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**ABSTRACT**

A case control study was conducted to ascertain the prevalence of clinical diseases of pet dogs in Chittagong metropolitan area during the year 2012. A total of 120 case sheets of dogs were recorded and their variation in prevalence was analyzed on the basis of age, sex and breeds of dogs. The prevalence of diseases of dog in Chittagong metropolitan area were found as mange 17.64%, fracture 14.28%, rabies 10.92%, canine distemper 18.48%, infectious canine hepatitis 5.04%**,** aural hematoma 11.76%, myiasis 8.40%, parvoviral infection 7.56% and parasitic infestation 7.56%. The prevalence of canine distemper was found the highest (18.48%) among the diseases available in dog in the year 2012. The prevalence of Infectious Canine Hepatitis was found the lowest (5.04%) among the available diseases of dog in the year 2012. The prevalence of viral diseases, parasitic diseases and surgical cases in local breed were 49.45%, 37.365 and 13.19% respectively whereas in recognized breed were found as 32.14%, 42.86%, and 25.00% respectively. The prevalence of viral diseases, parasitic diseases and surgical cases in male were 38.46%, 42.31% and 19.23% respectively whereas in female the prevalence were 58.54%, 31.71% and 19.23% respectively. Similarly, in case of age the prevalence of viral diseases, parasitic diseases and surgical cases in young were 34.55%, 47.27% and 18.18% respectively whereas in adult were found 54.69%, 31.25% and 14.06% respectively. The prevalence of diseases in local breed and recognized breed was not significantly (p>0.05) differ from each other. Similarly the prevalence of diseases in male, female, young and adult were not significantly (p>0.05) differ from each other. The curative treatment and preventive treatment were done in local breed 67.03% and 32.97% respectively whereas in recognized breed were found 60.71% and 39.29% respectively. The curative treatment and preventive treatment were done in male 60.26% and 39.74% whereas in female were found 75.61% and 24.39%. The curative treatment and preventive treatment were done in young 54.55% and 45.45% whereas in adult were found 75.00% and 25.00%.