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Evaluation of Antioxidative, Antihyperglycemic and Antithyroidic properties of Cucurbita pepo Peel Extracts on renal disease in Mice.

LATA SUNHRE

Department of SCHOOL OF LIFE SCIENCES, DAVV INDORE, India

Objectives: The present investigation has been undertaken to explore the potential of *Cucurbita pepo* peel extract administration on thyroxine-induced hyperthyroidism, hyperglycemia and renal lipid peroxidation in male mice.

Methods: A pre-standardized dose of Levothyroxine (0.5 mg/kg) for 12 consecutive days was used to induce hyperthyroidism. The hyperthyroidic mice were then treated with 250 and 500 mg/kg of the test peel extract for 15days.

Results: Administration of L-T₄ elevated serum T₃, T₄ and glucose levels and the tissue LPO with a decrease in antioxidants. However, administration of test peel extract to hyperthyroid mice with 250 and 500 mg/kg decreased the thyroid hormones, glucose and renal lipid peroxidation .Also, the peel extract increased the antioxidant levels and improved the lipid profile.

Conclusions: Thus the present study clearly revealed that the peel extract has thyroid inhibitory, anti hyperglycemic , antioxidative and protected from the development of oxidative stress in the kidney and changes in its morphology..