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## 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 (AzadirachtaIndica) 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: aqueos neem leaves extract, hypoglycemic, hypolipidemic, cholesterol

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