

Available online at http://UCTjournals.com Iranian Journal of Social Sciences and Humanities Research UCT. J. Soc. Scien. Human. Resear. (UJSSHR)

43-47 (2017)



THE EFFECT OF 6-WEEK PLYOMETRICS EXERCIZE ON HYDROXYPROLIN SERUM OF ADULT AND YOUN VOLLEYBALL MEN

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Original Article:

Received 05 March. 2017 Accepted 30 March. 2017 Published 07 June. 2017

ABSTRACT

Hydroxiproline is the main bio-chemical criterion which shows the ruin of the collage tissue. It is a kind of amino acid which increases the resistance of the collage tissue of tendons, because the Hydroxiproline contains inter-molecule heterogenic connections in its own poly peptide chains. Plyometricsexercises are those kinds of exercises in which occurs a severe shortening contraction and then a long contraction will follow. The purpose of this study is to investigate the rate of changes of Hydroxiproline serum in young and adult volleyball men in 6 week Plyometricsexercise.

The method of this study is quasi-experimental. The participants of this study were chosen among the volleyball players of Kohgiluyehand Bouyerahmad province, Iran. 12 young men volleyball players and 12 adult volleyball players were chosen. The sampling process was random. The players were divided into two groups namely, young and adult. Before performing the exercises, the players were asked to fill the questionnaire and testimonial form.

The Plyometricsexercise decreased the rate of serum Hydroxiproline in young and adult men volleyball players after 6 week exercise, and this decrease was equal between the two groups. It can be said that performing the 6 week Plyometricsexercise make the tendon tissue more adaptable which can prevent the ruin of the other tissues by using regular physical exercises and keep them in a very high condition for a long time. By this method the tissue will not be exposed to arthritis and will continue maintaining their natural biosynthesis and gin a kind of adaptability by performing the Plyometricsexercises which include inside and outside contractions.

Keyword:

Hydroxiproline ,Plyometrics,young and adult men volleyball players

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Peer review under responsibility of Iranian Journal of Social Sciences and Humanities Research