



International Journal of PharmTech Research

CODEN (USA): IJPRIF, ISSN: 0974-4304 Vol.9, No.2, pp 98-105, 2016

Protective role of turmeric extract (*Curcuma longa*) in the lipid profile and activity of antioxidant in the male rats treated by lithium carbonate

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Abstract: The antioxidant effect of turmeric (*Curcuma longa*) extract against side effects induced by lithium carbonate (Li2CO3) were studied. The experiment was carried out on fifty male rats distributed randomly into 5 groups of 10 animals in eachgroup. The (1) group was kept as a normal control was received normal saline, rats of group (2) and (3) were given only lithium carbonate only in a dose 4 and 8 mg/kg for induction of oxidative state on rats, While other groups (4) was received lithium carbonate at dose 4 mg/kg with turmeric extract at dose 1 g for 1 kg of diet and groups (5) was received lithium carbonate at dose 8 mg/kg with turmeric extract at dose 1 g for 1 kg of diet. Results showed that oral administration of turmeric extract in rats with oxidative state by Li2CO3 decrease the lipid profile parameters and increase antioxidant enzymes. Conclusively: treatment by turmeric extract was produce a protective effect against oxidative stress by Li2CO3 in the male rats.

Keywords: lithium, lipid profile, lipid peroxidation, glutathione peroxidase, superoxide dismutase, male rat.

Haider Salih Jaffat et al /Int.J. PharmTech Res. 2016,9(2),pp 98-105.
