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Evaluation of anti atherosclerotic activity using ethanolic extract of whole plant of *Ficus dalhousiae* in experimental rats

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Aim: Evaluation of anti-atherosclerotic activity using ethanolic extract of whole plant of *Ficus dalhousiae* in experimental rats.

Materials and Methods: *Ficus dalhousiae* whole plant was subjected to extraction process by using the Soxhlet apparatus. Phytochemical evaluation of the plant has been done and preliminary tests have been determined. Measurement of various parameters and biochemical estimation of the blood sample has been performed. Acute Oral Toxicity Testing-. OECD -423 has been performed on the animals. The dose level to be used as the starting dose selected from one of four fixed levels 5, 50, 300 and 2000mg/kg body weight. The starting dose level should be that which is most likely to produce mortality in some of the dosed animals. The time interval between treatment groups was determined by the onset, duration, and severity of toxic signs. Treatment of animals at the next dose, delayed until was confident of survival of the previously dosed animals. Animals were observed individually after dosing at first 30 minutes, periodically during the first 24 hours, with special attention given during the first 4 hours, and daily Thereafter, for a total of 14 days, it should be determined by the toxic reactions, time of onset and length of recovery period, and may thus be extended when considered necessary (104). All observations were systematically recorded with individual records being maintained for each animal. The test substance was administered in a single dose by using a oral gavage needle. At the end of the experiment serum enzymes SGOT, SGPT and ALP level and the lipid profile (Total cholesterol, HDL, LDL, VLDL and triglyceride levels) and total protein was determined enzymatically on biochemistry semi-autoanalyser. SOD, GSH, MDA were determined by using UV spectrophotometer were noted for statistical analysis.

Results: It can be concluded from the present study that ethanolic extract of *Ficus dalhousiae* preparation at the dose of 200 mg/kg and 400 mg/kg,p.o. shows antiatherosclerotic activity in high cholesterol diet model in rats. Ethanolic extract of preparation *Ficus dalhousiae* may have antiatherosclerotic activity due to inhibition of the HMG CoA enzyme pathway and its antioxidant effect.

Biography

Ganta Supriya has completed her M Pharmacy in Pharmacology at the age of 25 from Vikas College of Pharmacy under the affiliation of JNTU- K.

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