**CONTENTS**

|  |  |  |
| --- | --- | --- |
| **CHAPTERS** | **LIST OF CONTENTS** | **PAGE** |
|  | ACKNOWLEDGEMENT | III |
|  | CONTENTS | IV-VIII |
|  | LIST OF TABLES | VI |
|  | LIST OF FIGURES | VII |
|  | LIST OF ABBREVIATIONS | VII-VIII |
|  | ABSTRACT | IX |
| CHAPTER-1 | INTRODUCTION | 1-3 |
| CHAPTER-2 | REVIEW OF LITERATURE | 4-19 |
| **2.1** | **History of PPR** | **4** |
| **2.2** | **Etiology of diseases** | **4** |
| **2.3** | **Epidemiology & geographic distribution** | **4-7** |
| **2.4** | **Host range of PPRV** | **7-8** |
| **2.5** | **Transmission of PPRV** | **8** |
| **2.6** | **Clinical features of PPR** | **9** |
| **2.7** | **Pathogenesis of PPR** | **10** |
| **2.8** | **Prevalence of PPR** | **10-11** |
| **2.9** | **Diagnosis of PPR** | **11-18** |
|  | 2.9.1 Virus isolation | 12-13 |
|  | 2.9.2 Antigen detection method | 13 |
|  | 2.9.2.1 Agar gel immunodiffusion test | 13 |
|  | 2.9.2.2 Hyperimmune serum | 14 |
|  | 2.9.2.3 Counter immunoelectrophoresis | 14 |
|  | 2.9.2.4 ELISA for antigen detection | 14 |
|  | 2.9.2.5 c DNA probes | 15 |
|  | 2.9.2.6 Reverse transcription polymerase chain reaction | 15-16 |
|  | 2.9.2.7 Virology | 16 |
|  | 2.9.2.8 Virus neutralization | 17 |

**CONTENTS (CONTD.)**

|  |  |  |
| --- | --- | --- |
| **CHAPTERS** | **LIST OF CONTENTS** | **PAGE** |
|  | 2.9.2.9 c ELISA | 17 |
|  | 2.9.2.10 Postmortem diagnosis | 18 |
|  | 2.9.2.11 Differential diagnosis | 18 |
| **2.10** | **Treatment and prevention** | **19** |
| CHAPTER-3 | MATERIALS AND METHODS | 20-23 |
| **3.1** | **Location and duration of the study** | **20** |
| **3.2** | **Sample size** | **20** |
| **3.3** | **Recording of signs and symptoms** | **20** |
| **3.4** | **Criteria for diagnosis of PPR** | **21** |
| **3.5** | **Post mortem examination** | **21** |
| **3.6** | **Presumptive diagnosis** | **22** |
| **3.7** | **Follow up treatment** | **22** |
| **3.8** | **Medication history** | **22** |
| **3.9** | **Vaccination history** | **23** |
| **3.10** | **Statistical analysis** | **23** |
| CHAPTER- 4 | RESULTS AND DISCUSSION | 24-30 |
| **4.1** | **Prevalence of PPR in goat** | **24-28** |
|  | 4.1.1 Overall prevalence of PPR in goat | 24 |
|  | 4.1.2 Prevalence of PPR according to sex in goat | 25 |
|  | 4.1.3 Prevalence of PPR based on immunue status | 26 |
|  | 4.1.4 Prevalence of PPR based on breeds of goat | 26-27 |

**CONTENTS (CONTD.)**

|  |  |  |
| --- | --- | --- |
| **CHAPTERS** | **LIST OF CONTENTS** | **PAGE** |
|  | 4.1.5 Prevalence of PPR in different  age groups of goat | 28 |
| **4.2** | **Analysis of clinical sign of PPR** | **29** |
| **4.3** | **Response to treatment** | **30-33** |
| CHAPTER-6 | CONCLUSION | 34 |
|  | REFERENCES | 35-40 |
|  | ANNEX | 41-45 |

**LIST OF TABLES**

|  |  |  |
| --- | --- | --- |
| **NO.** | **TITLE** | **PAGE** |
| Table 1 | The Overall prevalence of PPR in goat | 24 |
| Table 2 | The Prevalence of PPR according to sex in goat | 25 |
| Table 3 | Prevalence of PPR in different species (month basis) | 25 |
| Table 4 | Prevalence of PPR in according to vaccination status | 26 |
| Table 5 | Prevalence of PPR based on breeds of goat | 27 |
| Table 6 | Prevalence of PPR in different age group of goat | 28 |
| Table 7 | Analysis of clinical signs involved in PPR | 29 |
| Table 8 | Percentage of different drug used in SAQTVH | 31 |
| Table 9 | Response to treatment of different group of animal in different treatment | 32 |

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| **NO.** | **TITLE** | **PAGE** |
| Fig. 1 | PPR virus structure | 4 |
| Fig. 2 | Geographic distribution of PPRV lineages | 6 |
| Fig. 3 | Phylogenetic relationship of PPR virus isolates based on (F) protein gene | 7 |
| Fig. 4 | Recording temperature | 23 |
| Fig. 5 | Severe diarrhea in PPR | 23 |
| Fig. 6 | Erosion in the lip, buccal mucosa | 23 |
| Fig. 7 | Skin fold test for measuring percentage of dehydration | 23 |
| Fig. 8 | Overall prevalence of PPR in goat (graphical representation) | 24 |
| Fig. 9 | Prevalence of PPR in different breeds of goat(graphical representation) | 27 |
| Fig. 10 | Prevalence of PPR in different age group in goat | 25 |
| Fig. 11 | Percentage of different drug used in SAQTVH | 25 |

LIST OF ABBREVIATIONS

|  |  |
| --- | --- |
| **Abbreviation** | **Elaboration** |
| AGID | Agar gel immunodiffusion test |
| AGPT | Agar gel precipitation test |
| BBG | Black Bangal goat |
| CVASU | Chittagong veterinary and animal sciences university |
| CCPP | Contagious caprine pleuropneumonia |
| CIEP | Counter immunoelectrophoresis |
| c DNA | Complementary deoxyribonucleic acid |
| DNA | Deoxyribonucleic acid |
| ELISA | Enzyme linked immunosorbent assay |
| c ELISA | Competitive enzyme linked immunosorbent assay |
| Fig | Figure |
| FMD | Foot and mouth disesses |
| IM | Intramuscular |
| Inj. | Injection |
| MAbs | Monoclonal antibody |
| PCR | Polymerase chain reaction |
| RT-PCR | Reverse transcription polymerase chain reaction |
| SAQTVH | Shahidul alam quadery teaching veterinary hospital |