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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 58416

Manuscript Type: CASE REPORT

Dynamic biomechanical effect of lower body positive pressure treadmill training for hemiplegic gait rehabilitation after stroke: A case report

Dynamic LBPP effect on hemiplegic gait

Abstract

BACKGROUND

The **lower** body positive pressure (LBPP) treadmill has potential applications for improving the gait of patients after stroke, but the related mechanism remains unclear.

CASE SUMMARY

A 62-year-old male patient suffered from ischemic stroke with hemiplegic gait. He was referred to our hospital because of a complaint of left limb weakness for two years. The



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Rehabilitation of gait after stroke: a review towards a ...

<https://jneuroengrehab.biomedcentral.com/articles/10.1186/1743-0003-8-66> ▾

Dec 13, 2011 · This document provides a review of the techniques and therapies used in **gait rehabilitation after stroke**. It also examines the possible benefits of including assistive robotic devices and brain-computer interfaces in this field, according to a top-down approach, in which **rehabilitation** is driven by neural plasticity. The methods reviewed comprise classical **gait rehabilitation** techniques ...

Lower-body positive pressure diminishes surface blood flow ...

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Nov 08, 2019 · The purpose of this study was to determine the effects of the **lower-body positive pressure** on surface blood flow during standing still and **treadmill** walking to explore cardiovascular safety for application to **rehabilitation** treatment. Thirteen healthy volunteers participated in the

The dynamic biomechanical effect of lower body positive pressure †



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Physiological Responses During the Lower Body Positive ...

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Oct 31, 2016 · INTRODUCTION. The **treadmill** is used for the exercise tolerance test (ETT) to objectively evaluate the physiological response of patients to cardiac **rehabilitation** [].However, many patients cannot complete the ETT due to general weakness, motor weakness associated with previous disease (e.g., **stroke**, traumatic spinal cord injury, or Parkinson disease), or pain.

Cited by: 4 **Author:** Ka-Young Lee, Jae-Young Han, Ji-Hyun Kim...

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Evaluation of Lower Body Positive Pressure Supported ...

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Recently, a **lower body positive pressure** support (LBPPS) system has emerged as an alternative means

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Dec 15, 2018 · Introduction: To date, the anti-gravity **treadmill** (AlterG), as a representative method of **Lower body positive pressure** (LBPP) treadmills, has been rarely reported for knee osteoarthritis (KOA)...

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