

Women's College for Arts Science and Education Zoology Department

VANADIUM AS AN ANTIOXIDANT AND DIABETES MELLITUS IN ADULT MALE ALBINO RATS.

A thesis submitted
In partial fulfillment of the requirements for
the degree of (M. Sc.) in Zoology

By

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Dedication

TO my Husband,

TO my Father,

TO my Mother,

TO my brothers, And TO my sister,

Wishing them all the best.

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The present study is an attempt to investigate the complications of diabetes mellitus on some physiological parameters and histological studies of the pancreas tissue of male albino rats.

This work also evaluates the therapeutic role of sodium orthovanadium on non-diabetic and diabetic rats to minimize hazardous effects of diabetes mellitus.

Results were obtained from the treated experimental animal groups and compared with the corresponding normal control rat group.

The present findings were further discussed in view of relevant available literature in similar fields of studies.

The following parameters were estimated:-Carbohydrate metabolism, kidney function tests, lipid profile and lipid peroxidation.

Pancreas of albino rats was chosen for the histological studies to elucidate the impact of diabetes mellitus on pancreas tissue and the ameliorating effects of vanadium.

In the light of the obtained results, conclusions were deducted and suggestions for further studies were introduced.



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