

# Gastroenteritis Admission Rate

## Pediatric Quality Indicators #16

### Technical Specifications

#### Area-Level Indicator

AHRQ Quality Indicators, Version 4.3, August 2011

### 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)

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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 Gastrintestinal abnormalities diagnosis codes:

53570	EOSINOPHILIC GASTRITIS WO HEM (OCT08)	5550	REGIONAL ENTERITIS, SMALL INTESTINE
53571	EOSINOPHILIC GASTRITIS W HEM (OCT08)	5551	REGIONAL ENTERITIS, LARGE INTESTINE
538	GASTROINTESTINAL MUCOSITIS (ULCERATIVE)	5552	REGIONAL ENTERITIS, SMALL INTESTINE WITH LARGE INTESTINE

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5559	REGIONAL ENTERITIS, UNSPECIFIED SITE	5582	TOXIC GASTROENTERITIS AND COLITIS
5560	ULCERATIVE CHRONIC ENTEROCOLITIS	5583	ALLERGIC GASTROENTERITIS AND COLITIS
5561	ULCERATIVE CHRONIC ILEOCOLITIS	55841	EOSINOPHILIC GASTROENTERITIS (OCT08)
5562	ULCERATIVE CHRONIC PROCTITIS	55842	EOSINOPHILIC COLITIS (OCT08)
5563	ULCERATIVE CHRONIC PROCTOSIGMOIDITIS	5790	CELIAC DISEASE
5564	PSEUDOPOLYPOSIS OF COLON	5791	TROPICAL SPRUE
5565	LEFT-SIDED ULCERATIVE CHRONIC COLITIS	5792	BLIND LOOP SYNDROME
5566	UNIVERSAL ULCERATIVE CHRONIC COLITIS	5793	OTHER AND UNSPECIFIED POSTSURGICAL NONABSORPTION
5568	OTHER ULCERATIVE COLITIS	5794	PANCREATIC STEATORRHEA
5569	ULCERATIVE COLITIS NOS	5798	OTHER SPECIFIED INTESTINAL MALABSORPTION
5581	GASTROENTERITIS AND COLITIS DUE TO RADIATION	5799	UNSPECIFIED INTESTINAL MALABSORPTION

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

0030	SALMONELLA GASTROENTERITIS	0079	UNSPECIFIED PROTOZOAL INTESTINAL DISEASE
0040	SHIGELLA DYSENTERIAE	0080	ESCHERICHIA COLI
0041	SHIGELLA FLEXNERI	00800	E. COLI NOS
0042	SHIGELLA BOYDII	00801	ENTEROPATHOGENIC E. COLI
0043	SHIGELLA SONNEI	00802	ENTEROTOXIGENIC E. COLI
0048	OTHER SPECIFIED SHIGELLA INFECTIONS	00803	ENTEROINVASIVE E. COLI
0049	SHIGELLOSIS, NOS	00804	ENTEROHEMORRHAGE E. COLI
0050	STAPHYLOCOCCAL FOOD POISONING	00809	OTHER INTESTINAL E. COLI INFECTIONS
0051	BOTULISM	0081	ARIZONA GROUP OF PARACOLON BACILLI
0052	FOOD POISONING DUE TO CLOSTRIDIUM PERFRINGENS	0082	AEROBACTER AEROGENES
0053	FOOD POISONING DUE TO OTHER CLOSTRIDIA	0083	PROTEUS
0054	FOOD POISONING DUE TO VIBRIO PARAHAEMOLYTICUS	0084	OTHER SPECIFIED BACTERIA
0058	OTHER BACTERIAL FOOD POISONING	00841	OTHER SPECIFIED BACTERIA, STAPHYLOCOCCUS
00581	FOOD POISONING DUE TO VIBRIO VULNIFICUS	00842	OTHER SPECIFIED BACTERIA, PSEUDOMONAS
00589	OTHER BACTERIAL FOOD POISONING	00843	OTHER SPECIFIED BACTERIA, CAMPYLOBACTER
0059	FOOD POISONING NOS	00844	OTHER SPECIFIED BACTERIA, YERSINIA ENTEROCOLITICA
0060	ACUTE AMEBIC DYSENTERY WO MENTION OF ABSCESS	00845	OTHER SPECIFIED BACTERIA, CLOSTRIDIUM DIFFICILE
0061	CHRONIC INTESTINAL AMEBIASIS WO MENTION OF ABSCESS	00846	OTHER SPECIFIED BACTERIA, OTHER ANAEROBES
0062	AMEBIC NONDYSENTERIC COLLITIS	00847	OTHER SPECIFIED BACTERIA, OTHER GRAM-NEGATIVE BACTERIA
0070	BALANTIDIASIS	00849	OTHER SPECIFIED BACTERIA, OTHER BACTERIAL ENTERITIS, NOS
0071	GIARDIASIS	0085	CANDIDAL ENTERITIS
0072	COCCIDIOSIS	11285	
0073	INTESTINAL TRICHOMONIASIS		
0074	CRYPTOSPORIDIOSIS		
0075	CYCLOSPORIASIS		
0078	OTHER SPECIFIED PROTOZOAL INTESTINAL DISEASES		

## 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.