

**Patient information: Coronary heart disease (The Basics)** [View in Spanish](#)

Written by the doctors and editors at UpToDate

**What is coronary heart disease?** — Coronary heart disease is a condition that puts you at risk for heart attack and other forms of heart disease. In people who have coronary heart disease, the arteries that supply blood to the heart get clogged with fatty deposits ([figure 1](#)). Other names for this disease are "coronary artery disease" or just "heart disease."

**What are the symptoms of coronary heart disease?** — Many people with coronary heart disease have no symptoms. In fact, the first symptom of the disease can be a heart attack ([figure 2](#)). That's why it is so important to know how to spot a heart attack.

The symptoms of a heart attack can include:

- Pain, pressure, or discomfort in the center of the chest
- Pain, tingling, or discomfort in other parts of the upper body, including the arms, back, neck, jaw, or stomach
- Shortness of breath
- Nausea, vomiting, burping, or heartburn
- Sweating or having cold, clammy skin
- A racing or uneven heartbeat
- Feeling dizzy or lightheaded

If these symptoms last more than 10 minutes or they keep coming and going, call for an ambulance (in the US and Canada, dial 9-1-1) right away. Do not try to get to the hospital on your own.

Some people with coronary heart disease have chest pain even when they are not having a heart attack. This is most likely to happen when they are walking, going up stairs, or moving around. But if you have chest pain that is new or different than pain you have had before, you should see a doctor right away.

**Is there a test for coronary heart disease?** — Yes. If your doctor or nurse thinks you might have coronary heart disease, he or she might order blood tests and one or more of these tests:

- **An electrocardiogram ("ECG" or "EKG")** – This test measures the electrical activity in your heart.
- **A stress test** – During a stress test, you might be asked to run or walk on a treadmill while you also have an ECG. Physical activity increases the heart's need for blood. This test helps doctors see if the heart is getting enough blood. If you cannot walk or run, your doctor might do this test by giving you a medicine to make your heart pump faster.
- **An echocardiogram** – This test uses sound waves to create an image of your heart as it beats.
- **Cardiac catheterization (also called "cardiac cath")** – During this test, the doctor puts a thin tube into a blood vessel in your leg or arm. Then he or she moves the tube up to your heart. Next, the doctor puts a dye that shows up on X-ray into the tube. This part of the test is called "coronary angiography." It can show whether any of the arteries in your heart are clogged.

**How is coronary heart disease treated?** — The main treatments for coronary heart disease are:

- **Lifestyle changes** – Here are some things you can do to reduce your risk of heart attack and death:

- Quit smoking, if you smoke.
- Eat lots of fruits and vegetables and low-fat dairy products, but not a lot of meat or fatty foods.
- Walk or do some form of physically activity on most days of the week.
- Lose weight, if you are overweight.
- **Medicines** – The medicines to treat heart disease are very important. Some medicines lower your risk of heart attacks and can help you live longer. But you must take them every day, as directed. Medicines your doctor might prescribe include:
  - Medicines called statins, which lower cholesterol
  - Medicines to lower blood pressure
  - Aspirin or other medicines that help prevent blood clots
  - Medicines to treat diabetes

People who have chest pain caused by coronary heart disease (called "angina") can also get medicines to relieve their pain. These medicines might include "nitrates," "beta blockers," and others.

Some people with coronary heart disease can also have:

- **A stent procedure** (also known as "angioplasty") – During this procedure, the doctor puts a thin plastic tube with a balloon at the end of it into the blocked artery, and uses a tiny balloon to open the blockage. Then the doctor leaves a tiny mesh tube called a "stent" inside the artery to hold it open.
- **Bypass surgery** (also known as "coronary artery bypass grafting" or CABG) – During bypass surgery, the doctor removes a piece of blood vessel from another part of the body. Then he or she reattaches the blood vessel above and below the area that is clogged. This re-routes blood around the clog, and allows it to get to the part of the heart that was not getting blood (figure 3).

If your doctor recommends stenting or bypass surgery, ask these questions:

- What are the benefits of this procedure for me? Will the procedure help me live longer? Will it reduce my chance of having a heart attack? Will I feel better if I have this procedure?
- What are the risks of the procedure?
- What happens if I don't have this procedure?

### **More on this topic**

[Patient information: Medicines after a heart attack \(The Basics\)](#)

[Patient information: Heart attack \(The Basics\)](#)

[Patient information: Heart attack recovery \(The Basics\)](#)

[Patient information: Chest pain \(The Basics\)](#)

[Patient information: High blood pressure in adults \(The Basics\)](#)

[Patient information: High cholesterol \(The Basics\)](#)

[Patient information: Echocardiogram \(The Basics\)](#)

[Patient information: ECG and stress test \(The Basics\)](#)

[Patient information: Nuclear heart testing \(The Basics\)](#)

[Patient information: Cardiac catheterization \(The Basics\)](#)

[Patient information: Coronary heart disease in women \(The Basics\)](#)

[Patient information: Angioplasty and stenting for the heart \(The Basics\)](#)

[Patient information: Treatment choices for angina \(chest pain\) \(The Basics\)](#)

[Patient information: Can foods or supplements lower cholesterol? \(The Basics\)](#)

[Patient information: Coronary artery bypass graft surgery \(The Basics\)](#)

[Patient information: High cholesterol and lipids \(hyperlipidemia\) \(Beyond the Basics\)](#)

[Patient information: Heart attack \(Beyond the Basics\)](#)

[Patient information: Aspirin in the primary prevention of cardiovascular disease and cancer \(Beyond the Basics\)](#)

[Patient information: Chest pain \(Beyond the Basics\)](#)

[Patient information: Medications for angina \(Beyond the Basics\)](#)

[Patient information: Angina treatment — medical versus interventional therapy \(Beyond the Basics\)](#)

[Patient information: Heart stents and angioplasty \(Beyond the Basics\)](#)

[Patient information: Coronary artery bypass graft surgery \(Beyond the Basics\)](#)

[Patient information: Recovery after coronary artery bypass graft surgery \(CABG\) \(Beyond the Basics\)](#)

All topics are updated as new evidence becomes available and our [peer review process](#) is complete.

**This topic retrieved from UpToDate on:** Aug 05, 2015.

The content on the UpToDate website is not intended nor recommended as a substitute for medical advice, diagnosis, or treatment. Always seek the advice of your own physician or other qualified health care professional regarding any medical questions or conditions. The use of UpToDate content is governed by the [UpToDate Terms of Use](#). ©2015 UpToDate, Inc. All rights reserved.

Topic 15331 Version 15.0