Garlic

This fact sheet provides basic information about garlic—common names, what the science says, potential side effects and cautions, and resources for more information.

**Common Name**—garlic

**Latin Name**—Allium sativum

Garlic is the edible bulb from a plant in the lily family. It has been used as both a medicine and a spice for thousands of years. Garlic’s most common folk or traditional uses as a dietary supplement are for high cholesterol, heart disease, and high blood pressure. Other folk or traditional uses include prevention of certain types of cancer, including stomach and colon cancers. Garlic cloves can be eaten raw or cooked. They may also be dried or powdered and used in tablets and capsules. Raw garlic cloves can be used to make oils and liquid extracts.

**What the Science Says**

- Some evidence indicates that taking garlic can slightly lower blood cholesterol levels; studies have shown positive effects for short-term (1 to 3 months) use. However, an NCCAM-funded study on the safety and effectiveness of three garlic preparations (fresh garlic, dried powdered garlic tablets, and aged garlic extract tablets) for lowering blood cholesterol levels found no effect.
- Preliminary research suggests that taking garlic may slow the development of atherosclerosis (hardening of the arteries), a condition that can lead to heart disease or stroke.
- Evidence suggests that taking garlic may slightly lower blood pressure, particularly in people with high blood pressure.
- Some studies suggest consuming garlic as a regular part of the diet may lower the risk of certain cancers. However, no clinical trials have examined this. A clinical trial on the long-term use of garlic supplements to prevent stomach cancer found no effect.
- Recent NCCAM-funded research includes studies on how garlic interacts with certain drugs; its effects on liver function and the dilation and constriction of blood vessels; and the bioavailability (how well a substance is absorbed by the body) of allicin, the main active compound of garlic.
Side Effects and Cautions

- Garlic appears to be safe for most adults.
- Side effects include breath and body odor, heartburn, upset stomach, and allergic reactions. These side effects are more common with raw garlic.
- Garlic can thin the blood (reduce the ability of blood to clot) in a manner similar to aspirin. This effect may be a problem during or after surgery. Use garlic with caution if you are planning to have surgery or dental work, or if you have a bleeding disorder.
- Garlic has been found to interfere with the effectiveness of saquinavir, a drug used to treat HIV infection. Its effect on other drugs has not been well studied.
- Tell all your health care providers about any complementary health practices you use. Give them a full picture of what you do to manage your health. This will help ensure coordinated and safe care. For tips about talking with your health care providers about complementary and alternative medicine, see NCCAM’s Time to Talk campaign at nccam.nih.gov/timetotalk/

Sources


For More Information


NCCAM Clearinghouse

Toll-free in the U.S.: 1-888-644-6226
TTY (for deaf and hard-of-hearing callers): 1-866-464-3615
E-mail: info@nccam.nih.gov

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NIH Office of Dietary Supplements

Web site: www.ods.od.nih.gov

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National Institutes of Health

U.S. Department of Health and Human Services

D274
Created May 2006
Updated April 2012