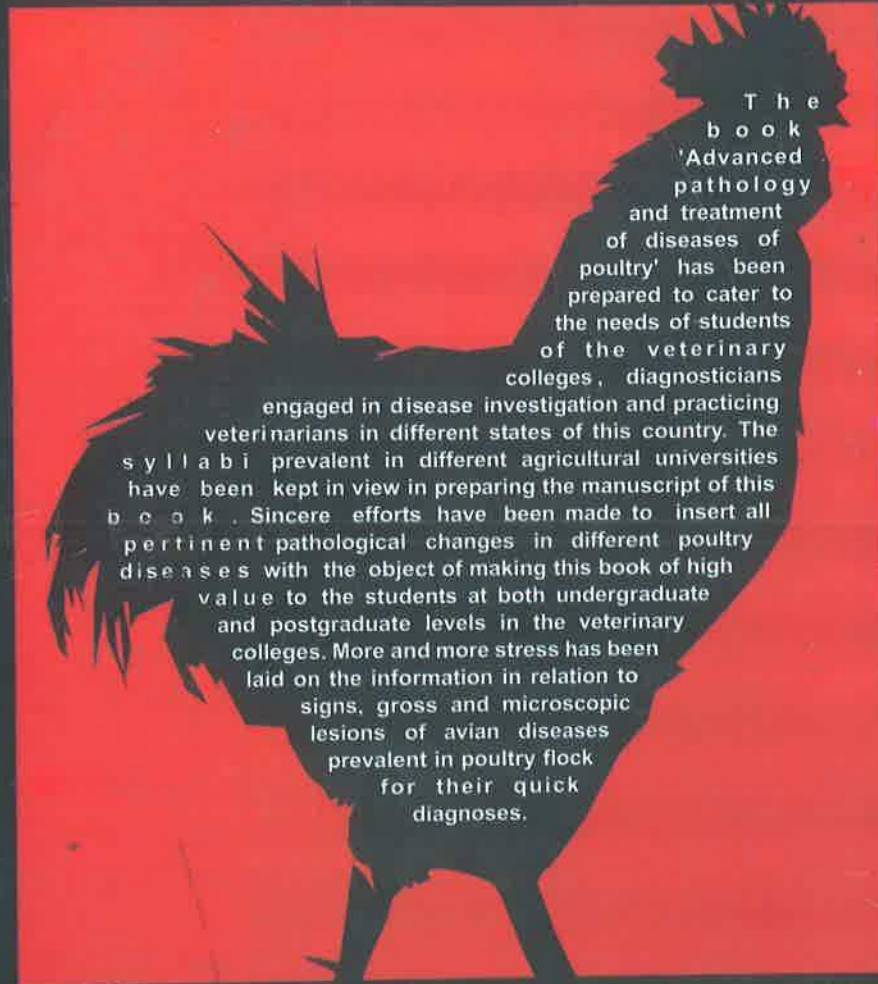


Advanced Pathology and Treatment of Diseases of Poultry

With Special Reference to Etiology, Signs, Pathology and Management



The book 'Advanced pathology and treatment of diseases of poultry' has been prepared to cater to the needs of students of the veterinary colleges, diagnosticians engaged in disease investigation and practicing veterinarians in different states of this country. The syllabi prevalent in different agricultural universities have been kept in view in preparing the manuscript of this book. Sincere efforts have been made to insert all pertinent pathological changes in different poultry diseases with the object of making this book of high value to the students at both undergraduate and postgraduate levels in the veterinary colleges. More and more stress has been laid on the information in relation to signs, gross and microscopic lesions of avian diseases prevalent in poultry flock for their quick diagnoses.



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Jacket Design By : Dot & Line, Tel. : 91-522-2004353, 9335904572



ISBN 81-8189-133-3

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Poultry Diseases

The cellular reactions of the birds to the various kinds of noxious agents like bacteria, viruses, protozoa and mineral deprivations are almost similar to those in the mammalian tissues. There may be some minor differences due to species or other biological factors e.g. calcification is not a feature of tuberculous lesions in fowls. Acute exudative inflammatory reactions are noticed in Newcastle disease, infectious laryngotracheitis, coryza and coccidiosis but the chronic granulomatous lesions are the marked changes in aspergillosis, tuberculosis and coligranuloma. Certain diseases are noticed in very acute form in some age groups of birds as exemplified in Gumboro disease (chickens, aged 3-6 weeks) and Marek's disease (chickens aged 3-9 weeks). Degenerative (necrotic) changes in the lymphoid cells of cloacal bursa in infectious bursal disease (IBD), haemorrhagic-necrotic intestinal lesions in RD (Ranikhet disease) and coagulation necrosis, heterophil accumulation, hyperplasia of synovial cells, lymphocytes, macrophages and plasma cells in viral arthritis in birds are important features of the disease processes .

Diseases in the poultry result from impairment of body functions. Proper sanitation is of utmost importance in prevention and control of poultry diseases. Stresses of different kinds (chills, overexhaustion and starvation etc.) render the chickens susceptible to diseases. The factors controlling the occurrence of diseases are as under:

- [1] Number of birds
- [2] Types of birds
- [3] Virulence (the ability to produce diseases) of the pathogens
- [4] Route of entry