



The Latest Technology and Materials for Mobility

FES for Foot Drop

Walking challenges are often tied to a term called “foot drop”. Foot drop refers to the inability to lift the toe and foot up as you walk due to weakness or paralysis. Individuals who have Cerebral Palsy (CP), Multiple Sclerosis (MS) or who suffered a stroke (CVA), traumatic brain injury (TBI) or spinal cord injury (SCI) can develop foot drop. Functional Electrical Stimulation (FES) may be a solution for patients with this condition and Rinella Orthotics & Prosthetics, Inc. makes this device available to patients. The goal of this device is to stimulate the common peroneal nerve to cause the affected foot to dorsiflex (raise up) during a person’s walking cycle. Patient’s become candidates for this FES device after an evaluation with us. We test the common peroneal nerve function and discuss treatment options with the patient during this visit.



Carbon Fiber in Braces

Carbon Fiber is a material that can be used for bracing that is very light weight and strong. Carbon Fiber can be substituted for plastic in AFOs (ankle foot orthoses) and other devices that are provided by Rinella Orthotics and Prosthetics, Inc. There is also an energy returning effect with Carbon Fiber, that can help a person walk more readily.



Stance Control KAFO

Advances in orthotic technology now can be incorporated into KAFOs (knee ankle foot orthoses). These medical grade braces incorporate new joints that all more support during the stance phase of gait and have the ability to adapt with an individual during their swing phase. Put more simply, the stance control KAFO can give you more support when you need it and more movement when you need to move your leg with each step.