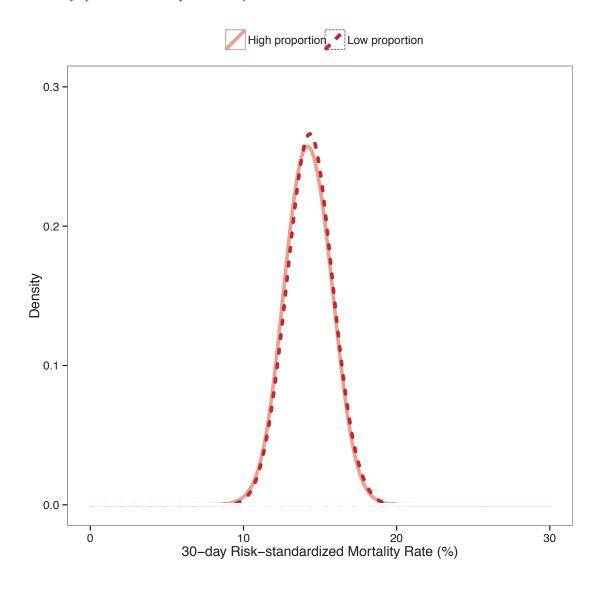
▶ Performance on the acute myocardial infarction mortality measure: **Hospitals that serve high** and low proportions of African-American patients.

The Centers for Medicare & Medicaid Services (CMS) periodically investigates select hospital practices that may impact a hospital's performance on the following mortality measure: hospital-level 30-day risk-standardized mortality rate (RSMR) following acute myocardial infarction (AMI) [1]. The AMI mortality measure includes Medicare fee-for-service (FFS) and Veterans Health Administration (VA) beneficiaries aged 65 or older [2]. The AMI mortality measure assesses the occurrence of death for any cause within 30 days after hospital admission for AMI [2]. The AMI mortality measure has been publicly reported on Hospital Compare since 2007 and has been included in the Hospital Value-Based Purchasing (HVBP) Program since 2013 [3].

**FIGURE 1** Distributions of AMI RSMRs (%) for hospitals with the lowest and highest proportions of African-American patients, July 2011-June 2014.



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Variation in RSMRs reflects differences in performance among hospitals; lower RSMRs suggest better quality, and higher RSMRs suggest worse quality. To understand the impact of caring for African-American patients, we examined RSMRs among hospitals with high and low proportions of African-American patients. Therefore, we compared the AMI RSMRs for the 244 hospitals with the lowest overall proportion of African-American Medicare FFS patients (0% of a hospital's Medicare FFS patients) to the 245 hospitals with the highest overall proportion of African-American Medicare FFS patients (≥ 23.7% of a hospital's Medicare FFS patients) for the July 2011 − June 2014 reporting period. Hospitals with the lowest and highest proportions of African-American patients are designated as those that fall within the lowest and highest deciles of all hospitals with 25 or more qualifying admissions, respectively. The proportion of African-American Medicare FFS patients for each hospital was determined using the Medicare Part A Inpatient Claims from 2013. All hospitals with 0% African-American patients were included in the lowest decile. To ensure accurate assessment of each hospital, the AMI mortality measure uses a statistical model to adjust for key differences in patient risk factors that are clinically relevant and that have a strong relationship with the mortality outcome [2]. Please note that VA hospitals are not included in this analysis.

**TABLE I** Distributions of AMI RSMRs (%) for hospitals with the lowest and highest proportions of African-American patients, July 2011-June 2014.

## AMI RSMR (%) Lowest proportion (0%) Highest proportion (≥ 23.7%) African-American patients; African-American patients; n = 244n = 24517.5 17.9 Maximum 90% 16.0 15.8 75% 15.2 15.1 Median (50%) 14.3 14.2 25% 13.5 13.4 10% 12.7 12.7 11.5 10.4 Minimum

The median AMI RSMR for hospitals with the highest proportion of African-American patients was 14.2% (interquartile range [IQR]: 13.4%-15.1%). The median AMI RSMR for hospitals with the lowest proportion of African-American patients was 14.3% (IQR: 13.5%-15.2%; Figure 1 and Table 1).

Hospitals with the lowest proportion of African-American patients had a median AMI RSMR that was 0.1 percentage points higher than that of hospitals with the highest proportion.

- 1. Medicare Hospital Quality Chartbook 2014: Performance Report on Outcome Measures. Prepared by Yale New Haven Health Services Corporation Center for Outcomes Research and Evaluation for the Centers for Medicare and Medicaid Services 2014; <a href="http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Downloads/Medicare-Hospital-Quality-Chartbook-2014.pdf">http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Downloads/Medicare-Hospital-Quality-Chartbook-2014.pdf</a>. Accessed 16 June 2015.
- 2. Dorsey K, Grady J, Desai N, et al. 2015 Condition-Specific Measures Updates and Specifications Report Hospital-Level 30-Day Risk-Standardized Mortality Measures:

  Acute Myocardial Infarction Version 9.0, Heart Failure Version 9.0, Pneumonia Version 9.0, Chronic Obstructive Pulmonary Disease Version 4.0, Stroke Version 4.0; <a href="https://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier4&cid=1163010421830">https://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier4&cid=1163010421830</a>. Accessed 26 June 2015.
- 3. "Hospital Inpatient Prospective Payment Systems for Acute Care Hospitals, Final Rule." Federal Register / 22 August 2014; http://federalregister.gov/a/2014-18545. Accessed 16 June 2015.

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