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
27650  VOL DEPLETION NOS (OCT06)
27651  DEHYDRATION (OCT06)

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

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

2760   HYPEROSMOLALITY

ICD-9-CM Gastroenteritis diagnosis codes:

00861  INTES INFEC ROTAVIRUS
00862  INTES INFEC ADENOVIRUS
00863  INT INF NORWALK VIRUS
00864  INT INF OTH SML RND VRUS
00865  ENTERITIS D/T CALICIVIRS
00866  INTES INFEC ASTROVIRUS
00867  INT INF ENTEROVIRUS NEC

ICD-9-CM Acute renal failure diagnosis codes:

5845   AC KIDNY FAIL, TUBR NECR
5846   AC KIDNY FAIL, CORT NECR
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:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40300</td>
<td>MAL HY KID W CR KID I-IV</td>
</tr>
<tr>
<td>40301</td>
<td>MAL HYP KID W CR KID V</td>
</tr>
<tr>
<td>40310</td>
<td>BEN HY KID W CR KID I-IV</td>
</tr>
<tr>
<td>40311</td>
<td>BEN HYP KID W CR KID V</td>
</tr>
<tr>
<td>40390</td>
<td>HY KID NOS W CR KID I-IV</td>
</tr>
<tr>
<td>40391</td>
<td>HYP KID NOS W CR KID V</td>
</tr>
<tr>
<td>40400</td>
<td>MAL HY HT/KD I-IV V/O HF</td>
</tr>
<tr>
<td>40401</td>
<td>MAL HYP HT/KD I-IV W V/O HF</td>
</tr>
<tr>
<td>40402</td>
<td>MAL HY HT/KD ST V/0 HF</td>
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<td>MAL HYP HT/KD STG V/W HF</td>
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<tr>
<td>40412</td>
<td>BEN HY HT/KD ST V/W/O HF</td>
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<tr>
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<td>HY HT/KD NOS I-IV W/O HF</td>
</tr>
<tr>
<td>40491</td>
<td>HYP HT/KD NOS I-IV V/W HF</td>
</tr>
<tr>
<td>40492</td>
<td>HY HT/KD NOS ST V/W/O HF</td>
</tr>
<tr>
<td>40493</td>
<td>HYP HT/KD NOS ST V/W HF</td>
</tr>
</tbody>
</table>

**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.