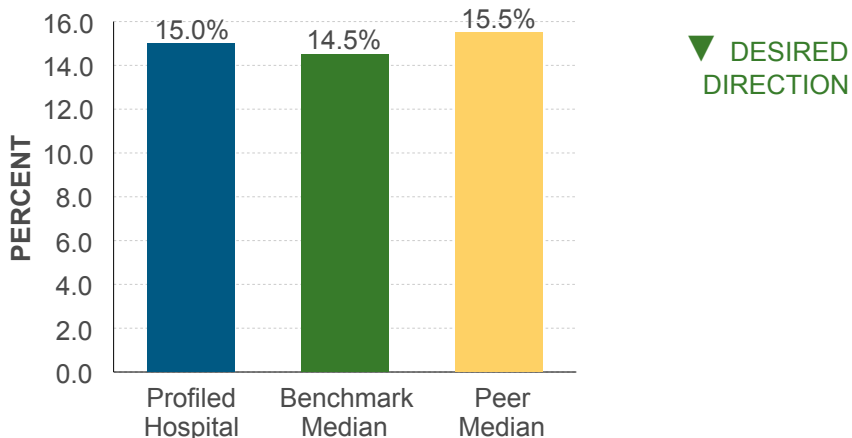
<sup>1</sup> Benchmark Hospitals are the winners in the comparison group: n=15

<sup>2</sup> Peer Hospitals are the non-winners in the comparison group: n=523

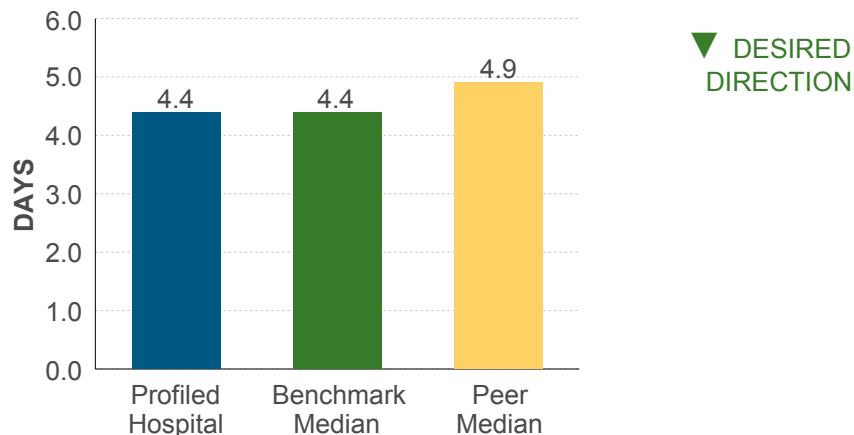
PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

AMI PATIENTS

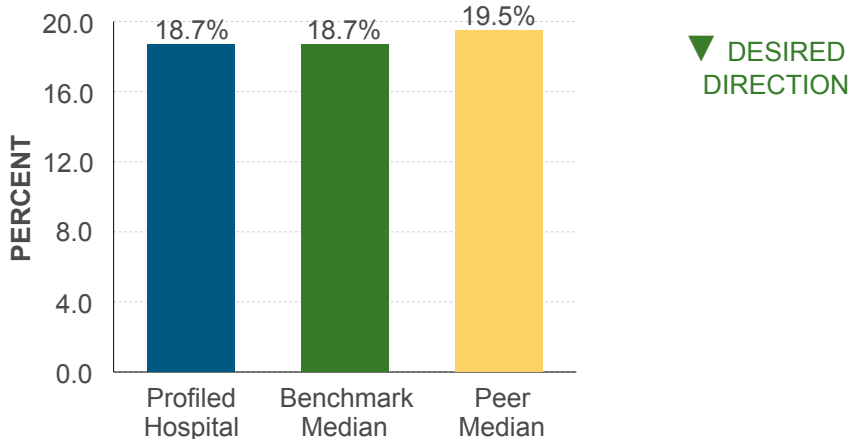
30-DAY MORTALITY RATE (%)



