

Evaluation of the Hepatic and Renal-protective Effects of Ganoderma Lucidum in Mice

謝瀛華

摘要

Abstract

The antioxidative effect of hot water extract of the mushroom *Ganoderma lucidum* on ethanol-induced free radical generation had been studied. In order to further investigate the hepatic and renal protective mechanism of *Ganoderma lucidum*, rates of lipid peroxidation were determined. The hot water extract of *Ganoderma lucidum* dose-dependently exhibited antioxidative effect on mouse liver and kidney lipid peroxidation; our results indicated that hepatic and renal homogenates have a higher malonic dialdehyde level in an ethanol administered group than in the *Ganoderma lucidum* treated group. It was concluded that the hepatic and renal protective mechanism of *Ganoderma lucidum*, might be due at least in part to its prominent superoxide scavenging effect. *Ganoderma* extract could protect the liver and kidney from superoxide induced hepatic and renal damages.