

عنوان مقاله:

Expression of the Mir-۱۳۳ and Bcl-۲ could be affected by swimming training in the heart of ovariectomized rats

محل انتشار:

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خلاصه مقاله:

Objective(s): The beneficial and more potent role of exercise to prevent heart apoptosis in ovariectomized rats has been known. The aim of this study was to examine the effects of swimming training on cardiac expression of Bcl-۲, and Mir-۱۳۳ levels and glycogen changes in the myocyte. Materials and Methods: Forty animals were separated into four groups as control, sham, ovariectomy (OVX) and ovariectomized group with ۸ weeks swimming training (OVX.E). Training effects were evaluated by measuring lipid profiles, Bcl-۲ and Mir-۱۳۳ expression levels in the cardiac tissue. Grafts were analyzed by reverse transcription–polymerase chain reaction for Bcl-۲ mRNA and Mir-۱۳۳ and by Western blot for Bcl-۲ protein. Results: Ovariectomy down-regulated Bcl-۲ and Mir-۱۳۳ expression levels in the cardiac tissue, and swimming training up-regulated their expression significantly ($P < 0.05$). Conclusion: Our results showed that regular exercise as a physical replacement therapy could prevent and improve the effects of estrogen deficiency in the .cardia

کلمات کلیدی:

Bcl-۲, Heart, Mir-۱۳۳, Ovariectomy, Swimming training

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