GUARDIAN

ELITE REHABILITATOR™

The Next Step in Foot Drop Rehabilitation

- Controls foot drop and improves foot placement
- Facilitates gait rehabilitation
- Improves proprioception and encourages increased volitional use of leg muscles
- Accommodates plantar flexion tone
- IMPROVEMENTS RETAINED UNBRACED!

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U.S. Patent D583,062

ELITE REHABILITATOR™

An innovative gait rehabilitating foot drop solution

There are many carbon fiber ground reaction force dynamic AFOs available to correct foot drop. However, when the device is removed, there is little to no "carry over" un-braced. The device creates the necessary dorsiflexion of the ankle for the patient, but does not provide a stimulus for self activation of the patient's ankle muscles. The Elite™ AFO REHABILITATOR™ provides dorsiflexion and lower leg extension dynamic assist while facilitating muscle activation in the affected leg to promote muscle re-learning when the brace is worn. Over several months, many patients exhibit "carry over" with unassisted improved dorsiflexion un-braced! The patented Elite™ AFO REHABILITATOR™ is the only known rehabilitating dynamic AFO available in the world.

Features:

- Provides perturbation therapy with each step to facilitate patient muscle activation during gait. The more flexible footplate design with a stiffer strut than conventional carbon fiber AFOs creates an upwards "pop" at toe off that facilitates a reflective muscle activation stimulus similar to perturbation "tilt" therapy. This sensori-motor facilitation technique allows the patient to re-learn active ankle dorsiflexion over time.
- Perturbation therapy has been clinically proven to facilitate motor re-learning in stroke patients over time with repeated training[1]. Without a sensori-motor stimulus, many patients with significant proprioceptive motor deficits are unable to volitionally control correctly sequenced ankle movement.
- Provides excellent dorsiflexion assist and lower leg extension assist. The more flexible foot plate accommodates mild to moderate equinovarus spasticity patterns, diminishing spasticity over time with routine use.
- Daily use corrects learned hemiplegic gait biomechanics incrementally improving gait over time. Some patients require use of a gait rehabilitating knee brace providing sensori-motor stimulus (SPORT REHABILITATOR™) for optimal Hemiplegic Gait rehabilitation.
- Effective for patients with TBI, cerebral palsy, and neurological diagnosis.

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• BRACE •

[1]Sensory Stimulation Promotes Normalization of Postural Control After Stroke, Magnusson, et., al., Stroke, 1994.