

# हिंद पोल्ट्री

# HIND POULTRY

Vol. XXIII August 2024 No. 2

We have Shown to Poultry World that How the Pathological Disorders can be Controlled and Highest Productivity can be Achieved in Spite of Climatical Changes

S.K. Malhotra 09



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# THIS IS WHAT AN IMMUNOTHERAPY GIVES IN COMMERCIAL BROILER

## IPMT TRIAL TO EVALUATE IMMUNOTHERAPY EFFECTS ON AVIANS



DATE	AGE	PARAMETERS					
	4 WKS (28 Days)	T-0	T-1	T-2	T-3	T-4	T-5
10-Mar-23 To 16-Mar-23  <b>4</b>	WKLY FEED / BIRD (GM)	794.74	747.52	721.62	776.80	760.96	708.68
	CUM. FEED / BIRD (GM)	1815.55	1875.30	1876.69	1864.81	1827.02	1766.92
	DAY OLD BODY WT. (GM)	796.25	917.13	931.38	880.38	858.38	844.50
	WKLY BODY WT. (GM)	1320.88	1450.13	1436.00	1383.25	1360.00	1328.25
	WKLY BODY WT. GAIN (GM)	524.63	533.00	504.63	502.88	501.63	483.75
	CUM FCR	1.37	1.29	1.31	1.35	1.34	1.33
	CFCR	1.245	1.165	1.185	1.225	1.215	1.205
	CUM MORTALITY NOS.	22	3	6	9	6	12
	CUM MORTALITY %	2.50	0.34	0.68	1.02	0.68	1.36



DATE	AGE	PARAMETERS					
	5 WKS (35 Days)	T-0	T-1	T-2	T-3	T-4	T-5
17-Mar-23 To 23-Mar-23  <b>5</b>	WKLY FEED / BIRD (GM)	1157.90	1148.11	1144.51	1158.44	1164.35	1186.51
	CUM. FEED / BIRD (GM)	2973.45	3023.41	3021.20	3023.24	2991.37	2953.43
	DAY OLD BODY WT. (GM)	1320.88	1450.13	1436.00	1383.25	1360.00	1328.25
	WKLY BODY WT. (GM)	1901.00	2057.38	2036.75	1992.75	1977.63	1944.13
	WKLY BODY WT. GAIN (GM)	580.13	607.25	600.75	609.50	617.63	615.88
	CUM FCR	1.56	1.47	1.48	1.52	1.51	1.52
	CFCR	1.435	1.35	1.355	1.395	1.385	1.395
	CUM MORTALITY NOS.	27	5	7	9	6	15
	CUM MORTALITY %	3.07	0.57	0.8	1.02	0.68	1.7



DATE	AGE	PARAMETERS					
	6 WKS (42 Days)	T-0	T-1	T-2	T-3	T-4	T-5
24-Mar-23 To 30-Mar-23  <b>6</b>	WKLY FEED / BIRD (GM)	1434.32	1410.75	1500.01	1435.09	1411.18	1433.71
	CUM. FEED / BIRD (GM)	4407.77	4434.16	4521.21	4458.33	4402.55	4387.14
	DAY OLD BODY WT. (GM)	1901.00	2057.38	2036.75	1992.75	1977.63	1944.13
	WKLY BODY WT. (GM)	2600.38	2750.13	2742.5	2709.50	2677.75	2645.75
	WKLY BODY WT. GAIN (GM)	699.38	692.75	705.75	716.75	700.13	701.63
	CUM FCR	1.7	1.61	1.65	1.65	1.64	1.66
	CFCR	1.58	1.49	1.53	1.53	1.51	1.54
	CUM MORTALITY NOS.	30	5	8	9	9	18
	CUM MORTALITY %	3.41	0.68	0.91	1.02	1.02	2.05

1<sup>st</sup> Day To 10<sup>th</sup> Day per 100 Chicks, to remove the stress better development of the brain & Antibodies Nutrigrow 50gm per day + Multimune 5gm was given. Readymune 500gm per ton feed regularly in T-1, T-2, T-5 and Growfast-P 500gm per ton feed regularly in T-3 & T-4 for overall Growth & Immunity.

T-1, T-2, T-3 and T-4 were vaccinated followed by Intermune 1gm per litre water for 4-5 hours x 3 days, Vaccine titer, Bacterial load, Hemoglobin etc. were monitored every week, followed by final dressing percentage, boneless muscles, fat etc. along with stress factor at every week.

T-0 was control flock without any Interface product but vaccinated

T-5 was test flock without any vaccination & T-0 was control flock but vaccinated. Kept on Readymune.



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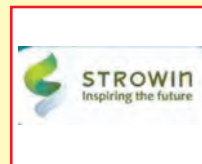
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## Antimicrobial Use Stewardship: A Holistic Systems Approach



# Antimicrobial Use Stewardship A Holistic Systems Approach

**T**ransformational Strategies for Farm Output Risk Mitigation (TRANSFORM) is a United States Agency of International Development (USAID) funded project led by Cargill with collaborating partners including the International Poultry Council (IPC) and Heifer International. The antimicrobial use stewardship principles were developed by the IPC to drive global change throughout the animal agriculture industry by guiding actions to avoid the need to use, but when needed, ensure proper use of antimicrobials. By generating support from the global poultry industry of science-based principles to address antimicrobial use, the industry is acting to combat antimicrobial resistance and reduce its impact on global health security.

**Antimicrobial use stewardship recognition – private sector leadership**




TRANSFORM is pleased that private sector leaders recognize the need to act in advancing antimicrobial use stewardship principles. To date, 26 private sector organizations have acted to support the stewardship principles, reaching over 140 countries, and representing over 40% of global poultry meat production spanning all sectors of poultry production from fully integrated systems to small farms.

Today, we specifically want to note the early supporters in India of the Poultry Federation of India and

Srinivasa Farms. And, importantly announce the addition of two additional leaders, Nanda Group and Nandus. These leaders are setting examples of the private sector acting to advance global health security.

By adopting or endorsing the principles, organizations are committed to encouraging or taking action that centers around four key points. First, organizations agree to take a risk-based approach around each instance of antimicrobial use and consider why, when, which and how much to administer. Second, organizations agree to adopt farm management practices that improve animal health and would reduce the need for antimicrobial use. Third, organizations commit to using antimicrobials only in compliance with national authorizations and,

fourth, that antimicrobials critically important for human medicine should only be used under a supervising veterinarian's diagnosis and oversight. 



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## We have Shown to Poultry World that How the Pathological Disorders can be Controlled and Highest Productivity can be Achieved in Spite of Climatical Changes

**S.K. Malhotra**

Managing Director, Interface Pharmaceuticals Pvt. Ltd.



Mr. S. K. Malhotra is the Managing Director of Interface Pharmaceuticals Private Limited.

INTERFACE has over 25 years of experience to provide true immune-modulators and immunity enhancers. Mr. S. K. Malhotra started Interface with a vision as to how we can check antibiotics abuse in poultry & livestock to provide world standard meat to humans. "In the present scenario of frequent viral & bacterial problems, products of Interface have shown their worth and are given the best of the results to provide the highest standards of productivity. "The Interface believes in the best end results for its range of products by assuring the best of ingredients and formulations to make their Nutraceuticals, says Mr. S. K. Malhotra. As the company claims that the success rate of prevention of viral or bacterial diseases is above 99%, that includes HPAI, LPAI, or other viruses "Recently, M. K. Vyas, Managing partner of HIND POULTRY and General Secretary Indian Poultry Journalists' Association, interacted with Mr. S. K. Malhotra, and discussed the range of the products manufactured by interface, its benefit to poultry farmers, and future plans of the company."The excerpt of the interview is given hereunder.

**Question :** Mr. Malhotra, could you share a bit about yourself and what motivated you to start Interface?

**S.K. Malhotra:** I was looking after mycoplasma awareness in India, Nepal, Kenya and Zambia. Mycoplasma itself is immunosuppressive disease. In the year 1996 in Nepal Dr. J.L. Veghad delivered a lecture that was "How pathological disorders can be controlled with nutritional balance". The lecture inspired me and I started looking the products, which can deliver the results. I was interested to develop immunity in the bird to the extend that no virus or bacteria can effect the productivity of the flock by attacking them. Today we proudly claim that with our immunotherapy. We have above 90% successful in controlling the

bacterial and viral diseases including HPAI.

**Question:** How do you plan to maintain a competitive edge in the immunological products market for poultry farming amidst increasing competition and evolving market dynamics? How Intermune and Multimune are different from its competitive immunotherapy?

**S.K. Malhotra:** We don't believe in competition, everybody has their own plus points, we give the excellent products with a guarantee, that is follow our instruction of immunotherapy and result will be 99% in your favour and over 25 years it has been proved. We have 100% retention of our customers with above 90% satisfaction rate. Often farmer says there is no comparison of your

products, they themselves quote, that, if you keep the products from 1 to 10, then 9 products can fail but at 10<sup>th</sup> level your product can not fail.

**Question:** Could you provide a concise overview of Intermune, Multimune, Ready-mune, Nutrigrow and Growfast P, including their respective application in broiler, Layers and breeders?

**S.K. Malhotra:** All of these products are interrelated, for example Nutrigrow and Multimune to be given at day old chicks and it brings down 48 hrs. mortality on very lower side, in some of the cases this was not even 25%, what they use to get earlier. Intermune when given with vaccine supports better humoral immunity, in trials this was observed that the titer were more than 50% extra (in trial flock) than the control group. Intermune & Multimune are well known products amongst the farmers to control viral problems including HPAI, LPAI, ND etc. Multimune is known product to check E.coli and Salmonella, it has virtually replaced the antibiotics, prebiotics or probiotics in the units where it has been used.

