

عنوان مقاله:

Ginger (*Zingiber officinale* Roscoe) extract can improve the levels of some trace elements and total homocysteine and prevent oxidative damage induced by ethanol in rat eye

محل انتشار:

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نویسندگان:

Abolfazl Akbari - *Department of Physiology, School of Veterinary Medicine, Shiraz University, Shiraz, Iran*

Khadijeh Nasiri - *Department of Exercise Physiology, Faculty of Sport Science, University of Mazandaran, Babolsar, Iran*

Mojtaba Heydari - *Poostchi Ophthalmology Research Center, Shiraz University of Medical Sciences, Shiraz, Iran*

خلاصه مقاله:

Objective: Acute and chronic ethanol consumption cause oxidative stress and ginger improves such conditions. In this study, the protective effects of ginger were studied on indices of oxidative stress, total homocysteine level and the level of the some of the oxidative stress-associated trace elements against toxicity induced by ethanol in rat eye. **Materials and Methods:** Twenty-four adult male Sprague-Dawley rats were randomly allocated into four groups and treated daily for 28 days as follows: group I: control; group II: ginger (1g/kg/day ginger extract by oral gavage); group III: ethanol (4g/kg/day ethanol by oral gavage) and group IV: ginger+ethanol. At the end of the experimental period, eye tissue sera were used for determination of different parameters. Furthermore, in vitro antioxidant potential and total phenol content of ginger extract were determined. **Results:** In ethanol group, significant changes in oxidative stress markers and levels of homocysteine and some trace elements, compared to other groups, were observed (p < 0.05). **Conclusion:** It can be concluded that ginger extract has protective effects against toxicity induced by ethanol in the eye of male rat.

کلمات کلیدی:

Eye, Ethanol, ginger, Oxidative stress, Homocysteine, Trace Element, *Zingiber officinale* Roscoe

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