

Poultry Fortune

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September 2022

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- Editor



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Utilize only vehicles that are suitable for the task when moving chickens

After rice and wheat, corn is India's third-most important field crop. Accounting for 10% of total food grain production in the country, India ranks sixth largest in corn production and fourth largest in terms of acreage in the world. Globally Corn is referred as 'Queen of Cereals' due to many positive attributes in agricultural production.

Mycotoxin is hidden enemy for poultry farming. Mycotoxin became worldwide problem due to high incidence and level of occurrence in animal feed. According to the FAO, approximately 25% of the world's agricultural products are contaminated with mycotoxins and this contamination may be due to saprophytic fungi before harvest of these crops.



Dear Readers,

The September 2022 issue of **Poultry Fortune** is in your hands. In the news section, you may find news about

Ventri Biologicals, a group company of Venkateshwara Hatcheries,

organised a series of technical meetings in North India for breeders at Jind, Panipat and Kaithal and for layers at Krukshetra. Deepak Khosla, General Manager – Marketing, Venkateshwara Hatcheries Group, addressed the gathering over challenges the poultry industry facing related like poultry immunity, health and production. The emergence and re-emergence of diseases will continue to be a major challenge and the strategic future of the industry. Disease control, high production, product quality and reasonable production costs have been the recent main goals of poultry industry. These endeavors will include the launch of programs to control infectious diseases in broiler breeders influencing the broiler performance. Large scale outcome research data in > 20 million broiler chicks, conducted across the country were discussed. Improvement in the performance with reduced incidence of IBD leading to economic benefits were seen with VIPx hatchery vaccination.

Vets In Poultry organised Chicken Cooking Competition & Chicken Festival in July 2022 in Pune. This event was one of its kind because during it, only chicken and eggs cousins were allowed to be prepared and consumed. The prime objective of the competition was to offer a professional platform to individuals and students who want

to display their skills and creative talent and get opportunities to learn and share experiences in the competitive environment. The event was attended by contestants, veterinary animal health companies employees, distributors, poultry farmers and other industry associates. Dr Ajay Deshpande, President of Vets In Poultry, expressed that the poultry industry plays a vital role in fighting against protein energy malnutrition. There is a massive gap between per capita consumption and actual recommendation by the National Institute of Nutrition in India and the need to create more awareness to enhance chicken and egg consumption. His speech expressed the health benefits of white meat vs. red meat.

Cargill's Provimi Animal Nutrition India organized a series of Technical Seminars on the topic **Postbiotics and Gut Health Management** for poultry fraternity in Karnal, Hyderabad and Coimbatore. The seminar series was organized under the banner **Cargill Connect** with the objective to educate the Indian poultry fraternity on a new concept of postbiotics. Postbiotics are a next generation gut health solution with consistent and promising results from Diamond-V, a Cargill entity, manufactured with a proprietary fermentation technology.

Alltech Biotechnology conducted corn crop quality assessment survey by collecting samples from field, farms and mandis in several districts of Bihar, one of the major Rabi corn producing states. After rice and wheat, corn is India's third-most important field crop. Accounting for 10% of total food grain production in the country, India ranks sixth largest in corn production and fourth largest in terms of acreage in the world. The ever-growing

Contd on next page



Poultry Fortune

Our Mission

Poultry Fortune will strive to be the reliable source of information to poultry industry in India.

PF will give its opinion and suggest the industry what is needed in the interest of the stakeholders of the industry.

PF will strive to be The Forum to the Stakeholders of the industry for development and self-regulation.

PF will recognize the efforts and contribution of individuals, institutions and organizations for the development of poultry industry in the country through annual Awards presentation.

PF will strive to maintain quality and standards at all times.

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human population, rising income and consequent growth in meat consumption have demanded more cereal production. The ability of new corn varieties to produce higher yield and their capacity to grow in different seasons has led farmer's interest to divert field for corn production rather than other cereal grains in many parts of the country. Globally Corn is referred as 'Queen of Cereals' due to many positive attributes in agricultural production. Dr Aman Sayed, Managing Director – India, Regional Director – South Asia, Alltech Biotechnology said that "The high mould count is alarming for producers and survey enables them to foresee the challenge of mycotoxins in their feed" and 'producers are advised to pay attention to mould and mycotoxin management with the help of quality solutions'.

Srinivasa Farms opened its sales office at Lucknow, Uttar Pradesh to further the partnership and commitment to the farmers of the region. Its MD, Suresh Chitturi has promised to setup a laboratory, strengthen the technical team and to organise good quality feed for the farmers. After the Inauguration, the farmers had a discussion with Suresh. Points discussed by the farmers with the MD included future of the industry, high feed cost due to increasing ingredient cost, low realisation prices of eggs and various factors influencing the farmers. Suresh shared with the farmers how Hy-Line W 80i will save them upto 0.50 paise per egg, i.e upto Rs 225 / bird.

Stallen South Asia celebrated Silver Jubilee and the company will be launching three new vaccines along with a range of bio-security products. Within six months, Stallen will also start production at its new pharmaceutical factory that is constructed with the US-FDA standards and to be EU-GMP compliant with a view to export veterinary drugs world over.

