**Chapter I**

**INTRODUCTION**

Modern society is becoming more urbanized now a days. The tradition of keeping animal as pet is increasing day by day or even exotic creatures. Pets have become an integral part of the family and often considered to be extended family. The pet animals are kept by a significant percentage of people all over the world irrespective of their social status including Bangladesh. Having pet animals brings lot of benefit, such as psychological support, companionship and even good health practices. Even in many countries pets have become substitutes for childbearing and child care. In many households, pet animals contribute to physical, social and mental well- beings of children and their owners (Dohoo *et al*., 1998; Robertson *et al*., 2000). Dog and cat have significant benefits to our society like companionship, play with children, guard the house, and alerts the owner from any adverse condition, gift to special ones and economic purposes (Parvez *et al*., 2014). Dogs are not only serving as a companion but also act as workers (Singh *et al.*, 2014). They have proven to be invaluable member of family with different roles including guide dogs for blind person, provide assistance to the disable, sniffers dogs used by police and customs and farm dogs used as shepherd. Rabbits have been kept as pets in western nations since 19 th century. The rabbit makes mutual relationship with their owners by better understandings. A lot of diseases and clinical conditions are frequently observed in pet dog. Among the viral diseases rabies, infectious canine hepatitis, canine distemper, canine parvo viral infections are very common in Indian sub-continent like Bangladesh (Biswas *et al*., 1996). Rabies is the most important zoonotic disease worldwide including Bangladesh (Biswas *et al*., 1996) and approximately 90% of rabies in human results from dog bite. Almost all human deaths caused by rabies originated from Asia and Africa and there are an estimated 55,000 human deaths annually from rabies, with about 31000 in Asia and 24,000 in Africa (Samad, 2011). On the other hand, most common bacterial diseases include leptospirosis, brucellosis, kennel cough, clostridial infection etc. Rearing pet animals are usually connected with certain responsibilities like housing, control of diseases and responsibility of pet ownership with public health importance. Pet animals are the important reservoir of zoonotic diseases as they share the same environment with humans. Household pets also have been found to play a direct role in transmitting zoonosis (Kornblatt and Schantz 1980). Animal bites and allergic reaction originated from pets are the commonest health hazards in human. However, a diverse range of infections, include parasitic, bacterial, fungal and viral diseases are transmitted to humans from domestic pets (Plant *et a*l., 1996 and Geffray, 1999).

The prevalence of infectious diseases and conditions of domestic animals and birds has already been performed in various regions of Bangladesh (Tarafder and Samad, 2010; Mahmud *et al*., 2014). But very few studies have been reported on the prevalence of clinical diseases and conditions in pet animals ((Parvez *et al*., 2014). Hossain and Kayesh (2014) reported the overall prevalence of clinical diseases at Dhaka city area in dog, cat and rabbit as2.39%, 3.72% and 6.66%, respectively. It has been reported that ectoparasitic infestation (tick infestation 11.88%, flea infestation 9.84% and mange 3.76%) cases were highest among the all reported clinical diseases in pet dog (Tarafder and Samad, 2010). Mahmud *et al*. (2014) reported overall prevalence of protozoan diseases was 22.42% at Sirajganj, Bangladesh. So, this study was conducted with the following objectives: to determine the overall prevalence of clinical diseases and conditions of pet animals at Central Veterinary Hospital (CVH) Fullbaria, Dhaka, Bangladesh; to know the proportionate prevalence of diseases and conditions in relation to age, sex, breed, affected systems of the body and etiology of pet animal’s diseases (dog, cat and rabbit).

**Chapter – II**

**METHODS AND MATERIALS**

The study was conducted during the period of January 2017 to September2017 at Central Veterinary Hospital (CVH), Fullbaria, Dhaka, Bangladesh. A total of 403 sick pet animals (dog, cat and rabbit) were admitted in hospital. The clinical examination of diseased animal was performed on basis of owner’s complaints, anamnesis and clinical examinations of patients.

**1.** **Owner’s complaints:** Complaints of owner of patients were considered during animal examination.

**2. Anamnesis:** The history of clinical diseases and patients were collected from owners to identify the predisposing factors of diseases.

**3. Clinical examination of patient**

***a) Distant Inspection:***Firstly, the general attitude of the patient (alertness/ dullness/ depression) was carefully inspected. In addition, posture and gait (normal or defective) were examined according to the conditions of pet animals.

***b) Close Inspection:*** Following distant inspection, the patient was closely examined by visual examination.

Parting of hair/fleece, light palpation and close direct inspection were performed to detect hair, coat and skin abnormalities. Skin lesions, nature of lesions (foul odorous discharge, crusts, scale and dandruff), location and distribution of those lesions were also studied. In addition, external parasites (tick, lice, flea, flies and larvae of flies) were individually identified during examination.

**4. Physical examination**

Wounds were identified by inspection and further examined for more precise diagnosis to categorize the nature of the wound whether it might be septic, lacerated, incised, punctured, perforating, abrasions, avulsion or hematoma. Needle puncture was also performed if required. Temperature, pulse, respiratory rates were taken through clinical method. Mouth gag and general anesthesia were also used for restraining of the pet animals. In case of fracture, extension and flexion method were performed for pet animals.

**5. Laboratory diagnosis**

Fecal samples and skin scrapings were examined with compound microscope. Blood and urine samples were collected for routine and specific diagnosis. X-Ray or imaging was performed to diagnose the musculo-skeletal and chest diseases. Dead animals were subjected to necropsy examination and gross lesions were recorded. The samples were collected to diagnose the etiology of diseases.

**6. Statistical analysis**

The data collected from each patient were entered into MS excel (Microsoft office excel-2013, USA). Data management and descriptive analysis was done in Excel Sheet.

