BRONCHOSCOPIC EVALUATION OF RESPIRATORY TRACT IN CALVES



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

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to the
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CENTRE OF ADVANCED STUDIES IN VETERINARY MEDICINE
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CERTIFICATE

This is to certify that the thesis entitled "BRONCHOSCOPIC EVALUATION OF RESPIRATORY TRACT IN CALVES," 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 record of bonafide research work carried out by Thiru. ANUP KUMAR BARDHAN 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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ABSTRACT

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Bronchoscopic evaluation of respiratory tract was carried out in calves attending the out patient medical unit of the Large Animal Clinics, Madras Veterinary College during 1994-95.

Six apparently healthy calves and sixteen calves with sign of respiratory disorders were studied.

Bronchoalveolar lavage was collected in both control and clinical group by infusing normal saline solution.

Detailed bronchoalveolar study like, volume, cultural studies with antibiogram, leucocytic counts (both total and differential counts) was compared between control and clinical cases. Auscultatory evidences, nasal swab studies, haematological, faecal and radiographic examinations were carried out in calves

subjected to bronchoscopy. Auscultatory evidences and results of radiographic examinations correlated with bronchoalveolar lavage studies.

Staphylococci sp. organisms were found to be the most in bronchoalveolar lavage and as well as in nasal swab of clinical cases.

Bronchoalveolar lavage examination was useful as a diagnostic aid and bronchoscopy as a technique can well be used in clinical evaluation of the respiratory tract in calves for early diagnosis and treatment.