Glamac International Pvt Ltd conducted Annual Conference at Chennai on 5 August 2022 and celebrated its 5th Anniversary with a Sales and Distributors Meet at Cordelia Cruises, Chennai from 6 to 8 August 2022. This was an event to not only celebrate the successful journey of the company, but also to celebrate the motivation, warmth and optimism of the channel partners, distributors and employees who have contributed to the growth of the company over the past five years. Mr Abir Mukherjee, Managing Director, Glamac, said that, 'Courage to Reach Horizon' and particularly the strength of the team Glamac to make it really BIG. He further explained the core strength of Glamac and what makes it different from competitors.

In the Articles section – Breeder Management: Importance of Uniformity and Grading, authored by Dr B.C. Dutta, Poultry Consultant, said that Reaching the Peak Egg Production on time, sustaining Peak for 9 Weeks, Post Peak Egg production and to get highest Hatchability during peak and maintaining optimum hatchability post peak are the critical task for any breeder farmer to optimize the operations and associated profitability. Among all the factors that can influence the breeder performance including hatchability, the most significant one is flock uniformity other than Nutrition, Health Management, Biosecurity and husbandry practices.

Another article titled **Wet Litter at Poultry Farms: Causes & Impact**, authored by Kemin Industries South Asia, discussed that Wet dropping provides the producer an invaluable insight into overall gut health of the birds. Wet litter is commonly used to describe nonspecific disease of gastrointestinal and urinary

tract. With disease onset, performance problems like increased feed conversion ratio, poor body weight gain, increase in marketing age, predisposition to other secondary bacterial infections and condemnation losses – start precipitating one after the other. Wet litter is associated with altered faecal water content, in short physiological diarrhea.

Article titled **Mycotoxins, A big Threat to Poultry: Prevention and Control**, authored by Dr Mahesh Rajurkar, Product & Techno-Commercial Manager and Dr Ramdas Kambale, CEO & Board Member, GLOCREST Pharmaceutical Pvt Ltd, informed that Mycotoxin is hidden enemy for poultry farming. Mycotoxin became worldwide problem due to high incidence and level of occurrence in animal feed. Increase in feed cost has just aggravated this problem. Mycotoxin has high potential risk to public health as well. According to the FAO, **approximately 25% of the world's agricultural products are contaminated with mycotoxins** and this contamination may be due to saprophytic fungi before harvest of these crops.

Another article titled **Handling and Transportation of Broilers for Marketing**, authored by Dr D. Rambabu, Associate Professor, Dept. of Poultry Science and Dr L. Gopala, Assistant Professor & Head, Dept. of Veterinary Microbiology, College of Veterinary Science, Korutla, Jagtial District, Telangana, said that it is necessary to handle and move poultry in a specific manner. This entails handling chicken securely, holding them up with both hands, and making sure there is enough room and ventilation. Utilize only vehicles that are suitable for the task when moving chickens. For trips longer than 65 kms and lasting up to 8 hours, the transporter must be authorised to carry poultry (different rules apply for animals being transported for longer than eight hours). Drivers and attendants who transport farmed poultry more than 65 kilo metres must be in possession of a current certificate of competence.

We get photographs along with news and happenings in the industry for publication in the magazine, but at times we receive them without photo captions, names of persons in the photographs. As a responsible publisher, we feel embarrassed when news senders do not care to send photo captions inspite of our appeal for captions. Readers cannot understand who is who of the photos. We request the news and photos senders to kindly make a note of it and cooperate.

Results in Layer and Broiler farming can be achieved as per specifications when the breeder guidelines are followed. Farmers and Integrators have to give sufficient time and attention to farm management and check the developments there time to time to ensure results. When you invest your hard earned money into it, a little more care and attention can prevent losses and help in profitable farming all the time.

Readers are invited to send their views and comments on the news, special feature and articles published in the magazine which would be published under "Readers Column". Time to time, we shall try to update you on various aspects of Poultry sector. Keep reading the magazine Poultry Fortune regularly and update yourself. Wish you all fruitful results in your efforts.

