A STUDY ON CARDIAC DEFIBRILLATION IN CANINES



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Thesis submitted in part fulfilment of the requirements for the degree of

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in

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Tamil Nadu Veterinary and Animal Sciences University,
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CERTIFICATE

This is to certify that thesis entitled "A STUDY ON CARDIAC DEFIBRILLATION IN CANINES" submitted in part fulfilment of the requirements for the degree of MASTER OF VETERINARY SCIENCE in Clinical Medicine and Therapeutics to the Tamil Nadu Veterinary and Animal Sciences University, Madras is a bonafide research work carried out by Selvi N.PREMALATHA under my supervision and guidance and that no part of this thesis has been submitted for the award of any other degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or full in any scientific or popular journal or magazine.

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(P.S. KARVNANIDHI)

ABSTRACT

PREMALATHA. N. 1994. A study on Cardiac Defibrillation in Canines, M.V.Sc., (S.R.SRINIVASAN).

The study included 20 sick animals suffering from atrial/ventricular fibrillation and 18 experimental dogs divided into 3 groups viz., control, atrial fibrillation, ventricular fibrillation with 6 animals each. The following parameters were studied: Haemogram, (Hb, PCV, RBC, MCV, MCH, MCHC), Leukogram (WBC, N, L, M, E, B), blood Chemistry (Potassium, Sodium, Calcium, aspartate amino transferase, creatine phospho kinase, creatine kinase-MB, Creatinine) and Electrocardiogram. Results revealed significant changes in the electrolytes, disturbances in the enzyme status of both clinical and experimental cases. However, the experimental atrial fibrillation cases were converted to normal sinus rhythm with Direct current cardioversion. Recovery of clinical and experimental cases of ventricular fibrillation was futile.