Fact Sheet

Accessory Navicular Syndrome

What is an Accessory Navicular?

The accessory navicular (os navicularum or os tibiale externum) is an extra bone or piece of cartilage located on the inner side of the foot just above the arch. An accessory navicular is congenital (present at birth). It is not part of normal bone structure and therefore is not present in most people.

What is Accessory Navicular Syndrome?

People who have an accessory navicular often are unaware of the condition if it causes no problems. However, some people with this extra bone develop a painful condition known as accessory navicular syndrome when the bone and/or posterior tibial tendon are aggravated. This can result from any of the following:

- Trauma, as in a foot or ankle sprain
- Chronic irritation from shoes or other footwear rubbing against the extra bone
- · Excessive activity or overuse

Many people with accessory navicular syndrome also have a pronated foot type (flat feet). Having a pronated foot puts more strain on the posterior tibial tendon, which can produce inflammation or irritation of the accessory navicular.



Symptoms

Adolescence is a common time for the symptoms to first appear. This is a time when bones are maturing and cartilage is developing into bone. Sometimes, however, the symptoms do not occur until adulthood. The signs and symptoms of accessory navicular syndrome include:

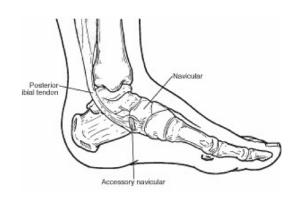
- A visible bony prominence on the midfoot (the inner side of the foot, just above the arch)
- · Redness and swelling of the bony prominence
- · Vague pain or throbbing in the midfoot and arch, usually occurring during or after periods of activity



Accessory Navicular Syndrome

Diagnosis

To diagnose, the podiatrist will ask about symptoms and examine the foot. Foot structure, muscle strength, joint motion, and the patient's biomechanics will also be assessed. X-rays are usually ordered to confirm the diagnosis. If there is ongoing pain or inflammation, an MRI or other advanced imaging tests may be used to further evaluate the condition.



Treatment: Non-surgical approaches

The goal of non-surgical treatment for accessory navicular syndrome is to relieve the symptoms. The following may be used:

- Immobilization Placing the foot in a cast or removable walking boot allows the affected area to rest and decreases the inflammation.
- Ice To reduce swelling, a bag of ice covered with a thin towel is applied to the affected area. Do not
 put ice directly on the skin.
- Medications Oral nonsteroidal anti-inflammatory drugs (NSAIDs), such as ibuprofen, may be
 prescribed. In some cases, oral or injected steroid medications may be used in combination with
 immobilization to reduce pain and inflammation.
- Physical therapy Physical therapy may be prescribed, including exercises and treatments to strengthen the muscles and decrease inflammation. The exercises may also help prevent recurrence of the symptoms.
- Orthotic devices Custom orthotic devices that fit into the shoe provide support for the arch, and may play a role in preventing future symptoms.

Even after successful treatment, the symptoms of accessory navicular syndrome sometimes reappear. When this happens, non-surgical approaches are usually repeated.

When is surgery needed?

If conservative treatment fails to relieve the symptoms, surgery may be indicated. Surgery may involve removing the accessory bone, reshaping the area, and repairing the posterior tibial tendon to improve its function. This extra bone is not needed for normal foot function.



ALWAYS CONSULT A TRAINED PROFESSIONAL

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