

# Gastroenteritis Admission Rate

## Pediatric Quality Indicators #16

### Technical Specifications

#### Area-Level Indicator

#### AHRQ Quality Indicators, Version 4.3, August 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 non-maternal discharges ages 3 months to 17 years

- with ICD-9-CM principal diagnosis code for gastroenteritis

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- with secondary diagnosis code of gastroenteritis and a principal diagnosis code of dehydration.

#### ICD-9-CM Gastroenteritis diagnosis codes:

00861	ENTERITIS ROTAVIRUS	00869	ENTERITIS NOS
00862	ENTERITIS ADENOVIRUS	0088	VIRAL ENTERITIS NOS
00863	ENTERITIS NORWALK VIRUS	0090	INFECTIOUS ENTERITIS NOS
00864	ENTERITIS OTH SML RND VIRUS	0091	ENTERITIS OF INFECT ORIG
00865	ENTERITIS CALICIVIRUS	0092	INFECTIOUS DIARRHEA
00866	ENTERITIS ASTROVIRUS	0093	DIARRHEA OF PRESU INFECT ORIG
00867	ENTERITIS ENTEROVIRUS NEC	5589	NONINF GASTROENTERIT NEC

#### ICD-9-CM Dehydration diagnosis codes:

2765	HYPOVOLEMIA	27651	DEHYDRATION (OCT06)
27650	VOL DEPLETION, UNSPECIFIED (OCT06)	27652	HYPOVOLEMIA (OCT06)

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
- neonates if age in days is missing
- with any diagnosis code of gastrointestinal abnormalities or bacterial gastroenteritis

- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing), 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	EOSINOPHILIC GASTRITIS WO HEM (OCT08)	5566	UNIVERSAL ULCERATIVE CHRONIC COLITIS
53571	EOSINOPHILIC GASTRITIS W HEM (OCT08)	5568	OTHER ULCERATIVE COLITIS
538	GASTROINTESTINAL MUCOSITIS (ULCERATIVE)	5569	ULCERATIVE COLITIS NOS
5550	REGIONAL ENTERITIS, SMALL INTESTINE	5581	GASTROENTERITIS AND COLITIS DUE TO RADIATION
5551	REGIONAL ENTERITIS, LARGE INTESTINE	5582	TOXIC GASTROENTERITIS AND COLITIS
5552	REGIONAL ENTERITIS, SMALL INTESTINE WITH LARGE INTESTINE	5583	ALLERGIC GASTROENTERITIS AND COLITIS
5559	REGIONAL ENTERITIS, UNSPECIFIED SITE	55841	EOSINOPHILIC GASTROENTERITIS (OCT08)
5560	ULCERATIVE CHRONIC ENTEROCOLITIS	55842	EOSINOPHILIC COLITIS (OCT08)
5561	ULCERATIVE CHRONIC ILEOCOLITIS	5790	CELIAC DISEASE
5562	ULCERATIVE CHRONIC PROCTITIS	5791	TROPICAL SPRUE
5563	ULCERATIVE CHRONIC PROCTOSIGMOIDITIS	5792	BLIND LOOP SYNDROME
5564	PSEUDOPOLYPOSIS OF COLON	5793	OTHER AND UNSPECIFIED POSTSURGICAL NONABSORPTION
5565	LEFT-SIDED ULCERATIVE CHRONIC COLITIS	5794	PANCREATIC STEATORRHEA
		5798	OTHER SPECIFIED INTESTINAL MALABSORPTION
		5799	UNSPECIFIED INTESTINAL MALABSORPTION

**ICD-9-CM Bacterial gastroenteritis diagnosis codes:**

0030	SALMONELLA GASTROENTERITIS	0071	GIARDIASIS
0040	SHIGELLA DYSENTERIAE	0072	COCCIDIOSIS
0041	SHIGELLA FLEXNERI	0073	INTESTINAL TRICHOMONIASIS
0042	SHIGELLA BOYDII	0074	CRYPTOSPORIDIOSIS
0043	SHIGELLA SONNEI	0075	CYCLOSPORIASIS
0048	OTHER SPECIFIED SHIGELLA INFECTIONS	0078	OTHER SPECIFIED PROTOZOAL INTESTINAL DISEASES
0049	SHIGELLOSIS, NOS	0079	UNSPECIFIED PROTOZOAL INTESTINAL DISEASE
0050	STAPHYLOCOCCAL FOOD POISONING	0080	ESCHERICHIA COLI
0051	BOTULISM	00800	E. COLI NOS
0052	FOOD POISONING DUE TO CLOSTRIDIUM PERFRINGENS	00801	ENTEROPATHOGENIC E. COLI
0053	FOOD POISONING DUE TO OTHER CLOSTRIDIA	00802	ENTEROTOXIGENIC E. COLI
0054	FOOD POISONING DUE TO VIBRIO PARAHAEMOLYTICUS	00803	ENTEROINVASIVE E. COLI
0058	OTHER BACTERIAL FOOD POISONING	00804	ENTEROHEMORRHAGE E. COLI
00581	FOOD POISONING DUE TO VIBRIO VULNIFICUS	00809	OTHER INTESTINAL E. COLI INFECTIONS
00589	OTHER BACTERIAL FOOD POISONING	0081	ARIZONA GROUP OF PARACOLON BACILLI
0059	FOOD POISONING NOS	0082	AEROBACTER AEROGENES
0060	ACUTE AMEBIC DYSENTERY WO MENTION OF ABSCESS	0083	PROTEUS
0061	CHRONIC INTESTINAL AMEBIASIS WO MENTION OF ABSCESS	0084	OTHER SPECIFIED BACTERIA
0062	AMEBIC NONDYSENTERIC COLLITIS	00841	OTHER SPECIFIED BACTERIA, STAPHYLOCOCCUS
0070	BALANTIDIASIS	00842	OTHER SPECIFIED BACTERIA, PSEUDOMONAS

00843	OTHER SPECIFIED BACTERIA, CAMPYLOBACTER	00847	OTHER SPECIFIED BACTERIA, OTHER GRAM-NEGATIVE BACTERIA
00844	OTHER SPECIFIED BACTERIA, YERSINIA ENTEROCOLITICA	00849	OTHER SPECIFIED BACTERIA, OTHER
00845	OTHER SPECIFIED BACTERIA, CLOSTRIDIUM DIFFICILE	0085	BACTERIAL ENTERITIS, NOS
00846	OTHER SPECIFIED BACTERIA, OTHER ANAEROBES	11285	CANDIDAL ENTERITIS

## Denominator

Discharges in the numerator are assigned to the denominator based on the Metro Area<sup>1</sup> or county of the patient residence, not the Metro Area or county of the hospital where the discharge occurred.

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<sup>1</sup> 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.