

Evaluation of Costus Igneus on Lipid Profile Status and Anti-Hyperglycemic Activity in Alloxan Induced Diabetic Rats

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ABSTRACT

The present study was made to investigate an anti-hyperglycemic effect of Costus igneus in alloxan induced diabetic mellitus. Diabetes was induced by alloxan (150mg/kg i.p.) into rats. Crude extract of leaves of Costus igneus was used in alloxan induced diabetic rats. Glibenclamide used as a standard antidiabetic drug in one group to compare the effect with test drug. Blood glucose level was estimated and pancreas was sent to study histopathology in rats. All groups show significant results after giving costus igneus. It has been concluded that the leaves of costus igneus having good hypoglycemic activity.

Keywords: Costus igneus, Alloxan, Glibenclamide, Diabetes mellitus, anti-hyperglycemic effect.

INTRODUCTION

Diabetes mellitus considered as a chronic metabolic disorder occurs due to insulin deficiency, characterized by hyperglycemia and alteration in metabolism of carbohydrates, protein and lipids with an increased risk of vascular complication. [1] Among several metabolic disorders, insulin deficiency has been known to stimulate lipolysis in the adipose tissue and give rise to hyperlipidemia and fatty liver. [2]

Today India is known to most important country for the diabetes in the world with over 20 million diabetics and this number is going to increase to 57 million by 2025. Diabetes mellitus is ranked seventh among the leading cause of death and is considered third when it's fatal complications are taken into account [3] like renal failure, coronary artery disorder, cerebro-vascular disease, neurological complications, blindness, limb amputation, long term damage, dysfunctions and failure

of various organs and eventually premature death are associated with chronic hyperglycemia. [4] In conventional therapy, type I is managed with exogenous insulin and type II with antidiabetes agents [5] but the blood glucose level is not effectively controlled, it has lot of side effects, developments of resistance and gives economic burden to the patients, so there has been increasing need for the newer antidiabetic with less cost, availability of product easily and reduced side effects. The increase in the incidence of diabetes in developing countries follows the trend of urbanization and life style changes, most importantly eastern style diet. [6] Based on the WHO recommendations hypoglycemic activity of plant origin used in traditional medicine are important (WHO 1980). Therefore, plant materials are continuously scrutinized and explored for their effect as hypoglycemic action.

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