



**AHRQ Quality Indicators™ (AHRQ QI™)
ICD-9-CM and ICD-10-CM/PCS
Specification Enhanced Version 5.0**

**Pediatric Quality Indicators #16 (PDI #16)
Gastroenteritis Admission Rate**

**October 2015
Area-Level Indicator
Type of Score: Rate**

Prepared by:

Agency for Healthcare Research and Quality
U.S. Department of Health and Human Services
540 Gaither Road
Rockville, MD 20850
www.qualityindicators.ahrq.gov

PDI #16 Gastroenteritis Admission 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.]

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NUMERATOR			
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Discharges, for patients ages 3 months through 17 years, with either

- a principal ICD-9-CM or ICD-10-CM diagnosis code for gastroenteritis; or
- any secondary ICD-9-CM or ICD-10-CM diagnosis codes for gastroenteritis and a principal ICD-9-CM or ICD-10-CM diagnosis code for dehydration

<i>Gastroenteritis diagnosis codes: (ACPGASD)</i>			
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ICD-9-CM	Description	ICD-10-CM	Description
00861	INTES INFEC ROTAVIRUS	A080	Rotaviral enteritis
00862	INTES INFEC ADENOVIRUS	A0811	Acute gastroenteropathy due to Norwalk agent
00863	INT INF NORWALK VIRUS	A0819	Acute gastroenteropathy due to other small round
00864	INT INF OTH SML RND VRUS	A082	Adenoviral enteritis
00865	INTES INFEC CALCIVIRUS	A0831	Calicivirus enteritis
00866	INTES INFEC ASTROVIRUS	A0832	Astrovirus enteritis
00867	INT INF ENTEROVIRUS NEC	A0839	Other viral enteritis
00869	ENTERITIS NOS	A084	Viral intestinal infection, unspecified
0088	VIRAL ENTERITIS NOS	A088	Other specified intestinal infections
0090	INFECTIOUS ENTERITIS NOS	A09	Infectious gastroenteritis and colitis, unspecified
0091	ENTERITIS OF INFECT ORIG	K5289	Other specified noninfective gastroenteritis and colitis
0092	INFECTIOUS DIARRHEA NOS	K529	Noninfective gastroenteritis and colitis, unspecified
0093	DIARRHEA OF INFECT ORIG		
5589	NONINF GASTROENTERIT NEC		

<i>Dehydration diagnosis codes: (ACSDEHD)</i>			
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ICD-9-CM	Description	ICD-10-CM	Description
2765	HYPOVOLEMIA	E860	Dehydration
27650	VOLUME DEPLETION	E861	Hypovolemia
27651	DEHYDRATION	E869	Volume depletion, unspecified
27652	HYPOVOLEMIA		

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NUMERATOR EXCLUSIONS
<p>Exclude cases:</p> <ul style="list-style-type: none"> • with any-listed ICD-9-CM or ICD-10-CM diagnosis codes for gastrointestinal abnormalities • with any-listed ICD-9-CM or ICD-10-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)

[Appendix I – Definitions of Neonate, Newborn, Normal Newborn, and Outborn](#)

[Appendix J – Admission Codes for Transfers](#)

Gastrointestinal abnormalities diagnosis codes: (ACGDISD)			
ICD-9-CM	Description	ICD-10-CM	Description
53570	EOSINOPHIL GASTRT WO HEM	K5000	Crohns disease of small intestine without complications
53571	EOSINOPHILC GASTRT W HEM	K50011	Crohns disease of small intestine with rectal bleeding
538	GI MUCOSITIS (ULCERATVE)	K50012	Crohns disease of small intestine with intestinal
5550	REGIONAL ENTERITIS, SMALL INTESTINE	K50013	Crohns disease of small intestine with fistula
5551	REGIONAL ENTERITIS, LARGE INTESTINE	K50014	Crohns disease of small intestine with abscess
5552	REGIONAL ENTERITIS, SMALL INTESTINE WITH LARGE INTESTINE	K50018	Crohns disease of small intestine with other complication
5559	REGIONAL ENTERITIS, UNSPECIFIED SITE	K50019	Crohns disease of small intestine with unspecified
5560	ULCERATIVE CHRONIC ENTEROCOLITIS	K5010	Crohns disease of large intestine without complications

