

What Is Cholesterol?

To understand high blood cholesterol it is important to know more about cholesterol.

- Cholesterol is a waxy, fat-like substance that is found in all cells of the body. Your body needs some cholesterol to work the right way however, it makes all the cholesterol it needs.
- Cholesterol is also found in some of the foods you eat.
- Your body uses cholesterol to make hormones, vitamin D, and substances that help you digest foods.



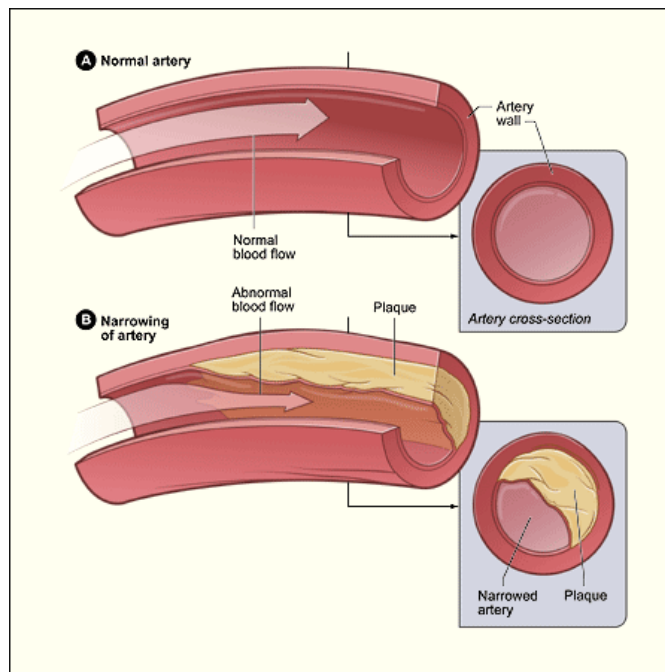
Blood is watery, and cholesterol is fatty. Just like oil and water, the two do not mix. To travel in the bloodstream, cholesterol is carried in small packages called lipoproteins. Two kinds of lipoproteins carry cholesterol throughout your body. It is important to have healthy levels of both:

- Low-density lipoprotein (LDL) cholesterol is sometimes called bad cholesterol
- High-density lipoprotein (HDL) cholesterol is sometimes called good cholesterol

What Is High Blood Cholesterol?

Too much cholesterol in the blood, or high blood cholesterol, can be serious. People with high blood cholesterol have a greater chance of getting heart disease. High blood cholesterol on its own does not cause symptoms, so many people are unaware that their cholesterol level is too high.

Cholesterol can build up in the walls of your arteries (blood vessels that carry blood from the heart to other parts of the body). This buildup of cholesterol is called plaque. Over time, plaque can cause narrowing of the arteries. This is called atherosclerosis or hardening of the arteries



Special arteries, called coronary arteries, bring blood to the heart. Narrowing of your coronary arteries due to plaque can stop or slow down the flow of blood to your heart. When the arteries narrow, the amount of oxygen-rich blood is decreased. This is called coronary artery disease. Large plaque areas can lead to chest pain called angina. Angina happens when the heart does not receive enough oxygen-rich blood and is a common symptom of coronary artery disease.

Some plaques have a thin covering and can burst (rupture), releasing cholesterol and fat into the bloodstream. The release of cholesterol and fat may cause your blood to clot. A clot can block the flow of blood. This blockage can cause angina or a heart attack

Lowering your cholesterol level decreases your chances for having plaque burst and causing a heart attack. Lowering cholesterol may also slow down, reduce, or even stop plaque from building up.