Readymune, I can say it is king of all immunomodulator growth promoters, it assures 5-10% extra productivity than the standards, in

terms of FCR, Mortality, extra egg production and overall disease control with 24 X 7 protection. It has been also noticed that, whenever there is outbreak in surroundings or in your own farm, immediate use of Intermune and Multimune doesn't allow virus to spread in the farm or spread into other sheds. In one of such case a breeder farm surrounded with number of farms was giving Readymune regularly in feed and after knowing that HPAI has affected the one of the farm near to him, he immediately started Intermune and Multimune, once a day, it continued for over 200 days, as one farm or the another having outbreak, but he never got the infection in his farm. In one of the layer farm he got over 96% production for 6½ months and the peak was even 99% for 14 days in a month there was no effect of winters or summers on the flock even it was giving 2-3% plus than the standards during this period.

Even in broiler FCR of 1.35 kg to 1.45 kg for 2 kg b/w and for the bird weighing 1.5 Kg sometimes the FCR is 1.2 kg.

**Question: Is Interface offering any products to address the significant economic losses faced by the global poultry industry as a result of the Avian Influenza outbreak?**

**S.K. Malhotra:** Yes! Million of dollar is been spent on antibiotics, number of vaccines is imposed on farmers today by pharma companies with help of institutes, that is nett loss to the farmers earning with an effective immunomodulation and with good hygiene practices no diseases can come. This has been proved with our immunotherapy method, we are keeping millions of birds without antibiotic and even

without vaccination, we have observed that in LPAI /HPAI immunotherapy works much better than the vaccination. Even in layer and breeder we have observed 5-10% extra productivity.

**Question: with advancement in biotechnology and immunology, how does your company leverage emerging technologies to enhance the effectiveness and safety of your products, and how do you stay ahead of the curve in adopting new technologies?**

**S.K. Malhotra:** Yes, we always work on the new technologies to be adopted by the industry and we spent substantial amount on research work for example Readymune was developed 11 years back in view of this 100-week concept of keeping layers in poultry. Even our new product Nutrimune is ready which will be available once the bird laying period will be further reduced.


**Question: In a rapidly evolving industry, how does your company engage with poultry farmers to understand their evolving needs and preferences, and how do you ensure high levels of customer satisfaction?**

**S.K. Malhotra:** Whether, the farm size is 2000 or 20 lakhs we give personalized services. Even, myself take care of them personally and they are free to call me any time, we are not giving only the products to them we are giving them a concept, with that, their problem can be reduced and their profits has to be saved. Even our team keeps track record of the flocks, in terms of any disease outbreak and warn them how to protect their birds with immunomodulation.

**Question: How do you mitigate risks and ensure the reliability and sustainability of your supply chain. Especially considering the delicate nature of immunological products and the need for timely delivery?**

**S.K. Malhotra:** We supply through road courier, so that the product must reach the destination well in time, even during Covid-19 period we have sent all the supplies all over India by providing special permits. In emergencies, we sent our consignment by Air. Especially, when there is viral outbreak or a particular area is suffering from HPAI or LPAI, if there is urgency, we send our own staff to deliver the goods.

**Question: What is your long-term vision the company in terms of market expansion, product diversification, and global presence, and what strategies are in place to achieve sustainable growth while maintaining profitability?**

**S.K. Malhotra:** Long term we are concentrating more and more time to improve the products to give the industry our best. We have already developed next generation immunomodulators, we have already planned to enter human side with new banner "NUTRAFACE NUTRITIONS" all the licenses have been taken to launch the division. We are already planning to enter in ASEAN countries and to cover entire SAARC countries. Profitability is our last consideration, even if our business is on no profit no loss, we will be happy to serve the livestock industry. Our average growth in last 10 years is 17% plus and we want to maintain the same in future. 

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Mr. B. Venkata Reddy

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★ Weeks Above 90%	:	25
★ Peak Weekly Production	:	96%
★ Feed Cost/Egg @Rs.26/KG	:	Rs.3.09



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## Indian Poultry Equipment Manufacturers' Association Hosts another Triumphant Poultry India Technical Seminar in Guwahati

The Poultry India Technical Seminar, hosted by the Indian Poultry Equipment Manufacturers' Association, emerged as a resounding success, reinforcing its reputation as a pivotal event in the poultry industry. Held at the Srimanta Sankaradeva International Auditorium, the seminar attracted more than 700 general visitors, Farmers and over 50 delegates, highlighting its growing influence and importance. Additionally, around 3500 people watched the event live online.

Supported by Poultry Punch Publications and the Assam Poultry Associations, the seminar kicked off at 10 AM with an enthusiastic gathering of industry professionals, farmers, state government representatives, senior bureaucrats, and dignitaries. The event's primary focus was to address India's protein deficiency by promoting poultry protein as an essential part of the diet and to educate farmers on maximizing their poultry output through advanced knowledge transfer sessions.

Key Highlights of the Seminar included:

- The event began with an oral tribute to the late Dr. Mridul Borah, who was dedicated to the development of the poultry sector in Assam, commemorating his contributions to the field.
- Dr. Kamna Barkataki, Director in-charge of CPDO NR Chandigarh, emphasized the need to boost egg and poultry meat production in Assam. She highlighted that introducing a scientific approach through seminars is a positive step towards transforming Assam from a major importer to an exporter in the poultry sector.



- Mr. Manoj Saikia, Chairman, Assam Livestock and Poultry Corporation, Govt. of Assam, delivered an inspiring speech emphasizing the importance of the poultry sector in combating protein deficiency.
- Dr. P. Borah, Director of Research (Veterinary), AAU, Khanapara, shared insights on the latest research in veterinary science.
- Dr. P. K. Shukla, Professor & Head, Department of Poultry Science, and Former Joint Commissioner, Poultry, GoI, discussed advancements in poultry science and its impact on productivity.
- Dr. B. N. Saikia, Dean, Faculty of Veterinary Science, AAU, Khanapara, addressed the role of education and research in the poultry industry.
- Mr. Manish Thakur, Principal Secretary, Animal Husbandry & Veterinary Department, Govt. of Assam, highlighted governmental initiatives supporting the poultry sector.

Individuals who have made significant contributions to poultry health and management through research and extension, as well as entrepreneurs who have enhanced productivity in the sector, were honored. A heartfelt eulogy for the Late Dr. Mridul Borah was delivered by his daughter Isangi Bohra, commemorating his contributions to the field.

Other Technical Seminar Sessions included:

- Changing Business Dynamics:
- Mr. O. P. Singh from Huvapharma discussed evolving trends in the poultry business.
- Dr. Suraj from Saife Vetmed provided an overview of production perspectives in the Indian poultry industry.
- Dr. Mihir Sarma spoke about scientific intervention in brooding management key for optimum poultry production.
- Dr. Sangeeta Das from AAU PDRC outlined effective vaccination strategies against major poultry diseases.
- Dr. Pankaj Deka presented innovative biosecurity practices for profitable poultry production.
- Dr. L. N. Saikia explored the prospects of commercial layer farming in Assam.
- Mr. Pronoy Bordoloi, Senior Journalist and Adviser, Poultry Development Forum also presented his views in the event





• The event also felicitated individuals who made significant commitment in the field of poultry health & management and also poultry entrepreneurs who have contributed significantly to increase poultry production in the state.



• The event also proudly presented an Audio-Visual showcase of innovative products from the members of IPEMA. Presentations by renowned companies Interface and Saife Vetmed India.

The seminar came to a close with interactive sessions by:

- Dr. Sangeeta Das MVSc (Veterinary Microbiology), Khanapara, Guwahati, Assam, India
- Lakhi Nath Saikia - Head of Breeder Operations and Technical Services, Indian Broiler Group
- Dr. Motiur Rahman - Joint Director (IVB), State Animal Husbandry, Khanapara, Guwahati, Assam, India
- Dr. Deben Sapkota - Professor &

Head, Department of Poultry Science, CVSC, AAU, Khanapara, Guwahati, Assam, India


- Dr. Punananda Konwar - Administrative Officer, ALPCO, Govt. of Assam
- Dr. J. D. Mahanta - Professor, Department of Poultry Science, College of Veterinary Science, Khanapara, Guwahati, Assam, India

These sessions fostered an engaging dialogue between farmers and scientists. The event, conducted in the regional language, ensured that the technical knowledge shared would benefit more and more farmers of Assam and the region, aiding the development of the poultry sector in the region. The event concluded with a vote of thanks by Mr. Nirendra Kumar Das, Secretary, Poultry Development

Forum, Assam, expressing gratitude to all participants, speakers, and supporters for making the seminar a grand success.

The overwhelming attendance and active participation underscore the significance of the Poultry India Technical Seminar in driving the poultry revolution in India. The event not only provided valuable insights and knowledge but also strengthened the commitment to eradicating protein deficiency in the country.

The event was a result of hard efforts and collaborative work by the Indian Poultry Equipment Manufacturers' Association under the leadership of its president Mr. Uday Singh Bayas, the Poultry Punch supporting organization led by Mr. Balwant Rana, and Dr. Kabin Chandranath, President of the Poultry Development Forum Assam, along with their respective teams who made this event happen.


We extend our heartfelt thanks to all attendees and look forward to continued collaboration and progress in the poultry industry. 

