



Learning Objectives

- At the completion of this educational activity, the learner will be able to:
 - Recognize common GI diagnoses and their coding requirements
 - Identify query opportunities that are supported by clinical indicators
 - Recall newly created ICD-10 codes and AHA Coding Clinics related to GI diagnoses

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Diseases of Digestive System

- K20–K31 Diseases of the esophagus, stomach, and duodenum
- K40–K46 Hernias
- K50–K52 Non-infectious enteritis and colitis
- K55-K64 Other disease of the intestine
- K65–K68 Diseases of the peritoneum and retroperitoneum
- K70-K77 Diseases of the liver
- K80–K87 Diseases of the gallbladder, biliary tree, and pancreas
- K90–K95 Other diseases of the digestive system
- 185 Esophageal varices

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Gastroesophageal Reflux Disease (GERD)

- Gastroesophageal reflux disease
 - With esophagitis (K21.0)
 - Without esophagitis (K21.9)
- Erosive esophagitis, ulcerative esophagitis
 - Without bleeding (K22.10)
 - With bleeding (K22.11)

Other Diseases of the Esophagus Barrett's esophagus (K22.7XX) Eosinophilic esophagitis (K20.0) Candida esophagitis (B37.81) Esophageal ulcer due to medication (K22.1X and T509.05A) or poisoning/suicide attempts Strictures/stenosis (K22.2) Casinophilic Esophagitis Eosinophilic Esophagitis Erosive esophagitis with stricture Erosive esophagitis with stricture

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Ulcers of the Esophagus

- Query opportunities
 - Bleeding
 - Establish causal relationship with endoscopic finding
 - Acute blood loss anemia
 - Nutritional diagnosis

Mallory-Weiss Tear (K22.6) • Gastroesophageal laceration—hemorrhagic syndrome https://en.wikipedia.org/wiki/Mallory/46214801493Weiss_syndrome#/media/File-Mallory_Weiss_Teartif

Esophageal Perforation (non-traumatic) (K22.3) • Boerhaave's syndrome - "The patient ate a meal that included veal soup, cabbage boiled with mutton, calf sweetbreads, spinach, duck, two larks, apple compote, bread, and beer" - Several hours later patient vomited forcefully, ruptured his esophagus, and died in agony days later

Secondary Esophageal Varices • Without bleeding (I85.10) Fig. 1 • With bleeding (I85.11) Fig. 2 Fig. 2 https://nowinpoda.org/wiki/File Esophageal_variess_wate_jpg Fig. 2 https://nowinpoda.org/wiki/File Esophageal_variess_being_banded_showing_white_ball_tign_and_wate_tign.jpg

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Esophageal Varices

- Query opportunities
 - Underlying cause (code first)
 - Link the diagnosis with the bleeding
 - Hypovolemic shock
 - ABLA

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Gastric and Duodenal Ulcers

- Gastric ulcers (K25.X)
 - Includes gastric erosions, stomach and pyloric ulcers
- Duodenal ulcers (K26.X)
 - Includes duodenal erosions, postpyloric ulcer
- Gastrojejunal ulcers (K28.X)
 - Marginal, anastomotic

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Gastric and Duodenal Ulcers

- Acute, chronic (default)
- Hemorrhage
- Perforation
- Both hemorrhage and perforation

Examples:

- Gastric ulcer with hemorrhage (K25.4)
- Acute duodenal ulcer with perforation (K26.1)

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Gastrointestinal Hemorrhage Patient is admitted with hematemesis. Upper endoscopy report: - Duodenal ulcer, no active bleeding present. A clip was placed on a visible vessel. https://en.wikjpedia.org/wik/Upper_gastrointestinal_bleeding/mieda/rife.tdu_vim_dp.jpg

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GI Bleed

- GI bleeding with multiple possible sources (AHA Coding Clinic, Third Quarter 2005, pp. 17–18)
- GI bleeding with a single finding (AHA *Coding Clinic,* Second Quarter 2007, p. 13)
 - The coder should not assume a causal relationship between gastrointestinal bleeding and single finding. The physician must identify the source of bleeding and link the clinical findings, as these findings may be unrelated to the bleeding.
- If cause of bleeding is not specified—QUERY!
- A finding not actively bleeding may have bled—QUERY!

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Query Opportunities

- Bleeding
 - Link must be specifically documented
 - Even clean-based ulcers may have bled
- Acute blood loss anemia
- Hypovolemic shock
- Perforation complications
 - Sepsis/septic shock
 - Intra-abdominal/peritoneal abscess

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Angiodysplasia = Arteriovenous Malformations

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"Assign code 537.82, *Angiodysplasia* of stomach and duodenum (without mention of hemorrhage), for the gastric *AV malformation* not stated as congenital" (AHA *Coding Clinic*, Third Quarter 1996, p. 10).

