

عنوان مقاله:

Investigating the effects of Citrullus colocynthis pulpon oxidative stress in testes and epididymis instreptozotocin-induced diabetic male rats

محل انتشار:

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خلاصه مقاله:

Background: Diabetes mellitus (DM) is one of the most common metabolicdiseases in humans, affecting 100 million people around the world.Objective: Investigating the effects of Citrullus colocynthis pulp on oxidant andantioxidant factors of testes and epididymis in streptozotocin-induced diabetic malerats.Materials and Methods: Thirty-two male rats were divided into four groups eighteach: 1) N (normal) group, 2) N+C group, 3) D (diabetic) group and 4) D+C group.Groups N and D received normal saline 2 ml orally for two weeks and groups N+Cand D+C received 10 mg/kg.bw Citrullus colocynthis pulp orally for two weeks.Diabetes was induced by single intraperitoneal injection of streptozotocin (STZ) at65 mg/kg.Results: D group had a significant increase in H₂O₂ (Hydrogen peroxide) and MDA(malondialdehyde) concentrations, and CAT (catalase) activity, and also asignificant decrease in Peroxidase (POD) activity compared to N group. D+C grouphad a significant decrease in H₂O₂ and MDA concentrations and, CAT activity andsignificant increase in POD activity compared to D group.Conclusion: Citrullus colocynthis pulp in two weeks had beneficial effects onoxidants and antioxidants changes in reproductive system in streptozotocin-induceddiabetic rats

کلمات کلیدی:

Diabetes, Catalase, Peroxidase, Malondialdehyde, Hydrogen peroxide, Oxidant

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