**Chapter-III**

**RESULTS AND DISCUSSIONS**

**1. Proportionate prevalence of clinical diseases and conditions of pet animals in relation to affected system and etiology of diseases**

A total of 403 cases of different clinical diseases and conditions were recorded during the study from January 2017 to September 2017. Among them the overall proportional prevalence of clinical diseases in dogs, cats and rabbits were 45.40%, 33.99% and 20.24% (Table 1). About 143% and 93% of the total cases were medicinal in dogs and cats respectively (Tables 2 and 4). Among medicinal cases, the most frequently encountered disease was parasitic diseases both in dog (21.86%) and cat (13.87%). Parvez *et al*. (2014) reported more parasitic cases in dogs (51.54%) and cats (54%). Sarker *et al*. (2015) reported that overall proportional prevalence of clinical diseases in dog and cat as 75% and 25%, respectively and prevalence of parasitic diseases were 14.77% in dogs and 13.33% in cats. Sarker *et al*. (2015) observed very low prevalence of parasitic disease because pet’s owners were more concerned with deworming of pet dogs in studied area. The occurrence of clinical diseases of digestive system was % in dogs and 12.40% in cats. We observed relatively higher prevalence of digestive disorder in dogs (20.22%) which was in contrast with the results of Chaudhari and Atsanda , (2002) who reported only 6.73%. Parvez *et al*. (2014) recorded 12.64% digestive disorder in dogs. Prevalence of loss appetite 7.65% in dogs was in contrast with the result recorded by Chaudhari and Atsanda (2002) where it was only 2.69%. However, Sarker *et al.* (2015) reported similar level of loss of appetite (5.11%) in dogs. The prevalence of skin diseases were .70% in dog and 0.73% in cats. Similar finding was also reported by Tarafder and Samad, (2010) but other authors reported lower prevalence of skin disease (Freeman et al., 2006; Chaudhari and Atsanda 2002) in dogs. The prevalence of disease in eyes and ear in dog and cat were 4.37%, 2.91%, respectively and the result were agreed with Freeman *et al*., (2006) and Tarafder and Samad (2010). The prevalence of bacterial diseases was 4.37% in dogs and 2.91% in cats. The prevalence of viral diseases was 4.37% in dogs and 6.56% in cats. Our results were were not in agreement with the result of Tarafder and Samad (2010) who reported lower prevalence (0.08% in dog and 1.96% in cat). This variation of the result might be due to different geographical locations and periods of study. The prevalence of metabolic diseases of this study were 1.09 % and 1.46% in dog and cat, respectively which disagreed with the results of Tarafder and Samad (2010) who reported higher prevalence of metabolic and nutritional diseases (3.13%) in pet dog. This variation might be due to small size of the sample studied. The prevalence of diseases of the respiratory system was 5.46% in dog and 4.37% in cat. Out results were in contrast with the findings of other authors who observed relatively higher prevalence in both dogs and cats (Tarafder and Samad, 2010; Chaudhari and Atsanda, 2002; Parvez *et al*., 2014) Respiratory tract infections can be caused by viruses, bacteria and less often by fungi and sometimes from faulty medication. The reported prevalence of fungal and protozoal diseases in dog was less than the result of Tarafder and Samad (2010) who enlisted protozoal diseases as 2.02% and fungal diseases as 3.30%. In rabbits, the prevalence of traumatic injuries and mange was the highest as 36.14% followed by mange 16.86%.

**Table 1. Overall prevalence of clinical diseases and conditions of pet animals (Dog, cat and rabbit)**

|  |  |  |
| --- | --- | --- |
| Pet animal | Clinical diseases and conditions | Prevalence (%) |
| Dog | 183 | 45.40 |
| Cat | 137 | 33.99 |
| Rabbit | 83 | 20.24 |
| Total cases | 403 | 100.00 |

**2. Sex wise prevalence of clinical diseases and conditions in pet animals**

The proportionate prevalence of clinical diseases and conditions in dog and cat in relation with their sex showed that male pets were most frequently admitted at CVH. About 58.47 % of the clinical cases were recorded for male dog (Table 2). In case of cats, 57.66% of the clinical cases were recorded in male cat (Table 4). Similarly, 77.71% clinical cases were recorded in male rabbits (Table 5). Other authors also reported similar findings to our results (Sarker *et al.*, 2015; Parvez *et al*., 2014). Usually the pet owner had the tendency to rear the male pet animals rather than female one to avoid the nuisance of reproductive behavior and difficulties arises from female dog, cat and rabbit.