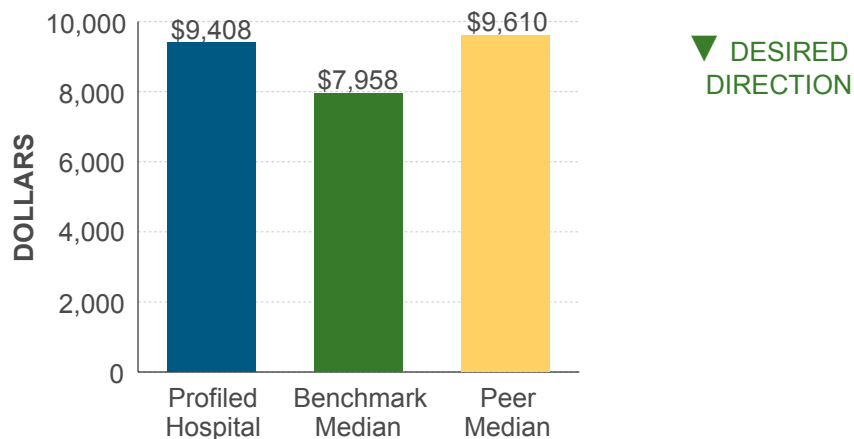
SEVERITY-ADJUSTED AVERAGE LENGTH OF STAY



30-DAY READMISSION RATE (%)



WAGE- AND SEVERITY-ADJUSTED COST PER CASE



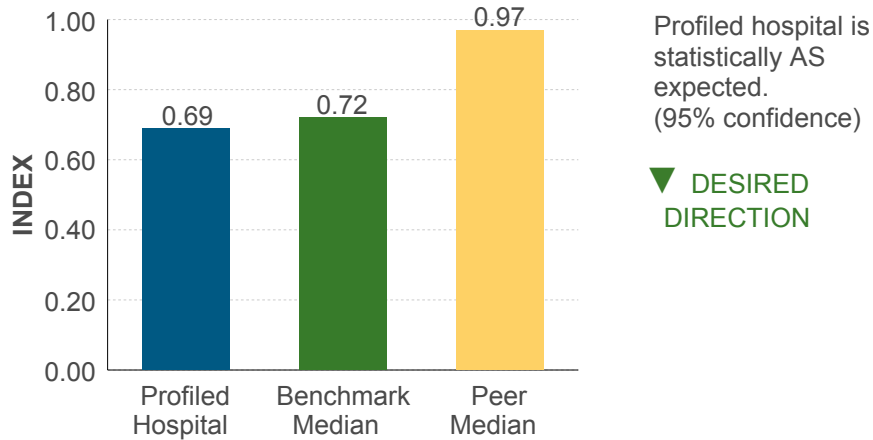
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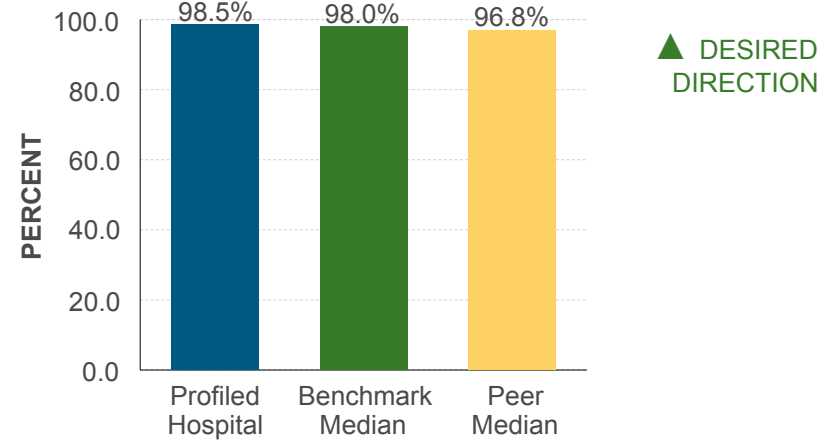
PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