- Angiodysplasia (colon) (cecum):
 - Bleeding (K55.21)
 - Other/unspecified (K55.20)
 - Gastric/duodenal (K31.819), with bleeding (K31.811)
 - Small intestinal—no specific code; suggest use of K55.20 or K55.21
- Most AVMs are acquired—CKD/ESRD. Congenital arteriovenous malformation of digestive system vessel (Q27.33) is rare.

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Hernias



- Femoral (K41.xx)
- Hiatal (esophageal, diaphragmatic, paraesophageal) (K44.x)
- Incisional (K43.x)
- Inguinal (K40.xx)
- Umbilical (K42.x)
- Ventral (K43.x)

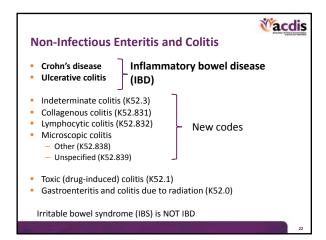




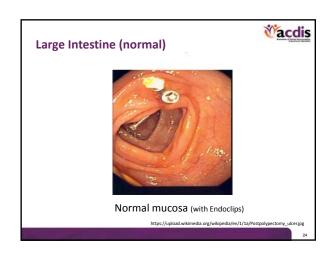
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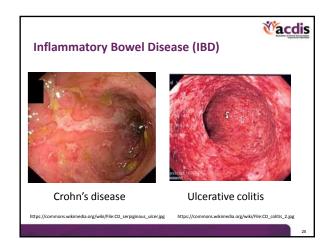
Hernias

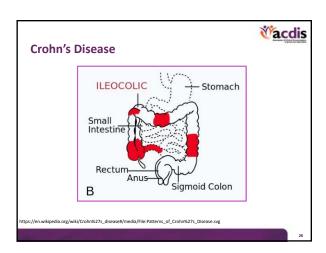
- Obstruction
 - Incarcerated, irreducible, strangulated
- Gangrene
 - Acute infarction of intestine includes the terms "gangrene" and "necrosis"
- Both obstruction and gangrene (codes to gangrene)
- Inguinal and femoral—unilateral or bilateral and recurrent or not specified as recurrent

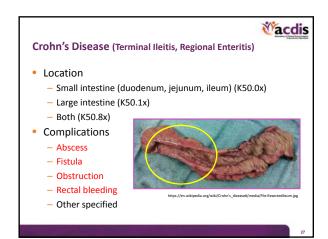


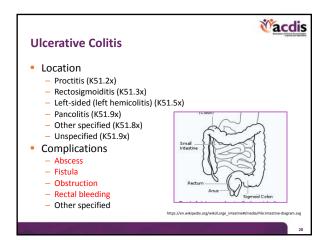
Crohn's Disease	Ulcerative Colitis
Mouth to anus—especially small intestine	Limited to large intestine
Skip lesions (patchy)	Continuous pattern
Extends through entire thickness of bowel wall	Tends to be limited to bowel mucosa
Strictures and fistula are common	Strictures and fistula are uncommon
Bleeding can occur	Bleeding very common
Recurs following surgery	Surgery (colectomy) curative











IBD Query Opportunities

- Malnutrition
- Acute blood loss anemia
- Sepsis (from abscess)
- Hypovolemic shock

• Pockets forming in weak spot of the bowel wall

- Not infected

• Complications

- None (K57.30)

- Bleeding (K57.31)

https://vimeo.com/184196867

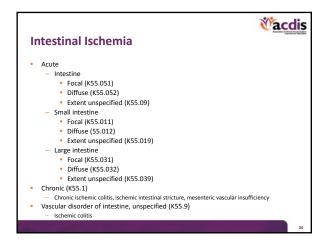
Diverticulitis Break in diverticulum wall Results in infection Often walled off by mesentery or pericolic fat (microperforation) Complications With perforation, peritonitis or abscess (K57.20) With perforation, peritonitis or abscess and

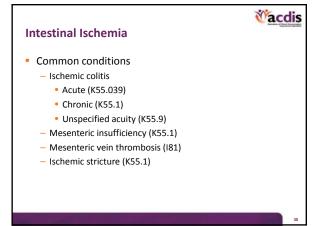
bleeding (K57.21)

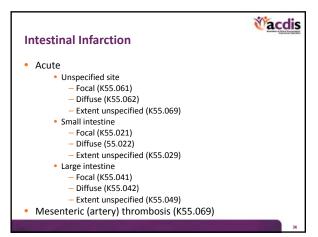
- With bleeding only (K57.33)

Diverticular Disease of the Intestine • Query opportunities - ABLA - Hypovolemic shock - Sepsis, septic shock - "Fluid collection" on CT scan • Abscess

Vascular Disorders of the Intestine Ischemia Tissue injury due to insufficient blood supply Reversible Intestinal angina Acute, chronic Infarction Tissue death due to lack of blood supply Necrosis or gangrene Not reversible







Intestinal Infarction Common conditions Acute intestinal infarction (emboli, thrombus) Volvulus, adhesions Incarcerated or strangulated hernia can infarct (gangrene)

Fluid Collections • Where is it located? - Abdominal wall (L02.211) - Intra-abdominal or peritoneal cavity (K65.1) - Retroperitoneal (K68.19) • Cause? - Diverticulitis - Post-procedural (T81.4XXA + infection code) - Ascites—liver disease/neoplasm - Pancreatitis—pseudocyst, phlegmon, necrosis • Infected or sterile?

