Determination of infectious and non infectious diseases of goats in some selected areas of rangpur district

**CONTENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **SL. NO.** | **CHAPTER** | **LIST OF CONTENTS** | **PAGE NO.** |
|  |  | List of Tables and Graphs |  |
|  |  | Abbreviations |  |
|  |  | Acknowledgement |  |
|  |  | Abstract | I |
|  | Chapter-I | Introduction | 1-2 |
|  | Chapter-II | Review of Literature | 3-9 |
|  | Chapter-III | Materials and Methods | 10-11 |
|  | Chapter-IV | Results | 12-19 |
|  | Chapter-V | Discussion | 20-23 |
|  | Chapter-VI | Conclusion and Recommendations | 24 |
|  |  | Annexture | 25-27 |
|  | Chapter-VII | References | 28-31 |

**LIST OF TABLES**

|  |  |  |
| --- | --- | --- |
| **SL. NO.** | **TABLE TITLE** | **PAGE NO.** |
| Table 1 | Livestock survey in Kaunia upazilla of Rangpur district | 12 |
| Table 2 | Association with different variables with breed and sex of goats in study area(Kaunia Upazilla) | 14 |
| Table 3 | Mortality of goat in the Kaunia upazilla | 15 |
| Table 4 | Percentage of Livestock attended in the Hospital for treatment | 17 |
| Table 5 | Infectious and non infectious diseases of male goat and female goat attended in the district veterinary hospital for treatment | 19 |

|  |  |  |
| --- | --- | --- |
| **SL. NO.** | **GRAPH TITLE** | **PAGE NO.** |
| Graph 1 | Livestock survey in Kaunia upazilla of Rangpur district | 13 |
| Graph 2 | Mortality of kids in the Kaunia upazilla | 15 |
| Graph 3 | Mortality of growing goat in the Kaunia upazilla | 16 |
| Graph 4 | Mortality of adult goat in the Kaunia upazilla | 16 |
| Graph 5 | Percentage of Livestock attended in the Hospital for treatment | 18 |

**LIST OF GRAPHS**

**ABBREVIATIONS**

|  |  |
| --- | --- |
| **Abbreviations** | **Elaboration** |
| PPR | Peste des Petits Ruminants |
| GDP | Gross Domestic Product |
| NGO | Non Government Organization |
| GI | Gastrointestinal |
| DLS | Department of Livestock Services |
| GT | Grand Total |
| i.e. | that is |
| km | kilometer |
| ºC | Degree Celsius |
| ºF | Degree Fahrenheit |
| N | North |
| E | East |
| n | Number of cases |
| BB | Black Bangle goat |
| JM | Jumnapari goat |
| FMD | Foot and Mouth Disease |
| IBD | Infectious Bursal Disease |
| ND | Newcastle Disease |

**ACKNOWLEDGEMENT**

All the praises go to the Almighty God, the creator and supreme ruler of the Universe, who enabled the author to complete the report successfully.

The author expresses her sincere gratitude, humble respect and immense indebtedness to my reverend teacher and internship supervisor **Professor** **Dr. Md. Abdul Matin Prodhan**, Head, Department of Medicine and Surgery, Chittagong Veterinary and Animal Sciences University, Chittagong; for his guidance, kind co-operation, sincere help, valuable suggestions, inspiration, constructive criticism and who was involved with this study from its inception.

The author took the opportunities to express her deepest sense of respect and heartfelt appreciations to **Dr. Bibek Chandra Sutradhar,**Associate Professor & Director (External affairs),Department of Medicine and Surgery; for his valuable advice and co-operation. I would like to express my deep sense of gratitude and thanks to **Vice Chancellor, Professor Dr. A.** **S. Mahfuzul Bari** and **Professor Dr. Md. Kabirul Islam Khan,** Dean, Faculty of Veterinary Medicine, Chittagong Veterinary and Animal Sciences University.

The author gives especial thanks to **Dr.Sharmin Chowdhury**, Associate Professor, Department of Pathology and Parasitology,Chittagong Veterinary and Animal Sciences University, who helped the author for statistical analysis of data.

The author is grateful to **Dr. Md. Ashraful Alom**,Veterinary Surgoen,District veterinary hospital, Rangpur and hospital attendants for their co-operation. All farmers who helped the author cordially for collecting data related to the report.

Last but not least, the author extended his appreciation to all of his teachers and his parents for their unforgettable support, suggestions, criticisms, cordial help and inspiration regarding the study from its inception to the last.

**The author**

**June,2013**

Abstract

A study was undertaken to determine the infectious and non infectious diseases of goat. The data was collected by questionnaire survey in Kaunia upazilla and Clinical records of livestock that brought to the District Veterinary hospital, Rangpur for treatment. In Kaunia upazilla, a total of 808 livestock species were recorded through questionnaire survey from eight villages. Of them only 38% (n=302) were goat species and rest are other livestock species. Only 7% of livestock were vaccinated and dewormed in Kaunia upazilla. There are significant difference in association of vaccination and deworming with different breeds (p-value < 0.05).But non significant difference in association of vaccination and deworming with sex (p-value > 0.05).The major causes of goat mortality in Kaunia caused by PPR, Pneumonia and Diarrhoea. PPR was 18.33% in kid , 35% in growing goat,42.43% in adult female and 46.22% in adult male respectively. Pneumonia causes death in kid about 40.83%, growing goat 30%,adult female15.15% and adult male 20.75% respectively. Due to diarrhea 27.5% kid, 20% growing goat, 20.20% adult female and 14.15% adult male were died respectively.

A total of 1320 livestock were presented in district veterinary hospital for treatment;

Of them, goat was 56%(n=732) in 1st and cattle 35% (n=454) was in 2nd position. A total of 732 goats; of them male 314 and female 418 were presented in district veterinary hospital for treatment. The cases of goat were infectious disease 84.41%(n=618) and non-infectious disease 15.59%(n=114) respectively. The result showed that PPR was in highest position among overall goat diseases.The Sex wise prevalence among infectious diseases, PPR ranked highest in male 16.12%(n=118) and in female Diarrhoea 16.25%(n=119).Among non-infectious diseases, overall in first position was Myiasis, in male 3.27%(n=24) & female 3.41%(n=25) respectively. However, regular deworming, vaccination and improvement of husbandry practices are suggested to improve the goat rearing in Bangladesh.

**Key words:** Questionnaire survey, Clinical records, Goat, Disease prevalence, Vaccination and Deworming, PPR, Pneumonia, Diarrhoea, Infectious disease, Non-infectious disease, Husbandry practice.

**I**