**Table 2. Sex and age-wise distribution of clinical diseases and conditions of pet dog at CVH**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Clinical Diseases and conditions** | **Prevalence**  **(%)** | **Sex** | | **Age (Months)** | | |
| **Male(%)** | **Female (%)** | **<6(%)** | **>7 to 36(%)** | **>36(%)** |
| 1. Loss of appetite | 14(7.65) | 10(5.46) | 4(2.19) | 8(4.37 ) | 5(2.73) | 1(0.55 ) |
| 2. Diarrhoea | 5(2.73) | 3(1.64) | 2(1.09) | 2(1.09 ) | 2( 1.09) | 1(0.55 ) |
| 3.Gastritis | 12(6.56) | 8(4.37 | 4(2.19) | 4(2.19 ) | 6( 3.28) | 2(1.09 ) |
| 4. Dental disorder | 2(1.09) | 1(0.55) | 1(0.55) | 0(0.00 ) | 1(0.55 ) | 1(0.55 ) |
| 5. Other digestive disorders | 4(2.19) | 3(1.64) | 1(0.55) | 2( )1.09 | 1(0.55 ) | 1( 0.55) |
| **I. Digestive Disorders** | **37**(**20.22**) | **25**(**13.66**) | **12**(**6.56)** | **16**(**8.74** ) | **15**(**8.20** ) | **6**(**3.28** ) |
| 1. Pneumonia | 4(2.19) | 2(1.09) | 2(1.09) | 21.09 ( ) | 1( .55) | 1(0.55 ) |
| 2. Bronchitis | 1(0.55) | 0(1.09) | 1(0.55) | 0(0.00 ) | 1(0.55 ) | 0(0.00 ) |
| 3. Kennel cough | 5(2.73) | 3(1.64) | 2(1.09) | 3( 1.64) | 0(0.00 ) | 2(1.09 ) |
| **II. Respiratory disorders** | **10**(**5.46**) | **5**(**2.73)** | **5**(**2.73**) | **5**( **2.73**) | **2**( **1.09)** | **3**(**1.64** ) |
| III. Urinary disorders | 1(0.55) | 1(.55) | 0(0.00) | 0(.00 ) | 1( .55) | 0( 0.00) |
| IV. Lameness | 2(1.09) | 1(.55) | 1(0.55) | 1( 0.55) | 1( 0.55) | 0(0.00 ) |
| V. Metabolic disorders | 2(1.09) | 2(1.09) | 0(0.00) | 0(0.00 ) | 1(0.55 ) | 1(0.55 ) |
| 1. Dermatitis | 10(5.46) | 6(3.28) | 4(2.19%) | 2(1.09 ) | 4(2.19 ) | 4(2.19 ) |
| 2. Alopecia | 3(1.64) | 2(1.09) | 1(0.55 ) | 0(0.00 ) | 2(1.09 ) | 1(0.55 ) |
| **VI. Skin disorders** | **13**(**7.10**) | **8**(**4.37**) | **5**(**2.73**) | **2**(**1.09** ) | **6**(**3.28** ) | **5**(**2.73** ) |
| 1. Conjuncitivitis | 4(2.19) | 2(1.09) | 2(1.09 ) | 1(0.55 ) | 2( 1.09) | 1( .55) |
| 2. Cataract | 2(1.09) | 2(1.09) | 0(0.00) | 0(.00 ) | 0(.00 ) | 2(1.09 ) |
| 3. Otitis externa | 2(1.09) | 1(0.55) | 1(0.55 ) | 0(0.00 ) | 2(1.09 ) | 0(0.00 ) |
| **VII. Eye and ear disorders** | **8**(**4.37**) | **5**(**2.73**) | **3**(**1.64**) | **1**(**0.55**) | **4**(**2.19** ) | **3**(**1.64** ) |
| VIII. Nervous disorders | 5(2.73) | 3(1.64) | 2(1.09) | 1(.55 ) | 3(1.64 ) | 1(0.55 ) |
| IX. Others | 5(2.73) | 3(1.64) | 2(1.09) | 2(1.09 ) | 0( .00) | 3(1.64 ) |
| 1. Canine distemper | 3(1.64 ) | 2(1.09) | 1(0.55) | 0(0.00 ) | 2(1.09 ) | 1(0.55 ) |
| 2. Canine parvovirus | 4(2.19) | 2(1.09) | 2(1.09) | 4(2.19 ) | 0(0.00 ) | 0( .00) |
| 3. Pox virus | 1(.55) | 1(0.55) | 0(0.00) | 0( 0.00) | 1(0.55 ) | 0(.00 ) |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **X. Viral diseases** | **8**(**4.37**) | **5**(**2.73**) | **3(1.64** ) | **4(2.19)** | **3**( **1.64**) | **1**(**0.55** ) |
| X1. Bacterial diseases | 8(4.37) | 5(2.73) | 3(1.64) | 4(2.19) | 3( 1.64) | 1(0.55 ) |
| 1. Ancylostomiasis | 1(0.55) | 1(0.55) | 0(0.00) | 0(0.00) | 0( 0.00) | 1(0.55 ) |
| 2. Unknown internal worms | 7(3.83) | 4(2.19) | 3(1.64) | 3(1.64) | 2(1.09 ) | 2(1.09 ) |
| 3. Maggot infestation | 11(6.01) | 6(3.28) | 5(2.73) | 3(1.64) | 5(2.73) | 3(1.64) |
| 4. Tick infestation | 10(5.46) | 5(2.73 ) | 5(2.73) | 3(1.64) | 5(2.73) | 2(1.09) |
| 5. Flea infestation | 6(3.28) | 4(2.19) | 2(1.09 ) | 0(0.00) | 4(2.19) | 2(1.09) |
| 6. Lice infestation | 3(1.64 ) | 2(1.09) | 1(0.55) | 0(0.00) | 0(0.00) | 3(1.64) |
| 7. Mange | 2(1.09) | 1(0.55) | 1(0.55) | 2(1.09) | 0(0.00) | 0(0.00) |
| **XII. Parasitic infestation** | **40**(**21.86)** | **23**(**12.57**) | **17**(**9.29**) | **11**(**6.01**) | **16**(**8.74**) | **13**(**7.10**) |
| XIII. Protozoal diseases | 1(0.55) | 1(0.55) | 0(0.00) | 0(0.00) | 0(0.00) | 1(0.55) |
| XIV. Fungal diseases | 3(1.64) | 2(1.09) | 1(0.55) | 0(0.00) | 2(1.09) | 1(0.55) |
| **Total medicinal cases** | **143**(**78.14)** | **89**(**48.63**) | **5**(**29.51)4** | **47**(**25.68**) | **57**(**31.15)** | **39**(**21.31**) |
| 1. Endometritis & pyometra | 3(1.64) | 0(0.00) | 3(1.64) | 0(0.00) | 1(0.55) | 2(1.09) |
| 2. Paraphymosis | 2(1.09) | 2(1.09) | 0(0.00) | 0(0.00) | 1(0.55) | 1(0.55) |
| 3. Pregnancy detection | 3(1.64) | 0(0.00) | 3(1.64) | 0(0.00) | 2(1.09) | 1(0.55) |
| 4. Abortion | 4(2.19) | 0(0.00) | 4(2.19) | 0(.00) | 2(1.09) | 2(1.09) |
| **Total gynaecological cases** | **12**(**6.56**) | **2**(**1.09**) | **10**(**5.46**) | **0**(**0.00**) | **6**(**3.28**) | **6(3.28** ) |
| 1. Orthopedic surgery | 10(5.46) | 6(3.28) | 4(2.19) | 5(2.73) | 2(1.09) | 3(1.64) |
| 2. Dog bite | 12(6.56) | 7(3.83) | 5(2.73) | 4(2.19) | 4(2.19) | 4(2.19) |
| 3. Abscess | 1(0.55) | 1(0.55) | 0(.00) | 0(.00) | 1(0.55) | 0(0.00) |
| 4. Spaying | 3(1.64) | 0(0.00) | 3(1.64) | 0(.00) | 1(0.55) | 2(1.09) |
| 5. Castration | 2(1.09) | 2(1.09) | 0(0.00) | 2(1.09) | 0(0.00) | 0(0.00) |
| **Total surgical cases** | **28**(**15.30**) | **16(8.74** ) | **12**(**6.56)** | **11**(**6.01**) | **8**(**4.37**) | **9**(**4.92**) |
| **Total cases** | **183(100** ) | **107**(**58.47**) | **76**(**41.53**) | **58(31.69**) | **71**(**38.80**) | **54**(**29.51)** |