# 3rd MS Swaminathan Global Leadership Award 2024 declared

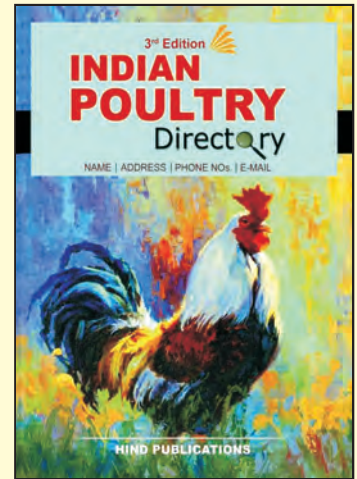


MS Swaminathan Global Leadership Award for Sustainable Development, instituted in the year 2022 by Agriculture Today Group in the name of the noted scientist and Pioneer of India's Green Revolution, Prof. Swaminathan, has been formally announced today in New Delhi. Earlier her name was proposed on July 10 in a meeting in New Delhi. And the winner for this year's award is Prof. Lindiwe M. Sibanda, Chairperson, CGIAR System Board. CGIAR is the Consultative Group on International

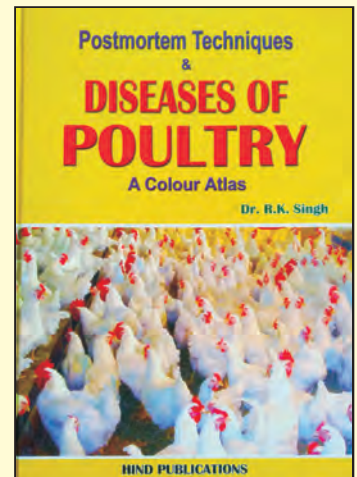
Agriculture Research, which is inter-governmental body, running 19 international research institutions, one of them, ICRISAT is based in Hyderabad, India. On the occasion of the announcement, Ambassador Kenneth Quinn, President Emeritus, World Food Prize Foundation and the recipient of the 2nd MS Swaminathan Award 2023 joined online and congratulated Prof. Sibanda. The other dignitaries present on the occasion included Hon'ble State Minister of Agriculture, Mr. SP Shahi, the Jury Chair, H.E. Justice P. Sathasivam, former Chief Justice of India and Governor of Kerala State, Algerian Ambassador, H.E. Mr. Ali Achoui, H.E. Mr. Manoj Narsinghdeo, Secretary General, Africa Asia Rural Development Organisation, a 36 member countries inter-governmental body, and Dr. MJ Khan, President, Agriculture Today Group. Her short profile was read out on this occasion.

"While congratulating you Prof. Sibanda for the 3rd MS Swaminathan Global Leadership Award 2024 for your outstanding role in advancing the cause of global food security and sustainable development, we are looking forward to welcome you on August 7 at Chennai, India", said Dr. MJ Khan, President, Agriculture Today Group, while giving special thanks to Dr. Soumya Swaminathan, Chairperson, MS Swaminathan Research Foundation for being part of the Jury, and to Ambassador Kenneth Quinn, for joining online from US the name declaration ceremony and sharing his deep appreciation for her outstanding work. The award will be presented on Aug 7 at MSSRF, Chennai, on the birthday of MS Swaminathan. Prof. Sibanda has confirmed to come and receive the Award in person, and address the Global Summit. The first recipient of this award was Dr. William Dar, Secretary (Minister) of Agriculture, Philippines and the longest serving DG of ICRISAT, and Ambassador Kenneth Quinn, President Emeritus, World Food Prize Foundation, Iowa, USA the 2nd recipient. The Award is proposed to be presented by Hon'ble Governor of Tamil Nadu, H.E. Mr. RN Ravi, in the presence of CM, Andhra Pradesh, Mr. N Chandrababu Naidu and other dignitaries. 

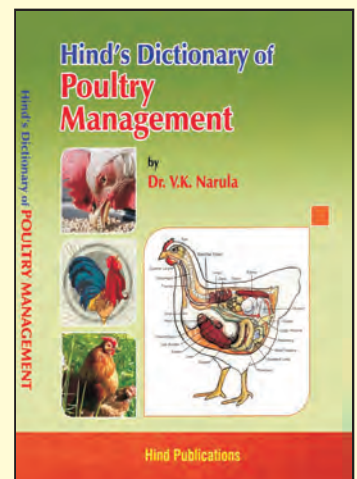
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


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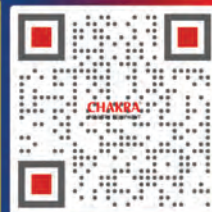
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# Indian Poultry Journalists' Association conducts Technical Seminar in Patna



IPJA's Technical Seminar at Patna – A Thumping Success““ A one-day technical seminar on poultry management, was organized by the Indian Poultry Journalist Association (IPJA) at Hotel Maurya in Patna on 31st July. The event saw participation from many renowned poultry experts from across the country, representatives from leading companies in the poultry industry, and over 380 poultry farmers and entrepreneurs from across the state. Major organizations promoting the poultry business in India, including the Indian Poultry Equipment Manufacturers' Association (IPEMA), the Poultry Federation of India (PFI), and INFAH, discussed their objectives and ongoing efforts to develop the poultry sector.



“Mr. Deepak Khosla, General Manager, V.H Group, shared the vision of the late Padmashree Dr. B.V Rao for the Indian poultry industry, emphasizing Bihar's potential as an emerging production center. He also provided insights into V.H Group's activities in Bihar and the surrounding region.

“Dr. J.K. Prasad, Dean of Bihar Veterinary College, highlighted the storage issues of poultry feed in Bihar. He pointed out that although Bihar is one of the largest maize-producing states in India, it needs to improve its storage capabilities using advanced silo technology to reduce wastage.



“Mr. Uday Singh Bayas, President - IPEMA, assured Bihar's poultry entrepreneurs that their organization is ready to address any issues or problems with government agencies if needed. He emphasized the urgent need for the provision of eggs in school meals to combat malnutrition in children and announced IPEMA's commitment to promoting egg and chicken consumption in the state. He invited farmers from Bihar and Jharkhand to attend the Poultry India 2024 Expo, to be held from November 27-29 in Hyderabad, where 600+ exhibitors will showcase the entire spectrum of the poultry industry.“Dr. Pawan Kumar, President of the Bihar Poultry Farmers Association, spoke about the success of the poultry industry in Bihar and called for further government and industry support to accelerate its growth.







Despite being the second-largest maize producer in the country, he noted that Bihar’s poultry entrepreneurs benefit the least and emphasized the need for better organization among farmers and government support. “The IPJA honored 10 progressive poultry personnel from Bihar, noting that local production, which met only 10% of the demand for eggs and poultry chicken three years ago, has now increased to 30%.

This growth highlights the immense potential of the poultry industry in Bihar as a significant means of livelihood. “Dr. Shirish Nigam, President of INFAH, stressed the need for Indian poultry production to meet international standards to compete globally. He addressed issues of antibiotic resistance and zoonotic diseases, urging farmers to adopt innovative poultry management practices for better profitability. “Mr. Shirish Dhopeswar, Managing Director of Dhopeswar Engineering, shared his expertise on poultry waste management through rendering and discussed growth prospects. Mr. Sarwar Ali presented on the integrated approach for feed safety.

Dr. Dheerendra from Vesper Group discussed production challenges in Bihar’s poultry farms and provided tips on modern, low-cost techniques to protect farms from diseases, emphasizing the importance of biosecurity. “Mr. Uday Singh Bayas, President of IPEMA, Mr. Ricky Thaper, Treasurer of the Poultry Federation of India, and Dr. Shirish Nigam, President of INFAH, were felicitated by the three poultry associations of Bihar.


They assured farmers that concerns regarding battery cages would soon be addressed and that their organizations are making significant efforts toward this goal. The nodal officer for poultry from the Department of Animal Husbandry, Government of Bihar, elaborated on ongoing government schemes related to the poultry industry. “The second session, initiated after lunch by Dr.





S.S. Nadgauda from V.H Group, included presentations on poultry feed formulation and management. Dr. Sandeep Dwivedi from E.W Nutrition discussed critical poultry gut health challenges and their approach, and Dr. B.P. Manjunath concluded the session with a discussion on mycotoxin management and solutions in poultry. "IPJA honored several poultry personnel from the region, including Dr. Pawan Kumar, President of BPFA, Mr. Ranjit Kumar, President of BBA, and Mr. Prakash Anupam, President of BLFA, for their contributions towards organized poultry farming in Bihar and Jharkhand.

"Mr. Shashank Purohit gave the vote of thanks, acknowledging IPJA's efforts in conducting seminars to benefit farmers and promote the poultry industry.

He thanked sponsors, including Poultry India, E.W Nutrition, Vesper, PFI, Immeureka, and Dhopeswar Engineering, for their commendable role in making the event successful. The stage program was coordinated and managed by Dr. Rajesh Kumar Singh from Jharkhand. 

## Launch of New Logos for Global Nutrition International and Nutri Concept




nu.ance presented the new faces of Global Nutrition International and Nutri-Concept, marking an important milestone for the nu.ance biotechnology group. These visual changes reflect its evolution as a group and demonstrate their commitment to moving forward to enhance animal resilience and performance.

New logos, carefully and thoughtfully designed, symbolize the unity as a group and our commitment to innovation and quality. They will further strengthen the positioning of Global Nutrition International and Nutri-Concept in the French and global markets, establishing them as modern, well-recognized, and trusted brands.

The new logos align with the nu.ance biotechnology logo in terms of colors and typography. The combination of blue and green highlights our desire to innovate, blending technological progress with respect for nature. These colors also convey an image of trust and vitality. Our new visual identity will be rolled out across all our documents and platforms, including our websites, social media, and products, in the coming days. We look forward to your feedback and to sharing this new chapter with you. Commented the nu.ance.

nu.ance thanked all their clients and partners for their continued support and are excited to continue working together under this new identity.

nu.ance biotechnology is a Swiss company composed of a dynamic and experienced group of entrepreneurs with proven expertise in the feed additives industry. We focus on the creation, production, and distribution of innovative products to improve animal resilience and performance. 





