

The Effect of Two Methods of Alternative and Continuative Exercise on Changing Leptin in Non-Athlete Students of Tehran University

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Abstract : The aim of this research is the effects of two methods of alternative and continuative exercise on changing leptin of non-athlete students of Tehran university. 45 non-athlete students (between 19 and 24 years old and weight 67.5 ± 8.06 kg and height 173.8 ± 7.23 cm) were selected randomly and divided in to three groups of 15, per counter of alternative and continuative. Before the exercise, blood test was carried out and the level of leptin was measured. The exercise was performed for 16 weeks, 3 sessions a week . Results are as follows: a) Continuative exercises had no effect on leptin serum (P=0.46); b) Alternation exercise had a meaningful effect on changing of leptin serum (p=0.01).

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Key Words
Leptin, Alternative Exercise, Continuative Exercise.

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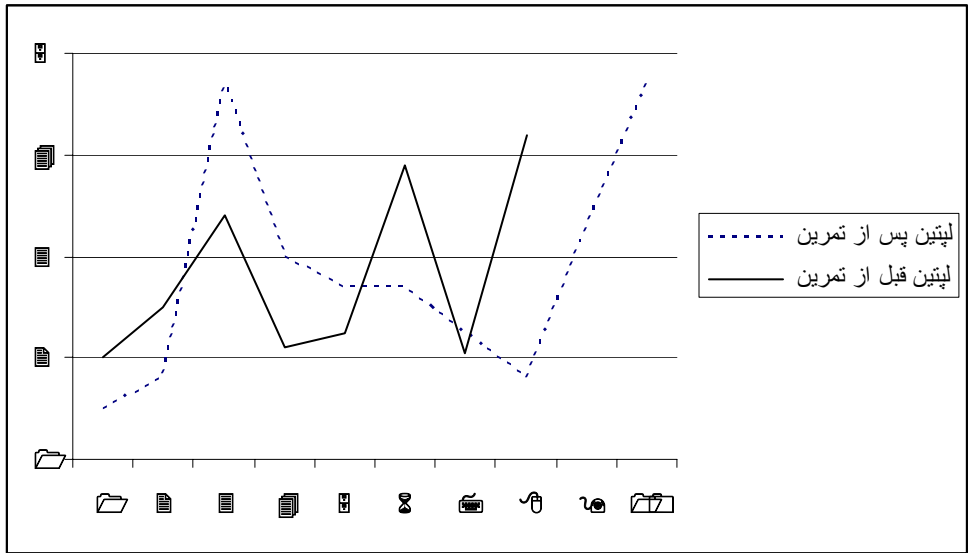
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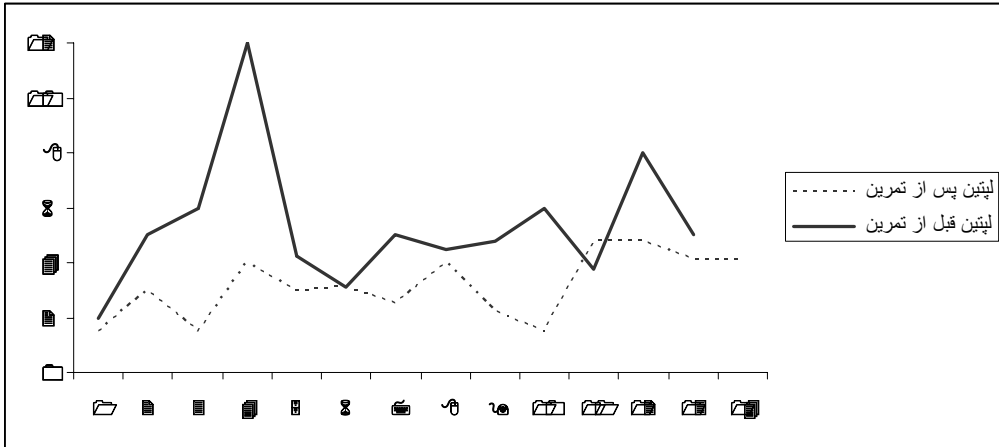


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9. Adams, James; (1999). "Plasma leptin in moderately obese men independent effects of weight loss and aerobic exercise". *Eur J appl Physiol* 79:PP: 331-5.
10. Cardose, (2000). "Aerobic endurance, energy expenditure on the plasma leptin concentration". *Metabolism*, 49:PP: 395-9.
11. Fgiada, G. Zvlioni, G. Blll, Enzl, Epa Almiri, S.Blpot, P.M.A. Gnini J. 04. *Sport. Med a physical. Fitness*. 2001.
12. Gomes - Merino D.(2000). "Decreases in serum leptin after prolonged". *Am J Physiol endocrinol metab*, 278: E PP:43-9.
13. Gong L, (2001). "Effect of exercise on leptin...", institute of sports medicine, beiliug medical university, Beijing 100083, China. May, 30 (3):PP: 158-9, 162.
14. Hickey. M.S., *Leptin is related to body fat ...*, department of exercise and sport science, school of health and human performance, east carolina university greenville, North carolina 27858 USA. Hphickey@ EcurM. CIS. ECU. EDU. 2002.
15. Kanaly. JA resting leptin responds to acute training, department of exercise, syracuse university, New York, USA, 2001, Oct; 25(70): PP: 7474-80.

16. Karamouzis, I the effects of marathon swimming on serumc leptin. Department of physical education and sport science, school of medicine, aristotle university of thessloniki, Greece. 2002 Feb. 40(2)..., PP: 132-6.
17. Kohrt, WM, Serum Leptin leveles are reduced in training. Washington university school of Medicine, 63170, USA. Wkohrt@imgate. Wustl. Edv 2000.
18. Koutsari C, (2003). "Plasma leptin is influenced by diet composition a exercisey, human moscle metabolism research Grovp school of sport and exercise sciences, lovghborough university, lovgh borough", V K. Aug; 27 (8):PP: 901-6.
19. Kunhing, chenph. D, (2001). "Serum leptin in childeren with obesity". J appl physiol , 80:PP: 154-8.
20. Perusse, Louis; (1997). "ACUte and chronic effects of exercise in leptin levels in humans", Jappl. physlol 83: PP:5-10.
21. Pasma. W, J; (1998). "The effect of exercise training on leptin levels in obese males", Am J physiol endocrinol Metab 27: E280-E286 .
22. Rescland, Janne E, (2001). "Effect of long - term changes ...", american journal of clinical nutrition, Vol 73, No. 2, PP:240-245, Feb.
23. Solis, elizabeth, the role of leptin in obese children. Human kinetics 2002.
24. Suerko. H. Robert, (1997). "Exercise training, serum liptins and lipoprotein". J Med. Sci. sprot. exerc. Vol 23, No. ? PP: 677-685.