**Table 3: Proportional prevalence of clinical diseases and conditions of pet dog in relation to breed**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Clinical Diseases and conditions** | **Local Breed** | **German Shepherd** | **Labrador** | **Spitz** | **Puddle** | **Samoyed** | **Crossbred** |
| **Prevalence**  **(%)** | **Prevalence**  **(%)** | **Prevalence**  **(%)** | **Prevalence**  **(%)** | **Prevalence**  **(%)** | **Prevalence**  **(%)** | **Prevalence**  **(%)** |
| 1. Loss of appetite | 3(1.64) | 5(2.73 ) | 1(0.55 ) | 2(1.09 ) | 2(1.09 ) | 1(0.55 ) | 0(0.00) |
| 2. Diarrhoea | 2(1.09) | 1(0.55 ) | 0(0.00 ) | 1(0.55 ) | 0( 0.00) | 0(0.00 ) | 1(0.55) |
| 3.Gastritis | 2(1.09) | 2( 1.09) | 2( 1.09) | 1(0.55 ) | 1(0.55 ) | 2(1.09 ) | 2(1.09) |
| 4. Dental disorder | 1(0.55) | 0( )0.00 | 1(0.55 ) | 0( 0.00) | 0( 0.00) | 0(0.00 ) | 0(0.00) |
| 5. Other digestive disorders | 3(1.64) | 0( )0.00 | 0(0.00 ) | 1( 0.55) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) |
| **I. Digestive Disorders** | **11(6.01)** | **8**(**4.37** ) | **4**(**2.19** ) | **5**(**2.73** ) | **3**(**1.64** ) | **3**(1.64 ) | **3**(1.64 ) |
| 1. Pneumonia | 0(0.00) | 1(0.55 ) | 2(1.09 ) | 1(0.55 ) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) |
| 2. Bronchitis | 0(0.00) | 0(0.00 ) | 0( 0.00) | 1(0.55 ) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) |
| 3. Kennel cough | 0(0.00) | 1(0.55 ) | 1(0.55 ) | 2( 1.09) | 1( 0.55) | 0( 0.00) | 0(0.00 ) |
| **II. Respiratory disorders** | 0(0.00) | **2**( **1.09**) | **3**(**1.64** ) | **4**( **2.19**) | **1(0.55)** | **0(**0.00 ) | **0**(0.00 ) |
| **III. Urinary disorders** | **0(0.00)** | **0**(**0.00** ) | **0**(**0.00** ) | **0**(**0.00** ) | **0(0.00 )** | **1**(0.55 ) | **0**(0.00 ) |
| **IV. Lameness** | **1(0.55)** | **0**(**0.00** ) | **1**( **0.55**) | **0**( **0.00**) | **0(0.00 )** | **0**(0.00 ) | **0**(0.00 ) |
| **V. Metabolic disorders** | 0(0.00) | **1**(**0.55** ) | **0**( **0.00**) | **1**( **0.55**) | **0(0.00 )** | **0**(0.00 ) | **0**(0.00 ) |
| 1. Dermatitis | 0(0.00) | 3(1.64 ) | 1( 0.55) | 3(1.64 ) | 2**(1.09 )** | 1(0.55 ) | 0(0.00) |
| 2. Alopecia | 0(0.00) | 1(0.55 ) | 0( 0.00) | 2(1.09 ) | 0**(**0.00 **)** | 0(0.00 ) | 0( 0.00) |
| **VI. Skin disorders** | 0(0.00) | **4**(**2.19** ) | **1**( **0.55**) | **5**( **2.73**) | **2(1.09 )** | **1**(**0.55** ) | **0**(0.00 ) |
| 1. Conjunctivitis | 1(0.55) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) | 2(1.09 ) | 0(0.00 ) | 1(0.55 ) |
| 2. Cataract | 0(0.00) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) | 2( 1.09) | 0( 0.00) | 0(0.00 ) |
| 3. Otitis externa | 0(0.00) | 1( 0.55) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) | 0( 0.00) | 1( 0.55) |
| **VII. Eye and ear disorders** | **1(0.55)** | **1**(**0.55** ) | **0**( **0.00**) | **0**(**0.00** ) | **4(2.19)** | **0**( **0.00**) | **2**( **1.09**) |
| **VIII. Nervous disorders** | **5(2.73)** | **0**(**.00** ) | **0**(**0.00** ) | **0**(**.00** ) | **0**( **0.00**) | **0**(**0.00** ) | **0**(**0.00** ) |
| **IX. Others** | 0(0.00) | **0**( **0.00**) | **0**(**0.00** ) | **0**(**0.00** ) | **4**(**2.19** ) | **0**( **0.00**) | **1**(**0.55** ) |
