**PREVALENCE OF DIFFERENT DISEASES OF DOG AT CENTRAL VETERINARY HOSPITAL, (CVH) DHAKA, BANGLADESH**

****

**Report presented in partial fulfillment of the requirement for the degree of Doctor of Veterinary Medicine.**

|  |
| --- |
| A Report Submitted by  Roll no: 08/07  Intern ID No: A-04  Reg. No: 350  Session:2007-2008 |

**Faculty of Veterinary Medicine**

**Chittagong Veterinary and Animal Sciences University**

**Zakir Hossain Road, Khulshi, Chittagong-4225.**

**March, 2014**

**PREVALENCE OF DIFFERENT DISEASES OF DOG AT CENTRAL VETERINARY HOSPITAL, (CVH) DHAKA, BANGLADESH**

****

**e**

**Clinical Report Submitted as per approved style and content**

**--------------------------------------------- ---------------------------------------------**

|  |  |
| --- | --- |
| Signature of the student  Md. Najmul Kabir  Roll No: 08/07  Reg. No: 350  Intern ID: A-04  Session: 2007-2008 | Signature of the supervisor  **(Dr. A. K. M. Saifuddin)**  **Professor and Head**  Department of Biochemistry, Physiology & Pharmacology  Faculty of Veterinary Medicine  Chittagong Veterinary and Animal Sciences University |

**Faculty of Veterinary Medicine**

**Chittagong Veterinary and Animal Sciences University**

**Zakir Hossain Road, Khulshi, Chittagong-4225.**

**March, 2014**

***ACKNOWLEDGEMENTS***

I consider it my utmost obligation to express my gratitude to **Almighty Allah,** the omnipresent, kind and merciful who gave me the health, thoughtsand the opportunity to complete this task. I offer my humble thanks from the coreof my heart to the Holy Prophet, **Hazrat Muhammad (Peace Be Upon Him)** who is forever a torch bearer of guidance and knowledge for humanity as awhole.

In the completion of this work, I was fortunate in having the generous advice and encouragement of my learned supervisor, **Professor Dr. A. K. M. Saifuddin**, Head of Dept. of Physiology, Biochemistry and Pharmacology, Chittagong Veterinary and Animal Sciences University in selecting the research topic, inspiring scholastic guidance, simultaneous inspiration, constructive criticism, enormous suggestions, sympathetic and unstinted help at every step right from research synopsis to final manuscript writing.

I am highly obliged and express profound gratitude to **DR. Mohammed Ashif Imtiaz Shawn** Masters fellow (Pharmacology), Dept. of Physiology, Biochemistry and Pharmacology; **Md. Al Amran** Masters fellow (Poultry Science), Dept. of Dairy and Poultry Science, Chittagong Veterinary and Animal Sciences University for assisting me in the execution of research work.

Special thanks to **Dr.** **Mosaddekur Rahman,** Veterinary Officer, Central Veterinary Hospital, Dhaka for their kind co-operation.

Last but not the least, the author is very grateful to the respondents of the study areas, who were co-operatives and helpful during collection of data to the author.

Finally, the author expresses his deepest sense of gratitude and sincere thanks to all of his well wishers, friends, kith and kins for their blessing throughout the academic life.

**The Author**

**CONTENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Chapter No.** | **Name of chapter** | **Title** | **Page No.** |
| **Chapter-I** | **Introduction** |  | **01-02** |
| **Chapter-II** | **Review of Literature** |  | **3-9** |
| **Chapter-III** | **Materials and Methods** | **3.1. Area and study population** | **10** |
| **3.2. Study design** | **11** |
| **3.3. Questionnaire design and data collection** | **12** |
| **3.4. Case Identification** | **12-13** |
| **3.5. Data Analysis** | **13** |
| **Images** | **14** |
| **Chapter-IV** | **Results** |  | **15-21** |
| **Chapter-V** | **Discussion** |  | **22-25** |
| **Chapter-VI** | **Conclusion** |  | **26** |
| **Chapter - VII** | **References** |  | **27-31** |

**TABLE, FIGURE AND GRAPH CONTENTS**

**TABLES**

|  |  |  |
| --- | --- | --- |
| **Table No.** | **Name of Tables** | **Page No.** |
| **1.** | **Age wise distribution of clinical diseases and disorders in dog.** | **15** |
| **2.** | **Clinical diseases observed in the affected dogs** | **16** |
| **3.** | **Diseases according to sex of dogs** | **17-18** |
| **4.** | **Diseases according to breed of dogs** | **18-19** |
| **5.** | **Overall frequency of distribution of clinical diseases and disorders of study population on the basis of category of diseases** | **20-21** |

**Figure and Graph**

|  |  |  |
| --- | --- | --- |
| **Figure No.** | **Name of the figures** | **Page No.** |
| **1.** | **Map of working area (CVH, Dhaka, Bangladesh)** | **10** |
| **2.** | **Schematic representation of the study design** | **11** |
| **3.** | **Myiasis in anal region** | **14** |
| **4.** | **Pyorrhea** | **14** |
| **5.** | **Babesiosis** | **14** |
| **6.** | **Diarrhea** | **14** |
| **7.** | **Tick infestation** | **14** |
| **8.** | **Mange** | **14** |
| **9.** | **Age wise distribution of clinical diseases and disorders in dog** | **15** |
| **10.** | **Clinical diseases observed in the affected dogs** | **16** |
| **11.** | **Diseases according to breed of dogs** | **19** |

**Kabir M. N. and Saifuddin A. K. M. (2013). Prevalence of different diseases of dog at Central Veterinary Hospital, Dhaka, Bangladesh.**

**ABSTRACT**

A period of 2 months cross sectional prospective study was conducted at Central Veterinary Hospital, Dhaka to explore the prevalence of diseases in dog as well as to identify clinical features observed on that disease from May 2013 to July 2013. A total of 56 dogs were thoroughly examined with different clinical examination and data were recorded by using a pre-designed questionnaire. It was revealed that ectoparasitic infestation (32.14%) and bacterial diseases (28.6%) were more prominent than others such as metabolic and nutritional disorders (10.71%), viral diseases (7.14%), endoparasitic infection (7.14%), surgical cases (7.14%), immunological disorders (3.57%), fungal diseases (1.78%) and protozoal infection (1.78%). In case of ectoparasitic infestation, higher prevalence was observed in tick (16.07%) and in bacterial cases bronchitis (5.35%), diarrhoea (3.57%), urinary infection (3.57%) were more common. On endoparasitic cases, tapeworm and nematode infection and in case of viral, rabies and canine distemper were frequently occurred. Surgically, fracture and abscess prevalence was 3.57% which is higher than other surgical cases. Nutritionally, anemia, fatty syndrome, unthriftiness were as usual disease condition for dog. The overall prevalence of diseases on male and female were more or less similar (Male 51.7% and Female 48.3%). Old aged dogs and German Shepherd breed were mostly affected with diseases. These findings address the vaccination practice in dog, variation of dog management within different topography in Dhaka and socio economic condition of dog owners.

**Keywords:** Prevalence, Dog, Central Veterinary Hospital, Ectoparasitic infestation, Bacterial diseases.