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Effect of Terminalia chebula aqueous extract on oxidative stress and antioxidant status in the liver and kidney of young and aged rats.

Mahesh R, Bhuvana S, Begum VM.

Department of Siddha Medicine, Faculty of Science, Tamil University, Thanjavur, Tamilnadu, India.
melanimahesh@gmail.com

Abstract

We evaluated the preventive effects of Terminalia chebula (*T. chebula*) aqueous extract on oxidative and antioxidative status in liver and kidney of aged rats compared to young albino rats. The concentrations of malondialdehyde (MDA), lipofuscin (LF), protein carbonyls (PCO), activities of xanthine oxidase (XO), manganese-superoxide dismutase (MnSOD), catalase (CAT), glutathione peroxidase (GPx), glutathione reductase (GR), glutathione-S-transferase (GST), and glucose-6-phosphate dehydrogenase (G6PDH), levels of glutathione (GSH), vitamin C and vitamin E were used as biomarkers. In the liver and kidney of aged animals, enhanced oxidative stress was accompanied by compromised antioxidant defences. Administration of aqueous extract of *T. chebula* effectively modulated oxidative stress and enhanced antioxidant status in the liver and kidney of aged rats. The results of the present study demonstrate that aqueous extract of *T. chebula* inhibits the development of age-induced damages by protecting against oxidative stress. (c) 2009 John Wiley & Sons, Ltd.

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