| 1. Canine distemper | 0(0.00) | 0( 0.00) | 1(0.55 ) | 0(0.00 ) | 0( 0.00) | 0(0.00 ) | 0( 0.00) |
| 2. Canine parvovirus | 2(1.09) | 0( 0.00) | 2(1.09 ) | 0(0.00 ) | 0(0.00) | 0(0.00 ) | 0(0.00 ) |
| 3. Pox virus | 0(0.00) | 0( 0.00) | 0(0.00 ) | 1(0.55 ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **X. Viral diseases** | **4(2.19)** | **0**( **0.00**) | **3**(**1.64** ) | **1**(**0.55** ) | **0**(**0.00** ) | **0**(**0.00** ) | **0**(0.00 ) |
| **X1. Bacterial diseases** | **3(1.64)** | **0**(**0.00** ) | **0**(**0.00** ) | **0**(**0.00** ) | **3**(**1.64** ) | **0**(**0.00** ) | **2**( **1.09**) |
| 1. Ancylostomiasis | 1(0.55) | 0(0.00) | 0(**0.00** ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) |
| 2. Unknown internal worms | 5(2.73) | 0(0.00) | 2( 1.09) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) |
| 3. Maggot infestation | 5(2.73) | 3(1.64 ) | 1(0.55 ) | 1( 0.55) | 0(0.00 ) | 1(0.55 ) | 0(0.00 ) |
| 4. Tick infestation | 5(2.73) | 2( 1.09) | 1( 0.55) | 1( 0.55) | 0(0.00 ) | 1( 0.55) | 0(0.00 ) |
| 5. Flea infestation | 4(2.19) | 2(1.09 ) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) |
| 6. Lice infestation | 1(0.55) | 0(0.00 ) | 0( 0.00) | 2(1.09 ) | 0( 0.00) | 0( 0.00) | 0(0.00 ) |
| 7. Mange | 2(1.09) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) |
| **XII. Parasitic infestation** | **23(12.57)** | **7**(**3.83** ) | **4**(**2.19** ) | **4**( **2.19**) | **0**( **0.00**) | **2**(**1.09** ) | **0**(0.00 ) |
| XIII. Protozoal diseases | 1(0.55) | 0(0.00 ) | 0(0.00 ) | 0( .00) | 0(0.00 ) | 0( 0.00) | 0(0.00 ) |
| XIV. Fungal diseases | 1(0.55) | 1(0.55 ) | 0( 0.00) | 1( 0.55) | 0(0.00 ) | 0( 0.00) | 0(0.00 ) |
| **Total medicinal cases** | **50(27.32)** | **24**(**13.11** ) | **16**(**8.74** ) | **21**( **11.48**) | **17**(**9.29** ) | **7**(**3.83** ) | **8**( **4.37**) |
| 1. Endometritis & pyometra | 0(0.00) | 0(0.00 ) | 1(0.55 ) | 1(0.55 ) | 0(.00 ) | 1(0.55 ) | 0(0.00 ) |
| 2. Paraphymosis | 1(0.55) | 1(0.55 ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) |
| 3. Pregnancy detection | 1(0.55) | 2( 1.09) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) | 0(0.00 ) |
| 4. Abortion | 1(0.55) | 1( 0.55) | 2(1.09 ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) | 0(0.00 ) |
| **Total gynecological cases** | **3(1.64)** | **4**(**2.19** ) | **3**(**1.64** ) | **1**(**0.55** ) | **0**(**0.00** ) | **1**(**0.55** ) | **0**( 0.00) |
| 1. Orthopedic surgery | 4(2.19) | 4(2.19 ) | 1( 0.55) | 1(0.55 ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) |
| 2. Dog bite | 2(1.09) | 4( 2.19) | 2( 1.09) | 2(1.09 ) | 0(0.00 ) | 0(0.00 ) | 2(1.09 ) |
| 3. Abscess | 0(0.00) | 0( 0.00) | 1(0.55 ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) |
| 4. Spaying | 1(0.55) | 2( 1.09) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) | 0( 0.00) | 0( 0.00) |
| 5. Castration | 0(0.00) | 0(0.00 ) | 2(1.09 ) | 0( 0.00) | 0(0.00 ) | 0(0.00 ) | 0( 0.00) |
| **Total surgical cases** | **7(3.83)** | **10**(**5.46** ) | **6**(**3.28** ) | **3**(**1.64** ) | **0**( **0.00**) | **0**(**0.00** ) | **2**(**1.09** ) |
| **Total cases** | **60(32.79)** | **38**(**20.77**) | **25**(**13.66** ) | **25**(**13.66** ) | **17**( **9.29**) | **8**(**4.37** ) | **10**( **5.46**) |

