

Project Innovative Pediatric Harness Aids Recovery: Dynamic Harness Enhances Activity-Based Therapy for Pediatric Patients (19026)

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Technology description

Harness provides users with an innovative device for synergistic rehabilitation;

Unique harness design permits user-specific adjustments based on physical capabilities;

Allows users to expand their rehabilitation experience to both on and off the treadmill;

Locomotive training is a proven rehabilitation technique aimed to improve and repair motor function for spinal cord injuries.

Unfortunately, the current equipment used for locomotive training, specifically the harness, does not adequately meet the demands of the pediatric population. Pediatric users are in need of a harness that supports recovery and rehabilitation during locomotive training.

To address this need, a harness was designed to supply the user with the optimal rehabilitation harness.

The lightweight, customizable harness provides users with a dynamic approach to rehabilitation. The harness is considered a dynamic rehabilitation device since it allows user-specific adjustment based on physical abilities.

Additionally, the functionality of the harness is not limited to strictly locomotive training. The harness can be used away from the treadmill to assist with support and safety while at home. The harness meets the therapeutic goals of each user by utilizing adjustable features therefore yielding a more effective rehabilitation device.

Application area

The therapeutic value broadens to all neurological disorders, not just spinal cord injured patients.

Institution

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