

About the Authors



Dr. Hemant Joshi - completed his B.V.Sc & A.H. from Bikaner Veterinary College in 2001 and M.V.Sc in 2004. He defended his Ph.D. on "White Leghorn Chicken" in 2019 from Bikaner Veterinary University. He worked in Apollo College of Veterinary Medicine, Jaipur for 4 years as an Assistant Professor, in Rajasthan State Animal Husbandry Department for 4 years as Veterinary Officer, in Jodhpur Zoo for 2 year, and then returned to College of Veterinary & Animal Science, Navania, Vallbhnagar, Udaipur as an Assistant Professor since 2014. The concept of biosecurity was the top priority during his services. He implemented and educated biosecurity concept to dairy farmers and during his Zoo services he introduced Zoo-biosecurity concept at Zoo and educate the

Zoo keepers also.



M.K. VYAS - Master of Commerce from the University of Jodhpur was born on 8th December 1960. He started his carrier with ZENITH Papers - "a Division of Zenith Steel Pipes and Industries Limited". In 1989, he joined Mohan Fibre Products Limited as a branch manager; He also worked as a Marketing Manager in a Netherland based multinational company "HUTAMAKI Van Leers". In the year 1995 he started his own pulp egg tray manufacturing unit "Eastern Paper Mouldings Private Limited" in Andhra Pradesh. He started Hind Poultry, the monthly magazine in the year 2001 and has published over 50 titles on poultry Production, Processing, Disease Management, Livestock etc., for which he was awarded the Life Time Achievement Award from Govt. of India and also the "International Leadership in Quality" Award in Paris. M.K. Vyas had also visited several Poultry Facilities in Malaysia, Bangkok, Belgium, Germany, Nepal and France. He had also authored the book Glimpse of Indian Poultry Industry, Breeders Management Guide, Hand Book of Integration in Poultry, Murgiyon Ki Bimariyan Evam Unke Upchar, How to Start a Poultry Hatching Business, Management of Parents Stock and An Entrepreneurs Guide to Start a Poultry Business.



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VACCINATION IN POULTRY

Dr. Hemant Joshi | M.K. Vyas | Shashank Purohit

VACCINATION in POULTRY



- Dr. Hemant Joshi
- M.K. Vyas
- Shashank Purohit



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By
**Dr. Hemant Joshi,
M.K. Vyas,
Shashank Purohit**

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CONTENTS

1. Vaccination in Poultry : An Overview	11
2. Characteristics of Vaccine & Vaccination Programme	21
3. Vaccine Handling & Storage	39
4. Methods of Poultry Vaccination	47
5. Vaccination Schedule for Poultry Birds	73
6. Immunity	85
7. Precaution for Vaccination	93
8. Vaccination Failure	101
9. Preventing Vaccine Failure	115
10. How to Vaccinate Bird	125
11. Quality Control in Vaccination	139
12. Frequently Asked Questions on	143

Preface

Vaccination plays a very important role in poultry. Poultry vaccines are widely applied to prevent and control contagious poultry diseases. Their use in poultry production is aimed at avoiding or minimizing the emergence of clinical disease at farm level.

Poultry Vaccines are also intended to stimulate the immune mechanism (Herd Immunity) of a bird to produce antibodies, which inactivates pathogen and also produce minimal harm. Vaccination also plays a major role in preserving productive health of poultry. Thus, increasing production and profitability.

Poultry birds are usually vaccinated against a variety of diseases including Marek's disease, Newcastle disease, infectious bronchitis, Infectious laryngotracheitis, fowl pox, fowl cholera etc..

Vaccine failure is also a main problem in poultry and it is estimated that a large percentage of poultry flocks faces the vaccination failure. Vaccination failure is the consequence of the inability of the chicken to develop adequate immunity after immunization or susceptibility of bird to field outbreak after administration of vaccine. Therefore, it is important to know about as to what is vaccination, what are the methods of vaccination in poultry, what are the reasons for vaccine failure in poultry and how can it be prevented.

This book "Vaccination in Poultry" tried to cover all the above components of vaccination in poultry including type of vaccines and vaccination schedule for different diseases.

This book is also an attempt to meet the needs of poultry farmers, practicing veterinarians, consultants, poultry entrepreneurs, students and faculty members of various veterinary Universities, in poultry, by providing all the practical tips for vaccination in poultry farms.

Keeping in the view on non-availability of such comprehensive information, this book to best of our knowledge is a unique blend of techniques and application and authors hope that it will serve as a good reference to all the users. Nevertheless, improvement is a continuous process, hence scientific and technical inputs, comments and suggestions from expert is highly solicited.

Lastly, we strongly recommend the help of trained veterinarian before starting the vaccination of flocks.

Dr. Hemant Joshi
M. K. Vyas
Shashank Purohit

Vaccination in Poultry : An Overview

Vaccination in Poultry, this book is designed to help field personnel in the proper use and administration of poultry vaccines. It is intended as an on-farm reference to offer standard operating procedures to improve delivery and efficacy of vaccines in order to optimize flock performance. Proper vaccination is an essential part of a good poultry management program and for the success of any poultry operation. Effective preventive procedures such as immunization protect hundreds of millions of poultry worldwide from many contagious and deadly diseases and have resulted in improved flock health and production efficiency. Immunization cannot be a substitute for poor biosecurity and sanitation. Thus, vaccination programs may not totally protect birds that are under stress or in unhygienic conditions. The primary objective of immunizing any poultry flock is to reduce the level of clinical disease and to promote optimal performance. Certain vaccines may also have an impact on human health like Salmonella vaccines. For breeders - we also want to accomplish some additional goals:

- A.** Protect the bird like a pullet and hen against specific diseases.