M.A.Nazeer
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Poultry Fortune

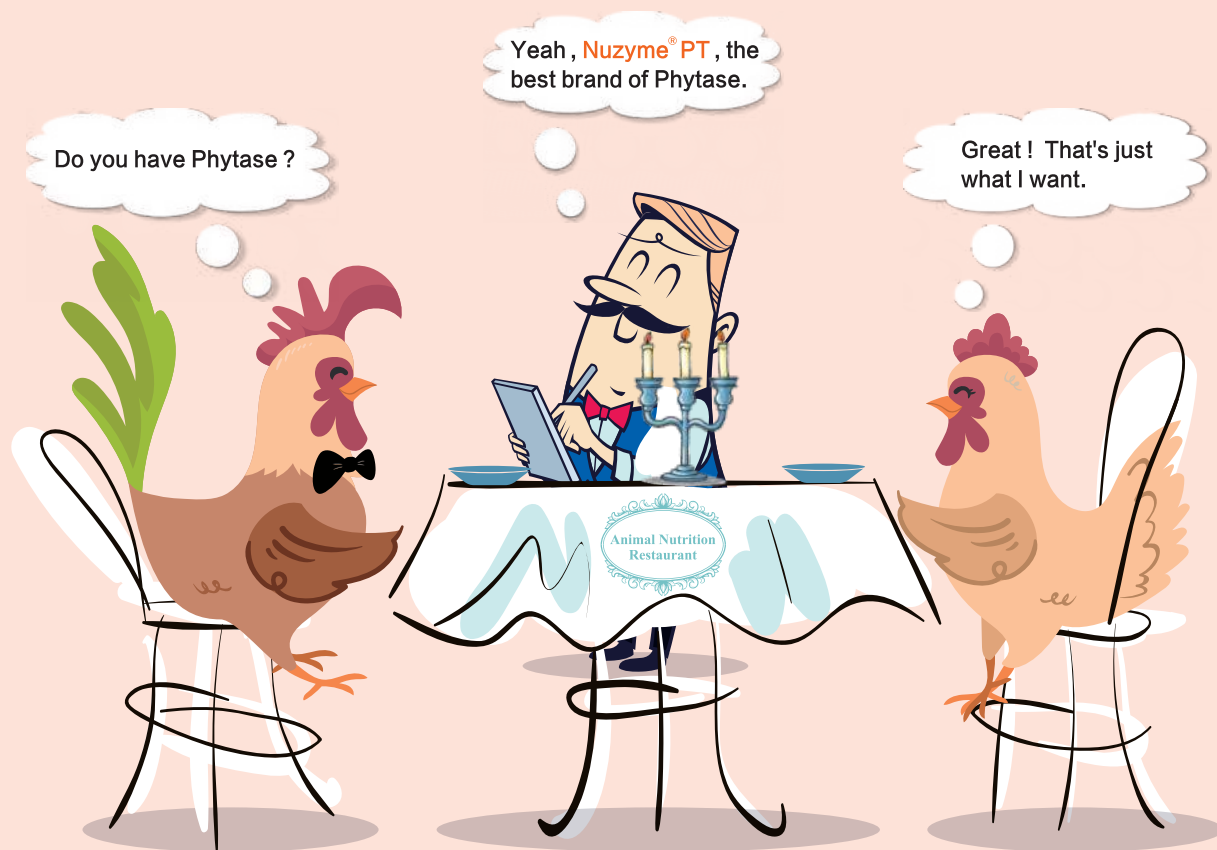


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Srinivasa Farms opens office at Lucknow, holds farmers meeting

Hyderabad: Mr Suresh Rayudu Chitturi, Managing Director, Srinivasa Farms and Venkat Rao, Business Head - Layer Business, inaugurated their Sales office at Lucknow at 114-B, Highway Plaza, Udayan II, Raebareli Road, Lucknow, Uttar Pradesh on 25 August 2022.

Srinivasa Farms opened this office to further the partnership and commitment to the Farmers of this region. Suresh has also promised to setup a laboratory, strengthen the technical team and organise good quality feed for our farmers.

Omkar Verma, General Manager is in charge of Uttar Pradesh, Bihar, Uttarakhand, West Bengal and Assam.

Prominent Farmers who attended inauguration & meeting afterwards.

Mr V.P. Singh, Dr Subhas Jaiswal, Mr Mohd Saif, Mr Omair Abbasi, Mr Mohd Aakif, Mr Mohd Nayaab, Mr Mohd Nazim and Mr Wasiul Hasan.



Suresh Chitturi inaugurating Srinivasa office at Lucknow, Uttar Pradesh and Venkat Rao, Dr Anuj, Santosh Pandey and Aamir Sohail accompany him.

After the Inauguration, the farmers had a discussion with Suresh. Points discussed included future of the industry, high feed cost due to increasing ingredient cost, low realisation prices of eggs and various factors influencing the farmers. Suresh then shared with the farmers how Hy-Line W 80i will save them upto 0.50 ps per egg. (i.e upto Rs. 225 / bird).

Existing Srinivasa Hy-Line Farmers shared how their decision to take this bird is supporting them even at these times by reducing production costs significantly:

1. Lower mortality during rearing (approx 2%) and laying period (approx. 6-7%).

2. Lower Feed intake upto 25 gms which is saving about 0.50 ps per egg compared to competitor breeds.

3. Dr Jaiswal shared one of the aspects he was impressed is the Superior Shell Quality of Srinivasa Hy-Line bird which were grown in peak summer, did not loose shell quality at the age of 100 weeks was very good and he decided to test the birds further to see when does the quality

degrade to the competitor bird he reared earlier. He was surprised that the shell quality was strong till 140 weeks (without moulting) and then started going down which he used to get at 60 weeks in the competitor bird.

4. Farmers who have Srinivasa's birds also shared how they get 97% saleable eggs (54 to 60 gms).

Suresh ended the meeting by asking the farmers to focus on maximising the performance, since there is no such thing as cheap feed cost anymore. Truly extracting the Genetic potential of W-80i is the only way to produce eggs at the lowest cost with the added bonus of getting highest saleable eggs with unmatched quality.



