

## عنوان مقاله:

Protective Effects of Garlic Powder on the Performance of Testosterone- Induced Cardiac Hypertrophy in Rats

## محل انتشار:

مجله علمی پژوهشی دانشگاه علوم پزشکی زنجان، دوره 26، شماره 115 (سال: 1397)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

**Background and Objective:** The androgens cause the cardiac hypertrophy and cardiomyopathy. There are reports of garlic protective effects in the cardiac hypertrophy due to overload and catecholamine. The aim of this study was to investigate the effects of garlic powder on testosterone-induced cardiac hypertrophy in rats. **Materials and Methods:** This experimental study was performed on Wistar male rats in 5 groups (n = 8-7) including the testosterone group (10 mg testosterone enanthate for 20 days), the garlic group (1.6 g for 10 days) Day), the control garlic group and finally the garlic + testosterone. The separated hearts were perfused according to Langendorff method and passed three basal stages, ischemia and reperfusion. The structural and functional parameters of left ventricular fluctuations (LVDP), ventricular contractility (dp / dt) and (RPP) were measured. **Results:** In the testosterone-induced hypertrophy group, the cardiac weight, the thickness of the left ventricular wall and the functional parameters of the heart, such as LVDP, RPP, + dp / dt, and -dp / dt indicated significant increase. The use of garlic powder in the base period led to a significant decrease in these parameters (P < 0.05). However, in the period of ischemic reperfusion, the effect was not significant. **Conclusion:** The results showed that the garlic powder modifies the cardiac hypertrophy induced by testosterone administration in rats. In other words, the use of garlic powder could potentially reduce the severity of cardiac hypertrophy in rats, due to variations in functional and structural parameters.

## کلمات کلیدی:

Garlic, Cardiac Hypertrophy, Testosterone, Ischemia / Reperfusion, Rat

## لینک ثابت مقاله در پایگاه سیویلیکا:

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