**Table 4. Demographic distribution of clinical diseases and conditions of pet cat at CVH**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Clinical diseases and conditions** | **Prevalence** | **Sex** | | **Breed** | | | **Age** | | |
| **Male**  **(%)** | **Female**  **(%)** | **Local**  **(%)** | **Persian**  **(%)** | **Bengal**  **(%)** | **<6 mnth.**  **(%)** | **>7 to 24 months**  **(%)** | **>24 months**  **(%)** |
| 1. Diarrhoea | 2 | 0(0.00 ) | 1(0.73) | 1(0.73 ) | 0(0.00 ) | 0(0.00 ) | 2(1.46 ) | 0(0.00) | 0(0.00 ) |
| 2. Gastritis | 3 | 2(1.46) | 1(0.73) | 3(2.19) | 0(0.00 ) | 0(0.00 ) | 3(2.19) | 0(0.00 ) | 0(0.00 ) |
| 3. Mega colon | 2 | 0(0.00 ) | 2**(**1.46**)** | 0**(0.00)** | 0**(0.00)** | 0**(0.00)** | 2**(**1.46**)** | 0(0.00 ) | 0(0.00 ) |
| 4. Other digestive problems | 10 | 4(2.92) | 6**(4.38)** | 6**(**4.38 **)** | 3**(2.19 )** | 1**(**0.73 **)** | 7**(5.11 )** | 3(2.19 ) | 0(0.00) |
| **I. Digestive disorders** | **17** | **6**(**4.38**) | **11(8.03)** | **11(8.03)** | **5( )** | **1(**0.73 **)** | **14(10.22 )** | **3**(**2.19**) | **0**(**0.00**) |
| 1. Pneumonia | 5 | 1(0.73) | 4**(**2.92**)** | 5**(**3.65 **)** | 0**(0.00 )** | 0**(0.00 )** | 3**(2.19 )** | 0(0.00) | 2(1.46 ) |
| 2. Bronchitis | 1 | 0(0.00 ) | 1**(**0.73**)** | 0**(**0.00 **)** | 0**(0.00 )** | 1**(**0.73 **)** | 0**(**0.00 **)** | 1(0.73) | 0(0.00) |
| **II. Respiratory disorder** | **6** | **1**(0.73) | **5(3.65 )** | **5(3.65 )** | **0(0.00)** | **1(**0.73**)** | **3(2.19)** | **1**(**0.73** ) | **2**(**1.46**) |
| **III. Urinary disorder** | **1** | **1**(0.73) | **0(0.00)** | **1(0.73)** | **0(0.00 )** | **0( 0.00)** | **0(**0.00 **)** | **0**(**0.00**) | **1**(**0.73** ) |
| **IV. Lameness** | **3** | **3**(**2.19** ) | **0(0.00 )** | **0(0.00 )** | **2(**1.46 **)** | **1(**0.73**)** | **3(2.19 )** | **0**(**0.00**) | **0**(**0.00**) |
| **V. Metabolic dis order** | **2** | **2**(**1.46**) | **0(0.00)** | **1(.73)** | **1(**0.73 **)** | **0(0.00)** | **1(**0.73**)** | **1**(**0.73** ) | **0**(**0.00**) |
| **VI. Poisioning** | **4** | **3**(**2.19** ) | **1(**0.73 **)** | **4(2.92 )** | **0(0.00)** | **0(0.00)** | **3(2.19)** | **1**(**0.73**) | **0**(**0.00**) |
| 1.Dermatitis | 0 | 0(0.00) | 0**(0.00 )** | 0**(0.00)** | 0**(0.00 )** | 0**(0.00 )** | 0**(**0.00 **)** | 0(0.00 ) | 0(0.00 ) |
| 2. Alopecia | 1 | 0(0.00) | 1**(**0.73**)** | 1**(**0.73**)** | 0**(0.00 )** | 0**( ) 0.00** | 00.00 **( )** | 1(0.73 ) | 0(0.00) |
| **VII. Skin disorders** | **1** | **0**(0.00) | **1(**0.73**)** | **1(**0.73**)** | **0(0.00 )** | **0(0.00)** | **0(**0.00**)** | **1**(**0.73** ) | **0**(**0.00**) |
| 1. Conjunctivitis | 1 | 0(0.00 ) | 1**(**0.73**)** | 1**(**0.73**)** | 0**(0.00 )** | 0**(0.00)** | 0**(**0.00**)** | 0(0.00 ) | 1(0.73 ) |
| 2. Cataract | 0 | 0(0.00) | 0**( 0.00)** | 0**(0.00 )** | 0**(0.00 )** | 0**(0.00)** | 0**(**0.00 **)** | 0(0.00 ) | 0(0.00) |
| 3. Otitis | 1 | 1(.73) | 0**(0.00 )** | 0**(0.00)** | 1**(**0.73**)** | 0**(0.00 )** | 0**(**0.00**)** | 1(0.73) | 0(0.00) |
| 4. Protrusion of eyeball | 2 | 2(1.46 ) | 0**( 0.00)** | 2**(**1.46 **)** | 0**(0.00 )** | 0**(0.00 )** | 1**(**0.73**)** | 1(0.73 ) | 0(0.00) |
| **VIII. Eye and ear disorder** | **4** | **3(2.19** ) | **1**(0.73 ) | **3**(**2.19**) | **1**(0.73) | **0(0.00 )** | **1(**0.73 **)** | **2**(**1.46** ) | **1**(**0.73**) |
| **IX. Others** | **4** | **1**(**0.73**) | **3**(**2.19**) | **3**(**2.19** ) | **1**(0.73 ) | **0(0.00 )** | **3(2.19)** | **0**(**0.00**) | **1**(**0.73** ) |
| **X. Baterial diseases** | **4** | **1**(**0.73**) | **3**(**2.19** ) | **3**(**2.19**) | **1**(0.73 ) | **0(0.00)** | **3(2.19)** | **0**(**0.00**) | ***1***(**0.73** ) |
