17/07/2019 Gallstones

Gallstones

Definition

Gallstones are hard deposits that form inside the gallbladder. Gallstones may be as small as a grain of sand or as large as a golf ball.

Alternative Names

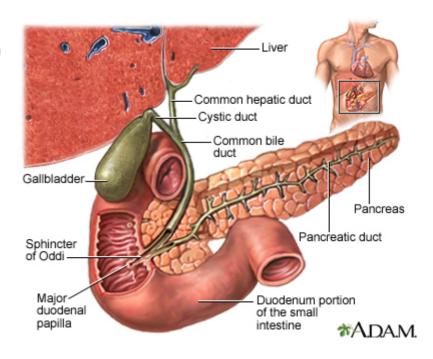
Cholelithiasis; Gallbladder attack; Biliary colic; Gallstone attack; Biliary calculus: chenodeoxycholic acids (CDCA); Ursodeoxycholic acid (UDCA, ursodiol); Endoscopic retrograde cholangiopancreatography (ERCP) - gallstones

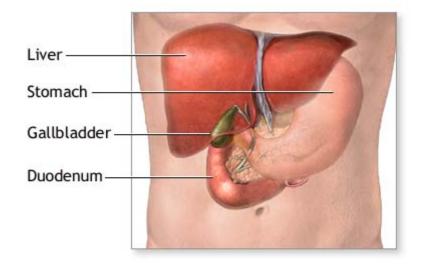
Causes

The cause of gallstones varies. There are two main types of gallstones:

- Stones made of cholesterol -This is the most common type.
 Cholesterol gallstones are not
 related to cholesterol level in the
 blood. In most cases, they are
 not visible on CT scans.
- Stones made of bilirubin These are called pigment stones. They occur when red blood cells are destroyed and too much bilirubin is in the bile.

Gallstones are more common in women, native Americans, Hispanics, people over age 40, and people who are overweight. Gallstones may also run in families.







The following factors also make you more likely to develop gallstones:

- Bone marrow or solid organ transplant
- Diabetes
- Failure of the gallbladder to empty bile properly (this is more likely to happen during pregnancy)
- Liver cirrhosis and biliary tract infections (pigmented stones)
- Medical conditions that cause too many red blood cells to be destroyed
- Rapid weight loss from eating a very low-calorie diet, or after weight loss surgery
- Receiving nutrition through a vein for a long period of time (intravenous feedings)
- Taking birth control pills

Symptoms

Many people with gallstones do not have any symptoms. The gallstones are often found during a routine x-ray, abdominal surgery, or other medical procedure.

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However, if a large stone blocks a tube or duct that drains the gallbladder, you may have a cramping pain in the middle to right upper abdomen. This is known as biliary colic. The pain goes away if the stone passes into the first part of the small intestine.

Symptoms that may occur include:

- Pain in the right upper or middle upper abdomen for at least 30 minutes. The pain may be constant or cramping. It can feel sharp or dull.
- Fever
- Yellowing of skin and whites of the eyes (jaundice)

Other symptoms may include:

- Clay-colored stools
- Nausea and vomiting

Exams and Tests

Tests used to detect gallstones or gallbladder inflammation include:

- Ultrasound, abdomen
- CT scan, abdomen
- Endoscopic retrograde cholangiopancreatography (ERCP)
- Gallbladder radionuclide scan
- Endoscopic ultrasound
- Magnetic resonance cholangiopancreatography (MRCP)
- Percutaneous transhepatic cholangiogram (PTCA)

Your health care provider may order the following blood tests:

- Bilirubin
- Liver function tests
- Pancreatic enzymes

Treatment

SURGERY

Most of the time, surgery is not needed unless symptoms begin. However, people planning weight loss surgery may need to have gallstones removed before undergoing the procedure. In general, people who have symptoms will need surgery right away or soon after the stone is found.

- A technique called laparoscopic cholecystectomy is most commonly used. This procedure
 uses small surgical incisions, which allow for a faster recovery. A patient can often go home
 from the hospital within 1 day of surgery.
- In the past, open cholecystectomy (gallbladder removal) was most often done. However, this technique is less common now.

Endoscopic retrograde cholangiopancreatography (ERCP) and a procedure called a sphincterotomy may be done to find or treat gallstones in the common bile duct.

MEDICINES

Medicines may be given in pill form to dissolve cholesterol gallstones. However, these drugs may take 2 years or longer to work, and the stones may return after treatment ends.

Rarely, chemicals are passed into the gallbladder through a catheter. The chemical rapidly dissolves cholesterol stones. This treatment is hard to perform, so it is not done very often. The chemicals used can be toxic, and the gallstones may return.

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LITHOTRIPSY

Shock wave lithotripsy (ESWL) of the gallbladder has also been used for people who cannot have surgery. This treatment is not used as often as it once was because gallstones often come back.

Outlook (Prognosis)

You may need to be on a liquid diet or take other steps to give your gallbladder a rest after you are treated. Your health care provider will give you instructions when you leave the hospital.

The chance of symptoms or complications from gallstones surgery is low. Nearly all people who have gallbladder surgery do not have their symptoms return.

Possible Complications

Blockage by gallstones may cause swelling or infection in the:

- Gallbladder (cholecystitis)
- Tube that carries bile from the liver to the gallbladder and intestines (cholangitis)
- Pancreas (pancreatitis)

When to Contact a Medical Professional

Call your provider if you have:

- Pain in the upper part of your abdomen
- Yellowing of the skin or whites of the eyes

Prevention

In most people, gallstones can't be prevented. In people who are obese, avoiding rapid weight loss may help prevent gallstones.

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Reviewed By: Michael M. Phillips, MD, Clinical Professor of Medicine, The George Washington University School of Medicine, Washington, DC. Also reviewed by David Zieve, MD, MHA, Medical Director, Brenda Conaway, Editorial Director, and the A.D.A.M. Editorial team.