

عنوان مقاله:

The effects of orthoses on the cinematic of walking people with spinal cord injury

محل انتشار:

کنفرانس بین المللی تحلیل حرکت (سال: 1399)

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خلاصه مقاله:

Objective: Walking with lower limb orthosis for people with spinal cord injuries is a common problem for patients referred to orthopedic centers, many of which cause physical problems for the patient and some of which cause physiological problems. Method: The disease was selected with spinal cord injury, which was tested with two conventional and new orthosis. Experiments were also performed on a healthy person. Gait analysis was performed to evaluate the kinematic parameters in this study. Findings: The maximum and minimum points of the curve related to angular and linear acceleration as well as linear and angular velocities at the wrist joint were obtained on the XZ sagittal plane. Conclusion: Based on this study, it is found that by placing the wrist joint to the orthosis, the patient can walk more easily and the movement pattern is closer to the healthy person.

کلمات کلیدی:

Orthosis, linear velocity, linear acceleration

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