

Dehydration Admission Rate

Prevention Quality Indicators #10

Technical Specifications

Area-Level Indicator

AHRQ Quality Indicators, Version 4.3, August 2011

(Revised October, 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™ APR-DRG Grouper. This grouper corrects an issue found in Version 28 of the Limited License edition of the 3M™ 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™ 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 dehydration.

ICD-9-CM Dehydration diagnosis codes:

2765	HYPOVOLEMIA	27652	HYPOVOLEMIA (OCT06)
27650	VOL DEPLETION NOS (OCT06)		
27651	DEHYDRATION (OCT06)		

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ICD-9-CM secondary diagnosis of dehydration and ICD-9-CM principal diagnosis of “hyperosmolality **and/or** hyponatremia”, gastroenteritis or acute renal failure

ICD-9-CM Hyperosmolality and/or hyponatremia diagnosis codes:

2760	HYPEROSMOLALITY
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ICD-9-CM Gastroenteritis diagnosis codes:

00861	INTES INFEC ROTAVIRUS	00869	OTHER VIRAL INTES INFEC
00862	INTES INFEC ADENOVIRUS	0088	VIRAL ENTERITIS NOS
00863	INT INF NORWALK VIRUS	0090	INFECTIOUS ENTERITIS NOS
00864	INT INF OTH SML RND VRUS	0091	ENTERITIS OF INFECT ORIG
00865	ENTERITIS D/T CALICIVIRS	0092	INFECTIOUS DIARRHEA NOS
00866	INTES INFEC ASTROVIRUS	0093	DIARRHEA OF INFECT ORIG
00867	INT INF ENTEROVIRUS NEC	5589	NONINF GASTROENTERIT NEC

ICD-9-CM Acute renal failure diagnosis codes:

5845	AC KIDNY FAIL, TUBR NECR	5847	AC KIDNY FAIL, MEDU NECR
5846	AC KIDNY FAIL, CORT NECR	5848	ACUTE KIDNEY FAILURE NEC

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5849 ACUTE KIDNEY FAILURE NOS 9975 SURG COMPL-URINARY TRACT (OCT05)
586 RENAL FAILURE NOS (OCT05)

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)
- any diagnosis code for chronic renal failure
- 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 A – Admission Codes for Transfers

ICD-9-CM Chronic renal failure diagnosis codes:

40300	MAL HY KID W CR KID I-IV	40412	BEN HY HT/KD ST V W/O HF
40301	MAL HYP KID W CR KID V	40413	BEN HYP HT/KD STG V W HF
40310	BEN HY KID W CR KID I-IV	40490	HY HT/KD NOS I-IV W/O HF
40311	BEN HYP KID W CR KID V	40491	HYP HT/KD NOS I-IV W HF
40390	HY KID NOS W CR KID I-IV	40492	HY HT/KD NOS ST V W/O HF
40391	HYP KID NOS W CR KID V	40493	HYP HT/KD NOS ST V W HF
40400	MAL HY HT/KD I-IV W/O HF	5851	CHRO KIDNEY DIS STAGE 1
40401	MAL HYP HT/KD I-IV W HF	5852	CHRO KIDNEY DIS STATE II
40402	MAL HY HT/KD ST V W/O HF	5853	CHR KIDNEY DIS STAGE III
40403	MAL HYP HT/KD STG V W HF	5854	CHR KIDNEY DIS STAGE IV
40410	BEN HY HT/KD I-IV W/O HF	5855	CHRON KIDNEY DIS STAGE V
40411	BEN HYP HT/KD I-IV W HF	5856	END STAGE RENAL DISEASE

Denominator

Discharges in the numerator are assigned to the denominator based on the Metro Area¹ or county of the patient residence, not the Metro Area or county of the hospital where the discharge occurred.

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.