

Understanding Your Iselin Disease

What is Iselin Disease?

Iselin disease is a painful inflammation of the growth plate (apophysis) at the base of the 5th metatarsal bone, on the outside of the foot. The growth plate is made up of cartilage, which is softer and more vulnerable to injury than mature bone. Iselin disease is seen in physically active children 9 -14 years old and it is most common in children involved in running and jumping sports.

The growth plate at the 5th metatarsal fuses by about 12 years in girls and by 14 years in boys. Once the growth plate fuses, the pain usually resolves uneventfully

Where Does Iselin Disease Occur?

Iselin disease occurs at the base of the 5th metatarsal bone, on the outside of the foot.

Signs and Symptoms

Most children will present with a limp and complain of pain at the outside edge of the midfoot that is worse with physical activity (running, jumping, dance) and feels better with rest. The child may walk on the inside of the foot to relieve pressure at the growth center. There may be localized pain, swelling, redness and warmth at the growth center on the outside of the foot.

Treatment Options

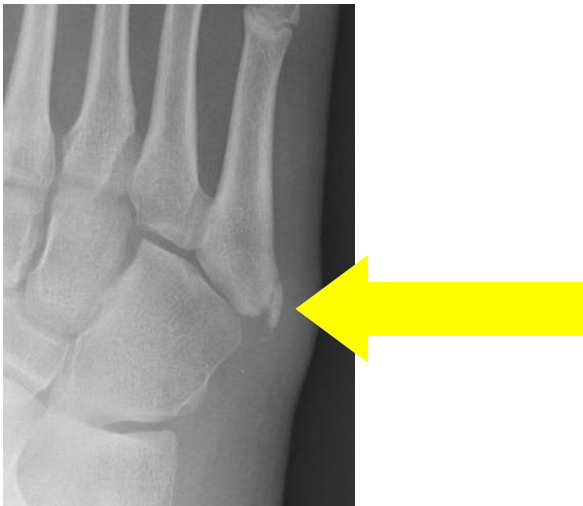
Treatment aims to reduce the pain and inflammation and allow the child to return to their sport or physical activities without pain. Depending on the severity of the symptoms, treatment may include:

- Rest from any aggravating activities
- Ice massage to the inflamed area
- Stretching of the calf and peroneal muscles
- Foot orthotics can address any abnormal foot posture and relieve the pressure on the growth plate.
- Supportive, stable footwear to support the foot while the area heals.

If the pain is severe, a removable walking boot or brace may be required to help settle the acute symptoms.

Medication

Taking anti-inflammatory medicine or NSAIDs (non-steroidal anti-inflammatory drugs) such as Motrin, Advil, Naproxen or Aleve as directed by your doctor can be effective. This medication should be taken for 10 to 14 days to allow the medicine to reach therapeutic levels in the body.



Do you have Iselin Disease?



Children's Orthopaedic
and Scoliosis Surgery Associates, LLP

What Causes Iselin Disease?

Iselin disease is most commonly caused by repetitive pressure or tension on the growth plate at the base of the 5th metatarsal bone in the foot. The peroneal tendon attaches to the base of the 5th metatarsal bone, very close to the growth plate and exerts tension on the area causing inflammation and pain. Tight calf or peroneal muscles are considered a risk factor for the development of Iselin disease because they increase tension on the growth plate during physical activity.

Abnormal foot posture (flat feet or high arched feet) can also contribute to the development of Iselin disease. Low quality, unsupportive footwear may also be a contributing factor.

A thorough history and physical examination is completed to help make the diagnosis of Iselin disease. On physical examination of the child, your doctor will assess the range of movement in all of the joints in the foot. A gait analysis is performed to look for any abnormalities in the way the feet move during gait. A biomechanical assessment is completed to assess the child's foot posture. Leg and foot muscle strength testing is also assessed. The child's school and sports shoes will be examined for abnormal wear patterns.

An x-ray is usually not required to diagnose Iselin disease, however, an x-ray may be ordered to exclude other painful foot pathologies (eg. 5th metatarsal fracture) that may present with similar symptoms to Iselin Disease.

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Jeffrey B. Neustadt, M.D.
Gregory V. Hahn, M.D.
Drew E. Warnick, M.D.
Paul L. Benfanti, M.D.
Lee G. Phillips, M.D.
Daniel C. Bland, M.D.
T. Cooper Wilson, M.D.



625 6th Avenue South, Suite 450
St. Petersburg, FL 33701

Phone: (727) 898-2663 - Fax: (727) 568-6836

3440 W. Dr. MLK Jr. Blvd, Suite 200
Tampa, FL 33607

Phone: (813) 879-2663 - Fax: (813) 872-0286

5881 Rand Blvd
Sarasota, FL 34238

4443 Rowan Road
New Port Richey, FL 34653

3850 Tampa Road
Palm Harbor, FL 34684

www.chortho.com

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