| 1. Rabies | 1 | 1(**0.73**) | 0(0.00) | 1(0.73) | 0(**0.00** ) | 0(0.00 ) | 0(0.00 ) | 0(0.00) | 1(0.73 ) |
| 2. Feline calici virus | 2 | 2(1.46 ) | (0.00)0 | 2( ) | 0(**0.00**) | 0(0.00) | 2(1.46 ) | 0(0.00 ) | 0(0.00 ) |
| 3. Feline pan leukemia | 4 | 2(1.46 ) | 2(1.46) | 4( ) | 0(**0.00**) | 0(0.00) | 4(2.92 ) | 0(0.00 ) | 0(0.00) |
| 4. Pox virus | 2 | 1(0.73) | 1(0.73) | 2(1.46 ) | 0(**0.00** ) | 0(0.00 ) | 2(1.46 ) | 0(0.00 ) | 0(0.00) |
| **XI. Viral diseases** | **9** | **6**(**4.38**) | **3**(**2.19**) | **9**(**6.57** ) | **0**(**0.00** ) | **0**(**0.00** ) | **8**(**5.84** ) | **0**(**0.00** ) | **1**(**0.73** ) |
| 1. Toxoscariasis | 4 | 2(1.46) | 2(1.46 ) | 4(2.92 ) | 0(0.00) | 0(0.00) | 2(1.46 ) | 2(1.46) | 0(0.00 ) |
| 2. Unknown internal worm | 12 | 8(5.84 ) | 4(2.92 ) | 8(5.84 ) | 3(2.19) | 1(0.73) | 10(7.30) | 1(0.73 ) | 1(0.73 ) |
| 3. Myiasis | 3 | 2(1.46) | 1(0.73) | 3(2.19) | 0(0.00 ) | 0(0.00) | 1(0.73) | 1(0.73 ) | 1(0.73 ) |
| 4. Tick infestation | 2 | 2(1.46) | 0(0.00) | 2(1.46 ) | 0(**0.00** ) | 0(0.00 ) | 1(0.73 ) | 1(0.73 ) | 0(0.00 ) |
| 5. Flea infesation | 4 | 1(0.73) | 3(2.19 ) | 3(2.19 ) | 1(0.73 ) | 0(0.00 ) | 2(1.46 ) | 2(1.46) | 0(0.00 ) |
| 6. Lice infestation | 2 | 1(0.73) | 1(0.73) | 1**(**0.73**)** | 1(0.73 ) | 0(0.00) | 0( 0.00) | 2(1.46) | 0(0.00 ) |
| 7. Mange | 4 | 3(2.19 ) | 1**(**0.73**)** | 2**(**1.46**)** | 1(0.73 ) | 1**(**0.73**)** | 0(0.00) | 2(1.46) | 2(1.46 ) |
| **XII. Parasitic diseases** | **31** | **19(13.87)** | **12(8.76 )** | **23(**1.46 **)** | **6(4.38)** | **2(1.46)** | **16(11.68)** | **11**(**8.03** ) | **4**(**2.92** ) |
| **XIII. Protozoal diseases** | **2** | **1(0.73 )** | **1(0.73 )** | **2(**1.46**)** | **0(0.00 )** | **0(0.00)** | **0(0.00)** | **2(1.46 )** | **0(0.00 )** |
| **XIV. Fungal diseases** | **2** | **1(0.73)** | **1(0.73)** | **1(0.73)** | **1(**0.73 **)** | **0(0.00 )** | **1(0.73)** | **0(0.00 )** | **1(0.00)** |
| **XV. Nail trimming** | **1** | **1(0.73)** | **0(0.00 )** | **1(0.73)** | **0(0.00)** | **0(0.00 )** | **0(0.00)** | **1(0.73)** | **0(0.00)** |
| **XVI. Nervous disorder** | **2** | **1(.73 )** | **1(0.73 )** | **2(1.46)** | **0(0.00 )** | **0(0.00 )** | **1(0.73 )** | **0(0.00 )** | **1(0.00)** |
| **Total medicinal cases** | **93** | **50(36.50 )** | **43(31.39)** | **70(51.09 )** | **18(13.14 )** | **5(3.65)** | **57(41.61)** | **23(16.79 )** | **13(9.49)** |
| 1. Pregnancy detection | 2 | 0**(**0.00 **)** | 2**(**1.46 **)** | 2**(1.46)** | 0**(0.00 )** | 0**(**0.00**)** | 0**(0.00)** | 2**(1.46)** | 0**(0.00)** |
| **Total gynecological cases** | **2** | **0(0.00)** | **2(1.46)** | **2(1.46)** | **0(0.00)** | **0(0.00)** | **0(0.00 )** | **2(1.46 )** | **0(0.00)** |
| 1. Orthopedic surgery | 9 | 6**(**4.38**)** | 3**(**2.19**)** | 6**(**4.38**)** | 2**(**1.46 **)** | 1**(**0.73**)** | 8**(**5.84 **)** | 1**(**0.73 **)** | 0**(0.00)** |
| 2. Accidental wound | 24 | 18**(**13.14**)** | 6**( )** 4.38 | 20**(**14.60**)** | 4**(**2.92**)** | 0**(**0.00**)** | 6**(**4.38**)** | 14**(**10.22 **)** | 4(2.92) |
| 3. Spaying | 4 | 0**(**0.00 **)** | 4**(**2.92 **)** | 4**(**2.92**)** | 0**(**0.00 **)** | 0**(**0.00**)** | 0**(**0.00 **)** | 4**(**2.92 **)** | 0**(0.00)** |
| 4. Castration | 5 | 5**(**3.65**)** | 0**(**0.00**)** | 5**(**3.65 **)** | 0**(**0.00**)** | 0**(**0.00**)** | 0**(**0.00**)** | 4**(**2.92 **)** | 1**(0.00)** |
| **Total surgical cases** | **42** | **29(21.17)** | **13(9.49 )** | **35(25.55)** | **6(4.38 )** | **1(0.73)** | **14(10.22)** | **23(16.79)** | **5(3.65)** |
| **Total cases** | **137** | **79(57.66)** | **58(42.34 )** | **107(78.10)** | **24(17.52)** | **6(4.38)** | **71(51.82)** | **48(35.04 )** | **18(13.14)** |