HF PATIENTS

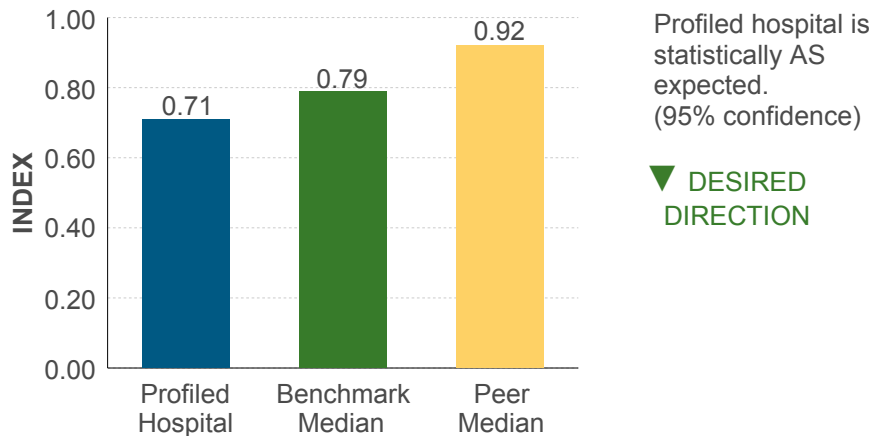
RISK-ADJUSTED MORTALITY INDEX



CORE MEASURES MEAN PERCENT



RISK-ADJUSTED COMPLICATIONS INDEX



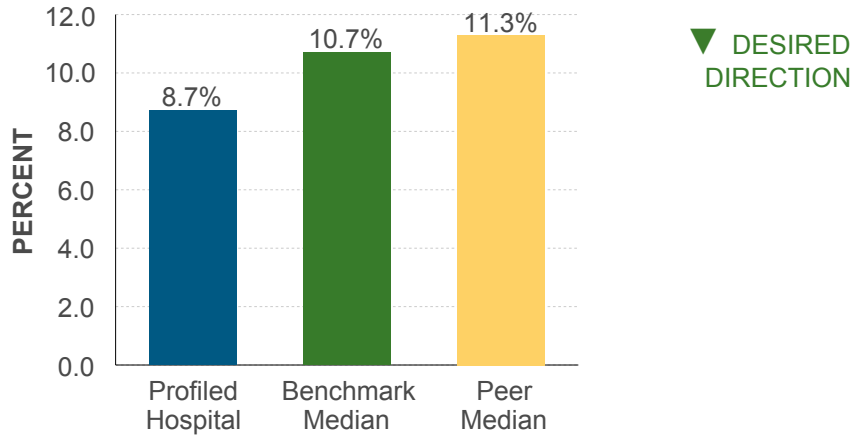
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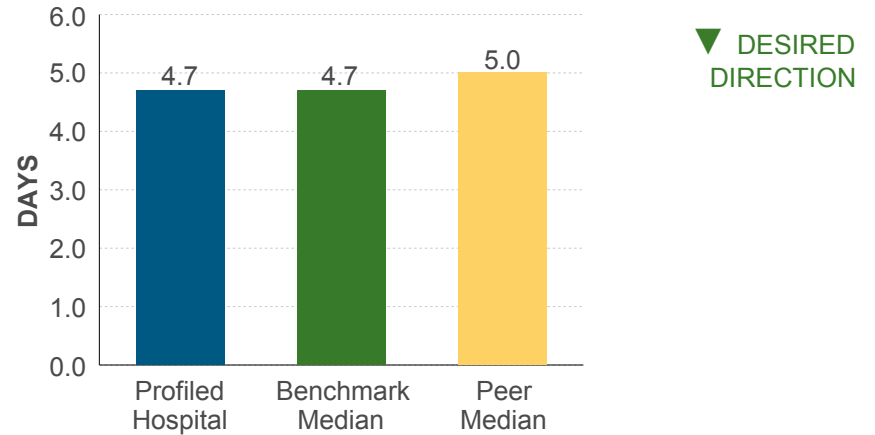
PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

HF PATIENTS

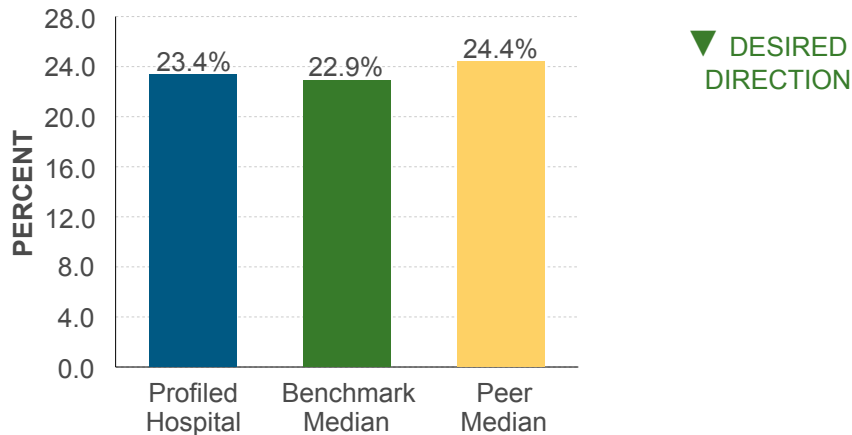
30-DAY MORTALITY RATE (%)



