

Abstract Type : Poster

Abstract Submission No. : PO-1064

Evaluation of the nephroprotective, antihyperglycemic and antilipidemic potential of *Cucurbita ficifolia* in human type 2 diabetes

Dhananjay Yadav¹, Amita Jain², Dheeraj Khatarker², Arvind Tiwari², GBKS Prasad²

¹Department of Medical Biotechnology, Yeungnam University, India

²Department of School of studies in Biochemistry, Jiwaji University, Gwalior, India

Objectives: The present study has been undertaken to analyze the nephroprotective, antihyperglycemic, and antilipidemic potential of *Cucurbita ficifolia* juice in type 2 diabetic subjects.

Methods: A total 34 subjects were selected for the study out of which 14 subjects were with type 2 diabetes mellitus, 10 subjects were selected as a normal control group and 10 subjects were selected as a normal treated group. The patients had type 2 diabetes for more than 2 years, their mean age was less than 45 years, and subjects were then asked to start the *Cucurbita ficifolia* juice therapy starting at day 0 and continuing up to 40 day both for diabetic and normal subjects. Fasting blood glucose, glycosylated hemoglobin, lipid profile and renal biochemical parameters were measured two times at 0 days and continuous 40 days *Cucurbita ficifolia* therapy.

Results: This study compared the measurement of glucose levels, lipid biomarkers, and renal function parameters in all three groups [normal control, normal treated, and type 2 diabetic patients treated], at 0 days and after therapy of 40 days with *Cucurbita ficifolia* juice.

Conclusions: The results suggest that the *Cucurbita ficifolia* juice therapy in type 2 diabetes may have the potential to regulate hyperglycemia, hypercholesterolemia and preserving the kidney function parameters.