

Effect of Neem Leaves Extract (*Azadirachta Indica*) on Blood Glucose Level and Lipid Profile in Normal and Alloxan-Diabetic Rabbits

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Abstract : Extracts of various plants material capable of decreasing blood sugar have been tested in experimental animal models, and their effects confirmed. Neem or Margose (*Azadirachta Indica*) is an indigenous plant believed to have antiviral, antifungal, antidiabetic, and many other properties. In this paper deals with a comparative study of effect of aqueous Neem leaves extract alone or in combination with glibenclamide on alloxan diabetic rabbits. Administration of crude aqueous Neem extract (CANE) alone (1.5 ml/kg/day) as well as the combination of CANE (1.5 ml/kg/day) with glibenclamide (0.25 mg/kg/day) significantly decreased ($P < 0.05$) the concentrations of serum lipids, blood glucose and lipoprotein VLDL and LDL but significantly increased ($P < 0.05$) the concentration of HDL. The change was observed significantly greater when the treatment was given in combination of CANE and glibenclamid than with CANE alone.

Keywords : aqueous neem leaves extract, hypoglycemic, hypolipidemic, cholesterol

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