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# Unveiling the Hidden Power of Trace Minerals in Animal Nutrition

**Dr. Maloshrie Bora**

Program Manager - Minerals  
Trouw Nutrition South Asia

In the intricate world of animal nutrition, the significance of supplementing trace elements like Zinc (Zn), Copper (Cu), Manganese (Mn), Iron (Fe), Iodine (I), and Selenium (Se) cannot be overstated. These elements play a pivotal role in ensuring the health and performance of livestock. However, the basal amounts of these trace elements found in standard commercial feeds simply fall short of meeting the animals' requirements.

The key to unlocking the full potential of these vital trace elements lies in its bioavailability. Bioavailability refers to the retention of a trace element within the gut intestinal tract and is profoundly influenced by antagonistic interactions, particularly in poultry where phytate emerges as the arch-nemesis of essential trace minerals. Phytate forms stubborn complexes with these minerals, rendering them insoluble and thus unavailable for absorption. To combat this antagonism, numerous trace mineral sources have been developed based on solubility and chemical bonding.

But that's not all; the timing and level of trace mineral delivery also come into play. This realization has led to a groundbreaking concept in trace mineral solutions – the fusion of organic and hydroxy minerals. This innovative approach has the potential to not only maintain but also elevate animal performance under various farm conditions. It's imperative to emphasize that the proper timing and dosage of trace elements are paramount for ensuring optimal animal performance.

In today's world, livestock producers face immense challenges due to stringent governmental regulations aimed at addressing environmental concerns. The novel ideas discussed above offer a

glimmer of hope, promising improved absorption and reduced trace element supplementation, all while preserving production performance.

## **In Bonds We Trust: How Bonding Revolutionizes Trace Mineral Bioavailability**

Commonly used trace mineral sources in animal nutrition include sulfate-based and oxide-based minerals, primarily chosen for their affordability. Sulfate trace minerals form ionic bonds with sulfate ligands, readily dissolving in water at a neutral pH, but their instability leads to complexation with phytate, reducing bioavailability. Conversely, oxide minerals form covalent bonds, rendering them insoluble in neutral pH and partially soluble in low pH, further hindering absorption.

To overcome these challenges, organic trace minerals and hydroxy trace minerals have emerged. Organic trace minerals shield metal centers with amino acids or proteinate ligands, limiting the formation of phytate complexes. Hydroxy trace minerals, with their unique covalent crystal structure, prevent phytate complexation and gradually dissolve at low pH, enhancing absorption. Additionally, hydroxy minerals boast cost-effective hydroxy and chloride ligands.

Comparative studies reveal that both organic and hydroxy trace minerals significantly outperform sulfate sources, with hydroxy and organic trace minerals yielding similar results. For instance, in broilers, hydroxy Zn and organic Zn show 144% and 142% improved bioavailability compared to Zinc sulfate (Figure 1).

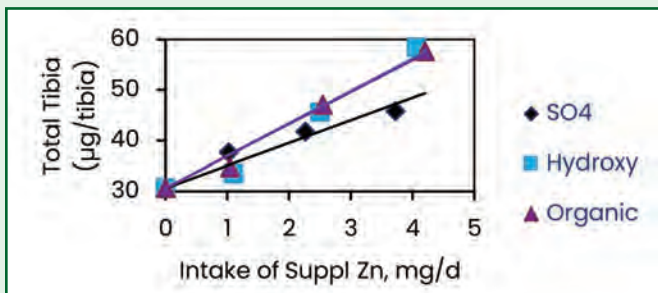


Figure 1. The tibia recovery of Zinc, of birds fed different sources of Zinc (Linear  $P < 0.001$ ).

### Precision Matters: The Power of Optimal Particle Size and Density

Particle size and density often go overlooked when selecting trace mineral sources. Ideal particle size and density minimize feed segregation and ensure proper mixability during production. These considerations are crucial, particularly for animals with low feed intake, as it guarantees that their limited consumption contains all vital nutrients, including minerals. This improved mixability can be done through a patented process (Optisize technology) of creating optimal particles that ensures particle size consistency and highly uniform. Confirmed through laser diffraction analysis, the process results in the ideal particle size (150-300  $\mu\text{m}$ ) with the ideal density (0.8-1.0  $\text{g/mL}$ ), whether it is zinc, iron or manganese, for improved blending/mixing, flowability, and reduce the carry-over risk.

Studies conducted with different trace element sources, such as  $\text{MnSO}_4$  and Hydroxy Mn, indicate improved mixing in complete feeds, enhancing feed quality and nutrient distribution. This is measured through an improve coefficient of variation or CV (lower % cv indicates better mixing, Figure 2). The mixability

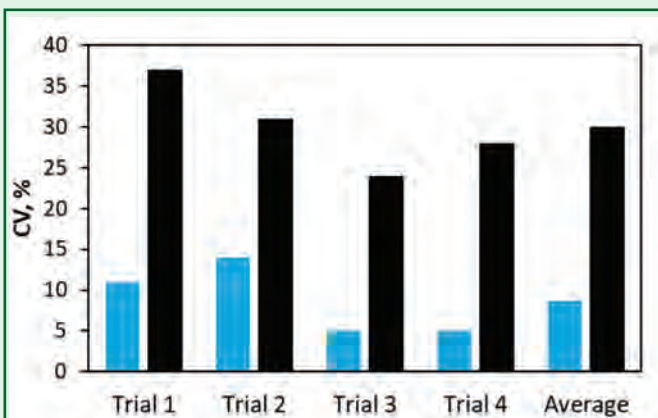


Figure 2. Coefficient of variation of Manganese within complete feeds (Hydroxy Mn and  $\text{MnSO}_4$  shown in the blue and black color bar, respectively). 10 feed samples were analyzed per batch and difference to expected levels is determined.

of trace elements in a diet is of particular importance to young animals, as they have a lower feed intake and therefore more important to get all the required nutrients, especially minerals, despite the low feed intake. Moreover, spherical particles in hydroxy minerals reduce dust potential, reducing mineral source losses during handling.

Furthermore, hydroxy minerals with spherical particles reduced “dustiness” of the product, leading to a lower dust potential (a lower number of dust potential indicates a lower loss of mineral source, see Figure 3) and this also lessens the chance inhalation of the product by workers in the feed mill or premix facility. Although a larger mineral particle size is preferred in feed or premix production, within the animal, it is the other way around. With a smaller particle size, this will lead to a larger surface area, allowing for an improved availability of the mineral.

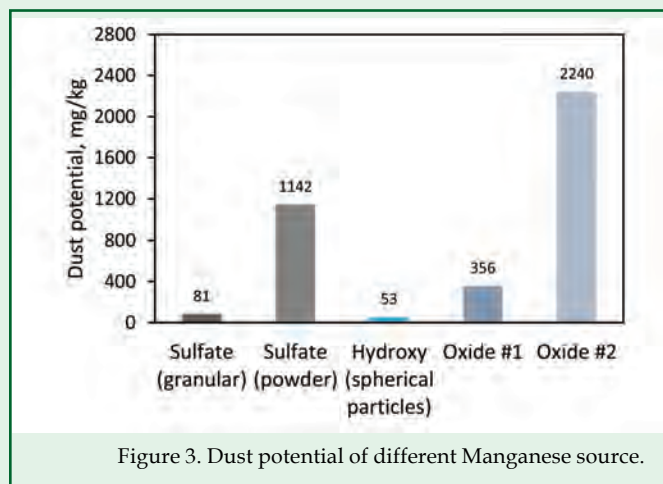


Figure 3. Dust potential of different Manganese source.

### The Strength of Synergy: The Power of Combining Organic and Hydroxy Trace Minerals

While the practice of combining different trace element sources is not new, recent developments have brought forth a game-changing concept: the 70:10 ratio of hydroxy to organic minerals. This innovation stems from the collaborative efforts of leading industry experts and academic professionals dedicated to optimizing animal productivity and well-being.

Research demonstrates that the combination of hydroxy and organic minerals far surpasses sulfate, hydroxy, or organic-only sources, as well as combinations of sulfate and organic minerals in terms of animal performance (Figure 4).

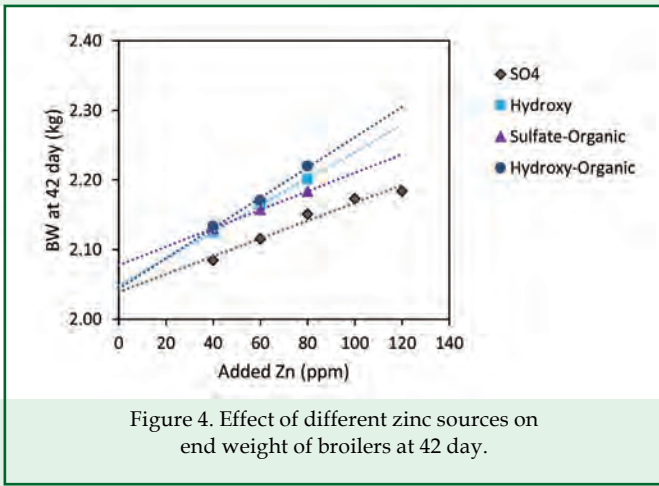


Figure 4. Effect of different zinc sources on end weight of broilers at 42 day.

In another study, the results clearly showed that a combination of 70 ppm Zn from hydroxy mineral plus 10 ppm Zn from organic mineral was superior in terms of end body weight as well as improving feed conversion (Figure 5).

