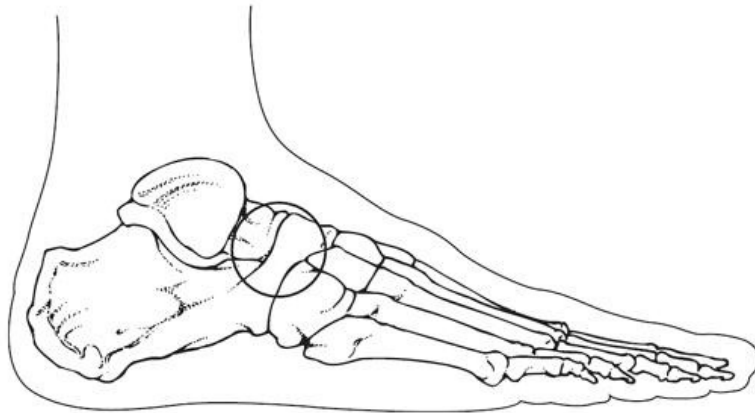


## **Tarsal Coalition (Peroneal Spastic Flat Foot)**

Tarsal coalition is a developmental problem in which there is incomplete separation of bones in the hind foot (tarsal bones). This may be asymptomatic, but usually symptoms become apparent in the early teens or as a young adult.



**Figure 1**

### **Frequent Signs and Symptoms**

- Recurrent ankle sprains
- Rigid, flat foot (or feet)
- Foot fatigue
- Pain in the hind foot that worsens with activity

### **Etiology (Causes)**

This condition is due to a problem during fetal development (before birth) in which not all the bones of the hind foot separate completely from each other.

### **Risk Factors**

- Family history of tarsal coalition

### **Prevention**

None known.



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## SHOULDER, KNEE & SPORTS MEDICINE

### Outcomes

Untreated, older adults get arthritis of the joints in the foot. When treated before the development of arthritis, there is return to full activity, with some residual stiffness in the foot.

### Potential Complications

- Arthritis of the foot and ankle due to increased stress to other joints from the lack of motion at the joint where the coalition exists
- Recurrent ankle sprains

### Treatment Considerations

Initial treatment consists of rest from the offending activity and medications and ice to help reduce inflammation and pain. Occasionally a trial of casting or bracing the foot and ankle may be attempted to reduce inflammation and pain. Arch supports (orthotic) may help reduce pressure on the other joints of the hind foot. Occasionally a cortisone injection into the hind foot may provide temporary relief. If these treatments are not successful, surgery may be necessary. Surgical options include removing the bony bridge (coalition) or fusing the hind foot (totally eliminating all motion in one or more joints of the hind foot).

### Possible Medications

- Nonsteroidal anti-inflammatory medications, such as aspirin and ibuprofen (do not take within 7 days before surgery), or other minor pain relievers, such as acetaminophen, are often recommended. Take these as directed by your physician. Contact your physician immediately if any bleeding, stomach upset, or signs of an allergic reaction occur.
- Your physician may prescribe pain relievers as necessary. Use only as directed and only as much as you need. These are usually only prescribed for post surgical pain.
- Injections of corticosteroids may be given to reduce inflammation. There is a limit to the number of cortisone injections you may receive. Repeated injections may accelerate deterioration of the cartilage and joints of the foot, resulting in arthritis.

### Modalities (Heat and Cold)

- Cold is used to relieve pain and reduce inflammation. Cold should be applied for 10 to 15 minutes every 2 to 3 hours for inflammation and pain and immediately after any activity that aggravates your symptoms. Use ice packs or an ice massage.
- Heat may be used before performing stretching and strengthening activities prescribed by your physician, physical therapist, or athletic trainer. Use a heat pack or a warm soak.

### Notify My Office If Symptoms Worsen



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