# Fractures of the Fifth Metatarsal

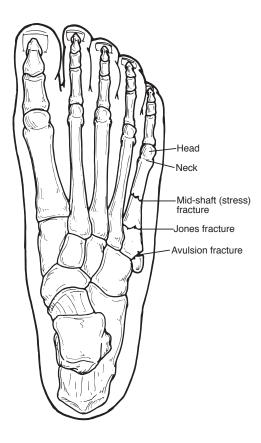


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#### What is a Fifth Metatarsal Fracture?

Fractures (breaks) are common in the fifth metatarsal – the long bone on the outside of the foot that connects to the little toe. Two types of fractures that often occur in the fifth metatarsal are:

- Avulsion fracture. In an avulsion fracture, a small piece of bone is pulled off the main portion of the bone by a tendon or ligament. This type of fracture is the result of an injury in which the ankle rolls. Avulsion fractures are often overlooked when they occur with an ankle sprain.
- Jones fracture. Jones fractures occur in a small area of the fifth metatarsal that receives less blood and is therefore more prone to difficulties in healing. A Jones fracture can be either a stress fracture (a tiny hairline break that occurs over time) or an acute (sudden) break. Jones fractures are caused by overuse, repetitive stress, or trauma. They are less common and more difficult to treat than avulsion fractures.



Other types of fractures can occur in the fifth metatarsal. Examples include mid-shaft fractures, which usually result from trauma or twisting, and fractures of the metatarsal head and neck.

#### Symptoms

Avulsion and Jones fractures have the same signs and symptoms. These include:

- Pain, swelling, and tenderness on the outside of the foot
- Difficulty walking
- Bruising may occur

#### Diagnosis

Anyone who has symptoms of a fifth metatarsal fracture should see a foot and ankle surgeon as soon as possible for proper diagnosis and treatment. To arrive at a diagnosis, the surgeon will ask how the injury occurred or when the pain started. The foot will be examined, with the doctor gently pressing on different areas of the foot to determine where there is pain.

The surgeon will also order x-rays. Because a Jones fracture sometimes does not show up on initial x-rays, additional imaging studies may be needed.

#### **Non-surgical Treatment**

Until you are able to see a foot and ankle surgeon, the "**R.I.C.E.**" method of care should be performed:

**R**est: Stay off the injured foot. Walking may cause further injury.

Ice: Apply an ice pack to the injured area, placing a thin towel between the ice and the skin. Use ice for 20 minutes and then wait at least 40 minutes before icing again.

Compression: An elastic wrap should be used to control swelling.

Elevation: The foot should be raised slightly above the level of your heart to reduce swelling.

### PATIENT EDUCATION

## Fractures of the Fifth Metatarsal continued



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The foot and ankle surgeon may use one of these non-surgical options for treatment of a fifth metatarsal fracture:

- **Immobilization**. Depending on the severity of the injury, the foot is kept immobile with a cast, cast boot, or stiff-soled shoe. Crutches may also be needed to avoid placing weight on the injured foot.
- Bone stimulation. A pain-free external device is used to speed the healing of some fractures. Bone stimulation, most commonly used for Jones fractures, may be used as part of the treatment or following an inadequate response to immobilization.

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#### When is Surgery Needed?

If the injury involves a displaced bone, multiple breaks, or has failed to adequately heal, surgery may be required. The foot and ankle surgeon will determine the type of procedure that is best suited to the individual patient.

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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