**ISOLATION OF *Streptococcus pneumoniae* FROM A PNEUMONIC BUFFALO CALF ; CASE STUDY**

****

**A clinical report submitted by**

**(Minhazul Abedin Nanno)**

Roll No: 2008/12

Reg. No: 355

Internship ID: A-06

Session : 2007-2008

Report presented in partial fulfillment for the Degree of

Doctor of Veterinary Medicine (DVM)

**Faculty of Veterinary Medicine**

**Chittagong Veterinary and Animal Sciences University,**

**Khulshi, Chittagong-4225**

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**Approved as to style and content by**

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**CONTENTS**

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Topics** | **Page No** |
| 1. | Acknowledgement | i |
| 2. | Abstract | ii |
| 3. | Introduction | 1. 4 |
| 4. | Review of Literature | 5-6 |
| 5. | Method and Materials | 7-12 |
| 6. | Results & Discussion | 13-16 |
| 7. | Conclusion | 17 |
| 8. | References | 18-20 |

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**The Author**

**i**

Isolation of *Streptococcus pneumoniae* from a pneumonic buffalo calf : A case study

**Abstract**

*Streptococcus pneumoniae* infection was found in a 9 month aged buffalo calf having high fever (107° F), respiratory distress, mucopurulent nasal discharge with lateral recumbence lasting for 4 days. Ante mortem (Blood, edematous fluid) and Postmortem (eye-ball) sample was collected to conduct laboratory test for confirmation of causal agent. Actually the samples were collected for the purpose of isolation of *Pasteurella multocida*. The laboratory investigation revealed that the samples were bacteriologically positive & isolated organism were *Streptococcus pneumoniae.* It is proved that the buffalo calf infected by *Streptococcus pneumoniae* were subjected to death after 4 days of infection as the calf were treated by streptomycin, because the doctors treated it as gram-negative bacteria infection. This should be treated by broad-spectrum cephalosporins. It is emphasised that *Streptococcus pneumonia* may be considered to be and important respiratory pathogen which is responsible for death of buffalo calves and should be included in differential diagnosis of pulmonary diseases.

**Key Words:** Streptococcus pneumoniae, buffalo calf, mucopurulent nasal discharge, Cephalosporin, pulmonary diseases.

**ii**