

عنوان مقاله:

Invent a Removable orthosis with the ability to prevent foot drop and venous thrombosis and maintain muscle contraction

محل انتشار:

کنفرانس بین المللی پیشرفت های اخیر در مهندسی، نوآوری و تکنولوژی (سال: 1401)

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خلاصه مقاله:

Background: Intensive care includes the care of patients with life-threatening diseases, under the supervision of the most skilled personnel with advanced equipment and facilities, which includes all sensitive care related to the patient's life. Complications of hospitalization in special wards include foot drop, deep vein thrombosis and atrophy, and decreased muscle strength. The aim of this study is working on approaches for preventing Foot drop, deep vein thrombosis and atrophy and decreased muscle strength. Methods: This project started with a new researcher idea then by searching in the scientific content of articles and book, the title and proposal the project was compiled with opinion of the supervisor. Then model of the device was designed in collaboration with graphic & mechanical engineers Fianccy. The main tool was invented by the researchers. Results: Results of this study and other surveys can be one of the most effective ways to prevent prevent ankle foot drop, deformity of the toes, muscle atrophy, improve blood flow from the lower to the upper and monitor vital signs and maintain the strength of the foot muscles. Also using orthesis can decrease it significantly. Besides, modifying the preventive policies such as producing instruments like Removable orthosis is recommended

کلمات کلیدی:

.orthosis, foot drop, venous thrombosis, Muscle contraction, prevent

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