

What Is Gout?

Gout is a disorder that results from the build-up of uric acid in the tissues or a joint—most often the joint of the big toe. 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
- Redness, swelling, and warmth over the joint—all of which are signs of inflammation

What Causes Gout?

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 furthest 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 and also occurs 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 the following foods and beverages: shellfish, organ meats (kidney, liver, etc.), red wine, beer, and red meat.

Diagnosis

In diagnosing gout, the foot and ankle surgeon will take your personal and family history and examine 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 the swelling.

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.

When Is Surgery Needed?

In some cases of gout, surgery is required to remove the uric acid crystals and repair the joint. Your foot and ankle surgeon will determine the procedure that would be most beneficial in your case. ▲



Melissa J. Lockwood, D.P.M.

Melissa J. Lockwood, D.P.M. – As founder of Heartland Foot and Ankle Associates, P.C., Dr. Melissa J. Lockwood happily returns to central Illinois after seven years in Cleveland, Ohio. She is a graduate of Providence Catholic High School in New Lenox, Illinois. Dr. Lockwood completed her undergraduate degree from the University of Illinois (Urbana/Champaign) in 2001 with a Bachelor of Science in Biology and a minor degree in Chemistry. Dr. Lockwood has a great interest in archaeology and also received a minor degree in Anthropology from the U of I in 2001.

Dr. Lockwood went on to the Ohio College of Podiatric Medicine and matriculated with her Podiatric Medical Degree in 2005. While at OCPM, Dr. Lockwood served as both a delegate to the student branch of the APMA as well as President of the Student Government organization (OPMSA). Dr. Lockwood was the recipient of several awards while attending OCPM, including the Ohio Podiatric Medical Association Dr. James Conforti Community Relations Award and the OCPM Mildred Kaufman Memorial Award for Proficiency in Orthopedics and Biomechanics.

Dr. Lockwood arrives in Bloomington following a three year residency in Cleveland, Ohio. Dr. Lockwood completed a 36 month Podiatric Medical and Surgical Residency Program based out of the University Hospital System/Richmond Heights Medical Center. Dr. Lockwood has extensive training in both forefoot (bunions, hammertoes, neuromas) elective surgical procedures as well as rearfoot reconstruction. She has a special interest in the treatment of chronic wounds as well as diabetic palliative care. Dr. Lockwood enjoys working with patients one on one in a clinical setting and chatting about her favorite sports teams!

Dr. Lockwood and her husband Scott are pleased to be back in their home state and rooting on the Illini, Redbirds, Chicago Bears, and White Sox! Scott is a 2000 Illinois State University Alumni with a BS degree in Accountancy. He is a CPA working in Bloomington.

EDUCATION

University of Illinois, Urbana-Champaign, BS Biology (01)
Professional: Ohio College of Podiatric Medicine, (05)
Residency: University Hospital Richmond Medical Center (05-June 08)

PROFESSIONAL ACCREDITATION

NBPME Part I (03) NBPME Boards Part II & Part III - PM Lexus (05)
State of Illinois Licensure (08)

HONORS AND AWARDS

Illinois State Scholar (1997)
OCPM Academic Scholarship (01) OCPM Dean's List (04)
OPMA Dr. James Conforti Community Relations Award (05)
OCPM Mildred Kaufman Memorial Award for Proficiency in Orthopedics and Biomechanics (05)
University Hospitals Richmond Medical Center Outstanding Podiatric Resident (08)

PROFESSIONAL ORGANIZATIONS

President, Ohio Podiatric Medical Student's Association (02-04)
Delegate, American Podiatric Medical Student's Association (02-04)
Chairman, President's Committee, American Podiatric Medical Student's Association Feb. 2004
Member – OCPM Board of Trustees (02-04)
APMA/IPMA, AAPPM, AAWP member at large

RESEARCH/PUBLICATIONS

Sesamoid Pathology, coauthored with
Dr. Joseph Favazzo, D.P.M., December 2005. Compilation of forefoot pathology edited by Vincent J. Hetherington, D.P.M.



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American College of Foot and Ankle Surgeons

This information has been prepared by the Consumer Education Committee of the American College of Foot and Ankle Surgeons, a professional society of 5,800 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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