Cairo University
Cairo University
Faculty of Veterinary Medicine
Department of Medicine and Infectious Diseases

Clinical and Biochemical Studies on Histamine in Diseased Dogs.

Thesis presented by

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For
The Degree of M.V.Sc.
(Internal medicine)

Under Supervision of

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DEDICATION

Thanks to Allah at First and Last

Then

I dedicate this Work to My Father, My Mother, My Brothers, My Sisters, My Wife, My Lovely Daughter and Son.

And to

The Spirit of My Father in Law; Mr. Ahmed Okasha

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ABSTRACT

This study was conducted to measure histamine level in serum. Also to measure the blood cells, and some serum chemical components in diseased dogs to investigate the increase in histamine level in such diseased dogs.

Animals were divided as following: control group that includes 8 apparently clinically healthy dogs, and experimental groups that include 32 diseased dogs divided into four groups with 8 dogs in each group arranged as following: (1) 8 dogs suffer from skin diseases; (2) 8 dogs suffer from gastrointestinal diseases; (3) 8 dogs suffer from respiratory diseases; (4) 8 dogs suffer from neurological diseases.

Experimental animals were injected intramuscularly with anti-histamine drug: Pheniramine maleate with a dose of 1 ml/35 kg body weight twice per day and for 6 days with histamine measurement in serum before the first injection and after the end of the six days to measure the role played by decreasing histamine level in the serum in the improvement of experimental cases.

The study showed that there was a significant difference in histamine level in serum blood in different experimental groups before and after treatment, i.e. it improved significantly.

Key words: Dogs, Histamine, Antihistamines, Phenirmine maleate, Blood serum.

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