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Immediate muscle strengthening by an end-effector type gait robot with reduced

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Towards more effective robotic gait training for stroke ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3481425

Robot-driven **gait** therapy can provide assistance to patients during training and offers a number of advantages over other forms of therapy. ... The Ambulation-Assisting Robotic Tool for Human Rehabilitation (ARTHuR) is an **end-effector** system where **leg** movements are controlled via ... Brouwer B. **Muscle strengthening** and physical conditioning to ...

Cited by: 163 **Author:** Andrew Pennycott, Andrew Pennycott, D...
Publish Year: 2012

Innovative gait robot for the repetitive practice of floor ...

https://jneuroengrehab.biomedcentral.com/articles/10.1186/1743-0003-7-30

Jun 28, 2010 · Stair climbing up and down is an essential part of everyday's mobility. To enable wheelchair-dependent patients the repetitive practice of this task, a novel **gait robot**, G-EO-Systems (EO, Lat: I walk), based on the **end-effector** principle, has been designed. The trajectories of the foot plates are freely programmable enabling not only the practice of simulated floor walking but also stair ...

Published in: Journal of Neuroengineering and Rehabilitation · 2010
Authors: Stefan Hesse · Andreas Waldner · Christopher Tomelleri
Affiliation: Medical Park
About: Robotics · Brain ischemia · Stair climbing · Physical medicine and rehabilitation · Lowe...

Use of the robot assisted gait therapy in rehabilitation ...

https://www.researchgate.net/publication/224867329_**Use**_of_the_**robot**_assisted_**gait**...

use of the **robot** assisted **gait** therapy in **rehabilit ation of p atients with str oke** and spinal cord injury sale Vol. 48 - No. 1 EUROPEAN JOURNAL OF PHYSICAL AND REHABILITA TION MEDICINE 119 32.

Innovative gait robot for the repetitive practice of floor ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2914004

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Robot-assisted gait training for stroke patients: current ...

https://www.dovepress.com/**robot**-assisted-**gait**-training-for-stroke-patients-current...

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 48556

Manuscript Type: ORIGINAL ARTICLE

Prospective Study

Immediate muscle strengthening by an end-effector type gait robot with reduced real-time use of leg muscles: A case series and review of literature

Hwang CH. Efficient strengthening with a robot

Chang Ho Hwang

Abstract

BACKGROUND

5,660 Results Any time

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Electromechanical-assisted gait training after stroke: A ...

https://www.researchgate.net/publication/221874252_Electromechanical-assisted_**gait**...

PDF | Although electromechanical-assisted **gait** training after stroke seems to be effective, in the absence of a direct comparison between electromechanical devices it is not clear which device may ...