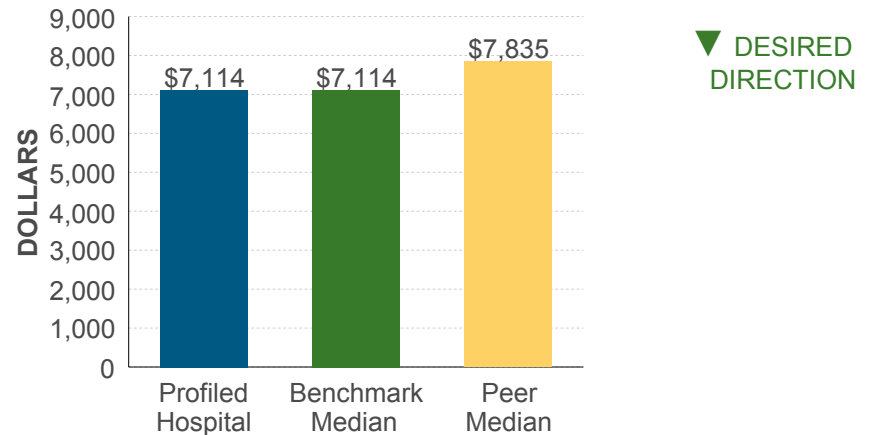
SEVERITY-ADJUSTED AVERAGE LENGTH OF STAY



30-DAY READMISSION RATE (%)



WAGE- AND SEVERITY-ADJUSTED COST PER CASE



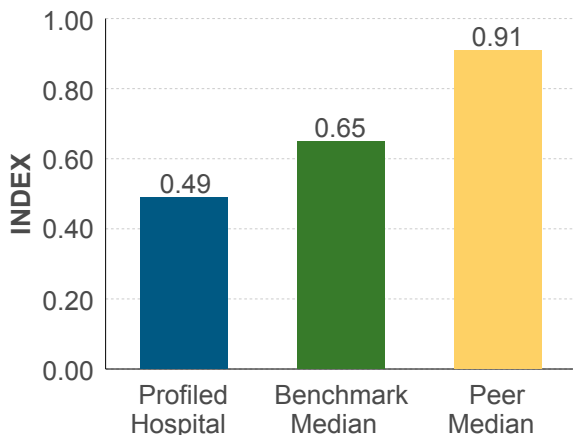
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PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

CABG PATIENTS

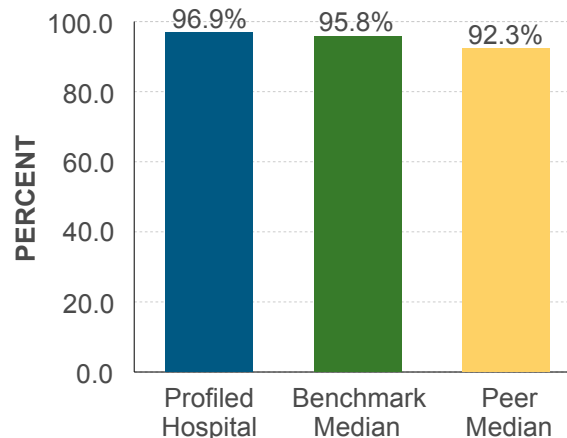
RISK-ADJUSTED MORTALITY INDEX



Profiled hospital is statistically AS expected. (95% confidence)

