

عنوان مقاله:

Preventive effects of *Allium hirtifolium* Boiss methanolic and aqueous extracts on renal injury induced by lead in rats

محل انتشار:

Journal of Herbmmed Pharmacology, دوره 7, شماره 3 (سال: 1397)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Nafise Hajian

Zahra Rezayatmand

Kahin Shahanipur

خلاصه مقاله:

Introduction: In this study the kidney protective effects of methanolic and aqueous extracts of *Allium hirtifolium* Boiss (shallot) were evaluated on kidney toxicity induced by lead (Pb) in Wistar rats. **Methods:** Eighty adult female Wistar rats of 3–5 months of age and weighing 200–250 g were allocated randomly into 10 groups and treated for 15 and 30 days as follows: control group, Pb (10 mg/L), methanolic extract of shallot (12.5 mg/kg and 25 mg/kg), Pb plus methanolic extract of shallot (12.5 mg/kg and 25 mg/kg), aqueous extract of shallot (12.5 mg/kg and 25 mg/kg), Pb plus aqueous extract of shallot (12.5 mg/kg and 25 mg/kg). Serum concentrations of glucose as well as renal parameters were measured at 15 days and 30 days in the studied groups. **Results:** Analysis showed a significant reduction in the mean of urea in the methanolic extract group with a concentration of 12.5 mg/kg, compared to the lead group. Consumption of 25 mg/kg methanolic extract of shallot showed a significantly reduction of uric acid, creatinine and total protein in comparison with control group and lead group. Consumption of 25 mg/kg methanolic extract of shallot+lead was able to reduce the mean of urea uric acid, creatinine and total protein in comparison with lead group. Also, the results showed that methanolic extract of shallot+lead at a dose of 12.5 mg/kg could reduce the mean of urea uric acid, creatinine and total protein in comparison with lead group. There was no significant difference in the rest groups. **Conclusion:** The results of the study showed that shallot extract can dose dependently reduce the factors related to lead induced renal damages.

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1910755>

