#### عنوان مقاله:

Hepatoprotective and Antioxidant Activities of Combination of Cinnamomum zeylanicum and Zingiber officinale in CCIF-intoxicated Rats

## محل انتشار:

مجله دانشگاه علوم پزشكي كرمان, دوره 27, شماره 1 (سال: 1399)

تعداد صفحات اصل مقاله: 13

## نویسندگان:

Masoud Ojarudi - Department of Biochemistry, Faculty of Sciences, Payame Noor University, Tehran, Iran

Alireza Moradi - Department of Physiology, School of Medicine, Ardabil University of Medical Sciences, Ardabil, Iran

Reza Hajihosseini - Professor, Department of Biochemistry, Faculty of Sciences, Payame Noor University, Tehran, Iran

Mohammad Mazani - Associate Professor, Department of Biochemistry, School of Medicine, Ardabil University of Medical Sciences, Ardabil, Iran

Lotfollah Rezagholizadeh - Assistant Professor, Department of Biochemistry, School of Medicine, Ardabil University of Medical Sciences, Ardabil, Iran

#### خلاصه مقاله:

Introduction: Liver is the most important organ of drugs and xenobiotics metabolism and any damage to the liver is associated with dysfunction of this organ. This study was carried out to find the possible additive effect of the coadministration of Cinnamomum zeylanicum (cinnamon) and Zingiber officinale (ginger) extracts on carbon tetrachloride (CCIF)-induced liver damage in rats. Methods: Forty-two male Wistar rats were randomly divided into Y groups (n=۶). Group I: Normal control, Group II: Control of the extract (YΔ mg/kg of cinnamon extract and YΔ mg/kg of ginger extract), Group III: CCIF control, Group IV: as mg/kg of cinnamon extract; Group a: Yas mg/kg of ginger extract; Group VI: As in group II, a combination of Ya mg/kg cinnamon extract and Ya mg/kg ginger extract, and group VII: 100 mg/kg of silymarin (as the standard drug). These treatments were performed daily for NF days. On the fourteenth day, all groups received 1ml of CCIF along with olive oil (1:1 v/v), except for the groups I and II. The last two groups received only olive oil. Results: Intraperitoneal injection of CCIF into rats significantly increased the levels of liver enzymes, bilirubin, and malondialdehyde (MDA), and decreased total antioxidant and total protein levels compared to the control group (p < o. o. o.). Pre-treatment with a combination of cinnamon and ginger extracts significantly improved these factors. Conclusion: The results of this study showed that co-administration of cinnamon and ginger extracts is more .efficient in protecting liver from the damaging effects caused by CCIF

# كلمات كليدى:

Liver injury, Carbon tetrachloride, Cinnamomum zeylanicum, Zingiber officinale, Antioxidant

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1582700