From left to right: Venkat Rao, Mohd. Saif, V.P. Singh, Dr Subhas Jaiswal, Mohd Aakif, Suresh Chitturi, Amarnath Patel, Dr Vinay Prasad, Wasiul Hasan, Mohd. Nayab, Omkar Verma and Dr Anuj Pratap Singh (Farmers & Srinivasa Team).



Sitting (left to right):

Dr Anuj Pratap Singh, Suresh Chitturi and Manek Ram

Standing (left to right): Lokesh Dubey, Sandeep Verma, Rajpal Rotela, Amir Sohail, Santosh Pandey, Amarnath Patel, Omkar Verma, Dr Vinay Prasad and Venkat Rao



Suresh Chitturi discussing with farmers and Srinivasa team

Sitting (left to right): Mohd Nayab, Mohd Nazim, Wasiul Hasan, Mohd Aakif, V.P. Singh, Suresh Chitturi, Dr Subhas Jaiswal, Mohd Saif, Venkat Rao, Omair Abbasi, Omkar Verma and Dr Anuj Pratap Singh

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Alltech's Corn Quality Assessment reveals high moisture and mould challenges

Bangalore: After rice and wheat, corn is India's third-most important field crop. Accounting for 10% of total food grain production in the country, India ranks sixth largest in corn production and fourth largest in terms of acreage in the world.

The ever-growing human population, rising income and consequent growth in meat consumption have demanded more cereal production. The ability of new corn varieties to produce higher yield and their capacity to grow in different seasons has led farmer's interest to divert field for corn production rather than other cereal grains in many parts of country. Globally corn is referred as "Queen of Cereals" due to many positive attributes in agricultural production.

Corn was initially cultivated during the "Kharif" season. An experiment with "Rabi" corn in Bihar and some southern states during the early 1960's brought higher yields and fewer pest attacks and thus gradually popularising cultivation of "Rabi" corn in many states.

Corn is principal energy source used in poultry diets because of its high metabolizable energy, palatability, presence of pigments and essential fatty acids.

In early May month, Alltech conducted corn crop quality assessment survey

by collecting samples from field, farms and mandis in several districts of Bihar, one of the major Rabi corn producing states.

The assessment revealed that the samples tested had an average moisture percentage of 15.56, with a relatively bigger corn size but an average crude protein of 7.46%. It is suggested that feed producers must check protein level of corn consignments and adjust feed formula to get desired protein levels in complete feed.

It was also observed that all samples were very high in mould count and producers must have a close watch during storage of current corn crop.

The mycotoxin testing revealed that 72% of samples were positive for all five mycotoxins tested - Aflatoxin, Ochratoxin, Fumonisin, T2, DON and Zearalenone. 100% samples were positive for four mycotoxins.

"The high mould count is alarming for producers and survey enables them to foresee the challenge of mycotoxins in their feed," said Dr Aman Sayed, Managing Director – India, Regional Director – South Asia. "Producers are advised to pay attention to mould and mycotoxin management with the help of quality solutions".

Emphasizing the fact that "multiple mycotoxins is a

reality", Dr Lokesh Gupta, Senior Regional Technical Manager – Poultry (South Asia) said, "Hundreds of mycotoxins have been identified and most animal feed stuffs and feed are likely to be contaminated with multiple mycotoxins under practical farming and storage conditions. Moulds

and mycotoxins are major threat for productivity even in best-run livestock production systems and their detection as well as control should be every feed producer's priority". He recommended Alltech® Rapiread™ for effective detection of various mycotoxins.

School children should not be provided eggs in mid-day meals: Tejaswini, sparks row

Tejaswini Ananth Kumar, who runs Adamya Chetana, a facility that prepares meals for school kids said eggs fall into the category of non-vegetarian food.

Bengaluru: Tejaswini, wife of former Union Minister, Late Ananth Kumar, has kicked up a storm by suggesting that school children should not be provided eggs in mid-day meals and the diet should be only vegetarian.

Tejaswini Ananth Kumar tweeted, "Why has our Karnataka govt decided to give eggs in mid-day meal? These are not the only source of nutrition. It is also exclusionary to many students who are vegetarians. Our policies are to be designed in such a way that every student has equal opportunity."

Her tweet came under heavy fire from many on social media. Also, defending children's right to nutritional food, a group of nutritionists, activists, researchers, doctors and citizens of Karnataka have written to Chief Secretary Vandana Sharma on Tuesday demanding a nutritional diet.

'Extend egg scheme to Classes 9, 10'

They have urged the authorities to include eggs in the diet. They urged the Chief Secretary to take steps to ensure the

nutritional entitlements of the schoolchildren under the National Food Security Act 2013 and provided for by directions by the Supreme Court.

"Inclusion of eggs in the mid-day meal has been a consistent demand of schoolchildren and their parents. The propagation of one's own religious practices is prohibited under the revised Guidelines 2017 in Mid Day Meal Scheme," they said in the letter to CS, adding, "No one should discriminate in any manner on the basis of religion, caste and creed, and should not use the programme for propagation of any religious practice. We urge that eggs served under the mid-day meals should be extended to Class 9 and 10."