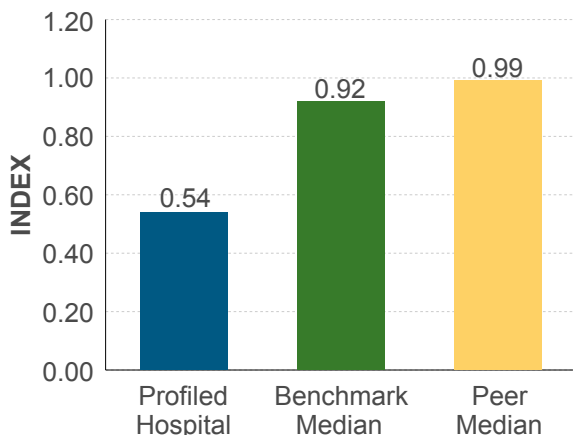
▼ DESIRED DIRECTION

CABG w INTERNAL MAMMARY ARTERY USE (%)



▲ DESIRED DIRECTION

RISK-ADJUSTED COMPLICATIONS INDEX



Profiled hospital is statistically AS expected. (95% confidence)

▼ DESIRED DIRECTION

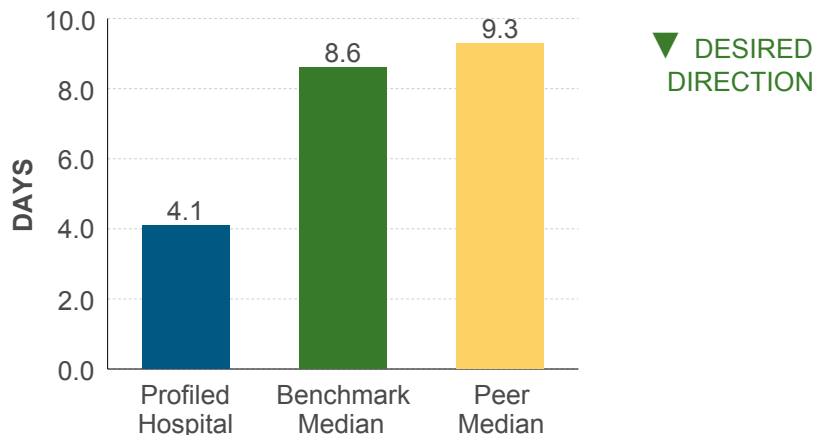
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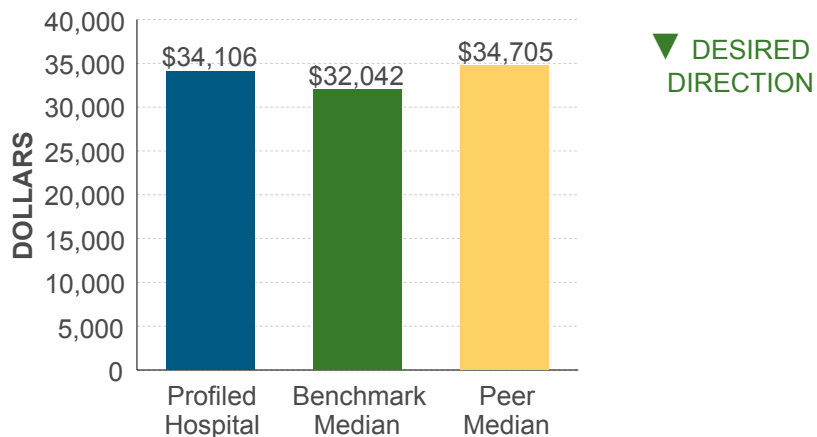
## PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

