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Red yeast rice appears to lower blood cholesterol and triglyceride levels, but it is not certain whether these products are safe to use.

Red yeast rice is a traditional Chinese medicinal product that also has culinary uses. It is made by culturing rice with specific strains of yeast. It is also marketed as a dietary supplement to reduce cholesterol and other fats in the blood. One of its constituents, monacolin K, also known as lovastatin, is an active ingredient in the cholesterol-lowering drug, Mevacor<sup>®</sup>. The drug works by inhibiting an enzyme essential for the creation of cholesterol in the body. Therefore, it is assumed that red yeast rice works through a similar mechanism.

Even though red yeast rice appears to reduce blood fats, it is not certain whether these products are safe. Some may contain a harmful contaminant or have side effects similar to certain cholesterol-lowering drugs. There have also been several case reports of adverse effects, so patients should discuss any use of this product with their healthcare provider.

# What are the potential uses and benefits?

• To lower high cholesterol

A few clinical trials show that the use of red yeast rice can reduce cholesterol and triglyceride levels in the blood, but it is not certain whether these products are safe.

# What are the side effects?

- Stomach ache
- Dizziness

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- Flatulence
- Heartburn
- Muscular disease resulting in muscle weakness

#### Case reports

- · Allergic reaction
- · Elevated liver enzymes
- · Liver injury, hepatitis
- Unexpected high cholesterol
- Skeletal muscle weakness and damage
- Erectile dysfunction

## What else do I need to know?

#### Patient Warnings:

- Citrinin, a toxic fermentation byproduct, has been found in a number of red yeast rice preparations.
- Grapefruit juice may increase the effects of red yeast rice.

#### Do Not Take if:

You are taking cholesterol-lowering drugs: Red yeast rice supplements contain variable amounts of monacolin K, the active ingredient in lovostatin. Side effects and interactions can be comparable to statin drugs, and long-term safety data is lacking.

You are taking CYP450 3A4 or P-glycoprotein substrate drugs: Lab studies show that red yeast rice extracts may affect drugs metabolized by these enzymes. Clinical relevance has yet to be determined.

#### Special Point:

The U.S. Food and Drug Administration declared that the dietary supplement Cholestin, manufactured by Pharmanex, cannot be marketed as a dietary supplement because it contained lovastatin, a prescription drug.

If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit <a href="www.mskcc.org/pe">www.mskcc.org/pe</a> to search our virtual library.

Red Yeast Rice - Last updated on February 3, 2023

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