

Pediatric Heel Pain

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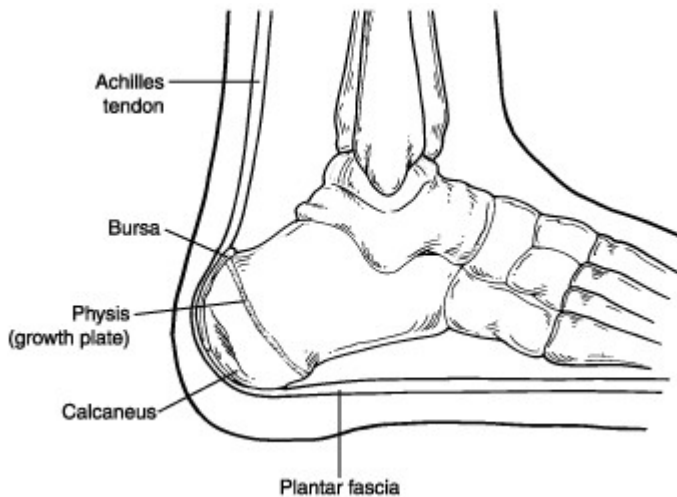
What is Pediatric Heel Pain?

Heel pain is a symptom, not a disease. In other words, heel pain is a warning sign that a child has a condition that deserves attention.

Heel pain problems in children are often associated with these signs and symptoms:

- Pain in the back or bottom of the heel
- Limping
- Walking on toes
- Difficulty participating in usual activities or sports

The most common cause of pediatric heel pain is a disorder called calcaneal apophysitis (see below), which usually affects 8- to 14-year olds. However, pediatric heel pain may be the sign of many other problems, and can occur at younger or older ages.



Normal
2200 Ft. Jesse, Ste 250
(309) 807-0384

Pontiac
1512 W. Reynolds, Ste. A
(815) 842-6551
www.centralillinoisfootandankle.com

Eureka
105 S. Major
(309) 467-2371



DR. SCOTT O'CONNOR

Fellow, American College of Foot & Ankle Surgery
Diplomate, American Board of Podiatric Surgeons
Certified in Foot, Reconstructive Rearfoot/Ankle Surgery

What is the Difference Between Pediatric and Adult Heel Pain?

Pediatric heel pain differs from the most common form of heel pain experienced by adults (plantar fasciitis) in the way pain occurs. Plantar fascia pain is intense when getting out of bed in the morning or after sitting for long periods, and then it subsides after walking around a bit. Pediatric heel pain usually doesn't improve in this manner. In fact, walking around typically makes the pain worse.

Heel pain is so common in children because of the very nature of their growing feet. In children, the heel bone (the calcaneus) is not yet fully developed until age 14 or older. Until then, new bone is forming at the growth plate (the apophysis), a weak area located at the back of the heel. Too much stress on the growth plate is the most common cause of pediatric heel pain.

Causes of Pediatric Heel Pain

There are a number of possible causes for a child's heel pain. Because diagnosis can be challenging, a [foot and ankle surgeon](#) is best qualified to determine the underlying cause of the pain and develop an effective treatment plan.

Conditions that cause pediatric heel pain include:

- **Calcaneal apophysitis.** Also known as Sever's disease, this is the most common cause of heel pain in children. Although not a true "disease," it is an inflammation of the heel's growth plate due to muscle strain and repetitive stress, especially in those who are active or obese. This condition usually causes pain and tenderness in the back and bottom of the heel when walking, and the heel is painful when touched. It can occur in one or both feet.
- **Tendo-Achilles bursitis.** This condition is an inflammation of the fluid-filled sac (bursa) located between the Achilles tendon (heel cord) and the heel bone. Tendo-Achilles bursitis can result from injuries to the heel, certain diseases (such as juvenile rheumatoid arthritis), or wearing poorly cushioned shoes.
- **Overuse syndromes.** Because the heel's growth plate is sensitive to repeated running and pounding on hard surfaces, pediatric heel pain often reflects overuse. Children and adolescents involved in soccer, track, or basketball are especially vulnerable. One common overuse syndrome is Achilles tendonitis. This inflammation of the tendon usually occurs in children over the age of 14. Another overuse syndrome is plantar fasciitis, which is an inflammation of the band of tissue (the plantar fascia) that runs along the bottom of the foot from the heel to the toes.
- **Fractures.** Sometimes heel pain is caused by a break in the bone. Stress fractures—hairline breaks resulting from repeated stress on the bone—often occur in adolescents engaged in athletics, especially when the intensity of training suddenly changes. In children under age of 10, another type of break—acute fractures—can result from simply jumping 2 or 3 feet from a couch or stairway.

Diagnosis of Pediatric Heel Pain

To diagnose the underlying cause of your child's heel pain, the [foot and ankle surgeon](#) will first obtain a thorough medical history and ask questions about recent activities. The surgeon will also examine the child's foot and leg. X-rays are often used to evaluate the condition, and in some cases the surgeon will order a bone scan, a magnetic resonance imaging (MRI) study, or a computerized tomography (CT or CAT) scan. Laboratory testing may also be ordered to help diagnose other less prevalent causes of pediatric heel pain.

Treatment Options

The treatment selected depends upon the diagnosis and the severity of the pain.

For mild heel pain, treatment options include:

- **Reduce activity.** The child needs to reduce or stop any activity that causes pain.
- **Cushion the heel.** Temporary shoe inserts are useful in softening the impact on the heel when walking, running, and standing.

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For moderate heel pain, in addition to reducing activity and cushioning the heel, the [foot and ankle surgeon](#) may use one or more of these treatment options:

- **Medications.** Nonsteroidal anti-inflammatory drugs (NSAIDs), such as ibuprofen, help reduce pain and inflammation.
- **Physical therapy.** Stretching or physical therapy modalities are sometimes used to promote healing of the inflamed tissue.
- **Orthotic devices.** Custom orthotic devices prescribed by the foot and ankle surgeon help support the foot properly.

For severe heel pain, more aggressive treatment options may be necessary, including:

- **Immobilization.** Some patients need to use crutches to avoid all weight-bearing on the affected foot for a while. In some severe cases of pediatric heel pain, the child may be placed in a cast to promote healing while keeping the foot and ankle totally immobile.
- **Follow-up measures.** After immobilization or casting, follow-up care often includes use of custom orthotic devices, physical therapy, or strapping.
- **Surgery.** There are some instances when surgery may be required to lengthen the tendon or correct other problems.

Can Pediatric Heel Pain be Prevented?

The chances of a child developing heel pain can be reduced by following these recommendations:

- Avoid obesity
- Choose well-constructed, supportive shoes that are appropriate for the child's activity
- Avoid, or limit, wearing cleated athletic shoes
- Avoid activity beyond a child's ability

If Symptoms Return

Often heel pain in children returns after it has been treated because the heel bone is still growing. Recurrence of heel pain may be a sign of the initially diagnosed condition, or it may indicate a different problem. If your child has a repeat bout of heel pain, be sure to make an appointment with your foot and ankle surgeon.

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