عنوان مقاله:

The effect of isometric external rotation of hip on electromyographic activity of the Gluteus Medius and Tensor fascia lata muscles in pelvic drop mowement with and without Genovalgom

محل انتشار:

كنفرانس بين المللي تحليل حركت (سال: 1399)

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خلاصه مقاله:

Abstract: Introduction & Objective: Genovalgum is one of the most common deformities of the knee joint inwomen. In this deformity, due to changes in the mechanical axis of the lower limb, changes occur in the function of the hip abductor muscles. Knee valgus is associated with decreased strength of the hip abductor muscles. Weaknessof the gluteus Medius muscle causes hyperactivity of the Tensor Fascia lata muscle. The aim of the present studywas to investigate the effect of isometric external rotation of hip on electromyographic activity of the GluteusMedius and Tensor fascia Lata in movement of the pelvic drop individuals with and without Genovalgom. Methods: In this study, 30 participants; Genovalgom (15 person with mean age of 21.7 + 2.12 years, an averageheight of 164.2 + 2.91 cm and an average weight of 58 + 1.9 kg), and healthy (15 person with mean age was 21.3+1.87 years and the mean height was 164.33+2.49 cm and the average weight was 58/1+58 kg) Participated .Individuals performed pelvic drop movement in three angles (neutral, 15 degrees internal rotation, 20 degreesexternal rotation) with and without isometric external rotation of hip. Electromyographic information of muscleswas recorded by electromyogram device. Intragroup information analysis was performed using repeated measuresanalysis of variance and intergroup information was performed using independent t-test.Results: The results showed that there was a significant difference in the activity of the gluteus medius musclebefore loading in two groups of genovalgum (p = 0.001) and healthy (p = 0.000), That muscle activity in bothgroups in the neutral state was higher than the other two states. After loading isometric external rotation of hip inboth groups, no significant difference was observed in the activity of the gluteus medius between the three angles. The activity of the Tensor Fascia Lata muscle before loading in the genovolcum group showed a significant difference in the neutral angle and 15 degrees of internal rotation (p = . / 005), which had the lowest activity in theangle of 15 degrees of internal rotation. In the healthy group, after loading, there was no significant difference in Tensor Fascia Lata muscle activity in three angles (p = / 063), Also, in the Genovalgum group, after loading, asignificant difference in Tensor Fascia Late muscle activity was observed between the neutral angles and 20 degreesof external rotation (p =. / 007), Which had the highest activity in the neutral angle and the ... lowest activity in 20degrees of external rotation. . In the comparison between groups b

كلمات كليدى:

pelvic Drop, isometric external rotation, electromyography, Genovalgom

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