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5561	ULCERATIVE CHRONIC ILEOCOLITIS	K50111	Crohns disease of large intestine with rectal bleeding
5562	ULCERATIVE CHRONIC PROCTITIS	K50112	Crohns disease of large intestine with intestinal obstruction
5563	ULCERATIVE CHRONIC PROCTOSIGMOIDITIS	K50113	Crohns disease of large intestine with fistula
5564	PSEUDOPOLYPOSIS OF COLON	K50114	Crohns disease of large intestine with abscess
5565	LEFT-SIDED ULCERATIVE CHRONIC COLITIS	K50118	Crohns disease of large intestine with other complication
5566	UNIVERSAL ULCERATIVE CHRONIC COLITIS	K50119	Crohns disease of large intestine with unspecified complications
5568	OTHER ULCERATIVE COLITIS	K5080	Crohns disease of both small and large intestine without complications
5569	ULCERATIVE COLITIS NOS	K50811	Crohns disease of both small and large intestine with rectal bleeding
5581	GASTROENTERITIS AND COLITIS DUE TO RADIATION	K50812	Crohns disease of both small and large intestine with intestinal obstruction
5582	TOXIC GASTROENTERITIS AND COLITIS	K50813	Crohns disease of both small and large intestine with fistula
5583	ALLERGIC GASTROENTERITIS AND COLITIS	K50814	Crohns disease of both small and large intestine with abscess
55841	EOSINOPHILIC GASTROENT	K50818	Crohns disease of both small and large intestine with other complication
55842	EOSINOPHILIC COLITIS	K50819	Crohns disease of both small and large intestine with unspecified complications
5790	CELIAC DISEASE	K5090	Crohns disease, unspecified, without complications
5791	TROPICAL SPRUE	K50911	Crohns disease, unspecified, with rectal bleeding
5792	BLIND LOOP SYNDROME	K50912	Crohns disease, unspecified, with intestinal obstruction
5793	OTHER AND UNSPECIFIED POSTSURGICAL NONABSORPTION	K50913	Crohns disease, unspecified, with fistula
5794	PANCREATIC STEATORRHEA	K50914	Crohns disease, unspecified, with abscess
5798	OTHER SPECIFIED INTESTINAL MALABSORPTION	K50918	Crohns disease, unspecified, with other complication
5799	UNSPECIFIED INTESTINAL MALABSORPTION	K50919	Crohns disease, unspecified, with unspecified complications

K5100	Ulcerative (chronic) pancolitis without complications
K51011	Ulcerative (chronic) pancolitis with rectal bleeding
K51012	Ulcerative (chronic) pancolitis with intestinal obstruction
K51013	Ulcerative (chronic) pancolitis with fistula
K51014	Ulcerative (chronic) pancolitis with abscess
K51018	Ulcerative (chronic) pancolitis with other complication
K51019	Ulcerative (chronic) pancolitis with unspecified complications
K5120	Ulcerative (chronic) proctitis without complications
K51211	Ulcerative (chronic) proctitis with rectal bleeding
K51212	Ulcerative (chronic) proctitis with intestinal obstruction
K51213	Ulcerative (chronic) proctitis with fistula
K51214	Ulcerative (chronic) proctitis with abscess
K51218	Ulcerative (chronic) proctitis with other complication
K51219	Ulcerative (chronic) proctitis with unspecified complications
K5130	Ulcerative (chronic) rectosigmoiditis without complications
K51311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding
K51312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction
K51313	Ulcerative (chronic) rectosigmoiditis with fistula
K51314	Ulcerative (chronic) rectosigmoiditis with abscess
K51318	Ulcerative (chronic) rectosigmoiditis with other complication
K51319	Ulcerative (chronic) rectosigmoiditis with unspecified complications
K5140	Inflammatory polyps of colon without complications
K51411	Inflammatory polyps of colon with rectal bleeding
K51412	Inflammatory polyps of colon with intestinal obstruction

K51413	Inflammatory polyps of colon with fistula
K51414	Inflammatory polyps of colon with abscess
K51418	Inflammatory polyps of colon with other complication
K51419	Inflammatory polyps of colon with unspecified complications
K5150	Left sided colitis without complications
K51511	Left sided colitis with rectal bleeding
K51512	Left sided colitis with intestinal obstruction
K51513	Left sided colitis with fistula
K51514	Left sided colitis with abscess
K51518	Left sided colitis with other complication
K51519	Left sided colitis with unspecified complications
K5180	Other ulcerative colitis without complications
K51811	Other ulcerative colitis with rectal bleeding
K51812	Other ulcerative colitis with intestinal obstruction
K51813	Other ulcerative colitis with fistula
K51814	Other ulcerative colitis with abscess
K51818	Other ulcerative colitis with other complication
K51819	Other ulcerative colitis with unspecified complications
K5190	Ulcerative colitis, unspecified, without complications
K51911	Ulcerative colitis, unspecified with rectal bleeding
K51912	Ulcerative colitis, unspecified with intestinal obstruction
K51913	Ulcerative colitis, unspecified with fistula
K51914	Ulcerative colitis, unspecified with abscess
K51918	Ulcerative colitis, unspecified with other complication
K51919	Ulcerative colitis, unspecified with unspecified complications
K520	Gastroenteritis and colitis due to radiation
K521	Toxic gastroenteritis and colitis
K522	Allergic and dietetic gastroenteritis and colitis

K5281	Eosinophilic gastritis or gastroenteritis
K5282	Eosinophilic colitis
K900	Celiac disease
K901	Tropical sprue
K902	Blind loop syndrome, not elsewhere classified
K903	Pancreatic steatorrhea
K904	Malabsorption due to intolerance, not elsewhere classified
K9089	Other intestinal malabsorption
K909	Intestinal malabsorption, unspecified
K912	Postsurgical malabsorption, not elsewhere classified
K9281	Gastrointestinal mucositis (ulcerative)

