

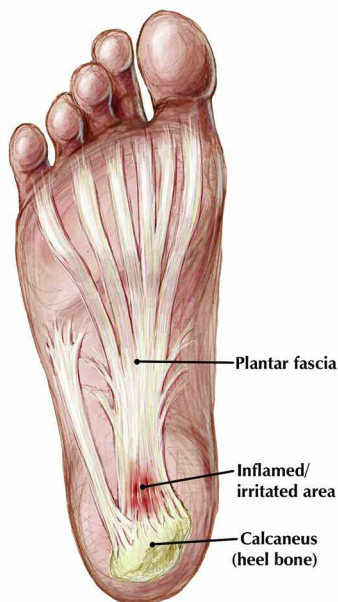
# PLANTAR FASCIITIS



## AOSSM SPORTS TIPS

### WHAT IS PLANTAR FASCIITIS?

Plantar fasciitis is pain felt at the bottom of the heel. It is usually felt on the first step out of bed in the morning or when walking again after resting from a walking or running activity. However, plantar fasciitis pain can, if it persists, soon be felt any time you are walking, running or jumping.



Although the pain is mostly felt at the bottom of the heel, it can also radiate down the entire bottom of the foot toward the toes. Plantar fasciitis is not usually associated with numbness or tingling.

### ANATOMY OF THE PLANTAR FASCIA

The plantar fascia consists of dense bands of tissue deep below the skin that extend out in a fan-like fashion from the heel bone to the toes. If you

pull your toes and foot toward your head, you will feel this tissue tighten.

### WHAT CAUSES PLANTAR FASCIITIS?

Plantar fasciitis is thought to be caused by repetitive stretching of the tight bands of the plantar fascia which result in micro tears in these bands as they extend from the heel. Because these tears usually do not occur from a single traumatic event, an immediate healing reaction is not triggered. A chronic irritation or inflammation process thereby begins which increases with activity. A sudden weight gain may also increase stress to an otherwise normal plantar fascia.

Pulling of the tight plantar fascia on the heel bone during activity can result in the formation of a bone spur off the tip of the heel bone, at the origin of the plantar fascia tissue. This bone spur itself is not the cause of pain, but rather the mechanical result of the chronic inflammatory process on the bone caused by the stretching of the tight tissue.

### TREATMENT TIPS

Surgery is rarely necessary to treat plantar fasciitis. To decrease your pain and symptoms, you may want to:

- *Tape the heel and arch.* Custom shoe inserts may be needed to support the arch and the heel.
- *Increase the flexibility of the plantar fascia* and calf muscles by doing stretching exercises. Tight calf muscles increase the stress on the plantar fascia and predispose you to plantar fasciitis.

- *Massage the plantar fascia* by rolling your foot over a round tube-like object with a diameter of 3 to 4 inches. A rolling pin works nicely for this.
- *Strengthen the muscles* of the foot and ankle that support the arch. One way to do this is to scrunch up a hand towel with your toes or use your toes to pull a towel weighted with a food can across the floor.
- *Warm up well before stretching.* Cold tissues cannot stretch as effectively. After stretching, ice your heel for 20 to 30 minutes at the point of maximum tenderness to decrease any inflammation that may result from too vigorous a workout.
- *Consider the use of oral anti-inflammatory medications* such as aspirin or ibuprofen. These medications can decrease the inflammation of the plantar fascia and thus decrease your symptoms so that you can stretch and improve your flexibility. In some cases, your physician may recommend a prescription anti-inflammatory for you.
- *Try a night splint.* These devices, prescribed by your physician, keep the foot flexed at 90 degrees instead of the typical relaxed foot position of toes pointed down that occurs during sleep. Wearing a splint may lessen the pain of the first step in the morning.
- *Massage the heel with a sports cream,* which may lessen symptoms. A variety of “hands on” therapeutic treatments can also be administered by a physical therapist.

## HOW TO PREVENT PLANTAR FASCIITIS

Always warm up well and stretch before participating in sports.

Wear good, supportive shoes for your athletic activities.

Keep the muscles of your feet and ankles strong to support your arch.

Don't try running to lose weight after a rapid weight gain. Walk first, and stretch the muscles of the foot and calf to help condition your body before running. Avoid activities that cause pain in your heel.

*See your physician if pain persists despite these measures.*

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