

Effect of Aqueous Extract of *Capparis spinosa* on Serum Antioxidant Status in Paracetamol Treated Rats

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ABSTRACT

Protective effect of aqueous extract of *Capparis spinosa* was studied on paracetamol induced liver damage in rats by administrating the rats with 1gm/ kg of body weight of paracetamol for 21days. Pretreatment rats with 100 and 200 mg / kg of body weight of *Capparis spinosa* extract protected rats against paracetamol liver injury lead to significantly increasing of reduced glutathione (GSH), catalase (CAT) and superoxide dismutase (SOD), and significantly lowering lipid peroxidation (LPO), malondialdehyde (MDA), cholesterol and triglyceride levels .

The elevation in GSH, CAT and SOD and reduction LPO and MDA by using aqueous extract of *Capparis spinosa* comparing with positive control and returning the biochemical parameters to normalization indicated that the aqueous extract of *Capparis spinosa* possesses strong protective property against paracetamol- induced liver damage in rats.

Keywords : *Capparis spinosa*, paracetamol, antioxidant enzymes, lipid peroxidation, liver induced damage .

Capparis spinosa

Capparis spinosa ()

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. 21

/ 200 100

(SOD)

(CAT)

(GSH)

.(MDA)

(LPO)

SOD CAT , GSH

Capparis spinosa

MDA LPO