Fluid Collections • Abscess (phlegmon) - Clues: • "Infected" fluid collection • Pus • Antibiotics • Drainage procedures • Evidence of infection or sepsis • Query if diagnosis is not clear

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Diseases of the Liver	
"Transaminitis"	
Transaminases (ALT/AST) do not get "inflamed"Query for cause of transaminase elevation—shock liver,	
toxins/drugs, infections	
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Shock Liver	
Clinician: Ischemic hepatitis means shock liver Coder Ischemic hepatitis does not man shock liver	
 Coder: Ischemic hepatitis does not mean shock liver 	
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Shock Liver	
 Shock liver (AHA Coding Clinic, Second Quarter 2014) 	
 Acute and subacute hepatic (liver) failure 	
• With coma (K72.00)	
With coma (K72.01)Ischemic hepatitis	
 Other specified inflammatory liver diseases (K75.89), or Hepatic failure (K72.XX)—query for acuity 	
repaire failure (K72.AA)—query for acuity	

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Hepatic Encephalopathy	
Patient with alcoholic cirrhosis is admitted with	
confusion. He states his last drink was the evening prior	-
to admission. Oriented in person only, jaundiced,	
asterixis.	
Diagnosis: Hepatic encephalopathy caused by alcoholic cirrhosis	
(ICD-10: Alcoholic hepatic failure without coma, K70.40)	
(ICD-10. Alcoholic hepatic failure without coma, K70.40)	
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Is Hepatic Encephalopathy (HE) the Same as	
Hepatic Coma?	
HE stages from mild symptoms to coma	
Coma—a state of deep, unarousable unconsciousness	
AHA Coding Clinic, Second Quarter 2016, p. 35	
"Hepatic encephalopathy is <u>not</u> synonymous with hepatic	
coma"	
 "It is the physician's responsibility to state if patient has hepatic encephalopathy with or without coma" 	
"Assign code for <u>hepatic failure</u> , unspecified, without coma	
(K72.90) if only documentation is 'hepatic encephalopathy'"	
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Hepatic Encephalopathy	
• Query opportunity:	
Is hepatic coma present?Intubated	
Unresponsive/minimal or no response to painful stimuli	

Unable to protect airwayGrade (or stage) 4

• In ICU

Disorders of the Gallbladder, Biliary Tree, and Pancreas



- Jaundice
 - Cholestatic (intrahepatic)—hepatocellular disease
 - Hepatitis (viral, toxins, drugs)
 - Obstructive (extrahepatic)—mechanical blockage of bile ducts
 - Choledocholithiasis
 - Tumors
 - Sequence the complication (obstruction) first if this is focus of treatment and not the malignancy (AHA Coding Clinic, First Quarter 2016, pp. 18–19)
 - Strictures (benign)

Bile Duct Obstruction

Normal biliary tree and pancreas

Dilated bile duct (obstruction)

https://en.wikipedia.org/wiki/Bile_duct#/media/File:ER

Obstructivebilarydiation.png

Jaundice

- Query opportunity:
 - Suggests obstructive jaundice:
 - Imaging shows dilated biliary tree
 - Serum transaminases (ALT/AST) slightly or moderately elevated in relation to alkaline phosphatase level
 - Vitamin K corrects prolonged prothrombin time/INR
 - Jaundice with RUQ pain
 - Cholangitis

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Pancreatitis

- Acuity
- Cause
 - Alcohol
 - Biliary (gallstone)
 - Medications
 - Idiopathic
- Severity—new 5th digit level
 - Without necrosis or infection (0)
 - With uninfected necrosis (1)
 - With infected necrosis (pancreatic abscess, phlegmon) (2)

Accidental Perforation/Laceration During a Procedure



- "If the physician does not explicitly document whether the condition is a complication of the procedure, then the physician should be queried for clarification" (AHA Coding Clinic, Third Quarter 2009, p. 5)
- Physician is responsible to distinguish a condition as a complication—"only a physician can diagnose a condition, and the <u>physician must explicitly document whether the</u> <u>condition is a complication</u>" (AHA *Coding Clinic*, First Quarter 2011, pp. 13–14)

If documentation is not clear—QUERY!



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