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Antihyperglycemic and antihyperlipidaemic activities of *Dolichos lablab* seed extract on streptozotocin-nicotinamide induced diabetic rats

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Diabetes is a metabolic disorder affecting carbohydrate, fat and protein metabolism. *Dolichos Lablab* (Family-Leguminosae) is common climber found in India, with an extensive edibility. Traditionally all parts of the plant are extensively used as anticholesterolemic, antidote, carminative and hypoglycemic. Aim of the present work was to evaluate the anti hyperglycaemic activity of *Dolichos Lablab* methanol extract (MEDL) and determine its preliminary phytochemicals. In addition, the extract was also studied for its effect on liver enzymes and anti hyperlipidaemic activity. MEDL was administered at doses of 200 mg/kg and 400 mg/kg, per oral to diabetes induced and normal rat for 14 days. Phytochemical analysis of MEDL showed the presence of flavonoids, steroids, alkaloids, glycosides and saponins. The extract lowered elevated blood glucose, serum lipids and liver enzymes in diabetic rats. These activities were also compared with the effect produced by a standard anti diabetic agent, glibenclamide. The present investigation established pharmacological evidence to support the traditional claim of *Dolichos Lablab* by MEDL as an anti diabetic and anti hyperlipidemic agent.