

A brief overview of cholesterol

While everyone knows about cholesterol, few know what it really is. To put it simply, cholesterol is a waxy, fat-like substance that plays a vital role in building healthy cells, producing hormones and aiding digestion.

The issue with cholesterol is that while it is essential for the body, too much of it in the blood can increase the risk of heart disease and stroke. Hence it needs to be monitored. To assess cholesterol levels, doctors often recommend a lipid profile test, which provides a detailed picture of the types of fats in the blood.

What is a Lipid Profile?

A lipid profile, also called a lipid panel, is a blood test that measures different kinds of fats. It typically includes:

- Total Cholesterol: The overall amount of cholesterol in the blood.
- Low-Density Lipoprotein (LDL): Often called "bad cholesterol," as it can build up in artery walls and form plaques, leading to blockages.
- High-Density Lipoprotein (HDL): Known as "good cholesterol," because it helps remove excess cholesterol from the bloodstream.
- Triglycerides: A type of fat that provides energy but can increase heart disease risk when levels are high.

The significance of cholesterol

Cholesterol has a far-reaching effect on health. High cholesterol often develops silently, without symptoms. Over time, elevated LDL and triglycerides can cause arteries to harden and narrow, reducing blood flow to the heart and brain. This condition is a major contributor to heart attacks and strokes.

However, higher levels of HDL cholesterol are protective, as they help transport excess cholesterol back to the liver for removal.

What do the numbers say?

While "normal" ranges may vary slightly by laboratory, here are commonly accepted targets:
Total cholesterol: below 200 mg/dL
LDL cholesterol: below 100 mg/dL (optimal)



HDL cholesterol: above 40 mg/dL in men and 50 mg/dL in women

Triglycerides: below 150 mg/dL

Maintaining these levels reduces the risk of cardiovascular disease. However, doctors also consider age, family history, blood pressure and diabetes when evaluating overall risk.

Managing cholesterol effectively

Managing cholesterol requires some lifestyle modifications. In fact liifestyle plays a key role in keeping cholesterol balanced. Eating a heart-healthy diet rich in fruits, vegetables, whole grains and lean proteins can make a significant difference. Limiting saturated fats, trans fats, and processed foods also helps lower LDL. Regular physical activity, maintaining a healthy weight, avoiding smoking and moderating alcohol intake are equally important.

Protect your heart

For a healthy heart, keeping cholesterol levels under control is essential. A simple blood test can provide valuable insight into your risk for cardiovascular disease, empowering you to take proactive steps through diet, lifestyle and medical care.

