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Antihyperglycemic Activity of Methanolic Extract of *Capparis decidua* in Streptozotocin Induced Diabetic Male Albino Rats

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Abstract—Objectives: *In the present investigation, methanolic extract of* Capparis deciduas (CDMtE) *fruits was evaluated for antihyperglycemic activity in streptozotocin (STZ)-induced diabetic male albino rats.*

Method: *Diabetes was induced by intraperitoneal injection of streptozotocin (50mg/Kg). Distilled water, glibenclamide,* Capparisdecidua m*ethanolic extracts (CDMtE) of 100 and 200mg/kg were given orally for 7 days to the control groups, standard group and test groups respectively. Blood Glucose, TC (total cholesterol), TG (triglyceride), LDLs(Low density lipoprotein)levels were estimated.*

Results*: Administration of Capparisdecidua methanolic extract (CDMtE) at dose levels of 100 and 200 mg/kg body weight revealed significant antihyperglycemic activity, reduction in elevated biochemical parameters such as TC (total Cholesterol), TG (triglyceride),LDL(Low density lipoprotein) levels.*

Conclusion*: The present findings showed that the fruits of Capparis deciduapossess potent antihyperglycemic effect on Streptozotocin-induced diabetic male albino rats that indicates the use of this plant in traditional Indian medicine for the treatment of diabetes.*

Keywords*: Antihyperglycemic, streptozotocin, sdiabetes.*