

عنوان مقاله:

Cinnamon extract supplementation improves inflammation and oxidative stress induced by acrylamide: An experimental animal study

محل انتشار:

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نویسندگان:

Fatemeh Haidari - *Nutrition and Metabolic Diseases Research Center, Department of Nutrition, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Majid Mohammadshahi - *Hyperlipidemia Research Center, Department of Nutrition, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Behnaz Abiri - *Department of Nutrition, Faculty of Paramedicine, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*

Mehdi Zarei - *Department of Food Hygiene, Faculty of Veterinary Medicine, Shahid Chamran University of Ahvaz, Ahvaz, Iran*

خلاصه مقاله:

Objective: Toxic effects of acrylamide on body organs incline researches to prevent or decrease these effects. The objective of the present study was to evaluate the effects of cinnamon extract (CE) supplementation on inflammation and oxidative stress induced by acrylamide in rats. Materials and Methods: Thirty two rats were divided into four groups as follow 1) The control group received distilled water, 2) Acrylamide- intoxicated group was administrated with 35 ml/kg/day acrylamide for two weeks, 3) Acrylamide- intoxicated rats treated with CE 250 mg/kg/day for 28 days, and 4) Acrylamide- intoxicated rats treated with CE 500 mg/kg day for 28 days. Fasting blood sample was obtained for subsequent analysis. Results: The results showed that acrylamide- intoxicated group had significantly higher levels of malondialdehyde, tumor necrosis factor alpha, high sensitive C reactive protein, leptin and alanine transaminase (p0.05). Conclusion: This study suggests that cinnamon extract may potentially be effective as a dietary source of bioactive compounds for managing acrylamide intoxication

کلمات کلیدی:

Cinnamon extract, Acrylamide, Oxidative stress, Liver Enzyme, Inflammation

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