Pediatric Quality Indicator 16 (PDI 16) Gastroenteritis Admission Rate

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Area-Level Indicator
Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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

Gastroenteritis diagnosis codes: (ACPGASD)

00861	Intes Infec Rotavirus	00869	Enteritis Nos
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	Intes Infec Calcivirus	0092	Infectious Diarrhea Nos
00866	Intes Infec Astrovirus	0093	Diarrhea Of Infect Orig
00867	Int Inf Enterovirus Nec	5589	Noninf Gastroenterit Nec

Dehydration diagnosis codes: (ACSDEHD)

2765	Hypovolemia	27651	Dehydration
27650	Volume Depletion	27652	Hypovolemia

NUMERATOR EXCLUSIONS

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)

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

Gastrointestinal abnormalities diagnosis codes: (ACGDISD)

53570	Eosinophil Gastrt Wo Hem	5568	Other Ulcerative Colitis
53571	Eosinophilc Gastrt W Hem	5569	Ulcerative Colitis Nos
538	Gi Mucositis (ulceratve)	5581	Gastroenteritis And Colitis Due To Radiation
5550	Regional Enteritis, Small Intestine	5582	Toxic Gastroenteritis And Colitis
5551	Regional Enteritis, Large Intestine	5583	Allergic Gastroenteritis And Colitis
5552	Regional Enteritis, Small Intestine With Large Intestine	55841	Eosinophilic Gastroent
5559	Regional Enteritis, Unspecified Site	55842	Eosinophilic Colitis
5560	Ulcerative Chronic Enterocolitis	5790	Celiac Disease
5561	Ulcerative Chronic Ileocolitis	5791	Tropical Sprue
5562	Ulcerative Chronic Proctitis	5792	Blind Loop Syndrome
5563	Ulcerative Chronic Proctosigmoiditis	5793	Other And Unspecified Postsurgical Nonabsorption
5564	Pseudopolyposis Of Colon	5794	Pancreatic Steatorrhea
5565	Left-sided Ulcerative Chronic Colitis	5798	Other Specified Intestinal Malabsorption
5566	Universal Ulcerative Chronic Colitis	5799	Unspecified Intestinal Malabsorption

Bacterial gastroenteritis diagnosis codes: (ACBACGD)

0030	Salmonella Gastroenteritis	0078	Other Specified Protozoal Intestinal Diseases
0040	Shigella Dysenteriae	0079	Unspecified Protozoal Intestinal Disease
0041	Shigella Flexneri	0080	Escherichia Coli
0042	Shigella Boydii	00800	E. Coli Nos
0043	Shigella Sonnei	00801	Enteropathogenic E. Coli
0048	Other Specified Shigella Infections	00802	Enterotoxigenic E. Coli

0049	Shigellosis, Nos	00803	Enteroinvasive E. Coli
0050	Staphylococcal Food Poisoning	00804	Enterohemorrhage E. Coli
0051	Botulism	00809	Other Intestinal E. Coli Infections
0052	Food Poisoning Due To Clostridium Perfringens	0081	Arizona Group Of Paracolon Bacilli
0053	Food Poisoning Due To Other Clostridia	0082	Aerobacter Aerogenes
0054	Food Poisoning Due To Vibrio Parahaemolyticus	0083	Proteus
0058	Other Bacterial Food Poisoning	0084	Other Specified Bacteria
00581	Food Poisoning Due To Vibrio Vulnificus	00841	Other Specified Bacteria, Staphylococcus
00589	Other Bacterial Food Poisoning	00842	Other Specified Bacteria,pseudomonas
0059	Food Poisoning Nos	00843	Other Specified Bacteria,campylobacter
0060	Acute Amebic Dysentery Wo Mention Of Abscess	00844	Other Specified Bacteria, Yersinia Enterocolitica
0061	Chronic Intestinal Amebiasis Wo Mention Of Abscess	00845	Other Specified Bacteria, Clostridium Difficile
0070	Balantidiasis	00846	Other Specified Bacteria, Other Anaerobes
0071	Giardiasis	00847	Other Specified Bacteria, Other Gram-negative Bacteria
0072	Coccidiosis	00849	Other Specified Bacteria, Other
0073	Intestinal Trichomoniasis	0085	Bacterial Enteritis, Nos
0074	Cryptosporidiosis	11285	Candidal Enteritis
0075	Cyclosporiasis		

DENOMINATOR

Population ages 3 months through 17 years in metropolitan area[1] 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.

[1.] 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.