

DISEASES OF POULTRY

- ☆ It is the most comprehensive reference for all aspects of poultry health and diseases, including pathogenesis, diagnostics, epidemiology, and control methods.
- ☆ It explains the practical use of vaccines to prevent or reduce disease losses in poultry and also discussed the objectives of vaccination, the types of vaccine, vaccination and Integrated disease prevention and control.
- ☆ It is an essential purchase for poultry veterinarians, veterinary diagnosticians, poultry scientists, students specializing in poultry health, and government officials who deal with poultry health in regulatory climate.



DISEASES OF POULTRY

Nandan



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Ramesh Nandan



Diseases of Poultry

- Author -
Ramesh Nandan



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Preface

The present day health problems are often multi factorial and require special attention to avoid disastrous consequences. Health is a state of complete physical, mental and social well being of poultry, which is an important factor determining the profitability of poultry production. Disease represents a restraint to reproductive potential and yield, feed conversion efficiency and product quality. The causative factors of disease are classified as agent, host and environment. The interaction of these three factors is required to start disease in birds. Intensive health monitoring of elite primary breeders, GGPs, GPs is essential for effective prevention of vertically transmitted diseases. Integrated disease prevention and control involves all the measures designed to prevent or reduce the incidence, prevalence and consequences of the disease. Broadly these measures include; Controlling the reservoir or source of infection. Breaking the routes of transmission and; Manipulating the susceptible host. The practical use of vaccines to prevent or reduce disease losses in poultry is discussed. The objectives of vaccination, the types of vaccine, vaccination programme, combined vaccines and vaccination failures are presented in a non technical manner.

The concept of preventive medicine in poultry is now more important than ever, because the occurrence of disease will limit the performance of the bird and prevent it from achieving its maximum genetic potential. The present day poultry health problems are seldom unifactorial, on the contrary. They are very often multi factorial, requiring special attention to avert disastrous consequences. These problems, which may not be frank disease but results in sub and time consuming to overcome. It is much better to avoid those happenings in the first place through an integrated system of health maintenance and disease prevention. Successful prevention depends on knowledge

of causation, dynamics of transmission, identification of risk factors and flocks at risk, availability of prophylactic or early detection and treatment measures, application of these measures to appropriate or flock and continuous evaluation procedures applied. Health is one of the most important factors determining profitability of all systems of poultry production. It is defined as a state of being that is not merely absence of disease, but a state of complete physical, mental and social well being of poultry. Health and disease lie along a continuum and there is no single cut-off point. The lowest point on the health disease spectrum is death and the highest point corresponds to perfect health. It is thus obvious that health fluctuates within a range of optimum well being to various levels of dysfunction, including the state of total dysfunction, i.e. death.

This book is designed to aid the beginner as well as the established poultry men and may serve as a reference tool for the solution of management problems.

— *Ramesh Nandan*

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