

عنوان مقاله:

Effect of 17-week IASTM and Electrotherapy on Gait Biomechanics and EMG in a Patient with Excessive Ankle Stiffness: A Case Study

محل انتشار:

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خلاصه مقاله:

Effect of IP-week IASTM and Electrotherapy on Gait Biomechanics and EMG in a Patient with Excessive Ankle Stiffness: A Case StudyPurpose: This case study aimed to investigate the effects of a IP-week intervention of instrument-assisted soft tissue mobilization (IASTM) and Electrotherapy on gait kinetics, kinematics, and electromyography (EMG) in a patient with excessive ankle stiffness.Methodology: A FI-year-old female with post-operation complications including decreased right ankle range of motion (ROM) and strength underwent a IP-week of IASTM and Electrotherapy. Gait analysis was performed before and after the intervention.Discussion and Conclusion: The results showed significant improvements in ankle m dimensional (mD) ROM, power, Moments, velocity, cadence, step length, GRF and decreased stiffness, single and double support time. Ankle dorsiflexion ROM was not significantly increased during gait. Findings suggest that a IP-week intervention of IASTM and electrotherapy can .improve gait mechanics and reduce muscle activity in a patient with excessive ankle stiffness

كلمات كليدى:

electrical stimulation; muscle activity; spatiotemporal, kinetic; kinematic

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