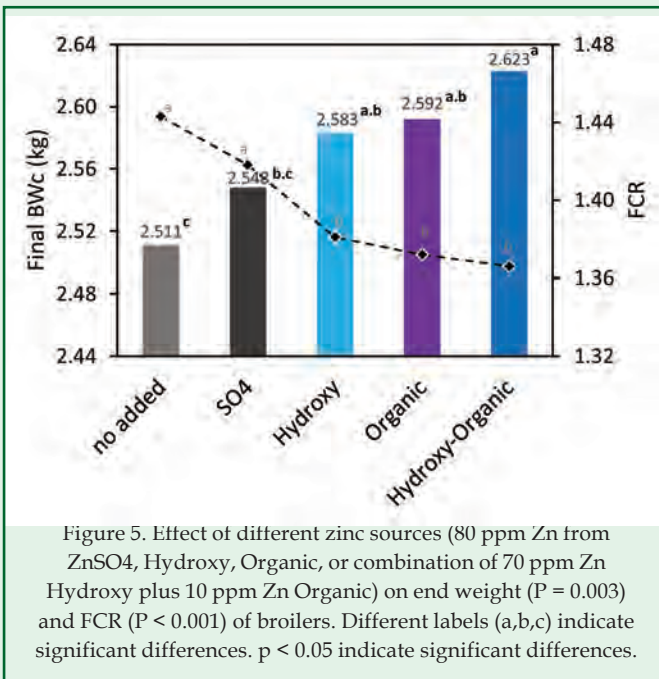


Figure 5. Effect of different zinc sources (80 ppm Zn from ZnSO<sub>4</sub>, Hydroxy, Organic, or combination of 70 ppm Zn Hydroxy plus 10 ppm Zn Organic) on end weight ( $P = 0.003$ ) and FCR ( $P < 0.001$ ) of broilers. Different labels (a,b,c) indicate significant differences.  $p < 0.05$  indicate significant differences.

This synergy results from the complementary release profiles of the two technologies, allowing animals to absorb trace minerals efficiently throughout their intestinal tract. Thus, once hydroxy minerals reach the area of low pH they slowly begin to release the small molecules of soluble metals one layer at a time while organic minerals maintain their structural integrity. Given the different molecular structures of the soluble metals from hydroxy and organic minerals, their absorption is extended further down the gut intestinal tract (Figure 6).

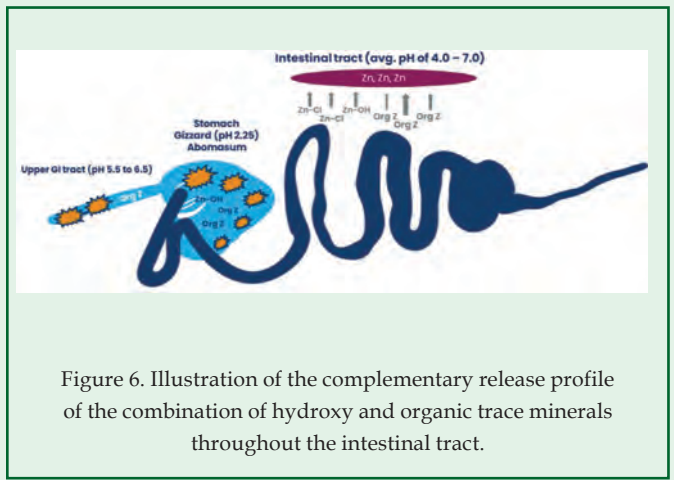


Figure 6. Illustration of the complementary release profile of the combination of hydroxy and organic trace minerals throughout the intestinal tract.

In conclusion, the choice of a trace mineral source is pivotal for supporting productivity, animal health, and environmental sustainability. When choosing the right minerals, remember that the bonding type determines bioavailability, the particle size, density and synergy between two sources enhances efficacy. The combination of organic and hydroxy trace minerals presents a revolutionary solution, offering precise trace element delivery and enhanced absorption, ultimately leading to optimal animal performance. In a world with ever-increasing challenges, these innovations provide a beacon of hope for the future of animal nutrition.

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# Mycoplasma: a never ending story in commercial poultry production

WOUTER DEPONDT, HUVEPHARMA, BULGARIA

*Mycoplasma* spp., identified up to now, (*M. gallisepticum*, *M. synoviae*, *M. iowae*) have been negatively affecting commercial poultry production for many years. The poultry industry and scientific community have made great strides in increasing the knowledge of the biology of these bacteria since they were first identified, but much is still to be revealed.

Mycoplasmas are small bacteria that lack a cell wall and certain metabolic pathways, both important targets for antibiotics. This is important to remember when choosing an antibiotic for control or treatment. Mycoplasmas were often considered to have a limited survival time outside the host.

However, some recent data show that animal mycoplasma species can survive for variable time periods outside the host, depending on the species, moisture, pH, presence of organic material and temperature. Some species have been shown to survive for 50-150 days at 4 °C in liquid media and from 7-14 days under dry conditions at 30 °C. Recently *M. synoviae* was shown to survive for nine days on synthetic materials.

The presence of persistently infected populations (backyard and wild birds) ensures that the biosecurity of surrounding flocks is continually challenged. These are important reasons why mycoplasma is still a major problem in the poultry industry. Secondly, antigenic variation and intracellular location of *Mycoplasma* spp. help the pathogen to evade the immunity system, leading to chronic infected animals and the fact that vaccines can only help, in the best case scenario, to reduce production losses and clinical symptoms.

The current approaches to control avian mycoplasma include continuous surveillance and quarantine measures, medication, vaccination and/or elimination of infected breeding flocks. To maintain mycoplasma-free flocks it is important to use only negative replacements, use single age farms (isolated if possible), depopulate and disinfect between flocks, maintain good biosecurity and set up a monitoring program.

Elimination of a positive breeder flock is the surest way to eliminate the shed of *M. gallisepticum* or *synoviae*, but this is not always feasible. Positive flocks should be isolated as much as possible; the eggs and chicks should also be segregated. Once a flock is infected or vaccines are unable to control mycoplasma, antibiotics are still required.

Pathogen		Number of isolates	MIC <sub>50</sub>	MIC <sub>90</sub>	Range
<i>Mycoplasma gallisepticum</i>	Tiamulin	20	0.001	0.025	0.0005-0.25
	Tylosin	7	0.015	0.015	0.0078->0.015
	Tilmicosin	5	0.12	0.12	0.12
<i>Mycoplasma synoviae</i>	Tiamulin	28	0.1	0.25	0.05-0.5
	Tylosin	10	0.015	0.12	0.15->0.5
	Tilmicosin	17	0.03	0.125	0.015->0.125

Table 1. Antibiotic susceptibility surveys showing limited resistance to *M. gallisepticum* and *synoviae* for tylosin (Pharmasin), tilmicosin (Tilmovet) and tiamulin (Vetmulin).

The clinical outcome of this antibiotic treatment depends on three crucial steps in the decision process of the veterinary surgeon: Selecting the correct antimicrobial, considering: Known or suspected antimicrobial susceptibility of the pathogen.

Ability of the antimicrobial to sufficiently reach the site of infection.

- Other features.
- Correct dosing and administration.
- Product choice, with a bioavailable/potent active compound and an appropriate formulation.

### Selecting the correct antimicrobial

The susceptibility of a pathogen can be based upon susceptibility testing, which is, unfortunately, rather complicated and time demanding for *Mycoplasma* spp. For this reason, the clinical experience of the veterinarian, farm history and antibiotic susceptibility surveys (Table. 1) are also of importance.

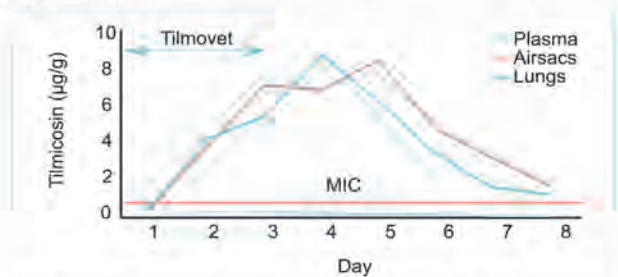


Fig. 1. Pharmacokinetic behaviour of Tilmovet 250mg/ml after three days of treatment (day 1, day 2 and day 3) at 15mg/kg bodyweight. Levels in lung and airsacs stay above MIC 0 for at least eight days.

In addition to the susceptibility outcome, the antibiotic needs to reach sufficient concentrations in the respiratory tract and preferably also be present intracellularly (as mycoplasmas are located intracellularly). Pharmasin (tylosin), Tilmovet (tilmicosin) and Vetmulin (tiamulin) not only deliver high concentrations in the respiratory tract (Fig. 1), but also show beneficial intracellular/extracellular ratios of up to 75.

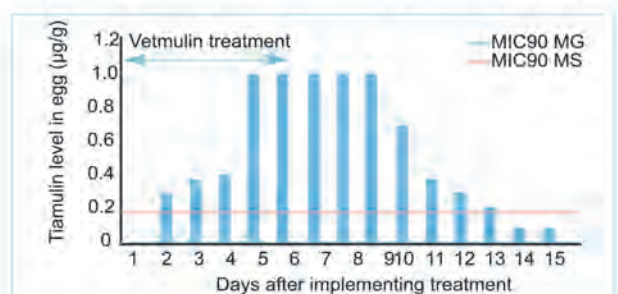


Fig. 2. Concentration of tiamulin (Vetmulin) in the egg, during and after treatment.

