

Gout



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What Is Gout?

Gout is a disorder that results from the build-up of uric acid in the tissues or a joint. It most often affects the joint of the big toe.

Causes

Gout attacks are caused by deposits of crystallized uric acid in the joint. Uric acid is present in the blood and eliminated in the urine, but in people who have gout, uric acid accumulates and crystallizes in the joints. Uric acid is the result of the breakdown of purines, chemicals that are found naturally in our bodies and in food. Some people develop gout because their kidneys have difficulty eliminating normal amounts of uric acid, while others produce too much uric acid.

Gout occurs most commonly in the big toe because uric acid is sensitive to temperature changes. At cooler temperatures, uric acid turns into crystals. Since the toe is the part of the body that is farthest from the heart, it's also the coolest part of the body – and, thus, the most likely target of gout. However, gout can affect any joint in the body.

The tendency to accumulate uric acid is often inherited. Other factors that put a person at risk for developing gout include: high blood pressure, diabetes, obesity, surgery, chemotherapy, stress, and certain medications and vitamins. For example, the body's ability to remove uric acid can be negatively affected by taking aspirin, some diuretic medications ("water pills"), and the vitamin niacin (also called nicotinic acid). While gout is more common in men aged 40 to 60 years, it can occur in younger men as well as in women.

Consuming foods and beverages that contain high levels of purines can trigger an attack of gout. Some foods contain more purines than others and have been associated with an increase of uric acid, which leads to gout. You may be able to reduce

your chances of getting a gout attack by limiting or avoiding shellfish, organ meats (kidney, liver, etc.), red wine, beer, and red meat.

Symptoms

An attack of gout can be miserable, marked by the following symptoms:

- Intense pain that comes on suddenly – often in the middle of the night or upon arising
- Signs of inflammation such as redness, swelling, and warmth over the joint.

Diagnosis

To diagnose gout, the foot and ankle surgeon will ask questions about your personal and family medical history, followed by an examination of the affected joint. Laboratory tests and x-rays are sometimes ordered to determine if the inflammation is caused by something other than gout.

Treatment

Initial treatment of an attack of gout typically includes the following:

- **Medications.** Prescription medications or injections are used to treat the pain, swelling, and inflammation.
- **Dietary restrictions.** Foods and beverages that are high in purines should be avoided, since purines are converted in the body to uric acid.
- **Fluids.** Drink plenty of water and other fluids each day, while also avoiding alcoholic beverages, which cause dehydration.
- **Immobilize and elevate the foot.** Avoid standing and walking to give your foot a rest. Also, elevate your foot (level with or slightly above the heart) to help reduce swelling.

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The symptoms of gout and the inflammatory process usually resolve in three to ten days with treatment. If gout symptoms continue despite the initial treatment, or if repeated attacks occur, see your primary care physician for maintenance treatment that may involve daily medication. In cases of repeated episodes, the underlying problem must be addressed, as the build-up of uric acid over time can cause arthritic damage to the joint. ■

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This information has been prepared by the Consumer Education Committee of the American College of Foot and Ankle Surgeons, a professional society of over 6,000 foot and ankle surgeons. Members of the College are Doctors of Podiatric Medicine who have received additional training through surgical residency programs.

The mission of the College is to promote superior care of foot and ankle surgical patients through education, research and the promotion of the highest professional standards.

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