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JC Perry, J Rosen, S Burns - IEEE/ASME transactions on ..., 2007 - ieeexplore.ieee.org  
 ... dexterous exoskeleton for neurorehabilitation (CADEN)-7, ex- oskeleton design, human arm, wearable robotics ... The design and development of a high-performance robotic device is a process with ... ing the workspace and torque requirements of an assistive robot was generated ...

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### Design and evaluation of the LOPES exoskeleton robot for interactive gait rehabilitation

JF Veneman, R Kruidhof, EEG Hekman... - ... on Neural Systems ..., 2007 - ieeexplore.ieee.org  
 ... R. Weber, M. Scott, SJ Harkema, and DJ Reinkensmeyer, "Measuring human trainers' skill for the design of better robot control algorithms ... Robotics, 2005, pp ... JF Veneman, FCT Van der Helm, and H. Van der Kooij, "Selective control of a subtask of walking in a robotic gait trainer ...

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### State of the art and future directions for lower limb robotic exoskeletons

AJ Young, DP Ferris - IEEE Transactions on Neural Systems ..., 2017 - ieeexplore.ieee.org  
 ... developed with major DARPA EHPA funding was created by Sarcos, a robotics company founded ... Stationary treadmill-based robots such as the Lokomat, LOPES and ALEX devices have been ... effectively con- trol the exoskeletons to maximize the benefits of these robotic devices ...

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### Robot assisted gait training with active leg exoskeleton (ALEX)

SK Banala, SH Kim, SK Agrawal... - IEEE transactions on ..., 2009 - ieeexplore.ieee.org  
 ... the patient to participate more actively in the retraining process compared to other currently available robotic training devices ... J. Robotics Res., vol ... L. Lünenburger, S. Jezernik, M. Anderschitz, G. Colombo, and V. Dietz, "Patient-cooperative strategies for robot-aided treadmill ...

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### A physiologist's perspective on robotic exoskeletons for human locomotion

DP Ferris, GS Sawicki, MA Daley - ... Journal of Humanoid Robotics, 2007 - World Scientific  
 ... 00113 International Journal of Humanoid Robotics Vol. 4, No ... October 23, 2007 9:30  
 W070410113 W070410113 A Physiological Perspective on Robotic Exoskeletons for Human Locomotion

[HTML] nih.gov

**Name of Journal:** *World Journal of Orthopedics*

**Manuscript NO:** 39214

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**Robotic exoskeletons: The current Pros and Cons**

**Ashraf S Gorgey**

### Abstract

Robotic exoskeletons have emerged as rehabilitation tool that may ameliorate several of the existing health-related consequences after spinal cord injury (SCI). However, evidence to support its clinical application is still lacking considering their prohibitive cost. The current mini-review is written to highlight the main limitations and potential benefits of using exoskeletons in the rehabilitation of persons with SCI. We have recognized two main areas relevant to the design of exoskeletons and to their applications on major health consequences after SCI. The design prospective refers to safety concerns, fitting time and speed of exoskeletons. The health prospective refers to factors similar to body weight, physical activity, pressure injuries and bone health

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