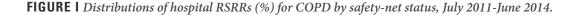
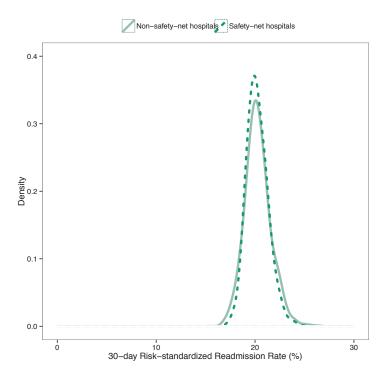
Performance on the chronic obstructive pulmonary disease readmission measure by hospital characteristics: **safety-net status**, **teaching status**, **and urban or rural location**.

The Centers for Medicare & Medicaid Services (CMS) periodically investigates select hospital characteristics that may impact a hospital's performance on the following readmission measure: hospital-level 30-day risk-standardized readmission rate (RSRR) following chronic obstructive pulmonary disease (COPD) [1]. The COPD readmission measure includes Medicare fee-for-service (FFS) beneficiaries aged 65 or older [2]. The COPD readmission measure assesses the occurrence of unplanned readmission for any cause within 30 days after discharge from hospitalization for COPD [2]. The COPD readmission measure has been publicly reported on Hospital Compare since 2014 and has been included in the Hospital Readmissions Reduction Program (HRRP) since Fiscal Year 2015 [3].





Variation in RSRRs reflects differences in performance among hospitals; lower RSRRs suggest better quality, and higher RSRRs suggest worse quality. To understand the impact of hospital safety-net status, teaching status, and urban or rural location, we examined RSRRs among hospitals with these characteristics with 25 or more qualifying discharges. Therefore, we evaluated the COPD RSRRs for a total of 3,767 hospitals by comparing 979 safety-net hospitals against 2,788 non-safety-net hospitals, 1,074 teaching hospitals against 2,693 non-teaching hospitals, and 3,019 urban hospitals against 748 rural hospitals for the July 2011 – June 2014 reporting period.

Safety-net hospitals are defined as those committed to caring for populations without stable access to care, specifically public hospitals or private hospitals with a Medicaid caseload greater than one standard deviation above their respective state's mean private hospital Medicaid caseload [4]. Teaching Hospitals provide post-graduate education for physicians completing residency and fellowship [4]. Urban and rural hospitals are defined by hospital self-identification [4].

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To ensure accurate assessment of each hospital, the stroke readmission 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 readmission outcome [2].

FIGURE 2 Distributions of hospital RSRRs (%) for COPD by teaching status, July 2011-June 2014.

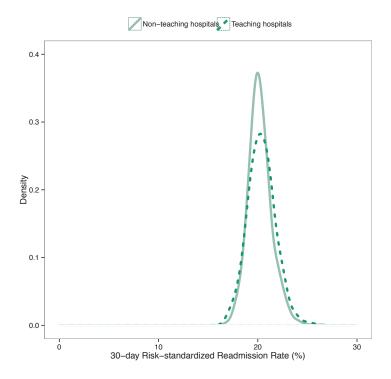


TABLE I Distributions of hospital RSRRs (%) for COPD overall, by safety-net status, teaching status, and urban or rural location, July 2011-June 2014.

COPD RSRR (%)

	Overall; n=3767	Safety-net hospitals; n=979	Non-safety-net hospitals; n=2788	Teaching hospitals; n=1074	Non-teaching hospitals; n=2693	Urban hospitals; n=3019	Rural hospitals; n=748
Maximum	26.5	24.7	26.5	25.9	26.5	25.8	26.5
90%	21.9	21.6	22.0	22.2	21.8	22.0	21.5
75%	21.0	20.9	21.0	21.2	20.9	21.0	20.8
Median (50%)	20.2	20.1	20.2	20.3	20.1	20.2	20.1
25%	19.5	19.5	19.4	19.4	19.5	19.4	19.6
10%	18.8	18.9	18.7	18.7	18.8	18.7	19.1
Minimum	15.5	17.2	15.5	16.8	15.5	15.5	17.1

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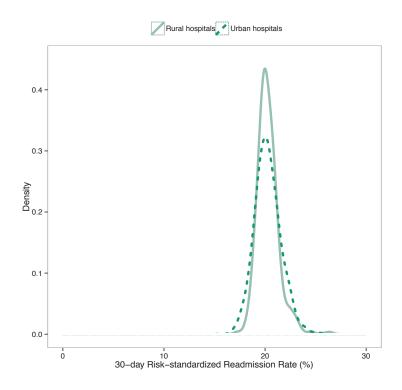






The median COPD RSRR for all hospitals was 20.2% (interquartile range [IQR]: 19.5%-21.0%; Table 1). The median COPD RSRR for safety-net hospitals was 20.1% (IQR: 19.5%-20.9%) and for non-safety-net hospitals was 20.2% (IQR: 19.4%-21.0%; Figure 1 and Table 1). The median COPD RSRR for teaching hospitals was 20.3% (IQR: 19.4%-21.2%) and for non-teaching hospitals was 20.1% (IQR: 19.5%-20.9%; Figure 2 and Table 1). The median COPD RSRR for urban hospitals was 20.2% (IQR: 19.4%-21.0%) and for rural hospitals was 20.1% (IQR: 19.6%-20.8%; Figure 3 and Table 1).





Safety-net hospitals had a median COPD RSRR that was 0.1 percentage points lower than non-safety-net hospitals, teaching hospitals had a median COPD RSRR that was 0.2 percentage points higher than non-teaching hospitals, and urban hospitals had a median COPD RSRR that was 0.1 percentage points higher than rural hospitals.

- 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; http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HospitalQualityInits/Downloads/Medicare-Hospital-Quality-Chartbook-2014.pdf. 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 Readmission Measures: Acute Myocardial Infarction Version 8.0, Heart Failure Version 8.0, Pneumonia Version 8.0, Chronic Obstructive Pulmonary Disease Version 4.0; https://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQnetTier4&cid=1219069855841. 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.
- 4. AHA Annual Survey Database Fiscal Year 2013; http://www.ahadataviewer.com/book-cd-products/aha-survey/. Accessed 26 June 2015.

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