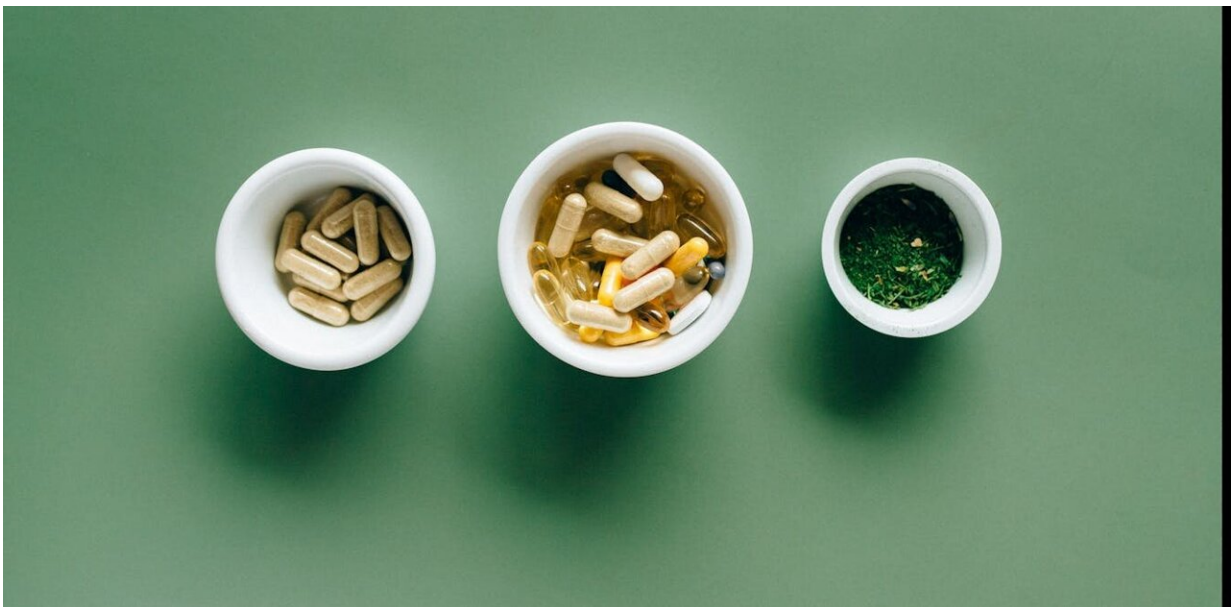


How can I lower my cholesterol? Do supplements work? How about psyllium or probiotics?

September 15 2023, by Lauren Ball and Emily Burch



Credit: Nataliya Vaitkevich/Pexels

Your GP says you have high cholesterol. You've six months to work on your diet to see if that'll bring down your levels, then you'll review your options.

Could taking supplements over this time help?

You can't rely on supplements alone to control your [cholesterol](#). But there's some good evidence that taking particular supplements, while also eating a healthy diet, can make a difference.

Why are we so worried about cholesterol?

There are two main types of cholesterol, both affecting your risk of heart disease and stroke. Both types are carried in the bloodstream inside molecules called lipoproteins.

Low-density lipoprotein or LDL cholesterol

This is often called "bad" cholesterol. This lipoprotein carries cholesterol from the liver to cells throughout the body. High levels of LDL cholesterol in the blood can lead to the [build-up of plaque](#) in arteries, which leads to an increased risk of heart disease and stroke.

High-density lipoprotein or HDL cholesterol

This is often called "good" cholesterol. This lipoprotein helps remove excess cholesterol from the bloodstream and transports it back to the liver for processing and excretion. Higher levels of HDL cholesterol are [linked to](#) a *reduced* risk of heart disease and stroke.

Diet can play a key role in reducing blood cholesterol levels, especially LDL ("bad") cholesterol. Healthy dietary choices are well recognized. These include a focus on eating more unsaturated ("healthy") fat (such as from [olive oil](#) or avocado), and eating less saturated ("unhealthy") fat (such as [animal fats](#)) and trans fats (found in some shop-bought biscuits, pies and pizza bases).

Fiber is your friend

An additional way to significantly reduce your total cholesterol and LDL cholesterol levels through diet is by eating more soluble fiber.

This is a type of fiber that dissolves in water to form a gel-like substance in your gut. The gel can bind to cholesterol molecules preventing them from being absorbed into the bloodstream and allows them to be eliminated from the body through your feces.

You can find soluble fiber in whole foods such as fruits, vegetables, oats, barley, beans and lentils.

Fiber supplements, such as psyllium

There are also many fiber supplements and food-based products on the market that may help lower cholesterol. These include:

- natural soluble fibers, such as inulin (for example, Benefiber) or psyllium (for example, Metamucil) or beta-glucan (for example, in ground oats)
- synthetic soluble fibers, such as polydextrose (for example, STA-LITE), wheat dextrin (also found in Benefiber) or methylcellulose (such as Citrucel)
- natural insoluble fibers, which bulk out your feces, such as flax seeds.

Most of these supplements come as fibers you add to food or dissolve in water or drinks.

Psyllium is the fiber supplement with the strongest evidence to support

its use in improving cholesterol levels. It's been [studied](#) in at least 24 high-quality randomized controlled trials.

These trials show consuming about 10g of psyllium a day (1 tablespoon), as part of a [healthy diet](#), [can significantly lower](#) total cholesterol levels by 4% and LDL cholesterol levels by 7%.

Probiotics

Other cholesterol-lowering supplements, such as probiotics, are not based on fiber. Probiotics are thought to help lower cholesterol levels via a [number of mechanisms](#). These include helping to incorporate cholesterol into cells, and adjusting the microbiome of the gut to favor elimination of cholesterol via the feces.

Using probiotics to reduce cholesterol is an upcoming area of interest and the [research](#) is promising.

In a [2018 study](#), researchers pooled results from 32 studies and analyzed them altogether in a type of study known as a meta-analysis. The people who took probiotics reduced their total cholesterol level by 13%.

[Other systematic reviews](#) support these findings.

Most of these studies use probiotics containing *Lactobacillus acidophilus* and *Bifidobacterium lactis*, which come in capsules or powders and are consumed daily.

Ultimately, probiotics could be worth a try. However, the effects will likely vary according to the probiotic strains used, whether you take the probiotic each day as indicated, as well as your health status and your diet.

Red yeast rice

[Red yeast rice](#) is another non-fiber supplement that has gained attention for lowering cholesterol. It is often used in Asia and some European countries as a complementary therapy. It comes in capsule form and is thought to mimic the role of the cholesterol-lowering medications known as statins.

A [2022 systematic review](#) analyzed data from 15 randomized controlled trials. It found taking red yeast rice supplements (200-4,800mg a day) was more effective for lowering blood fats known as triglycerides but less effective at lowering total cholesterol compared with statins.

However, these trials don't tell us if [red yeast rice](#) works and is safe in the long term. The authors also said only one study in the review was registered in a major [database](#) of clinical trials. So we don't know if the [evidence base](#) was complete or biased to only publish studies with positive results.

Diet and supplements may not be enough

Always speak to your GP and dietitian about your plan to take supplements to lower your cholesterol.

But remember, dietary changes alone—with or without [supplements](#)—might not be enough to lower your cholesterol levels sufficiently. You still need to quit smoking, reduce stress, exercise regularly and get enough sleep. Genetics can also play a role.

Even then, depending on your cholesterol levels and other risk factors, you may still be recommended cholesterol-lowering medications, such as [statins](#). Your GP will discuss your options at your six-month review.

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