### CABG PATIENTS

#### SEVERITY-ADJUSTED AVERAGE LENGTH OF STAY



#### WAGE- AND SEVERITY-ADJUSTED COST PER CASE



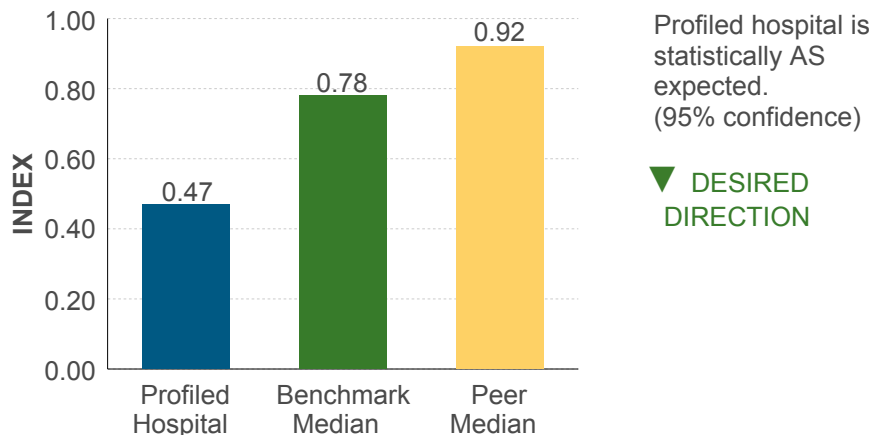
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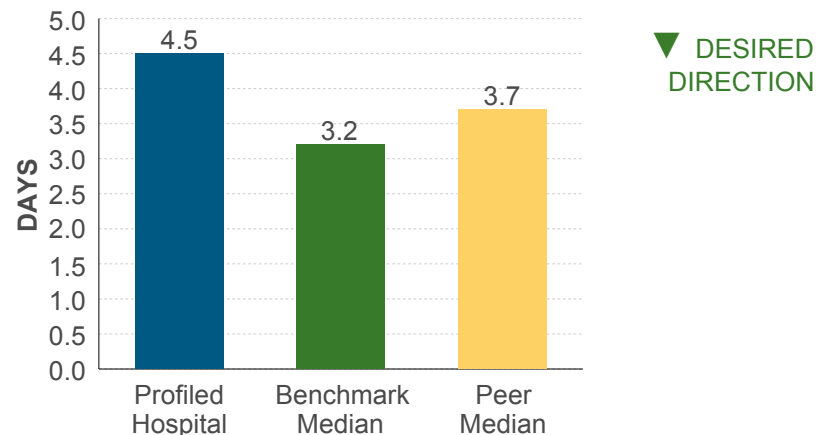
## PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

### PCI PATIENTS

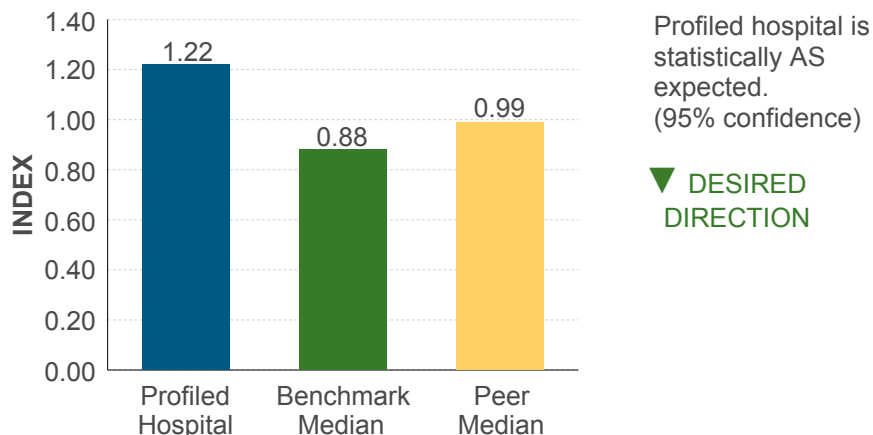
#### RISK-ADJUSTED MORTALITY INDEX



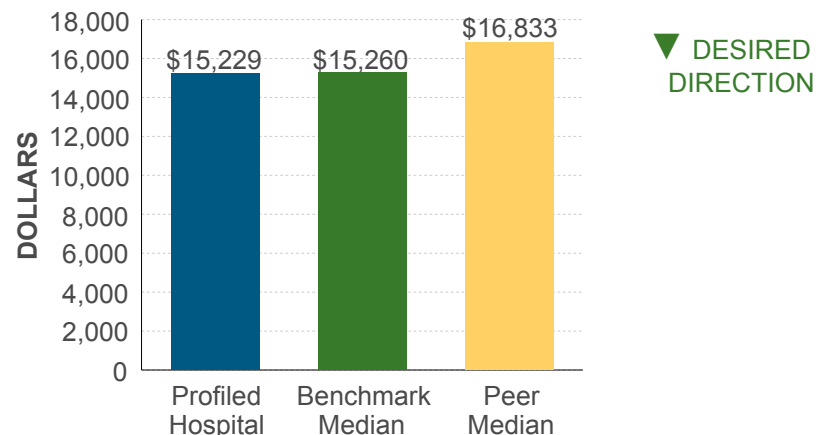
#### SEVERITY-ADJUSTED AVERAGE LENGTH OF STAY



