

Inpatient Quality Indicator 18 (IQI 18) Gastrointestinal Hemorrhage Mortality Rate

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Hospital-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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DESCRIPTION

In-hospital deaths per 1,000 discharges with a principal diagnosis of gastrointestinal hemorrhage; or a secondary diagnosis of esophageal varices with bleeding along with a qualifying underlying principal diagnosis, for patients ages 18 years and older. Excludes discharges with a procedure for liver transplant, discharges admitted from a hospice facility, transfers to another hospital, and obstetric discharges.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report in-hospital deaths per 1,000 hospital discharges.]

NUMERATOR

Number of deaths (DISP=20) among discharges meeting the inclusion and exclusion rules for the denominator.

DENOMINATOR

Discharges for patients ages 18 years and older with either:

- a principal ICD-10-CM diagnosis code for gastrointestinal hemorrhage (**MRTGIHD***)
- a secondary ICD-10-CM diagnosis code for esophageal varices with bleeding (**FTR6GV***) when there is an associated underlying disease as the principal ICD-10-CM diagnosis (**FTR6QD***)

DENOMINATOR EXCLUSIONS

Exclude discharges:

- with any listed ICD-10-PCS procedure code for liver transplant (**LIVERTRP***)
- admitted from a hospice facility (PointOfOriginUB04=F)
- transferring to another short-term hospital (DISP=2)
- with a principal ICD-10-CM diagnosis code assigned to MDC 14 Pregnancy, Childbirth & the Puerperium (**Appendix B: MDC14PRINDX**)
- with a principal ICD-10-CM diagnosis code assigned to MDC 15 Newborns & Other Neonates with Conditions Originating in Perinatal Period (**Appendix B: MDC15PRINDX**)
- with an ungroupable DRG (DRG=999)
- with missing discharge disposition (DISP=missing), sex (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)
- with missing MDC (MDC=missing) when user indicates that MDC is provided

[Appendix B - MDC 14 and 15 Principal Diagnosis Codes](#)

* See below for code list

Gastrointestinal hemorrhage diagnosis codes: (MRTGIHD)

I8501	Esophageal varices with bleeding	K31811	Angiodysplasia of stomach and duodenum with bleeding
I8511	Secondary esophageal varices with bleeding	K3182	Dieulafoy lesion (hemorrhagic) of stomach and duodenum
K2081	Other esophagitis with bleeding	K50011	Crohn's disease of small intestine with rectal bleeding
K2091	Esophagitis, unspecified with bleeding	K50111	Crohn's disease of large intestine with rectal bleeding
K2101	Gastro-Esophageal reflux disease with esophagitis, with bleeding	K50811	Crohn's disease of both small and large intestine with rectal bleeding
K2211	Ulcer of esophagus with bleeding	K50911	Crohn's disease, unspecified, with rectal bleeding
K226	Gastro-Esophageal laceration-hemorrhage syndrome	K51011	Ulcerative (chronic) pancolitis with rectal bleeding
K250	Acute gastric ulcer with hemorrhage	K51211	Ulcerative (chronic) proctitis with rectal bleeding
K252	Acute gastric ulcer with both hemorrhage and perforation	K51311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding
K254	Chronic or unspecified gastric ulcer with hemorrhage	K51411	Inflammatory polyps of colon with rectal bleeding
K256	Chronic or unspecified gastric ulcer with both hemorrhage and perforation	K51511	Left sided colitis with rectal bleeding
K260	Acute duodenal ulcer with hemorrhage	K51811	Other ulcerative colitis with rectal bleeding
K262	Acute duodenal ulcer with both hemorrhage and perforation	K51911	Ulcerative colitis, unspecified with rectal bleeding
K264	Chronic or unspecified duodenal ulcer with hemorrhage	K5521	Angiodysplasia of colon with hemorrhage
K266	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation	K5701	Diverticulitis of small intestine with perforation and abscess with bleeding
K270	Acute peptic ulcer, site unspecified, with hemorrhage	K5711	Diverticulosis of small intestine without perforation or abscess with bleeding
K272	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation	K5713	Diverticulitis of small intestine without perforation or abscess with bleeding
K274	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage	K5721	Diverticulitis of large intestine with perforation and abscess with bleeding
K276	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation	K5731	Diverticulosis of large intestine without perforation or abscess with bleeding
K280	Acute gastrojejunal ulcer with hemorrhage	K5733	Diverticulitis of large intestine without perforation or abscess with bleeding
K282	Acute gastrojejunal ulcer with both hemorrhage and perforation	K5741	Diverticulitis of both small and large intestine with perforation and abscess with bleeding
K284	Chronic or unspecified gastrojejunal ulcer with hemorrhage	K5751	Diverticulosis of both small and large intestine without perforation or abscess with bleeding

Gastrointestinal hemorrhage diagnosis codes: (MRTGIHD)

K286	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation	K5753	Diverticulitis of both small and large intestine without perforation or abscess with bleeding
K2901	Acute gastritis with bleeding	K5781	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding
K2921	Alcoholic gastritis with bleeding	K5791	Diverticulosis of intestine, part unspecified, without perforation or abscess with bleeding
K2931	Chronic superficial gastritis with bleeding	K5793	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding
K2941	Chronic atrophic gastritis with bleeding	K625	Hemorrhage of anus and rectum
K2951	Unspecified chronic gastritis with bleeding	K6381	Dieulafoy lesion of intestine
K2961	Other gastritis with bleeding	K920	Hematemesis
K2971	Gastritis, unspecified, with bleeding	K921	Melena
K2981	Duodenitis with bleeding	K922	Gastrointestinal hemorrhage, unspecified
K2991	Gastroduodenitis, unspecified, with bleeding		

