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Hypoglycemic activity of methanolic extract of *Hyoscyamus albus* l. leaves in streptozotocin induced diabetic rats

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Diabetes mellitus is a metabolic disorder constituting a major health concern today whose prevalence has continuously increased in the world. The aim of this study is to evaluate the anti-diabetic potential of methanolic extract of *Hyoscyamus albus* (HAMEOH) in diabetic rats. *Hyoscyamus albus* (Solanaceae) is an herbal medicine traditionally applied as a parasympatholytic and nervous sedative. The oral glucose tolerance test (OGTT) was carried out by administering glucose (2 g/kg, b.w), to non-diabetic rats treated with HAMEOH at oral doses 100 and 200 mg/kg, b.w and glibenclamide 5 mg/kg. Also, Streptozotocin-induced diabetic rats, these diabetic rats were administered (100 and 200 mg/Kg b.w) and standard drugs glibenclamide was given to rats for 30 days. The oral administration of both doses of HAMEOH significantly reduced the levels of blood glucose and glycosylated hemoglobin in diabetic rats. Determination of plasma insulin levels revealed the insulin stimulating action of the leaves extract. It is concluded that HAMEOH have significant anti-diabetic activity.

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