

# **Accessory Navicular Problems**

### Introduction



Welcome to BodyZone Physiotherapy's patient resource about Accessory Navicular Problems.

Not everyone has the same number of bones in his feet. It is not uncommon for both the hands and the feet to cosmall accessory bones, or ossicles, that sometimes cause problems.

### This article will help you understand:

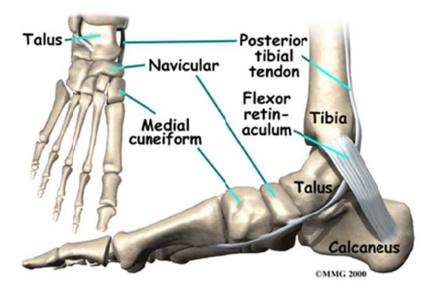
- where the accessory navicular is located
- why the extra bone can cause problems
- how doctors treat the condition

### **Anatomy**

#### Where is the accessory navicular located?

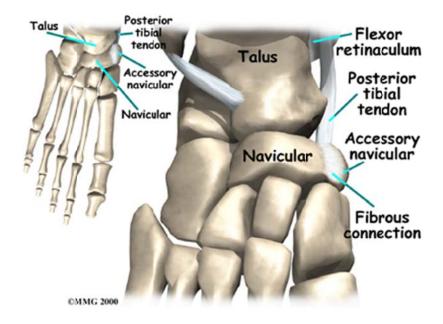
The navicular bone of the foot is one of the small bones on the mid-foot.

## **Navicular Bone**



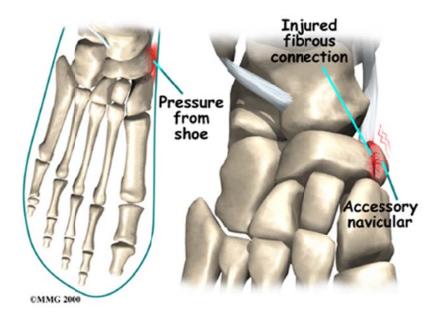
The bone is located at the instep, the arch at the middle of the foot. One of the larger tendons of the foot, called t tibial tendon, attaches to the navicular before continuing under the foot and into the forefoot. This tendon is a tot tissue that helps hold up the arch of the foot. If there is an *accessory navicular*, it is located in the instep where the tibial tendon attaches to the real navicular bone.

## **Posterior Tibial Tendon**



The accessory navicular is a congenital anomaly, meaning that you are born with the extra bone. As the skeleton matures, the navicular and the accessory navicular never completely grow, or *fuse*, into one solid bone. The two joined by fibrous tissue or cartilage. Girls seem to be more likely to have an accessory navicular than boys.

### **Causes**



### How does an accessory navicular cause problems?

Just having an accessory navicular bone is not necessarily a bad thing. Not all people with these accessory bones symptoms. Symptoms arise when the accessory navicular is overly large or when an injury disrupts the fibrous to between the navicular and the accessory navicular. A very large accessory navicular can cause a bump on the instance on your shoe causing pain.

An injury to the fibrous tissue connecting the two bones can cause something similar to a fracture. The injury all movement to occur between the navicular and the accessory bone and is thought to be the cause of pain. The fibrone to poor healing and may continue to cause pain. Because the posterior tibial tendon attaches to the accessor navicular, it constantly pulls on the bone, creating even more motion between the fragments with each step.

### **Symptoms**

#### What does the condition feel like?

The primary reason an accessory navicular becomes a problem is pain. There is no need to do anything with an a navicular that is not causing pain. The pain is usually at the instep area and can be pinpointed over the small bun instep. Walking can be painful when the problem is aggravated. As stated earlier, the condition is more common The problem commonly becomes symptomatic in the teenage years.

### **Diagnosis**

#### How do health care providers identify the problem?

When you first visit BodyZone Physiotherapy, diagnosis of your problem begins with a complete history and ph

examination. Usually the condition is suggested by the history and the tenderness over the area of the navicular.

Some patients may be referred to a doctor for further diagnosis. X-rays will usually be required to allow the physical the accessory navicular. Generally no other tests are required.

Once your diagnostic examination is complete, the physiotherapists at BodyZone Physiotherapy have treatment will help speed your recovery, so that you can more quickly return to your active lifestyle.

#### **Our Treatment**

#### What can be done for a painful accessory navicular?

The treatment for a symptomatic accessory navicular can be divided into nonsurgical treatment and surgical treatwast majority of cases, treatment usually begins with nonsurgical measures. Surgery usually is only considered we nonsurgical measures have failed to control your problem and the pain becomes intolerable.

### **Non-surgical Rehabilitation**

If the foot becomes painful following a twisting type of injury and an examination reveals the presence of an acc navicular bone, we may recommend a period of immobilization in a cast or splint. This will rest the foot and perlot disruption between the navicular and accessory navicular to heal.

Our physiotherapist may recommend the use of an arch support to relieve the stress on the fragment and decrease symptoms. If the pain subsides and the fragment becomes asymptomatic, further treatment may not be necessary

Patients with a painful accessory navicular may benefit from more involved physiotherapy treatments. Your phy may design a series of stretching exercises to try and ease tension on the posterior tibial tendon. We may also receive a shoe insert, or *orthotic*, be used to support the arch and protect the sore area. This approach may allow you normal walking immediately, but you should probably cut back on more vigorous activities for several weeks to inflammation and pain to subside.

Our physiotherapist will apply direct treatments to the painful area to help control pain and swelling. Examples i ultrasound, moist heat, and soft-tissue massage. Our physiotherapy sessions sometimes also include *iontophores* uses a mild electrical current to push anti-inflammatory medicine, prescribed by your doctor, into the sore area.

At BodyZone Physiotherapy, our goal is to help speed your recovery so that you can more quickly return to your activities. When your recovery is well under way, regular visits to our office will end. We will continue to be a ryou will be in charge of doing your exercises as part of an ongoing home program.

#### **Post-surgical Rehabilitation**

You may need to use crutches for several days after surgery. A physiotherapist can help you learn to properly us crutches to avoid putting weight on your foot too soon. Your stitches will be removed about in 10 to 14 days (un are the absorbable type, which will not need to be taken out). You should be safe to be released to full activity in

weeks.

### **Surgery**

If all nonsurgical measures fail and the fragment continues to be painful, surgery may be recommended.

The most common procedure used to treat the symptomatic accessory navicular is the *Kidner procedure*. A small made in the instep of the foot over the accessory navicular. The accessory navicular is then detached from the potendon and removed from the foot. The posterior tibial tendon is reattached to the remaining normal navicular. For procedure, the skin incision is closed with stitches, and a bulky bandage and splint are applied to the foot and an

