Table of contents

Content	Page

List of figures	ii
List of tables	iii-IV
List of abbreviations	IV
Abstract	V-VI
Chapter 1: Introduction	1-3
Chapter 2: Materials and methods	4-6
Chapter 3: Results	
Chapter 4: Discussion	19-23
Conclusion and recommendations	24
Limitations	25
References	26-34
Appendix 1	
Appendix 2	
Acknowledgements	
Biography	40

List of figures

Figure	Page
Figure 2.1: Map showing the cases distribution presented in Kish	oreganj District
Veterinary Hospital	6
Figure 3.1: Spatial distribution of visceral gout (N=77 br commercial broiler poultry in Kishoreganj, Bangladesh (13 November, 2019)	October to 27
Figure 3.2: Spatial distribution of infectious bursal disease (N= in commercial Sonali poultry in Kishoreganj, Bangladesh (13 November, 2019)	October to 27
Figure 3.3: Spatial distribution of coccidiosis (N=58 Sonali cases Sonali poultry in Kishoreganj, Bangladesh (13 October to 27 N	ovember, 2019)
Figure 3.4: Spatial distribution of salmonellosis (N=46 la commercial layer poultry in Kishoreganj, Bangladesh (13 November, 2019)	October to 27

List of tables

Table	Page
Table 3.1: Distribution of different diseases and di	sease conditions in commercial
poultry (N=182 broiler, 118 Sonali and 252 layer ca	ses) in Kishoreganj, Bangladesh
(13 October to 27 November, 2019)	7-8
Table 3.2: Distribution of visceral gout (N=77 bro	iler cases) and infectious bursal
disease (N= 46 Sonali cases) by different factors i	in Kishoreganj, Bangladesh (13
October to 27 November, 2019)	

Table 3.10: Distribution of antibiotics used against visceral Gout (N= 77 broiler cases) and infectious bursal disease (N=46 Sonali cases) by frequency in commercial poultry in Kishoreganj, Bangladesh (13 October to 27 November, 2019)15-16

Table 3.13: Distribution of different types of antibiotics in infectious bursal disease(N=46 Sonali cases) and coccidiosis (N=58 Sonali cases) in commercial Sonalipoultry in Kishoreganj, Bangladesh (13 October to 27 November, 2019)17

List of abbreviations

Abbreviation	Elaboration
CVASU	Chattagram Veterinary and Animal Sciences University
IBD	Infectious Bursal Disease
KDVH	Kishoreganj District Veterinary Hospital
n	Frequency number
Ν	Number of cases
р	Probability
USDA	United States Department of Agriculture
VG	Visceral Gout

Abstract

The clinico-epidemiological study was conducted through the veterinary hospitalbased passive surveillance to determine the prevalence of poultry diseases and disease conditions and their distributions, observable clinical signs and postmortem lesions and to describe the pattern of the prescription of antibiotics in different poultry cases at Kishoreganj District Veterinary Hospital during October-November, 2019. A total of 552 clinical cases along with epidemiological data were analysed. Multiple poultry diseases or disease conditions (25 different types) were recorded in the present study. The most prevalent cases in broiler were visceral gout 42.4%, infectious bursal disease (IBD) 25.3%, chronic respiratory disease 22.5% and colibacillosis 15.4%. More frequent cases in Sonali were coccidiosis 49.2%, IBD 39%, and colibacillosis 13%. Moreover, common cases in layer obtained colibacillosis 24.2%, Newcastle disease 19.4% and salmonellosis 18.3%. The effect of age was determined in the result of the study as a factor of disease occurrence. In broiler 3-13 days old birds were commonly affected by visceral gout, whereas 17-40 days old Sonali birds were extensively affected by IBD and coccidiosis. In layer birds, the occurrence of salmonellosis was more at the age of 181-350 days. Besides, flock size, floor type, farmers' experience and education also influenced these diseases or disease conditions. Huge mortality was recorded as 88.3% in broiler due to VG, 67.4% and 24.1% due to coccidiosis and IBD respectively in Sonali, 34.8% in layer due to salmonellosis. Watch group antibiotics (as per WHO) were used mostly in all selected cases as against VG in broiler (88.3%), coccidiosis and IBD in Sonali (67.4% and 24.1%, respectively) and salmonellosis in layer (34.8%). Doxycycline (72.7%), tylosin (66.2%), sulphachloropyridazine (trimethoprim) (65%) was prescribed against visceral gout in broiler. In Sonali, ciprofloxacin (84.8%) and pefloxacin (41.3%) were highly provided antibiotics against IBD, whereas ciprofloxacin (58.6%) and erythromycin (20.7%) against coccidiosis. Besides, application of tiamulin (6.4%), enrofloxacin (5.2%) and sulphadiazine (trimethoprim) (5.2%) was obtained from the result of the study. Less concern about the proper poultry farming and antibiotics application or antibiotic resistance was the purport of this overall study finding. Therefore, proper strategic plans have been become mandatory to flatten the deviant situations in poultry industry in the study area.

Keywords: Poultry cases, Antibiotics, District Veterinary Hospital, Kishoreganj