

Gastroenteritis Admission Rate

Technical Specifications

Pediatric Quality Indicators #16 (PDI #16)

AHRQ Quality Indicators™, Version 4.5, May 2013

Area-Level Indicator

Type of Score: Rate

Description

Admissions for a principal diagnosis of gastroenteritis, or for a principal diagnosis of dehydration with a secondary diagnosis of gastroenteritis per 100,000 population, ages 3 months to 17 years. Excludes cases transferred from another facility, cases with gastrointestinal abnormalities or bacterial gastroenteritis, and obstetric admissions.

[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 3 months through 17 years, with either

- a principal ICD-9-CM diagnosis code for gastroenteritis; or
- any secondary ICD-9-CM diagnosis codes for gastroenteritis and a principal ICD-9-CM diagnosis code for dehydration

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 Dehydration diagnosis codes¹:

| | | | |
|-------|----------------------|-------|-------------|
| 2765 | <i>HYPOVOLEMIA</i> | 27651 | DEHYDRATION |
| 27650 | VOLUME DEPLETION NOS | 27652 | HYPOVOLEMIA |

¹ The procedure or diagnosis codes are continuously updated. The current list of ICD-9-CM codes is valid for October 2012 through September 2013. Italicized codes are not active in Fiscal Year 2013.

Exclude cases:

- with any-listed ICD-9-CM diagnosis codes for gastrointestinal abnormalities
- with any-listed ICD-9-CM diagnosis codes for bacterial gastroenteritis
- transfer from a hospital (different facility)
- transfer from a Skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)

- transfer from another health care facility
- neonates if age in days is missing
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), principal diagnosis (DX1=missing), or county (PSTCO=missing)

See *Pediatric Quality Indicators Appendices*:

- Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn
- Appendix J – Admission Codes for Transfers

ICD-9-CM Gastrointestinal abnormalities diagnosis codes:

| | | | |
|-------|---------------------------|-------|--------------------------|
| 53570 | EOSINOPHIL GASTRT WO HEM | 5568 | OTHER ULCERATIVE COLITIS |
| 53571 | EOSINOPHILC GASTRT W HEM | 5569 | ULCERATVE COLITIS UNSPCF |
| 538 | GI MUCOSITIS (ULCERATVE) | 5581 | RADIATION GASTROENTERIT |
| 5550 | REG ENTERITIS, SM INTEST | 5582 | TOXIC GASTROENTERITIS |
| 5551 | REG ENTERITIS, LG INTEST | 5583 | ALLRGIC GASTRO & COLITIS |
| 5552 | REG ENTERIT SM/LG INTEST | 55841 | EOSINOPHILIC GASTROENT |
| 5559 | REGIONAL ENTERITIS NOS | 55842 | EOSINOPHILIC COLITIS |
| 5560 | ULCERATIVE ENTEROCOLITIS | 5790 | CELIAC DISEASE |
| 5561 | ULCERATIVE ILEOCOLITIS | 5791 | TROPICAL SPRUE |
| 5562 | ULCERATIVE PROCTITIS | 5792 | BLIND LOOP SYNDROME |
| 5563 | ULCERATVE PRCTOSIGMOIDTIS | 5793 | INTEST POSTOP NONABSORB |
| 5564 | PSEUDOPOLYPOSIS COLON | 5794 | PANCREATIC STEATORRHEA |
| 5565 | LFTSDED ULCERTVE COLITIS | 5798 | INTEST MALABSORPTION NEC |
| 5566 | UNIVRSL ULCERTVE COLITIS | 5799 | INTEST MALABSORPTION NOS |

ICD-9-CM Bacterial gastroenteritis diagnosis codes¹:

| | | | |
|-------------|---------------------------------------|-------------|---------------------------------|
| 0030 | SALMONELLA ENTERITIS | 0075 | CYCLOSPORIASIS |
| 0040 | SHIGELLA DYSENTERIAE | 0078 | PROTOZOAL INTEST DIS NEC |
| 0041 | SHIGELLA FLEXNERI | 0079 | PROTOZOAL INTEST DIS NOS |
| 0042 | SHIGELLA BOYDII | <i>0080</i> | <i>ESCHERICHIA COLI</i> |
| 0043 | SHIGELLA SONNEI | 00800 | INTEST INFEC E COLI NOS |
| 0048 | SHIGELLA INFECTION NEC | 00801 | INT INF E COLI ENTRPATH |
| 0049 | SHIGELLOSIS NOS | 00802 | INT INF E COLI ENTRTOXGN |
| 0050 | STAPH FOOD POISONING | 00803 | INT INF E COLI ENTRNVSV |
| 0051 | BOTULISM FOOD POISONING | 00804 | INT INF E COLI ENTRHMRG |
| 0052 | FOOD POIS D/T C. PERFRIN | 00809 | INT INF E COLI SPCF NEC |
| 0053 | FOOD POIS: CLOSTRID NEC | 0081 | ARIZONA ENTERITIS |
| 0054 | FOOD POIS: V. PARAHAEM | 0082 | AEROBACTER ENTERITIS |
| <i>0058</i> | <i>OTHER BACTERIAL FOOD POISONING</i> | 0083 | PROTEUS ENTERITIS |
| 00581 | FOOD POISN D/T V. VULNIF | <i>0084</i> | <i>OTHER SPECIFIED BACTERIA</i> |
| 00589 | BACT FOOD POISONING NEC | 00841 | STAPHYLOCOCC ENTERITIS |
| 0059 | FOOD POISONING NOS | 00842 | PSEUDOMONAS ENTERITIS |
| 0060 | AC AMEBIASIS W/O ABSCESS | 00843 | INT INFEC CAMPYLOBACTER |
| 0061 | CHR AMEBIASIS W/O ABSCESS | 00844 | INT INF YRSNIA ENTRCLTCA |
| 0062 | AMEBIC NONDYSENT COLITIS | 00845 | INT INF CLSTRIDIUM DFCILE |
| 0070 | BALANTIDIASIS | 00846 | INTES INFEC OTH ANEROBES |
| 0071 | GIARDIASIS | 00847 | INT INF OTH GRM NEG BCTR |
| 0072 | COCCIDIOSIS | 00849 | BACTERIAL ENTERITIS NEC |
| 0073 | INTEST TRICHOMONIASIS | 0085 | BACTERIAL ENTERITIS NOS |
| 0074 | CRYPTOSPORIDIOSIS | 11285 | CANDIDAL ENTERITIS |

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Denominator

Population ages 3 months through 17 years 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.