

**Fetal Cell Transplantation, Body Weight -Suspended Treadmill Training, Inspiratory Muscle Strength Training, and Power-Assist Wheelchairs: Restorative Therapy and Technology for Spinal Cord Injury from the University of Florida.**

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This presentation will feature four emerging therapies for those with spinal cord injuries being developed at the University of Florida.

**Fetal Cell Transplantation:** 7 individuals with syringomyelia (fluid filled cysts of the spinal cord) after spinal cord injury have undergone transplantation at the University of Florida. The safety, feasibility and functional outcome of this technique will be discussed.

**Body Weight -Suspended Treadmill Training** is a new physiotherapy to restore walking in patients with central nervous system diseases. This technique will be reviewed in the context of the work of researchers at the University of Florida

**Inspiratory Muscle Strength Training** is a method to help ventilator dependent people to wean themselves from ventilatory support. Our experience in using this technique in chronic tetraplegia and the intensive care unit will be discussed.

**Power-Assist Wheelchairs** represent a bold new innovation in wheeled mobility. A small battery and motors (approximately 25-30 lbs) are integrated into the frame of manual wheelchairs. When the wheeler pushes the handrim, the motor is activated and assists propulsion. Manual wheelers that want to increase their range of travel, decrease fatigue, and guard against overuse injury will find benefit with this technology. Arrangements are being made to include a demonstration of a power assist wheelchair by DeltaGlide.