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Protective Mechanism of Methanol Extract from *Terminalia chebulae* on the Paraquat Toxicity

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In this study, we investigated to the determination of antioxidant on methanol extract from *Terminalia chebulae*(TCM 100, 200, 300mg/kg) in male ICR mouse administered per os for 2 weeks on the toxicity of paraquat(PQ, 100mg/kg, ip). The renal lipid peroxidation was lowest in the TCM and free radical generating enzyme system activities which was xanthine oxidase, aldehyde oxidase, aminopyrine N-demethylase, aniline hydroxylase, superoxide dismutase, catalase, glutathione peroxidase were significantly decreased compared to the PQ group. Malondialdehyde and collagen in lung tissue which was induced PQ toxicity were significantly decreased compared to the TCM pretreated group. And pretreatment with TCM was increased activity of glucose 6-phosphatase in the lung tissue compared to the PQ treated. From these results, we concluded that TCM is an effective agent to the inhibit the free radicals induced by PQ.