Tejaswini also tweeted, "Have worked with hundreds of government school teachers and students in the area of mid-day meals for close to 20 years. If the govt wants to provide eggs they should be given as a take-home ration along with other food and fruits or chikkis to non-egg eaters."

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Vets In Poultry organises Innovative Chicken & Eggs Cooking Competition & Festival in Pune



Participants during Vets in Poultry Chicken & Eggs cooking competition & Festival held at Pune on July 23.

Pune: Vets In Poultry, an association based in Pune, has more than 1000 members actively working in Poultry Farming. Vets In Poultry association always put relentless efforts into promoting the health benefits of eggs and Chicken in an innovative and scientific way, and as a part of this journey team Vets In Poultry has organized Chicken Cooking Competition & Chicken Festival on 23 July 2022 at Krushna Sundar Lawns in Pune. This event was one of its kind because, during it, only chicken and eggs cousins were allowed to be prepared and consumed.

The prime objective of



the competition was to offer a professional platform to individuals and students who want to display their skills and creative talent and get opportunities to learn and share experiences in the competitive environment. This event was attended by contestants, Veterinary

Animal Health Company employees, distributors, poultry farmers and other industry associates.

Mr Devwrat Jategaonkar marked his presence as a Chief Guest and Judge for this event. He is a renowned Chef holding Guinness Book record and represented India in various culinary competitions across the globe. He also won the first Silver Medal for India in 2012 during Culinary Olympics held in Frankfurt, Germany. He has served as Executive Chef to various leading hotel chains in India. Dr Monjeeta, a food blogger and Veterinarian was also on the panel as a judge.

Dr Jeevan Sonawane anchored this event and explained the event's theme to the audience and contestants. The event was formally inaugurated by the lightening of the lamp and Gas stove by Chief Guest Mr Devwrat Jategaonkar along with Dr Ajay Deshpande, President of Vets In Poultry (VIP), Dr Sanotsh Ire, Secretary of VIP, Dr Prasad Kulkarni, Treasurer of VIP and other executive committee members of Vets In Poultry - Dr Chandrakant Pathak, Dr Sujit Kulkarni, Dr Pankaj Tuptewar, Dr Jeevan Sonawane and Dr Sachin Patil.



During the inaugural speech, Dr Ajay Deshpande expressed his views about the importance of eggs and Chicken in countering malnutrition, employing millions of agricultural farmers directly and indirectly. He also described the Vets In Poultry team's relentless efforts to promote protein consumption through eggs and Chicken.



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Mr Devwrat, during his speech, expressed his views about this unique competition and emphasized the importance of eggs and Chicken in the hotel industry in India. He said that eggs and Chicken constitute around 50 % of hotel industry cousins and play a vital role in business. He also agreed that eggs and Chicken are essential protein sources and should be part of our regular diet. The chief guest set

the perfect stage for all contestants by boosting their confidence with some practical tips for competition.

The top 20 contestants were selected for the event. Judges interacted with all contesting chefs to find out the ingredients of the recipes, nutritional value and historical significance of the dishes, etc. prepared by them. Food items displayed were a visual treat and were presented in an artistic and aesthetic style. Dishes were judged based on creativity, hygiene, taste, texture, and appearance by esteemed judges Mr Devwrat Jategaonkar and Dr Monjita.

Judges were over whelmed by the efforts of the participants. It was great to see the participants energy,



enthusiasm, and creativity.

The event has provided a platform for the household wives, gents and students to foster their creativity and helped them to explore their hidden talents and discover new dishes. It was a challenging task for judges to choose a winner among innovative and delicious dishes.

Finally, three winners and two consolation prize winners were declared and awarded with an attractive

trophy and cash prizes.

The cooking competition was followed by Chicken Festival, where many contestants and commercial houses sold their preparations to the visitors. Industry brands like Venky's Express, Shalimar, Godrej, KGN, Power Eggs, Chicken Vicken & Belchick exhibited their stalls and served delicacy. Every visitor to the event was delighted to taste authentic Chicken and egg recipes at the event. Visitors also appreciated this event for tasting various chicken and egg dishes under one roof.

The cooking competition was formally closed with a Vote of thanks by Dr Sujit Kulkarni. He thanked everyone who supported the event, directly and indirectly, contestants, participants, visitors, volunteers, event managers, members from Vets In Poultry, Producers, Feed millers, Animal Health distributors & everyone who supported this program wholeheartedly.



A view of chicken & eggs cooking Competition and Festival held in Pune.



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During event various Vets In Poultry members expressed their views about Chicken and Eggs



Dr Ajay Deshpande, President of Vets In Poultry, expressed that the poultry industry plays a vital role in fighting against protein energy malnutrition. There is a massive gap between per capita consumption and actual recommendation by the National institute

of nutrition in India and the need to create more awareness to enhance chicken and egg consumption. His speech expressed the health benefits of white meat vs. red meat.