Other features are also of importance when choosing the right antimicrobial to treat and control mycoplasma. Some products are better suitable for layers (Pharmasin), whilst others are more suited for breeders (Vetmulin) or for start-up (Tilmovet). Pharmasin, for example, does not have any negative effect on water intake, is very safe and with no known incompatibilities. Moreover, Pharmasin has a zero

withdrawal time for eggs in the EU, which makes the product ideal for the control and treatment of *Mycoplasma* spp. in layers. Vetmulin has a very unique feature: it ensures that concentrations in the eggs remain above the MIC90 for both *M. gallisepticum* and *M. synoviae* for several days, which is the reason why excellent results are achieved to control vertical transmission in breeder stocks in the field. The slow elimination phase of Tilmovet (Fig. 1) results in prolonged continuous tissue concentrations, making it less dependent on variable feed and water intake. Some antibiotics are known to have a negative influence on the immunity build-up, possibly interfering with vaccination response. On the contrary, the macrolides and specifically Tilmovet, have been shown to have a positive effect, making the product ideal for start-up and for pullets.

### Correct dosing and administration

After choosing the ideal antibiotic based upon susceptibility, pharmacokinetic behaviour and additional features, a correct administration is features, a correct administration is also of critical importance. Dosing should be done in grams per kilogram live body weight, independently of the application form. By doing so, misdosing will be avoided by taking into account the changing ratio of body weight/water; or feed intake, which is especially important in fast growing birds, such as broilers. Correct dosing in mg/kg body weight can easily be achieved with the Huvepharma Dose Calculator, freely available for iPhone and Android mobile devices.

In addition to the dosage per kg body weight, the dosage regimen is also of importance. A daily dose can be administered in different ways, either continuously or as a pulse. For time-dependent antimicrobials, such as Pharmasin (tylosin), Tilmovet (tilmicosin) and Vetmulin (tiamulin), the efficacy is determined by the period during which the bacteria are exposed to the antimicrobial at a concentration just above the MIC (T>MIC).

The most important parameter is the time period in which the concentration is higher than the MIC (T>MIC) at the site of infection. For this reason, the highest efficacy can be expected if these antimicrobials are administered continuously over 24 hours, for a sufficiently long period.

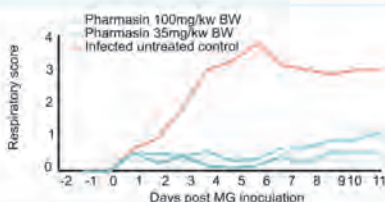


Fig. 4. Mean respiratory score of *M. gallisepticum* challenge study with different dose levels of Pharmasin.

Concentration dependent	Apramycin, Paromomycin, Polymyxins	Maximise concentrations	C <sub>max</sub> /MIC
Time dependent	Tylosin, Tilmicosin, Tiamulin, Penicillins, Cephalosporins	Maximise duration of exposure	T>MIC
Mixed properties	Doxycycline, Quinolones, Florfenicol	Maximise amount of drug	24h-AUC/MIC

Table 2. Classification of antibiotics based upon their ideal dosing regimen.

The most important parameter is the time period in which the concentration is higher than the MIC (T>MIC) at the site of infection. For this reason, the highest efficacy can be expected if these antimicrobials are administered continuously over 24 hours, for a sufficiently long period. For concentration-dependent antibiotics, for example apramycin, a high concentration (C<sub>max</sub>) several times higher than the MIC of the targeted pathogen at the site of infection, will result in a faster and better response. For these antimicrobials, the most important parameter is the C<sub>max</sub>/MIC.

Consequently, a pulse medication will work better for these types of antimicrobials. *Mycoplasma* efficacy studies with Pharmasin, Vetmulin and Tilmovet indicate that therapeutic levels for a minimum of five days are appropriate. For this reason, a minimum treatment period of five days is recommended for Pharmasin and Vetmulin and of three days for Tilmovet. Depending on the risk of exposure, the treatment can be repeated every four weeks (low risk) up to every two weeks (high risk, like multi-age farms).

### Product choice

The formulation of the veterinary product will also influence the clinical outcome of an antimicrobial treatment. Stability, solubility and bioavailability of the active compound can be optimised by the choice of a correct product (brand). The absorption and distribution rate of a product in the body has a direct and critical impact on the clinical outcome of the treatment.

Often, veterinary products containing the same amount of active substance are considered as equivalent. However, the behaviour of a pharmaceutical product depends on several product features such as:

- Quality of the active (crystal form and size, impurities, presence of undesired substances such as heavy metals).
- Choice and quality of the salt (for example: tartrate, phosphate or hyclate).
- Formulation: used excipients and type of formulation (simple mixture, carrier or granulated).

In vivo studies, although time consuming and expensive, can confirm the efficacy of the products at different dosing regimens after challenge with the pathogen.

Results from these trials allow for a more cost-efficient, more efficacious and more sustainable use of products, which is especially important when justifying antimicrobial therapy. The efficacy of Pharmasin to control mycoplasma was tested at different dosing levels (Fig. 4). Broilers (n=45) were kept in isolators and challenged with a *M. gallisepticum* isolate (Italy, 2012, MIC value <0.015µg/ml).

The treated groups were given 35 and 100mg tylosin/kg body weight respectively for five days, starting one day post-challenge. The control group was infected but did not receive treatment. Monitored parameters were, amongst others, clinical scoring of respiratory disease, macroscopic scoring of the respiratory tract, weight gain, mortality and *M. gallisepticum* recovery from trachea, airsacs and lungs.

Both dosing levels were efficacious in protecting against the detrimental consequences of *M. gallisepticum* infection as indicated by the difference with the infected untreated control group. Despite fine-tuning of management, vaccination schemes, feeding, housing and biosecurity, animals can still become diseased. This is why antibiotics are, and will stay, essential for protecting animal health and welfare as well as the safe production of food of animal origin. However, a responsible and wise use of medicines is mandatory to safeguard the use of veterinary medicines in the long term. This means targeting the pathogen with the right product and administering it correctly.

One such major pathogen is mycoplasma, for which Huvepharma can offer the right tools and the right advice based upon extensive field experience and product specific efficacy trials.

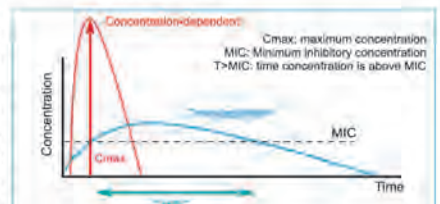


Fig. 3. Two types of antibiotics with an ideal pharmacokinetic profile in regards to efficacy.

To know more, please contact Huvepharma technical team



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\*1 FCR point represent third/last decimal point of 1000

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# ANIMAL FEED SUPPLEMENT



# BETAINE HCL

## Properties

ITEM	RESULT
Appearance	White Powder
Assay %	98 – 100.5
Loss on drying %	Max 1.0
<b>Microbiology</b>	
Total plate count (cfu/gm)	Max 1000
Yeast and Mold (cfu/gm)	Max 100
Salmonella	Negative
E.Coli	Negative
Salmonella	Negative



<b>Dosage</b>	250g to 500g per ton of feed
<b>Packing</b>	25 kg Bag
<b>Self life</b>	2 year
<b>Storage</b>	Store at room temperature, away from heat and direct light.




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# Telangana Poultry Federation conducts its AGM in Hyderabad

The Telangana Poultry Federation conducted its annual general body meeting at Hotel Kinara Grand, Vanasthalipuram, Hyderabad, on October 6th. Dr. Balaswamy, president of NECPC, briefed the audience about the egg consumption. “The meeting began with a welcome address by Mr. K. Mohan Reddy, president of TPF, who provided an update on the activities of the TPF, including a recent meeting with the Chief Minister, where they discussed the challenges faced by Telangana poultry farmers. Mr. Mohan Reddy also informed the minister about the availability crisis of maize that farmers have been facing in the past year. He praised the single window cull bird formula, stating that they observed that it has 80% success rate.” Vice President Mr. V.N. Reddy spoke about the single window system for cull birds and the Indian government's bio-diesel policy, which uses maize, resulting in a scarcity of feed for poultry farmers. “Secretary of the Telangana Poultry Federation, Mr. P. Venkat Rao, informed that every regional committee is regularly conducting EC meetings in coordination with TPF. He also mentioned that the Amberpet office will be fully operational by October 2024. During the meeting with the Chief Minister, they requested the import of maize, and TPF is continuously following up on the issue. “Mr. Venkat Rao thanked the associate members for streamlining the procedure for the single window cull bird issue and assured that they would meet the Chief Minister again next month along with the Association members.” Mr. Abhishek Reddy, treasurer of TPF, provided data on the cull bird rate for the farmers and presented the balance sheet for the FY 2023-24, which was distributed among the farmers. The AGM concluded, followed by lunch. 





## Evonik Launches SpeoCare™ T60, , a groundbreaking tributyrin feed material which will revolutionize Poultry Nutrition in India

- SpeoCare™ T60 is meticulously crafted to support gut integrity and enhance animal performance, featuring an impressive content of over 60% tributyrin
- Derived from butyric acid and glycerol through advanced esterification technology, delivers a targeted release of butyric acid
- SpeoCare™ T60 promotes epithelial cell growth, improves nutrient absorption and boosts animal resistance to gut health challenges

Evonik, a global leader in specialty chemicals and nutrition solutions, announces the official launch of SpeoCare™ T60 in India, a groundbreaking tributyrin feed material designed to enhance poultry gut health and performance.

Gut health plays a pivotal role in the poultry industry, influencing feed utilization and growth performance. In India's tropical climate, poultry face significant challenges such as heat stress, coccidiosis, colibacillosis, and other intestinal diseases. Maintaining intestinal integrity and improving nutrient absorption are vital for sustaining healthy and productive poultry flocks.

