

Beneficial Effects of Aegle Marmelos Leaves on Blood Glucose Levels and Body Weight Changes in Alloxan- Induced Diabetic Rats

*Leena Muralidharan

Abstract

Diabetes mellitus is one of the most recognized and clinically significant disorders of the endocrine system. It is characterized by the disturbances of carbohydrate, lipid and protein metabolism and an abnormal response to the glucose load. Feeding with aqueous extract of leaves of Aegle marmelos commonly called as bael in alloxan- induced diabetic rats significantly ($P < 0.001$) decreased blood glucose levels and significant ($P < 0.01$) increase in body weight changes were observed. In non- diabetic rats, the experimental bael leaves did not cause any hypoglycaemia effect and no significant body weight changes were found indicating that Aegle marmelos has anti- diabetic activity.

Keywords: Aegle marmelos, Diabetis mellitus, Alloxan, Blood Glucose level, Body weight.

*Department of Zoology, V. K. Krishna Menon College of Commerce and Science, Email leena.doctor@gmail.com