Dr B A Pawar, Life Time Member of Vets In Poultry, said there are rumours about broiler chickens that many antibiotics and hormones are used to grow chickens which is not valid. He assured audience that broiler birds are produced scientifically, and if anyone

has any doubt, they can connect with us, and we will help them understand this phenomenon.

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Dr Monjeeta Barrowa, a food blogger and Veterinarian who was also one of the judges for this event, appreciated the initiative taken by Vets In Poultry. She said that eggs and chicken are economical and readily available protein sources and have multiple benefits for all ages. She highlighted the health benefits of eggs and chicken, particularly for middle age people, due to its richness in vital nutrients like zinc.



Dr Chandrakant Pathak, Executive Committee Member of Vets In Poultry, expressed an important message about the health benefit of eggs and chicken to diabetic people, aged persons, and small kids. He said Vets In Poultry would continue such innovative activities in the future.



Dr Sadanand Undegaokar, Life Time Member of Vets In Poultry, expressed that he is actively involved in the production and assured that chicken is organically produced using corn, soya and other scientific additives and appealed to society to stay away from rumours. He also emphasized eating chicken and eggs for more health benefits.



Dr Anju Deshpande, Life Time Member of Vets In Poultry, expressed that the poultry farming community is raising poultry birds scientifically. She also appealed to homemakers not to withdraw protein from their diet during certain festival seasons because it may hamper the family's health.



Dr Jeevan Sonawane, Executive Committee member, explained the objective of the event is to boost chicken and egg consumption. He also stated that India is a protein-deficient country, and many people don't even know how much protein they should consume. He appealed to consume 1 gm per kg body weight protein and eggs and chicken can help us to achieve this goal.



Dr Pankaj Tuptewar, Executive Committee member, explained the importance of protein for everyone and appealed that everyone should consume two eggs and 100 gms of chicken on a daily basis to fulfil their daily protein requirement.



Dr Sujit Kulkarni, Executive Committee member, said after the covid pandemic, eggs, and chicken got a lot of significance as protein sources. Indian medical association also recommended eating eggs and chicken to boost protein intake for good immunity. He also said eggs and chicken are rich in protein, vitamins, and minerals, which play a vital role in children's and sportsman's health.



Dr Praksah Babu, Chief Geneticist at Venkateshwara Egg Laying unit, said that egg is the most economical, readily available, and most importantly, affordable source of protein. He emphasized that egg is the most balanced food, which is near to mothers' milk having all nutrients including vitamins and can give us good disease resistance power.



Dr Santosh Ire, Secretary of Vets In Poultry, explained the event's theme and thanked everyone who supported and participated in this event directly and indirectly. He said that all poultry industry goals are common, and we should all work together to promote our two products, eggs and chicken.

The event was formally closed at 3:30 pm with the promise of organizing more and more such events in the future by team Vets In Poultry.



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Ventri Biologicals organises a series of technical meetings in North India



A view of Participants

A series of technical meeting has been conducted by Ventri Biologicals division of VHPL for breeders at Jind, Panipat & Kaithal and for layers at Krukshetra. Meeting was well organised by Shashi Bhushan Kumar, Zonal Manager and his team Sandeep Saini, Regional Sales Manager and Sunil Saroya, Regional Sales Manager under the guidance of Mr H.S. Padda, Deputy General Manager.

Dr S.P. Singh, General Manager - North and Mr Satbir Lakra, General Manager - Venco Sales spoken about the current challenges and corrective measures.

Deepak Khosla addressed the gathering over challenge the poultry industry is facing related to Poultry immunity, health and production. The emergence and re-emergence of diseases will continue to be major challenges to the current situation and the strategic future of the industry. Disease control, high production, product quality and reasonable production costs have been the recent main goals of the poultry industry.

Hence, meeting per capita consumption and welfare to humans necessitates continuous efficient and goal-oriented healthcare to control disease spread and decrease the application of antibiotics. These endeavors will include the launch of programs to control infectious diseases in broiler breeders influencing the broiler performance.



Deepak Khosla, GM, Sales & Marketing, Venkys AHP Division.

Dr Prakash Reddy spoke with a topic on **"EXTENDED IMMUNITY IN BREEDERS: INFLUENCING BROILER PERFORMANCE"**.

In the meetings, several factors were discussed which can hasten and / or prompt the emergence of animal diseases including:

– The development and structure of the poultry farming, amplify global competition and cost of production, and increase

the poultry and poultry products movement worldwide.

– The increased movement could also raise the hazard of introducing infections to specific regions that are free from such diseases.



– Various infectious pathogens, including bacteria and viruses contribute to infectious diseases in poultry and can be transmitted and subsequently spread in farms via horizontal and / or vertical transmission. In India, the most common poultry diseases are Infectious bronchitis virus, Avian flu, Newcastle disease, Infectious bursal disease, Avian Adenovirus (IBH/ HPS), Chicken Astrovirus, Avian encephalomyelitis,

Mycoplasma gallisepticum, Colibacteriosis, Infectious Coryza, Coccidiosis and Infectious laryngotracheitis (regional Vaccinal laryngotracheitis).

