

# Cholangitis

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# Definition

**Cholangitis** is an inflammation of the bile duct system/ biliary channels CBD ,Common hepatic duct, bile ducts. Any obstruction to the flow of bile through the biliary channels leads to the contamination of the bile by bacteria thus resulting in cholangitis ..

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# Causes

- ❖ Gall stone migrate into the CBD
- ❖ Choledocholithiasis
- ❖ Hepatolithiasis
- ❖ Biliary strictures
- ❖ Parasites ( ascaris lumbricoides)
- ❖ Biliary stent
- ❖ Choledochal cyst
- ❖ Post ERCP

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# Causes

## Bacteria causing cholangitis

- A. E-coli
- B. Klebsiella pneumonia
- C. Pseudomonas
- D. Enterococcus
- E. Enterobacter

# Clinical features

## Charcot's triad

- Fever
- Epigastric or upper right quadrant pain
- Jaundice

## Reynold's pentad

- Fever
- Jaundice
- Right Upper quadrant pain
- Septic shock
- Mental status changes

# Diagnosis

- ❖ CBC : leukocytosis
- ❖ Hyperbilirubinemia
- ❖ Elevated alkaline phosphatase
- ❖ Elevated transaminase
- ❖ Ultrasound : may show gall stones ,dilated bile duct , and biliary obstruction

# Treatment

- Intravenous fluids
- Intravenous Antibiotics
- Analgesic

**If the symptoms persist despite all these measures then**

Emergency biliary channels should be decompressed  
, CBD stone must be retrieved by

**ERCP** : endoscopic retrograde

cholangiopancreatography and stent should be placed  
to drain bile

# Treatment

In case where ERCP could not be successful

**PTC** (Percutaneous transhepatic cholangiography) should be performed to decompress biliary channels



**Thank you**