



Ain Shams University
Girls' College for Arts, Science & Education
Zoology Department

Evaluation of the Therapeutic or Protective Role of an Antioxidant Against the Progression of Rheumatoid Arthritis in Male Albino Rats

Thesis

*Submitted for fulfillment of the degree of Doctor of Philosophy in Zoology.
Zoology department – Girls' College – Ain Shams University*

By

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ABSTRACT

The present study is an attempt to investigate the beneficial effect of oral administration of omega 3 fish oil to alleviate rheumatoid arthritis symptoms on induced arthritis on male albino rats.

Results were obtained from five experimental groups given omega 3 fish oil in normal or rheumatoid arthritis (RA) rats pre and post induction by pristane. These were further compared with a normal control group.

This work involved different aspects of study namely, the morphological, haematological, histological and histochemical parameters.

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

According to the present study it could be deduced that the protection with an antioxidant as omega 3 fish oil may provide simple antidotes to minimize the dreadful effect of rheumatoid arthritis on lymphoid tissues as its role in therapy was of only limited value. So omega 3 fish oil may serve as a clinical useful protective marine natural product in the future. In addition suggestions for further studies were recommended.

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