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Formulation and Evaluation of Anti Diabetic Polyherbal Formulations In Alloxan Induced Diabetic Rats

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Objectives: To evaluate the in vivo antidiabetic activity of polyherbal formulations extract and decoction of fresh leaves of *Momordica*, *Psidium guajava*, *Tinospora*, *Aegle marmelos* and fruits of *Embelia ribes*, *Ficus carica*, and bark of *Cedrus deodara*, and rhizome of *curcuma longa*.

Methods: The albino rats divided into nine groups, Group I - Normal animals treated with vehicle (0.5%w/v CMC), Group II - Diabetic animals treated with Alloxan 150mg/kg, Group III - Diabetic animals treated with Glibenclamide 5mg/kg/day P.O), Group IV - Diabetic animals treated with EPHF, 200mg/kg P.O, Group V - Diabetic animals treated with EPHF, 400 mg/kg. P.O, Group VI - Diabetic animals treated with DPHF, 100mg/kg. P.O, Group VII - Diabetic animals treated DPHF, 200mg/kg. P.O, Group VIII - Diabetic animals treated with PPHF, 300mg/kg. P.O, Group IX - Diabetic animals treated with PPHF, 400mg/kg. P.O. The fasting blood glucose levels were monitored for all animals in 2, 4, 6, 9 days of drug treatment by using glucometer (Model- Accucheck, Roche Germany).

Results: The fasting blood glucose levels in polyherbal formulations treated animals was compared with that of diabetic control group animals. The collected data was subjected to appropriate statistical tests including one way ANOVA (Analysis of Variance), followed by an appropriate Dunnett's post hoc test.

Conclusions: Decoction of Polyherbal formulation had less significance of anti-diabetic activity compared with that of extract formulation. Powder formulation had less potency compared to decoction and extract Polyherbal formulation. Polyherbal formulation was capable in control of Hyperglycemia. So it can conclude that the secondary complications of diabetes are treated passively with Polyherbal formulation.