



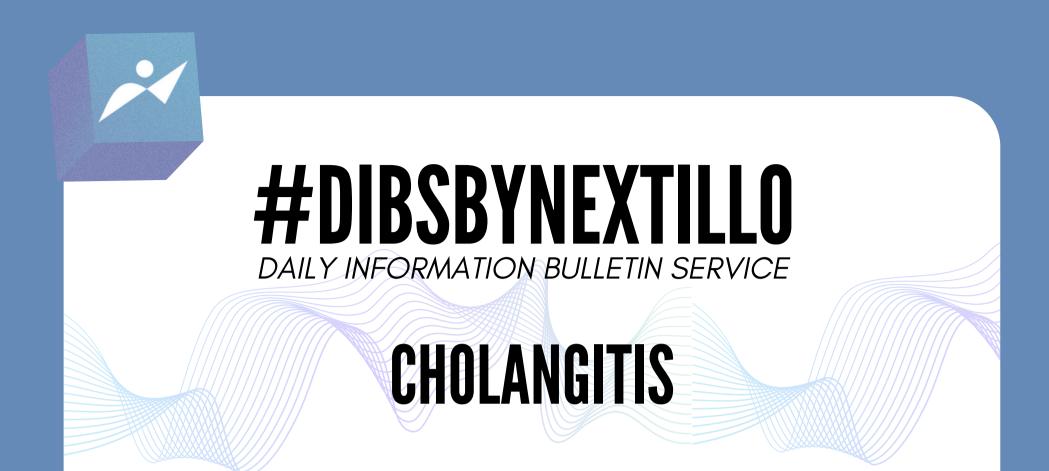


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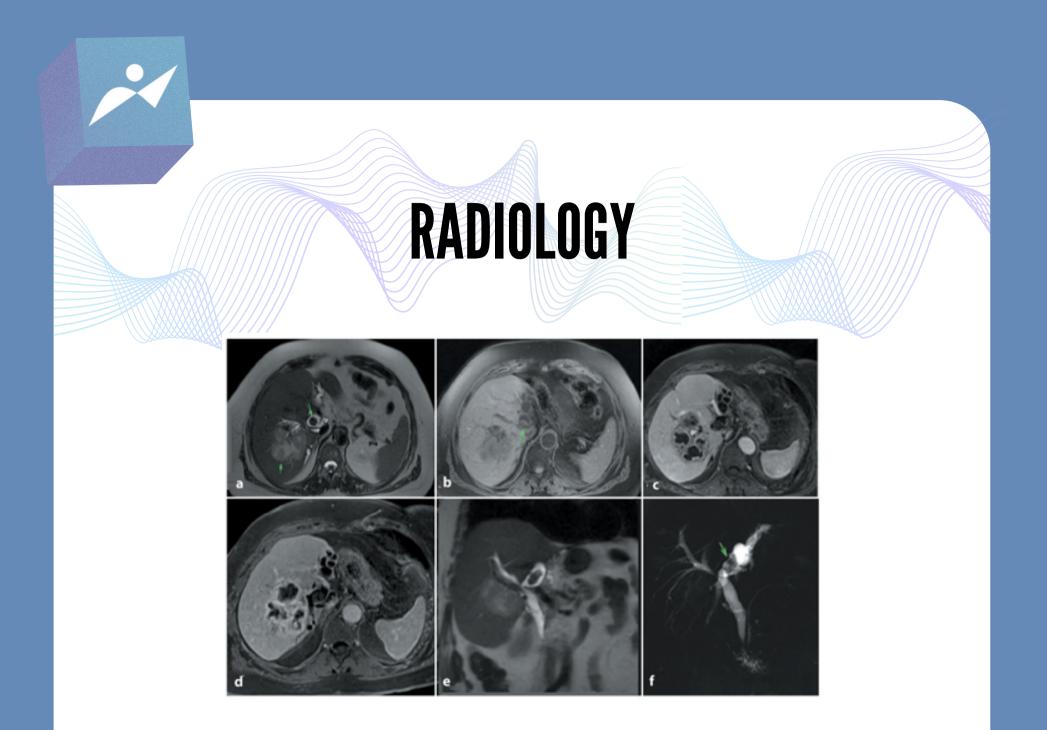


Cholangitis is inflammation of the bile ducts, caused by a bacterial infection.

Etiology:

Bacterial infection ascending from the duodenum, is a common cause. It can be associated with choledocholithiasis (presence of gallstones in the common bile duct) or other conditions leading to bile duct obstruction.





A magnetic resonance cholangiopancreatography image shows dilatation of the entire biliary tree, with multiple hypointense intraluminal defects caused by stones.



PATHOPHYSIOLOGY

Bacterial Ascension:

Bacteria from the intestines, particularly the duodenum, ascend into the biliary tree. This ascent is often facilitated by conditions like choledocholithiasis, strictures, or other factors causing bile duct obstruction.

Biliary Stasis:

Stagnant bile provides an environment conducive to bacterial overgrowth and infection.

Bacterial Infection:

Bacteria, primarily gram-negative organisms like Escherichia coli, gain access to the bile ducts.

Inflammatory Response:

Inflammatory mediators are released, contributing to systemic symptoms and local complications.



CLINICAL FEATURES

Charcot's Triad:

• The classic triad of symptoms includes fever, jaundice, and right upper quadrant abdominal pain.

• This triad is a hallmark of cholangitis and helps in clinical diagnosis.



Charcot's cholangitis triad

Reynolds' Pentad (Severe Cases):

• In more severe cases, patients may exhibit altered mental status and signs of shock, in addition to the classic triad.

• This constellation of symptoms is known as Reynolds' pentad.

MC symptom of sepsis in Cholangitis is Chills.



DIAGNOSIS

- **Ultrasound:** Initial imaging to assess the biliary system and detect gallstones or ductal dilatation.
- **CT Scan:** Provides detailed images of the abdominal area and helps identify biliary obstructions, inflammation, or abscesses.
- Magnetic Resonance Cholangiopancreatography (MRCP): Non-invasive imaging to visualize the bile ducts and identify any abnormalities.
- **Invasive Procedure:** Combines endoscopy and fluoroscopy to directly visualize the bile ducts, obtain samples, and perform therapeutic interventions like stone removal.
- **Percutaneous Transhepatic Cholangiography (PTC):** Involves injecting contrast dye into the liver to visualize the bile ducts, especially in cases where ERCP is not feasible.
- **Blood Cultures:** Obtaining blood cultures to identify the specific bacteria causing the infection can guide antibiotic therapy.



MANAGEMENT

Antibiotic Therapy:

• Broad-spectrum antibiotics are initiated promptly to target the bacterial infection.

• Empirical coverage often includes agents effective against gram-negative bacteria.

Biliary Drainage:

• Endoscopic Retrograde Cholangiopancreatography (ERCP) is Preferred for both diagnosis and therapeutic intervention. It allows for the removal of stones and the placement of stents to relieve biliary obstruction.

• Percutaneous Transhepatic Cholangiography (PTC) is an alternative when ERCP is not feasible, involves draining the bile duct externally.





Question:

What is the classic triad of symptoms associated with cholangitis?

A. Fever, abdominal pain, nausea

- B. Jaundice, fever, cough
- C. Fever, jaundice, right upper quadrant abdominal pain
- D. Diarrhea, abdominal bloating, constipation

Answer:

C. Fever, jaundice, right upper quadrant abdominal pain

