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Bile duct stricture

A bile duct stricture is an abnormal narrowing, most often of the common bile duct. This is a tube that moves bile from the liver to the small intestine. Bile is a substance that helps with digestion.

Causes

A bile duct stricture is often caused by injury to the bile ducts during surgery. For example, it may occur after surgery to remove the gallbladder.

Other causes of this condition include:

- Cancer of the bile duct, liver or pancreas
- Damage and scarring due to a gallstone in the bile duct
- Damage or scarring after gallbladder removal
- Pancreatitis
- Primary sclerosing cholangitis

Symptoms

Symptoms include:

- Abdominal pain on the upper right side of belly
- Chills
- Fever
- Itching
- General feeling of discomfort
- Loss of appetite
- Jaundice
- Nausea and vomiting
- Pale or clay-colored stools

Exams and Tests

The following tests can help diagnose this condition:

- Endoscopic retrograde cholangiopancreatography (ERCP)
- Percutaneous transhepatic cholangiogram (PTC)
- Magnetic resonance cholangiopancreatography (MRCP)
- Endoscopic ultrasound (EUS)

The following blood tests can help reveal a problem with the biliary system.

- Alkaline phosphatase (ALP) is higher than normal.
- GGT enzyme level is higher than normal.
- Bilirubin level is higher than normal.

This condition may also alter the results of the following tests:

- Amylase level
- Lipase level
- Urine bilirubin
- Prothrombin time (PT)

Treatment

The goal of treatment is to correct the narrowing. This will allow bile to flow from the liver into the intestine.

This may involve:

- Surgery
- Endoscopic or percutaneous dilation of the stricture or insertion of stents through the stricture

If surgery is done, the stricture is removed. The common bile duct will be rejoined with the small intestine.

In some cases, a tiny metal or plastic mesh tube (stent) is placed across the bile duct stricture to keep it open.

Outlook (Prognosis)

Treatment is successful most of the time. Long-term success depends on the cause of the stricture.

Possible Complications

Inflammation and narrowing of the biliary duct may return in some people. There is a risk for infection above the narrowed area. Strictures that remain for a long period can lead to liver damage (cirrhosis).

When to Contact a Medical Professional

Contact your health care provider if symptoms recur after pancreatitis, cholecystectomy, or other biliary surgery.

Alternative Names

Bile duct stricture; Biliary stricture

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Review Date 5/14/2024

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