Prevention Quality Indicator 08 (PQI 08) Heart Failure 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 heart failure per 100,000 population, ages 18 years and older. Excludes cardiac procedure admissions, 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 EXCLUSIONS

Exclude cases:
• with any-listed ICD-10-PCS procedure codes for cardiac procedure
• 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 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
Appendix B – Cardiac Procedure Codes
**NUMERATOR**

Discharges, for patients ages 18 years and older, with a principal ICD-10-CM diagnosis code for heart failure.

[NOTE: By definition, discharges with a principal diagnosis of heart failure 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 QITM software does not explicitly exclude obstetric cases.]

*Heart failure diagnosis codes (MRTCHFD):*

<table>
<thead>
<tr>
<th>Code</th>
<th>Diagnosis Description</th>
<th>Code</th>
<th>Diagnosis Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I0981</td>
<td>Rheumatic heart failure</td>
<td>I5030</td>
<td>Unspecified diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I110</td>
<td>Hypertensive heart disease with heart failure</td>
<td>I5031</td>
<td>Acute diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I130</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease</td>
<td>I5032</td>
<td>Chronic diastolic (congestive) heart failure</td>
</tr>
<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>I5033</td>
<td>Acute on chronic diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I501</td>
<td>Left ventricular failure</td>
<td>I5040</td>
<td>Unspecified combined systolic (congestive) and diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I5020</td>
<td>Unspecified systolic (congestive) heart failure</td>
<td>I5041</td>
<td>Acute combined systolic (congestive) and diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I5021</td>
<td>Acute systolic (congestive) heart failure</td>
<td>I5042</td>
<td>Chronic combined systolic (congestive) and diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I5022</td>
<td>Chronic systolic (congestive) heart failure</td>
<td>I5043</td>
<td>Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure</td>
</tr>
<tr>
<td>I5023</td>
<td>Acute on chronic systolic (congestive) heart failure</td>
<td>I509</td>
<td>Heart failure, unspecified</td>
</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.