Bacterial gastroenteritis diagnosis codes: (ACBACGD)

ICD-9-CM	Description	ICD-10-CM	Description
0030	SALMONELLA GASTROENTERITIS	A020	Salmonella enteritis
0040	SHIGELLA DYSENTERIAE	A030	Shigellosis due to Shigella dysenteriae
0041	SHIGELLA FLEXNERI	A031	Shigellosis due to Shigella flexneri
0042	SHIGELLA BOYDII	A032	Shigellosis due to Shigella boydii
0043	SHIGELLA SONNEI	A033	Shigellosis due to Shigella sonnei
0048	OTHER SPECIFIED SHIGELLA INFECTIONS	A038	Other shigellosis
0049	SHIGELLOSIS, NOS	A039	Shigellosis, unspecified
0050	STAPHYLOCOCCAL FOOD POISONING	A040	Enteropathogenic Escherichia coli infection
0051	BOTULISM	A041	Enterotoxigenic Escherichia coli infection
0052	FOOD POISONING DUE TO CLOSTRIDIUM PERFRINGENS	A042	Enteroinvasive Escherichia coli infection
0053	FOOD POISONING DUE TO OTHER CLOSTRIDIA	A043	Enterohemorrhagic Escherichia coli infection
0054	FOOD POISONING DUE TO VIBRIO PARAHAEMOLYTICUS	A044	Other intestinal Escherichia coli infections
0058	OTHER BACTERIAL FOOD POISONING	A045	Campylobacter enteritis
00581	FOOD POISONING DUE TO VIBRIO VULNIFICUS	A046	Enteritis due to Yersinia enterocolitica
00589	OTHER BACTERIAL FOOD POISONING	A047	Enterocolitis due to Clostridium difficile

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0059	FOOD POISONING NOS	A048	Other specified bacterial intestinal infections
0060	ACUTE AMEBIC DYSENTERY WO MENTION OF ABSCESS	A049	Bacterial intestinal infection, unspecified
0061	CHRONIC INTESTINAL AMEBIASIS WO MENTION OF ABSCESS	A050	Foodborne staphylococcal intoxication
0070	BALANTIDIASIS	A051	Botulism food poisoning
0071	GIARDIASIS	A052	Foodborne Clostridium perfringens [Clostridium welchii] intoxication
0072	COCCIDIOSIS	A053	Foodborne Vibrio parahaemolyticus intoxication
0073	INTESTINAL TRICHOMONIASIS	A054	Foodborne Bacillus cereus intoxication
0074	CRYPTOSPORIDIOSIS	A055	Foodborne Vibrio vulnificus intoxication
0075	CYCLOSPORIASIS	A058	Other specified bacterial foodborne intoxications
0078	OTHER SPECIFIED PROTOZOAL INTESTINAL DISEASES	A059	Bacterial foodborne intoxication, unspecified
0079	UNSPECIFIED PROTOZOAL INTESTINAL DISEASE	A060	Acute amebic dysentery
0080	ESCHERICHIA COLI	A061	Chronic intestinal amebiasis
00800	E. COLI NOS	A070	Balantidiasis
00801	ENTEROPATHOGENIC E. COLI	A071	Giardiasis [lamblia]is]
00802	ENTEROTOXIGENIC E. COLI	A072	Cryptosporidiosis
00803	ENTEROINVASIVE E. COLI	A073	Isosporiasis
00804	ENTEROHEMORRHAGE E. COLI	A074	Cyclosporiasis
00809	OTHER INTESTINAL E. COLI INFECTIONS	A078	Other specified protozoal intestinal diseases
0081	ARIZONA GROUP OF PARACOLON BACILLI	A079	Protozoal intestinal disease, unspecified
0082	AEROBACTER AEROGENES	B3782	Candidal enteritis
0083	PROTEUS		
0084	OTHER SPECIFIED BACTERIA		
00841	OTHER SPECIFIED BACTERIA, STAPHYLOCOCCUS		
00842	OTHER SPECIFIED BACTERIA,PSEUDOMONAS		
00843	OTHER SPECIFIED BACTERIA,CAMPYLOBACTER		
00844	OTHER SPECIFIED BACTERIA, YERSINIA ENTEROCOLITICA		
00845	OTHER SPECIFIED BACTERIA, CLOSTRIDIUM DIFFICILE		
00846	OTHER SPECIFIED BACTERIA, OTHER ANAEROBES		

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00847	OTHER SPECIFIED BACTERIA, OTHER GRAM-NEGATIVE BACTERIA
00849	OTHER SPECIFIED BACTERIA, OTHER
0085	BACTERIAL ENTERITIS, NOS
11285	CANDIDAL ENTERITIS

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DENOMINATOR

Population ages 3 months through 17 years in metropolitan area¹ 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.

¹The 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.

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DENOMINATOR EXCLUSIONS
<i>Not Applicable</i>