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## Foot drop

Foot drop is when you have difficulty lifting the front part of your foot. This may cause you to drag your foot when you walk. Foot drop, also called drop foot, can be caused by a problem with the muscles, nerves, or anatomy of your foot or leg.

### Causes

Foot drop is not a condition by itself. It is a symptom of another disorder. Foot drop can be caused by a number of health conditions.

The most common cause of foot drop is peroneal nerve injury. This nerve is also called the fibular nerve is a branch of the sciatic nerve. It supplies movement and sensation to the lower leg, foot, and toes.

Conditions that affect the nerves and muscles in the body can lead to foot drop. They include:

- Peripheral neuropathy -- Diabetes is the most common cause of peripheral neuropathy. Charcot-Marie-Tooth disease is a common inherited peripheral neuropathy.
- Some muscle diseases cause foot drop, including some forms of muscular dystrophy.
- Polio is caused by a virus, and can cause muscle weakness and paralysis.

Crossing the legs at the knees can also damage the peroneal nerve.

Brain and spinal cord disorders can cause muscle weakness and paralysis and include:

- Stroke
- Amyotrophic lateral sclerosis (ALS)
- Multiple sclerosis

### Symptoms

Foot drop can cause problems walking. Because you can't raise the front of your foot, you need to raise your leg higher than normal to take a step to avoid dragging your toes or tripping. The foot may make a slapping noise as it hits the ground. This is called a steppage gait.

Depending on the cause of foot drop, you may feel numbness or tingling on the top of your foot or shin. Foot drop may occur in one or both feet, depending on the cause.

## **Exams and Tests**

Your health care provider will perform a physical exam, which may show:

- Loss of muscle control in the lower legs and feet
- Atrophy of the foot or leg muscles
- Difficulty lifting up the foot and toes

Your provider may order one or more of the following tests to check your muscles and nerves and to determine the cause:

- Electromyography (EMG, a test of electrical activity in muscles)
- Nerve conduction tests to see how fast electrical signals move through a peripheral nerve)
- Imaging tests such as MRI, x-rays, CT scans
- Nerve ultrasound
- Blood tests

## **Treatment**

Treatment of foot drop depends on what is causing it. In some cases, treating the cause will also cure foot drop. If the cause is a chronic or ongoing illness, foot drop may be permanent.

Certain people may benefit from physical and occupational therapy.

Possible treatments include:

- Braces, splints, or shoe inserts to help support the foot and keep it in a more normal position.
- Physical therapy can help stretch and strengthen muscles and help you walk better.
- Nerve stimulation may help retrain the nerves and muscles of the foot.

Surgery may be needed to relieve pressure on the nerve or to try to repair it. For long-term foot drop, your provider may suggest fusing the ankle or foot bones. Or you may have tendon surgery. In this, a working tendon and attached muscle is transferred to a different part of the foot.

## **Outlook (Prognosis)**

How well you recover depends on what is causing foot drop. Foot drop will often go away completely. If the cause is more severe, such as stroke, you may not recover completely.

## **When to Contact a Medical Professional**

Contact your provider if you have trouble walking or controlling your foot, including:

- Your toes drag on the floor while walking.
- Your foot makes a slapping noise on the ground as you walk (steppage gait).
- You are unable to hold up the front of your foot.

- You have decreased sensation, numbness, or tingling in your foot or toes.
- You have ankle or foot weakness.

## Alternative Names

Peroneal nerve injury - foot drop; Fibular nerve injury; Foot drop palsy; Fibular neuropathy; Peroneal neuropathy; Drop foot

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