

عنوان مقاله:

Protective and anti-inflammatory effects of silymarin on paraquat-induced nephrotoxicity in rats

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خلاصه مقاله:

Introduction: Paraquat is a quaternary nitrogen herbicide which induces kidney toxicity due to producing oxidative stress. We have investigated the potential protective effects of silymarin on paraquat-induced renal toxicity. Methods: Twenty-four male rats were divided into three groups, group 1, control group; group Y, rats that received paraquat only (Y Δ mg/kg b.w./day, po); animals in group Ψ , was treated with paraquat (Y Δ mg/kg b.w./day, po) and silymarin ($\Delta \circ$ mg/kg b.w./day, po). Then, the serum and tissue parameters of the oxidative stress and renal histopathological changes were examined. Results: In group Y which received paraquat only, a remarkable increase (P< $\circ.\circ\Delta$) was observed in serum creatinine, urea, malondialdehyde (MDA), protein carbonyl, and tumor necrosis factor alpha (TNF- α). Also, there was a significant decrease in renal superoxide dismutase, catalase (CAT), ferric reducing ability of plasma (FRAP) and vitamin C in the second group. Oral administration of silymarin significantly decreased serum urea, creatinine, protein carbonyl, MDA, and TNF- α as well as renal histopathological changes. Conclusion: The present study suggests that silymarin has anti-inflammatory and nephroprotective effects against nephrotoxicity .caused by paraquat

كلمات كليدى:

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