SpeoCare™ T60 is a result of advanced esterification technology, combining butyric acid and glycerol to deliver a targeted release of tributyrin. With a high content of over 60% tributyrin, SpeoCare™ T60 promotes epithelial cell growth, enhances nutrient absorption, and boosts resistance to gut health challenges. This innovative formulation ensures that



poultry not only survive but thrive, leading to enhanced productivity and overall well-being.

The launch events for SpeoCare™ T60 were held at two venues in India. The first event took place on June 22<sup>nd</sup>, 2024, at the Terrace Hall, Taj Chandigarh, setting the stage for engaging discussions among industry experts, veterinarians, and poultry producers. Followed closely by the event on June 26<sup>th</sup>, 2024, at AVASA Hotels in Hyderabad, both occasions provided platforms for detailed presentations and discussions on SpeoCare™ T60's benefits and applications in poultry nutrition.





The overwhelming response from attendees highlighted the industry's growing interest in innovative solutions like SpeoCare™ T60. Poultry production experts anticipate significant benefits for poultry health and productivity across India, highlighting a readiness to adopt cutting-edge advancements in livestock management.


As Evonik continues to pioneer advancements in animal nutrition science, we remain committed to pushing boundaries and enhancing the future of poultry production.

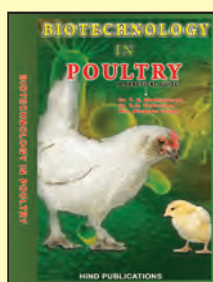
For more information about SpeoCare™ T60 and Evonik's solutions in animal nutrition, please visit Evonik Animal Nutrition.

### Company Information

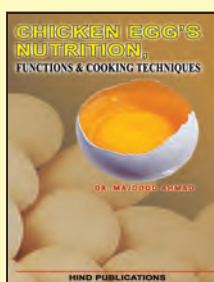
Evonik is one of the world leaders in specialty chemicals. The company is active in more than 100 countries around the world. In fiscal 2023, Evonik generated sales of more than •15.3 billion and an operating profit (adjusted EBITDA) of •1.66 billion. Evonik goes far beyond chemistry to create innovative, profitable, and sustainable solutions for customers.

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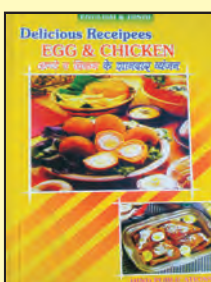
The focus of the business of the Nutrition & Care division is on health and quality of life. It develops differentiated solutions for active pharmaceutical ingredients, medical devices, nutrition for humans and animals, personal care, cosmetics, and household cleaning. In these resilient end markets, the division generated sales of •3.61 billion in 2023 with more than 5,600 employees 



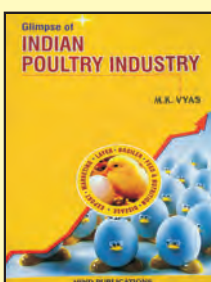
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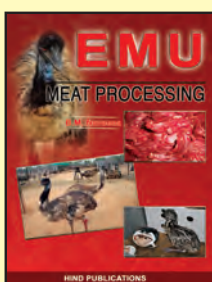
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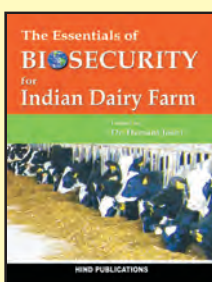
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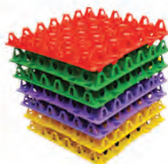
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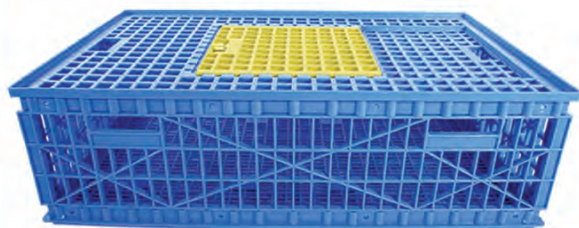
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## Protecting Poultry During the Monsoon: A Comprehensive Guide to Management Strategies for Optimal Health and Safety

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### Mastering Monsoon Management: Unlocking Peak Efficiency

The monsoon season introduces challenges like high humidity and temperature fluctuations, which promote the growth of pathogenic organisms such as bacteria, viruses, fungi, parasites, and vectors like flies and mosquitoes. To maintain optimal bird health and production efficiency, it is crucial to implement the following measures:

**1. Sanitation:** Regularly clean and disinfect poultry houses to reduce pathogen levels and prevent disease outbreaks.

**2. Ventilation:** Improve ventilation systems to control humidity and temperature, ensuring a dry and comfortable environment.

**3. Water Management:** Keep water sources clean and avoid stagnation to prevent contamination and reduce mosquito breeding sites.

**4. Feed Management:** Store feed in dry, sealed containers to prevent mold growth and maintain nutritional quality.

**5. Health Monitoring:** Implement routine health checks and vaccinations to protect against common monsoon-related diseases.

**6. Pest Control:** Employ effective measures to control flies and mosquitoes, such as insecticides and physical barriers.

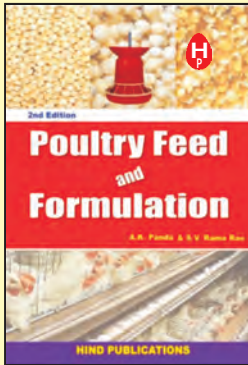
The poultry industry is rapidly growing, providing jobs, income, and protein to both urban and rural areas, and also offering manure for crops. However, issues like bird handling, housing, rearing, and disease control pose challenges. Monsoon rains increase humidity and decrease temperatures, which can degrade feed quality and quantity. Wind speed also affects disease outbreaks. Extreme weather conditions, whether cold or hot, stress birds, reducing egg production and weakening their immune systems.

### Common poultry diseases during the rainy season include

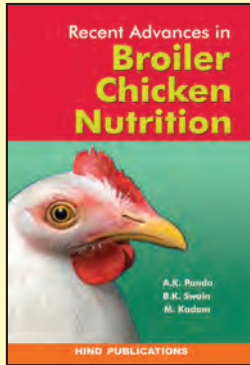
Fowl pox is a contagious poultry disease caused by a poxvirus, primarily spread by mosquitoes and other blood-feeding insects. It is more common during wet seasons when stagnant water fosters mosquito breeding and poor litter conditions lead to fly issues. The disease manifests as round, scabby lesions on the wattle, face, comb, and sometimes the legs, and can also affect the mouth and windpipe, potentially causing suffocation. Lesions around the eyes may result in temporary or permanent blindness. Effective prevention includes controlling mosquito populations, maintaining clean litter, and vaccinating poultry.

Fowl cholera, caused by the bacterium *Pasteurella multocida*, affects poultry over six weeks old and is highly contagious, especially during the rainy season when wet litter promotes bacterial growth.

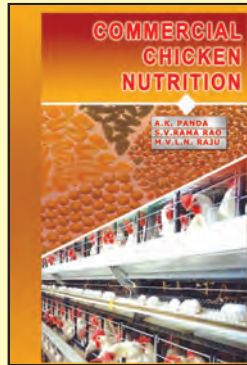
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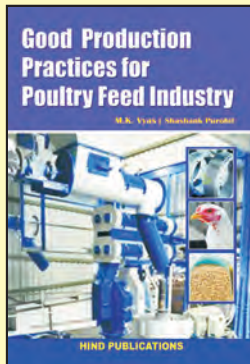
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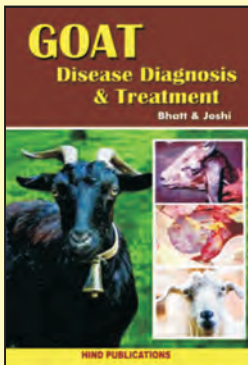
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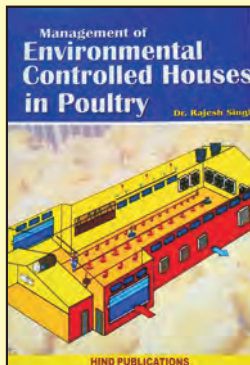
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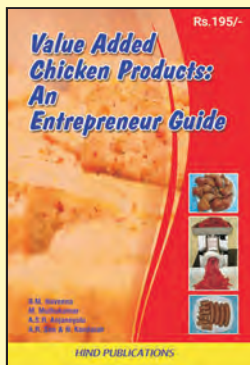
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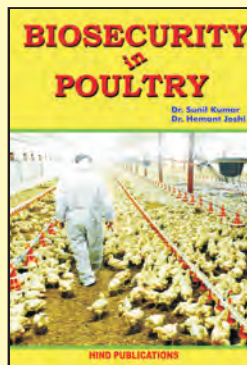
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Acute cases may result in sudden death without warning, while chronic cases present symptoms like yellow, green, or gray diarrhea, loss of appetite, labored breathing, drooping wings and tail feathers, ruffled feathers, and swelling in leg joints, sinuses, wattles, and footpads

Salmonellosis, colibacillosis, and pullorum disease (bacillary white diarrhea) are bacterial infections that affect poultry of all ages, especially in farms with poor sanitation and unchecked wet litter. These diseases impact the digestive system, causing severe diarrhea, loss of appetite, depression, and emaciation. In chicks, omphalitis and white pasty diarrhea (in pullorum disease) are common, while affected birds may also exhibit huddling behavior and labored breathing.

