

**Evaluation of invitro antidiabetic activity of Madhumeha suranam as therapeutic agent for the management of diabetes in NIDDM regimen**

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**ABSTRACT**

Diabetes mellitus is a group of metabolic disorder characterized by hyperglycemia resulting from defects in insulin secretion, insulin action, or both. Chronic hyperglycemia is associated with long-term damage, dysfunction, and failure of different organs, especially eyes, kidneys, nerves, heart, and blood vessels. According to WHO, it is estimated that 3% of the world's population have diabetes and the prevalence is expected to double by the year 2025 to 6.3%. Therefore, therapeutic approach for treating diabetes is to control the postprandial hyperglycemia by retarding the absorption of glucose. Oral hypoglycemic agents have effect on glucose metabolism, restore ovarian function in polycystic ovary syndrome, reduce fatty liver and also lower microvascular and macrovascular complications associated with Type 2 Diabetes. Its use was also recently suggested as an adjuvant treatment for cancer or gestational diabetes, and for the prevention in pre-diabetic populations. Though different types of oral hypoglycemic agents are available along with insulin for the treatment of diabetes, there is an increased demand by patients to use natural products [Madhumeha suranam] along with oral hypoglycemic agents in order to activate the functions of different types of glands producing hormone. These herbal drugs can be used for the purpose of rejuvenation in the treatment of diabetes.