Prevention Quality Indicator 10 (PQI 10) Dehydration Admission Rate

July 2016
Area-Level Indicator
Type of Score: Rate

Prepared by:
Agency for Healthcare Research and Quality
U.S. Department of Health and Human Services
www.qualityindicators.ahrq.gov

DESCRIPTION
Admissions with a principal diagnosis of dehydration per 100,000 population, ages 18 years and older. Excludes obstetric admissions and transfers from other institutions.

[NOTE: The software provides the rate per population. However, common practice reports the measure as per 100,000 population. The user must multiply the rate obtained from the software by 100,000 to report admissions per 100,000 population.]
NUMERATOR
Discharges, for patients ages 18 years and older, with either
• a principal ICD-10-CM diagnosis code for dehydration; or
• any secondary ICD-10-CM diagnosis codes for dehydration and a principal ICD-10-CM diagnosis code for hyperosmolality and/or hypernatremia, gastroenteritis, or acute kidney failure

[NOTE: By definition, discharges with a principal diagnosis of dehydration, hyperosmolality and/or hypernatremia, gastroenteritis, or acute kidney injury are precluded from an assignment of MDC 14 by grouper software. Thus, obstetric discharges should not be considered in the PQI rate, though the AHRQ QI™ software does not explicitly exclude obstetric cases.]

Dehydration diagnosis codes: (ACSDEHD)
E860 Dehydration
E861 Hypovolemia

Hyperosmolality and/or hypernatremia diagnosis codes: (HYPERID)
E870 Hyperosmolality and hypernatremia

Gastroenteritis diagnosis codes: (ACPGASD)
A080 Rotaviral enteritis
A0811 Acute gastroenteropathy due to Norwalk agent
A0819 Acute gastroenteropathy due to other small round viruses
A082 Adenoviral enteritis
A0831 Calicivirus enteritis
A0832 Astrovirus enteritis

Acute kidney renal failure diagnosis codes: (PHYSID)
N170 Acute kidney failure with tubular necrosis
N171 Acute kidney failure with acute cortical necrosis
N172 Acute kidney failure with medullary necrosis
N178 Other acute kidney failure
N179 Acute kidney failure, unspecified
N19 Unspecified kidney failure
N990 Postprocedural (acute) (chronic) kidney failure
NUMERATOR EXCLUSIONS
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
• with any-listed ICD-10-CM diagnosis codes for chronic renal failure
• with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

Appendix A – Admission Codes for Transfers

Chronic renal failure diagnosis codes: (CRENLFD)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<th>Description</th>
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<tbody>
<tr>
<td>I120</td>
<td>Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease</td>
<td>N185</td>
<td>Chronic kidney disease, stage 5</td>
</tr>
<tr>
<td>I1311</td>
<td>Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease</td>
<td>N186</td>
<td>End stage renal disease</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>I132</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease</td>
<td></td>
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</tr>
</tbody>
</table>
DENOMINATOR
Population ages 18 years and older in metropolitan area† or county. Discharges in the numerator are assigned to the denominator based on the metropolitan area or county of the patient residence, not the metropolitan area or county of the hospital where the discharge occurred.

† 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 4) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.
DENOMINATOR EXCLUSIONS
Not Applicable