Esophageal varices with bleeding diagnosis codes: (FTR6GV)

I8511	Secondary esophageal varices with bleeding
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Qualifying diagnoses associated with a diagnosis of esophageal varices with bleeding: (FTR6QD)

B180	Chronic viral hepatitis B with delta-agent	K719	Toxic liver disease, unspecified
B181	Chronic viral hepatitis B without delta-agent	K7200	Acute and subacute hepatic failure without coma
B182	Chronic viral hepatitis C	K7201	Acute and subacute hepatic failure with coma
B188	Other chronic viral hepatitis	K7210	Chronic hepatic failure without coma
B189	Chronic viral hepatitis, unspecified	K7211	Chronic hepatic failure with coma
B190	Unspecified viral hepatitis with hepatic coma	K7290	Hepatic failure, unspecified without coma
B1910	Unspecified viral hepatitis B without hepatic coma	K7291	Hepatic failure, unspecified with coma
B1911	Unspecified viral hepatitis B with hepatic coma	K730	Chronic persistent hepatitis, not elsewhere classified
B1920	Unspecified viral hepatitis C without hepatic coma	K731	Chronic lobular hepatitis, not elsewhere classified
B1921	Unspecified viral hepatitis C with hepatic coma	K732	Chronic active hepatitis, not elsewhere classified
B199	Unspecified viral hepatitis without hepatic coma	K738	Other chronic hepatitis, not elsewhere classified
B651	Schistosomiasis due to schistosoma mansoni [intestinal schistosomiasis]	K739	Chronic hepatitis, unspecified
B652	Schistosomiasis due to schistosoma japonicum	K740	Hepatic fibrosis
B658	Other schistosomiasis	K7400	Hepatic fibrosis, unspecified
B659	Schistosomiasis, unspecified	K7402	Hepatic fibrosis, advanced fibrosis
C220	Liver cell carcinoma	K741	Hepatic sclerosis
C221	Intrahepatic bile duct carcinoma	K742	Hepatic fibrosis with hepatic sclerosis
C222	Hepatoblastoma	K743	Primary biliary cirrhosis
C223	Angiosarcoma of liver	K744	Secondary biliary cirrhosis
C224	Other sarcomas of liver	K745	Biliary cirrhosis, unspecified
C227	Other specified carcinomas of liver	K7460	Unspecified cirrhosis of liver
C228	Malignant neoplasm of liver, primary, unspecified as to type	K7469	Other cirrhosis of liver
C229	Malignant neoplasm of liver, not specified as primary or secondary	K751	Phlebitis of portal vein
C787	Secondary malignant neoplasm of liver and intrahepatic bile duct	K752	Nonspecific reactive hepatitis
C7B02	Secondary carcinoid tumors of liver	K753	Granulomatous hepatitis, not elsewhere classified
C861	Hepatosplenic T-cell lymphoma	K754	Autoimmune hepatitis
C8610	Hepatosplenic T-cell lymphoma not having achieved remission	K7581	Nonalcoholic steatohepatitis (NASH)
D015	Carcinoma in situ of liver, gallbladder and bile ducts	K7589	Other specified inflammatory liver diseases
D376	Neoplasm of uncertain behavior of liver, gallbladder and bile ducts	K759	Inflammatory liver disease, unspecified

Qualifying diagnoses associated with a diagnosis of esophageal varices with bleeding: (FTR6QD)

I81	Portal vein thrombosis	K760	Fatty (change of) liver, not elsewhere classified
I820	Budd-Chiari syndrome	K761	Chronic passive congestion of liver
K7011	Alcoholic hepatitis with ascites	K762	Central hemorrhagic necrosis of liver
K702	Alcoholic fibrosis and sclerosis of liver	K763	Infarction of liver
K7030	Alcoholic cirrhosis of liver without ascites	K765	Hepatic veno-occlusive disease
K7031	Alcoholic cirrhosis of liver with ascites	K766	Portal hypertension
K7040	Alcoholic hepatic failure without coma	K767	Hepatorenal syndrome
K7041	Alcoholic hepatic failure with coma	K7681	Hepatopulmonary syndrome
K709	Alcoholic liver disease, unspecified	K7689	Other specified diseases of liver
K710	Toxic liver disease with cholestasis	K769	Liver disease, unspecified
K7110	Toxic liver disease with hepatic necrosis, without coma	K77	Liver disorders in diseases classified elsewhere
K7111	Toxic liver disease with hepatic necrosis, with coma	K830	Cholangitis
K712	Toxic liver disease with acute hepatitis	K8301	Primary sclerosing cholangitis
K713	Toxic liver disease with chronic persistent hepatitis	K9182	Postprocedural hepatic failure
K714	Toxic liver disease with chronic lobular hepatitis	Q265	Anomalous portal venous connection
K7150	Toxic liver disease with chronic active hepatitis without ascites	Q266	Portal vein-hepatic artery fistula
K7151	Toxic liver disease with chronic active hepatitis with ascites	T8642	Liver transplant failure
K716	Toxic liver disease with hepatitis, not elsewhere classified	T8643	Liver transplant infection
K717	Toxic liver disease with fibrosis and cirrhosis of liver	T8649	Other complications of liver transplant
K718	Toxic liver disease with other disorders of liver		

Liver transplant procedure codes: (LIVERTRP)

0FY00Z0	Transplantation of liver, allogeneic, open approach	0FY00Z2	Transplantation of liver, zooplastic, open approach
0FY00Z1	Transplantation of liver, syngeneic, open approach		