**3. Age wise prevalence of clinical diseases and conditions in pet animals**

The proportional prevalence of clinical conditions was higher in adult (38.80%) than young dog (31.69%). The age-wise distribution of the prevalence of clinical diseases and conditions in dog, cat and rabbit are shown in the Table 2, 4 and 5. In cat, the higher prevalence of clinical cases was recorded in young (51.82%) than adult (35.04%). The higher prevalence of clinical cases in rabbit was recorded in young (49.40%) than adult (30.12%). However in dogs, Tarafder and Samad (2010) reported higher prevalence clinical diseases in aged dogs (48.12%) as compared with young (17.55%) and adult (34.33%).

**Table 5. Demographic distribution of clinical diseases and conditions of pet rabbit attended in CVH**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Clinical Diseases and conditions** | **Prevalence (%)** | **Sex** | | **Age (Months)** | | |
|  |  | **Male(%)** | **Female(%)** | **<6(%)** | **>7 to 36(%)** | **>36(%)** |
| **1. Mange** | **30(36.14)** | **25(30.12)** | **5(6.02)** | **15(18.07)** | **7(8.43)** | **8(9.63)** |
| **2. Traumatic injury and fracture** | **14(16.86)** | **10(12.04)** | **4(4.81)** | **6(7.22)** | **6(7.22)** | **2(30.12)** |
| 3. Respiratory tract infection | 3(3.61) | 3(3.61) | 0(0.00) | 3(3.61) | 0(0.00) | 0(0.00) |
| 4. Conjuncitivits | 4(4.81) | 2(30.12) | 2(30.12) | 2(30.12) | 1(1.20) | 1(1.20) |
| 5. Nutritional deficiency | 8(9.63) | 6(7.22) | 2(30.12) | 4(4.81) | 3(3.61) | 1(1.20) |
| I. Coccidiosis | 5(6.02) | 4(4.81) | 1(1.20) | 2(30.12) | 1(1.20) | 2(30.12) |
| 1. Alopecia | 3(3.61) | 2(30.12) | 1(1.20) | 1(1.20) | 2(30.12) | 0(0.00) |
| **2. Parasitic infestation** | **6(7.22)** | **4(4.81)** | **2(30.12)** | **3(3.61)** | **2(30.12)** | **1(1.20)** |
| 3. Abscess | 1(1.20) | 1(1.20) | 0(0.00) | 0(0.00) | 1(1.20) | 0(0.00) |
| II. Others | 9(10.84) | 7(8.43) | 2(30.12) | 5(6.02) | 2(30.12) | 2(30.12) |
| **Total** | **83(100.00)** | **64(77.10)** | **19(22.89)** | **41(49.39)** | **25(30.12)** | **17(20.84)** |

**4. Breed wise prevalence of clinical and diseases and conditions in pet animals**

Prevalence of clinical disease and conditions in dog and cat in relation to their breed revealed that the highest clinical diseases and conditions were found in the local dog (32.73%) and in the local cat (78.10%) are shown in the Tables 3 and 4. In Persian cat, prevalence of clinical diseases and conditions were 17.52 % and in Bengal 4.38%. Among the exotic breed of dog, the prevalence of clinical diseases and conditions were highest in German Shepherd (20.77%) and lowest in Samoyed (4.37%) as shown in Table 3. Tarafder and Samad (2010) also reported similar finding as we observed.

**Chapter-IV**

**LIMITATIONS**

* True prevalence could not be analyzed.
* Seasonal prevalence could not be determined due to short study period.
* Small sample size.
* The p value of this study was not estimated due to small sample size.

**Chapter-V**

**CONCLUSIONS**

This study was undertaken to estimate the proportionate prevalence of clinical diseases and conditions in pet animals (dog, cat, and rabbit) attended at Central Veterinary Hospital (CVH) Fullbaria, Dhaka, Bangladesh. Among them the overall proportional prevalence of clinical diseases and conditions in dog, cat and rabbit were 45.40%, 33.99% and 20.24% respectively. The medicinal case comprises the highest percentage of diseases as 78.14% and 36.50% in dog and cat. This report will to know the epidemiological proportionate prevalence different diseases of pet dog, cat, and rabbit.

**Chapter-VI**

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**Chapter-VII**

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**Biography**

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***Born:*** *01 August, 1992.*

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Huddling into the exuberant verdure capital Dhaka is like a sight of paradise. The journey of my life started from there. I completed my S.S.C examination getting CGPA-5 from Motijheel Govt. Girls High School and H.S.C examination getting CGPA-5 from Viqarunnisa Noon School and College .The bonding with my family, make me more softer, more patient and more confident to cherish my desire. The desire of my life is to construct a world where human and animal will live happily together in the nature. So I am proud of my journey through CVASU to prostrate my desire of being a veterinarian. I have interests in molecular biology, Parasitology, Surgery, Epidemiology and Wildlife Medicine. I like reading books and travelling. I hope the journey of my life will be more longer will all of my interests.