Hypertension Admission Rate

Prevention Quality Indicators #7
Technical Specifications
Area-Level Indicator
AHRQ Quality Indicators, Version 4.3, August 2011

Version 4.3a is a maintenance release of Version 4.3. The differences between the two versions are:

- Version 4.3a includes Version 29 of the Limited License edition of the 3M^{TM} APR-DRG Grouper. This grouper corrects an issue found in Version 28 of the Limited License edition of the 3M^{TM} APR-DRG Grouper.   The grouper is only used with the Inpatient Quality Indicator (IQI) mortality measures. Version 4.3 includes Version 28 of the Limited License edition of the 3M^{TM} APR-DRG Grouper, which was incorrectly assigning a Risk of Mortality (ROM) subclass for cases dated on or after 10/1/10.
- Version 4.3a allows users to calculate area-level indicators for years 2010 and 2011, correcting an issue previously identified in Version 4.3.

All other aspects of the software, including measure specifications, remain the same. Thus this document (related to Version 4.3) remains unchanged.

Numerator

All discharges of age 18 years and older with ICD-9-CM principal diagnosis code for hypertension (see below).

ICD-9-CM Hypertension diagnosis codes:

4010	MALIGNANT HYPERTENSION	40310	BEN HYP REN W/O REN FAIL
4019	HYPERTENSION NOS	40390	HYP REN NOS W/O REN FAIL
40200	MAL HYPERTEN HRT DIS NOS	40400	MAL HY HT/REN W/O CHF/RF
40210	BEN HYPERTEN HRT DIS NOS	40410	BEN HY HT/REN W/O CHF/RF
40290	HYPERTENSIVE HRT DIS NOS	40490	HY HT/REN NOS W/O CHF/RF
40300	MAL HYP REN W/O REN FAIL		

See *Prevention Quality Indicators Appendices*:
- Appendix A – Admission Codes for Transfers

Exclude cases:
- transfer from a hospital (different facility)
- transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)
- transfer from another health care facility
- MDC 14 (pregnancy, childbirth, and puerperium)
- with a cardiac procedure code
- with any diagnosis of Stage I-IV kidney disease, only if accompanied by procedure code for preparation for hemodialysis (dialysis access procedures)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing), county (PSTCO=missing)

See Prevention Quality Indicators Appendices:
- Appendix B – Cardiac Procedure Codes

ICD-9-CM Stage I-IV kidney disease diagnosis codes:

40300	HYPERTENSIVE CHRONIC KIDNEY DISEASE, MALIGNANT, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED	40410	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, BENIGN, WITHOUT HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED
40310	HYPERTENSIVE CHRONIC KIDNEY DISEASE, BENIGN, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED	40490	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITHOUT HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED
40390	HYPERTENSIVE CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED		
40400	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, MALIGNANT, WITHOUT HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED		

ICD-9-CM Dialysis access procedure codes:

3895	VENOUS CATHETERIZATION FOR RENAL DIALYSIS		FOR RENAL DIALYSIS
3927	ARTERIOVENOSTOMY FOR RENAL DIALYSIS	3943	REMOVAL OF ARTERIOVENOUS SHUNT FOR RENAL DIALYSIS
3929	OTHER (PERIPHERAL) VASCULAR SHUNT OR BYPASS	3993	INSERTION OF VESSEL-TO-VESSEL CANNULA
3942	REVISION OF ARTERIOVENOUS SHUNT	3994	REPLACEMENT OF VESSEL-TO-VESSEL CANNULA

Denominator

Discharges in the numerator are assigned to the denominator based on the Metro Area[1] or county of the patient residence, not the Metro Area or county of the hospital where the discharge occurred.

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[1] The term "metropolitan area" (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs) and primary metropolitan statistical areas (PMSAs). In addition, "area" could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area or 3) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.