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Phytochemical and Pharmacological evaluation of leaves of Zizyphus nummularia

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The hypoglycemic and hypolipidemic effect of Ethanolic and aqueous extract of Zizyphus nummularia (250mg/kg & 500mg/kg) was evaluated by Alloxan-induced diabetic rats. Animals were induced for diabetes with Alloxan (150 mg/kg of body weight- i.p.) and treated orally with Ethanolic and aqueous extract of Zizyphus nummularia. The extracts showed significant (p<0.01) anti-hyperglycemic and hypolipidemic activity as compared to diabetic control. The extract shows beneficial effects on blood glucose. It also reduces the elevated biochemical parameters such as triglycerides (TGL), low density lipoprotein (LDL), very low density lipoprotein (VLDL), total cholesterol (TC), increased the reduced level of high density lipoprotein (HDL) and maintain body weight. The histological slides shows normal architecture with extracts treated groups compared to diabetic control. Thus both extracts could serve as good oral hypoglycemic agents and seems to be promising for the development of phytomedicines for diabetes mellitus.

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