

DISEASES OF POULTRY

Poultry diseases of various kinds permanently occur in all corners of the world. In evaluating the broad field of poultry diseases caused by bacteria, viruses, fungi, protozoan and metazoan pathogens, interaction among disease-causing agents, nutritional deficiencies and environmental stress should all be considered since individual infections seldom occur in isolation, especially in large intensive production systems. There are many common and important diseases which can affect the respiratory system of poultry. This book has been written keeping in view the poultry disease problems of avian species with special emphasis to domestic poultry of India and other countries.

Therefore, an effort has been made to provide applied knowledge on nutrition and management of diseases affecting poultry for the benefit of the poultry keepers, feed manufacturers, veterinary practitioners, students, teachers, researchers and other officials associated with poultry enterprise.

CONTENTS

Introduction; Common Poultry Diseases; Diagnosing Respiratory Problems in Poultry Diseases; Viral Diseases and their Control; Diagnosis of Poultry Disease; Bacterial Diseases; Internal Parasitic Diseases; Poultry Diseases Based on Causative Agent; Parasitic Diseases of Poultry

THE AUTHOR

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Preface

Cattle Diseases are integral to the farmer, if not for worPoultry diseases continue to represent a serious loss to poultry producers in all areas of the world. Both industrialised and subsistence production is impacted, involving broilers, layers, turkeys, water fowl, as well as minor species. Infections of flocks are becoming more significant as a restraint to international trade, either justifiably to prevent introduction of diseases, or as a manoeuvre to protect domestic industries.

Poultry diseases are diseases that afflict poultry. The eradication of poultry disease is very important to the poultry industry. Major types of poultry include chicken, turkey bird, duck, ostrich, cornish game hen, etc.

Infectious diseases can be a problem in any group of poultry, even those in the best managed backyards. It's important to know what to look for so that you can separate off the sick birds at an early stage for euthanasia or treatment, and at the same time, take steps to prevent the disease moving through the flock. Some of the most common infectious diseases that cause problems for the backyard poultry farmer. There are many common and important diseases which can affect the respiratory system (air passages, lungs, air sacs) of poultry. Poultry refers to birds that people keep for their use and generally includes the chicken, turkey, duck, goose, quail, pheasant, pigeon, guinea fowl, pea fowl, ostrich, emu and rhea. Due to modern systems of management, usually with high poultry densities, these diseases are able to readily spread. There are many common and important diseases which can affect the respiratory system (air passages, lungs, air sacs) of

poultry. People keep the birds for their use and generally include the chicken, turkey, duck, goose, quail, pheasant, pigeon, guinea fowl, pea fowl, ostrich, emu and rhea.

Problems attributed to coliform infections are often caused by strains of the *Escherichia coli* organism. There is a marked variation in severity. Problems range from severe acute infections with sudden and high mortality to mild infections of a chronic nature with low morbidity and mortality. Infections may result in a respiratory disease from air sac infection, a septicemic (blood) disease from generalized infections, an enteritis from intestinal infection or a combination of any or all of these conditions. The disease may result from a coliform infection alone as in primary infection or in combination with other disease agents as a complicating or secondary infection. Secondary infections commonly occur as a part of the classic air sac disease syndrome as a complication with *Mycoplasma gallisepticum* infections.

Therefore, an effort has been made to provide applied knowledge on nutrition and management of diseases affecting poultry for the benefit of the poultry keepers, feed manufactures, veterinary practitioners, students, teachers, researchers and other officials associated with poultry enterprise.

—Author

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Preface

1. Introduction

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Different Types of Poultry Diseases; Amyloidosis; Anatipestifer Disease, New Duck Syndrome, Duck Septicaemia; Arizona Infection, Arizonosis; Ascites; Aspergillosis; Avian Encephalomyelitis Egg Drop; Avian Encephalomyelitis, Epidemic Tremors; Avian Leukosis, Lymphoid Leukosis, Leukosis/Sarkoma Group; Avian Rhinotracheitis 'Swollen Head Syndrome'; Beak Necrosis; Bedbug Infestation; Big Liver and Spleen Disease; Biotin Deficiency, Including Fatty Liver and Kidney Syndrome; Botulism; Caecal Worm; Campylobacter Infection; Cannibalism, Feather Pecking; Cellulitis; Chlamydiosis, Psittacosis, Ornithosis; Coccidiosis of Turkeys; Coccidiosis, E mitis; Coccidiosis, Ileorectal, E brunetti; Coccidiosis, Mid-intestinal, E maxima; Colibacillosis, Colisepticemia; Contact Dermatitis, Hock Burn, Pododermatitis; Dactylariosis; Degenerative Joint Disease; Depluming and Scaly Leg Mites; Endocarditis; Erysipelas; Fowl Pox, Pox, Avian Pox; Gape; Goose Parvovirus; Infectious Bronchitis, IB Egg-layers; Infectious Laryngotracheitis, ILT; Malabsorption Syndrome, Runting/Stunting; Mycoplasma Gallisepticum Infection; Mycoplasma Meleagridis Infection; Necrotic Enteritis; Ornithobacterium Infection; Paramyxovirus 2-Yucaipa Disease; Roundworm, large-Ascaridia; Salmonellosis, Paratyphoid Infections; Shaky Leg Syndrome; Spondylolisthesis, Kinky-back; Streptococcus bovis

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