– **For proper understanding of disease control, these poultry diseases were categorised as:**

Category 1: Disease with high problem in breeder productivity with high production drop and mortality with poor quality hatching eggs, low hatchability and poor quality chicks. The herd immunity with high and uniform humoral immune response is very important during the entire life cycle.

Ex: Avian flu, Newcastle disease, Infectious bronchitis virus.

Category 2: Diseases with less impact on breeder productivity, but when transmitted vertically to progeny can have huge impact on hatchability and broiler performance.

Ex: Avian Reovirus, Avian Adenovirus, Chicken Astrovirus, Avian encephalomyelitis,





Salmonella Enteritidis, Salmonella Typhimurium and Mycoplasma gallisepticum.

Category 3: Diseases with age resistance in long lived birds, with no impact on egg production and hatchability, but the maternal antibody transmitted can protect against early sub-clinical infection / immunosuppression.

Ex: IBDV - Early diagnosis of the source and route of virus spread help to control the disease and develop an effective vaccine for emerging variant diseases. In a future study, improvements in laboratory diagnosis will offer sensitive, fast and precise disease diagnosis and early mediations will be a reality.

– Vaccination has had and will continue to have a major influence on the development and strategic growth of the industry, allowing economic and effective control and eradication of diseases. However, the vaccine and

vaccination strategies varies based on the geographical variations happening locally. So, there is a need to "Think globally and Act Locally", based on the strain variations happening in India, which includes prevalence of - Avian infectious bronchitis virus variants GI-24 lineage (Novel Indian variants)

– Local variants of Avian Reovirus causing Malabsorption, Tenosynovitis and Brittle bone disease.

– Avian Adenovirus serotype 4 and 11.

– Chicken astrovirus variants subgroup Biii causing visceral gout (nephritis) and Malabsorption (enteritis).

– Several pathogens are implicated as potential reasons for poultry diseases, either individually, in synergy with different other microorganisms (multi-causal), or facilitated by non-infectious causes. Any stress-causing agent can hinder poultry disease resistance, increase the susceptibility of chickens to infections, and decrease the effectiveness of vaccinations. Ex: CRD complications with Mycoplasma.

– Comprehensive approach for Mycoplasma control programmes with VH-MGK was discussed extensively with data around the

country with both single and multi-age breeder flocks.

– Causes of Vaccine Breaks:

In most cases, the use of vaccination creates a false sense of biosecurity and hygiene. Generally, vaccination does not prevent infection; rather, it only leads to a reduction in the number of outbreaks. Several factors can lead to the so-called vaccine break: incorrect transport and storage of the vaccines, faults or deficiencies of the administration, and high infectious pressure in an area.

– The occurrence of unanticipated and new diseases and new legislation will also remain essential issues. Restricted use of a vaccine, such as the epidemiological situation, cost-benefit analysis, availability of the

vaccine, and governmental regulations.

– As a general rule to finalize the vaccination program, adequate immunity is an obligatory need in order to manage infectious pressure on the farm, thus providing proper vaccination programs for disease control is essential to ensure the health status of poultry. Furthermore, there could be subclinical infections within the flock, and other immunosuppressive diseases or infections with field strains could occur shortly before or after the vaccination, and / or there could be infection with mutant strains. Finally, the quality of the vaccine is affected by the number of antigens, poor storage conditions, improper handling and administration.

Launch of VIPx (IBD immune complex vaccine), a hatchery vaccine as a complete solution to the current issues related to the cross protecting strains and gaps in IBD vaccination procedures at the field.

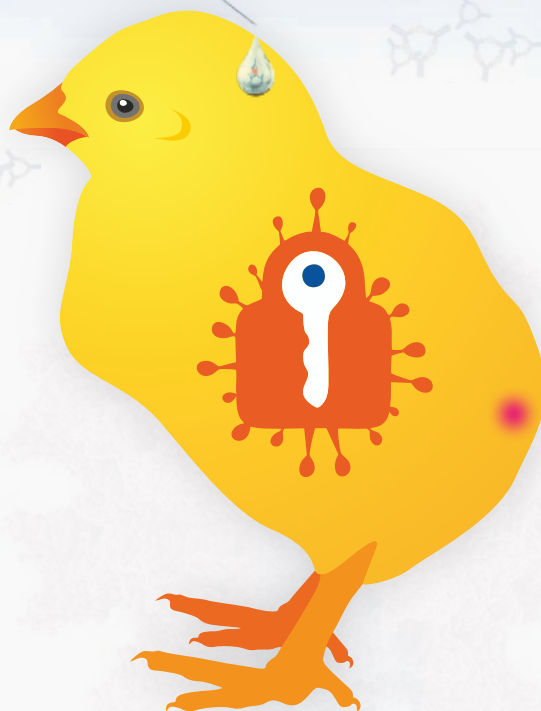
- VIPx vaccine includes Ventri's Intermediate plus strain bound with specific homologous antibodies
- The Ventri's Intermediate plus vaccine strain was most effective in controlling vvIBDV in India since two decades, with superior cross protection against the Novel variants of IBDV emerging in India.
- Early immune response to the low maternal antibody chicks, preventing subclinical IBDV infections.
- Reduced vaccination stress with the farm vaccination.
- Uniform distribution of the vaccine dose. Minimal interference of neutralizing Maternal antibodies.
- Vaccine virus competes with the field virus to reach the bursal at the earliest and stimulate active immune response. Less bursal damage and good immune response to ND, IBH, IBV etc. vaccinations in broilers.