Aspergillosis, caused by *Aspergillus fumigatus*, thrives in high humidity conditions typical of the rainy season, which dampens feed and litter and encourages fungal growth. Birds inhale the fungal spores, leading to respiratory problems and lung lesions. The disease presents in two forms: acute, common in young chicks, with sudden onset, high mortality, and symptoms such as lethargy, depression, loss of appetite, breathing difficulty, and cyanosis; and chronic, affecting older birds with gradual onset over weeks or months, showing symptoms like weight loss, decreased appetite, respiratory issues, and altered vocalization

Coccidiosis, caused by the protozoan *Eimeria spp.*, is an intestinal parasitic infection that leads to severe intestinal damage. It is common in poultry and game birds

during the rainy season when wet litter and high temperatures promote the sporulation of the parasite's oocysts. Clinical signs include bloody feces, ruffled feathers, anemia, lethargy, severe diarrhea, and high mortality. Affected birds may also experience reduced growth, feed and water intake, weight loss, and lower egg production, with survivors often facing long-term performance issues

### **Housing Management for Poultry During Monsoon**

Proper maintenance of poultry housing is essential to minimize climate-related stress and health issues. Before the monsoon season, inspect the roof and walls for any leaks or holes and repair them immediately. Ensure that the drainage ditch around the shed is clear to prevent waterlogging. The roof should extend at least 3 to 4 feet beyond the sides of the shed to prevent rainwater from entering. Cover the side walls of the empty shed with well-maintained polythene curtains that can be adjusted according to ammonia levels or rain intensity. Poor curtain management can lead to inadequate ventilation and ammonia buildup, which may cause digestive problems, abnormal respiration, and a higher risk of ascites. During the day, keep a 1-2 foot opening at the top of the side curtains to ventilate ammonia and other gases. Maintain a clean 10-foot perimeter around the shed, free of bushes and grass, to prevent waterlogging and reduce the presence of mosquitoes and flies. Regularly spray insecticides like bleaching powder and formalin (3-5%) to control insect populations and prevent disease transmission.

### **Litter Management in Poultry Housing During Monsoon**

Effective litter management is crucial during the monsoon to maintain optimal conditions in poultry housing. Good litter should absorb moisture when the surface is wet and the air is humid, and release moisture when the air dries. Ideally, litter moisture content should be maintained between 25% and 30%. Moisture levels dropping to around 20% can cause excessive dust, while levels rising to about 40% can lead to wet, caked litter, which is undesirable. Poor litter management can result in rapid microbial growth, leading to infections that cause foot irritation, cracking, and infection. High moisture also contributes to ammonia buildup, which can damage the respiratory tract and increase the risk of infections. Although the maximum permissible ammonia level in litter is 25 ppm, irritation can begin at concentrations as low as 6 ppm, and reduced animal performance may occur at 11 ppm. Therefore, it is essential to keep ammonia levels as low as possible.

### **Moisture Control and Overall Maintenance for Poultry Housing**

#### **Moisture Control**

**Check Litter Moisture:** Regularly inspect litter moisture by compressing a sample in your hand. If it forms crevices and falls apart, moisture is optimal. If it forms a cohesive ball, it is too wet; if it crumbles easily, it is too dry.

**Excess Moisture:** If moisture exceeds 40%, dispose of the wet, caked litter immediately and replace it with fresh material.

**Litter Racking:** Rack the litter twice daily to prevent caking.

**Reduce Moisture:** Add 1 kg of slaked lime and 150 g of bleaching powder per 100 ft<sup>2</sup> of floor area to help control moisture.

**Ventilation:** Use ceiling fans at a ratio of one fan per 300 birds in deep litter broiler farms to improve air circulation.

#### **Overall Maintenance**

**Mold Prevention:** Treat new litter with a 2% aqueous solution of copper sulfate to prevent mold growth.

**Inspect and Maintain:** Regularly check and repair the poultry house roof and walls to prevent leaks and ensure proper drainage around the shed.

**Ventilation:** Use polythene curtains on the side walls, adjusting them based on ammonia levels and rain intensity to allow adequate ventilation.

**Perimeter Cleanliness:** Maintain a clean 10-foot perimeter around the shed, free of bushes and grasses, to prevent waterlogging and insect breeding.

**Insect Control:** Apply insecticides, bleaching powder, and formalin spray (3-5%) outside the shed to manage insect populations effectively.

#### **Feed Management**

**1. Diet Formulation:** Adjust feed formulations to ensure all essential nutrients are included, considering that high temperatures and humidity may reduce bird feed intake.

**2. Storage:** Avoid long-term feed storage, as high humidity shortens shelf life.

**3. Feed Condition:** Prevent feed from heating up or forming lumps, which can indicate decomposition and mold growth.

**4. Transport:** Ensure feed transport vehicles are leak-proof and maintain a 4-5 day extra feed supply to minimize frequent transportation during rainy days.

# BOOKS FOR SALE

**5. Storage:** Use a Dunnage system for feed bags. Stack them on wooden or bamboo pallets at least 1 foot above the floor and away from side walls to avoid moisture contact and facilitate air circulation.

**6. Feed Distribution:** Implement a FIFO (First In, First Out) system for distributing feed.

**7. Feed Troughs:** Avoid wooden feed troughs to prevent mold growth and toxin production. Use plastic troughs for easier cleaning and disinfection.

**8. Daily Cleaning:** Clean feeders daily with a dry cloth to maintain hygiene.

## Water Management

**1. Clean Water Supply:** Ensure a clean and safe water supply, as it is crucial for optimal flock performance.


**2. Sanitization:** Regularly sanitize water to prevent contamination, especially during the rainy season when E. coli and other coliform levels are higher.

**3. Sanitizer Use:** Use water sanitizers with adequate contact time and correct dosing to ensure effectiveness.

**4. Water Acidification:** Acidify drinking water to lower its pH to around 5.0 to 5.5, which helps inhibit bacterial growth. Poultry prefer water with a pH of 6 to 6.8.

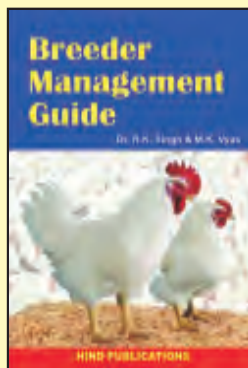
**5. Daily Cleaning:** Clean drinkers daily with detergents and bleaching powder to minimize water-borne diseases.

**6. Pipeline Maintenance:** Clean pipelines at least once a week to prevent biofilm formation.

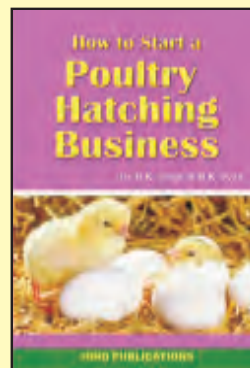
**7. ORP Monitoring:** Monitor Oxidation-Reduction Potential (ORP) to assess sanitizer effectiveness. An ORP value above 650 mV indicates good water quality and effective sanitation with 2-4 ppm free chlorine. 



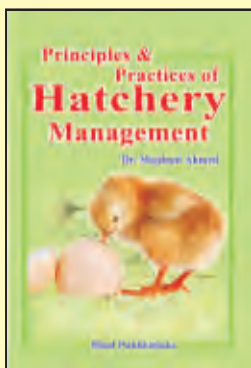
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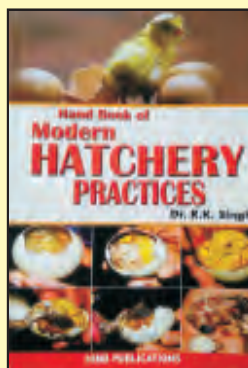
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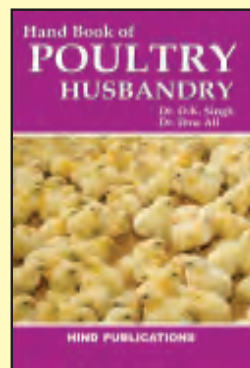
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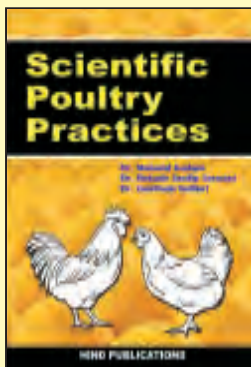
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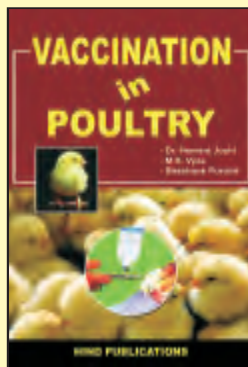
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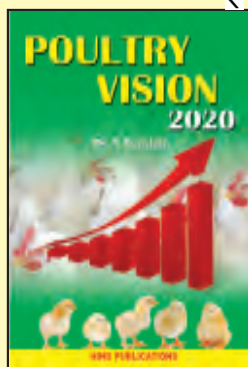
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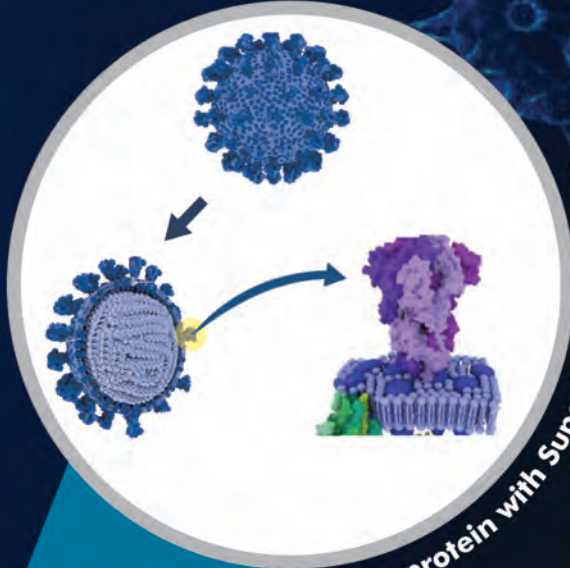
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