

2nd International Conference and Exhibition on **Traditional & Alternative Medicine**

August 25-26, 2014 DoubleTree by Hilton Beijing, China

Antihyperlipidemic activity of methanolic extract of *Garcinia indica* fruit rinds in poloxamer-407 induced hyperlipidemic mice

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Hyperlipidaemia is a clinical and metabolic disorder characterized by abnormal elevation in the major circulatory lipid and lipoprotein levels accounting for approximately 56% cases of cardiovascular diseases worldwide and causes about 4.4 million deaths annually. There are variety of plant are available in traditional medicines, which are ethnomedically claimed to be antihyperlipidaemic but still scientifically not proven. With this aim the selected plant i.e. *Garcinia indica* has added interest because it joins two basic cardiovascular disease (CVD) control factors: food and medication. The usefulness of such type of untapped foodie plant could be developed for patients having CVD in order to improve their lifestyle and control their disease. With this kind of menu, patients having CVD could potentially avoid the use of the synthetic antihyperlipidaemic or cardioprotective agents. Hence the methanolic extracts of fruit rinds of *Garcinia indica* were evaluated for antihyperlipidemic activity in Poloxamer-407 induced hyperlipidemic mice. The administration of the methanolic extract of fruit rinds (400 mg/kg p.o.) in Poloxamer-407 induced hyperlipidemic Mice create a significant ($p < 0.05$) reduction in elevated serumtotal cholesterol (TC), triglycerides (TG), and low density lipoprotein (LDL) levels and significant maintenance of high density lipoprotein (HDL) level, the study also confirm by histopathological observations.

Biography

Ankita N Patel has completed her Graduation and Post Graduation from Pune University. Currently she is working as an R & D Executive at Apogee Healthcare Pvt. Ltd., Mumbai. Till date she has published 6 research papers in reputed international journals and attended many seminar and conferences. Her area of interest includes standardization of Traditional medicinal formulations and Cosmetics, Isolation and characterization of phytochemicals, Pharmacogonostical and Pharmacological screening of herbs.

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