#### RISK-ADJUSTED COMPLICATIONS INDEX



#### WAGE- AND SEVERITY-ADJUSTED COST PER CASE

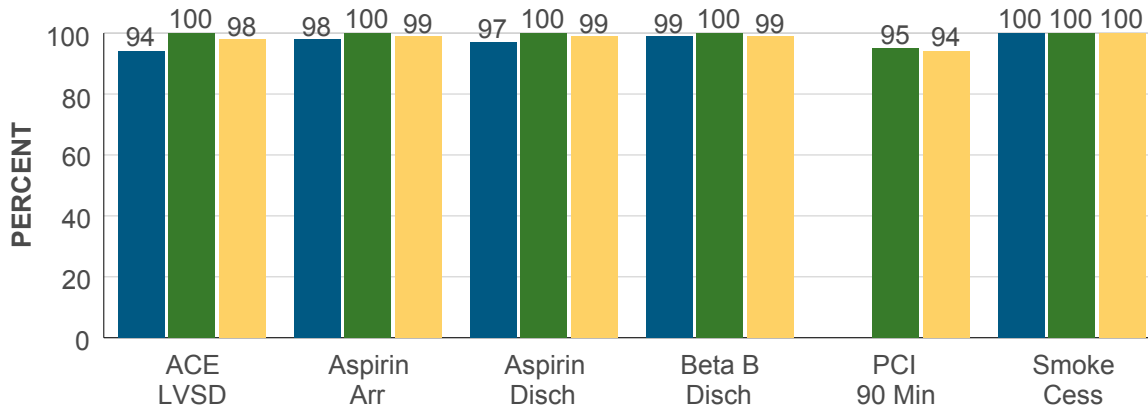


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## PROFILED HOSPITAL COMPARED WITH COMMUNITY BENCHMARK<sup>1</sup> AND PEER<sup>2</sup> HOSPITALS

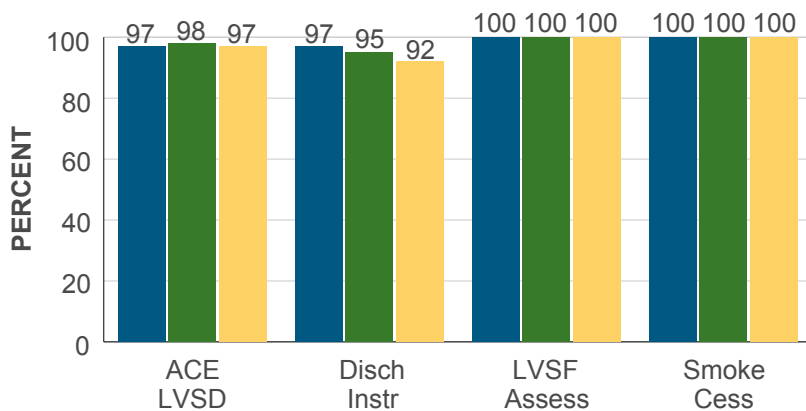
### AMI CORE MEASURES



#### AMI ABBREVIATION KEY:

- ACE LVSD Heart attack patients given ACE inhibitor or ARB for Left Ventricular Systolic Dysfunction (LVSD)
- Aspirin Arr Heart attack patients given aspirin at arrival
- Aspirin Disch Heart attack patients given aspirin at discharge
- Beta B Disch Heart attack patients given beta blocker at discharge
- PCI 90 Min Heart attack patients given PCI within 90 minutes of arrival
- Smoke Cess Heart attack patients given smoking cessation counseling

### HF CORE MEASURES



#### HF ABBREVIATION KEY:

- ACE LVSD Heart failure patients given ACE inhibitor or ARB for Left Ventricular Systolic Dysfunction (LVSD)
- Disch Instr Heart failure patients given discharge instructions
- LVSF Assess Heart failure patients given an evaluation of Left Ventricular Systolic Function (LVSF)
- Smoke Cess Heart attack patients given smoking cessation counseling

- Profiled Hospital
- Benchmark Median
- Peer Median
- ▲ DESIRED DIRECTION

<sup>1</sup> Benchmark Hospitals are the winners in the comparison group: n=15

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