Large scale outcomes research data in >20 million broiler chicks, conducted across the country were discussed. Vast comparative data within the same farm and branches with the controls vaccinated at the field on day-12 were discussed. Improvement in the performance with reduced incidence of IBD leading to economic benefits were seen with VIPx hatchery vaccination. Along with less handling stress at farm level, resulted in the good uniformity of birds were noticed. Farmers were happy, since their vaccination work got reduced and chances of vaccination failures due to improper maintaining of cold chain, usually encountered at farm level was getting avoided.





Note: As we have not received the photos captions, we could not publish them



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Cargill marks 35 years of Indian operations with strong people focus

Opens two new workspaces fostering collaboration, innovation, flexi work culture. Celebrates 75 years of Indo-US Diplomatic Partnership



From left to right: Ross Hamou-Jennings, Cargill's APAC Chair, Patricia A. Lacina, Chargé d'Affaires, a.i., Embassy of the United States of America in New Delhi and Simon George, Cargill India President at the launch of Cargill's new headquarters in Gurugram, Haryana on August 2, 2022.

DELHI-NCR: Marking the 35th year of its operations in the country, Cargill announced the opening of its new head quarters in Gurugram and a new Cargill Business Services (CBS) office in Bengaluru. With a total foot print of over 2.35 lakh sq.ft. of new workspaces, Cargill puts its 5000+ employees at the center of its growth plans in India.

The new headquarters, located in a LEED gold-certified building in Sector 62, Gurugram was inaugurated by Patricia A. Lacina, Chargé d'Affaires, a.i., Embassy of the United

States of America in New Delhi along with Ross Hamou-Jennings, Cargill's APAC Chair, and Simon George, Cargill India President and will be open for employees starting August 2, 2022.

Cargill first started its India operations in 1987 with a small liaison office. Today it has pan-India presence with businesses spanning refined oils, food ingredients, industrial specialties, grain and oilseeds, cotton, animal nutrition and trade and capital markets.

Spread over 35,000 sq.ft, the new 300 seater

Gurugram office is carefully designed to provide plenty of open spaces, alternate work seating, no fixed work stations to enable greater collaboration among diverse teams and phone booths for more individual, focused discussions. It is also heavily invested in technology solutions to promote agility and deliver on customer needs.

CBS in India has grown to become Cargill's largest global capability center and has been instrumental in unlocking Cargill's full potential. With CBS majority workforce (approximately 83%) comprising of millennials, the new 2 lakh sq.ft. office in Cessna Business Park, Outer Ring Road, Bengaluru is built to foster flexibility and collaboration for this young workforce. With the addition of the

new office, CBS will have a combined workspace of 3 lakh sq.ft. with 3800 seats in India.

Patricia A. Lacina, Chargé d'Affaires, a.i., Embassy of the United States of America in New Delhi, stated, "As two of the world's largest agricultural producers, the United States and India are partners in innovation, ensuring food security and facilitating trade. For 35 years, Cargill has exemplified the U.S. – India agricultural and economic partnership, serving as a trusted partner along the entire length of the farm-to-consumer supply chain. With its edible oil refineries and feed mills across India, it is providing distinct benefits as a job creator, and its investments and innovations support countless numbers of farmers in India and throughout the world."

Simon George, President, Cargill India said, both Gurugram and Bengaluru are talent hubs in India and we have maximum number of employees in these locations. Hence, they are home to these newly opened workspaces. This



From left to right: Simon George, Cargill India President, Ross Hamou-Jennings, Cargill's APAC Chair, Arun Singhal, CEO, Food Safety and Standards Authority of India (FSSAI) and Mariano Beillard, Senior Regional Agricultural Attache, US Embassy at the formal launch of Cargill's Food Innovation Center in Gurugram, Haryana on August 2, 2022.



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is an important milestone to mark 35 years of Cargill in India and 75 years of Indo:US partnership. It is a reaffirmation of our deep experience, growth ambition and commitment to India.”

“Our 5000+ employees in India are our greatest asset, and we have conceptualized this new space keeping in mind our experience over the last three decades and to foster a culture of collaboration and innovation. We continue to be guided by our people focus and to work together as One Cargill to serve our customers better”, he added.

More Collaboration and Human Connect

Cargill’s new offices in India are built to help employees thrive. During the pandemic, Cargill’s values of ‘Putting people first’ guided its every decision. The aim is to be more purposeful when people meet face-to-face and build more human connect. Coming out of COVID, Cargill will continue to prioritize flexibility in work arrangements while preserving the benefits of in-person collaboration.

The workspaces are designed to promote an open office culture and break any monotony as people embrace the new ways of working. These new office spaces are the first among Cargill’s sites in India to offer amenities like smart work cafes, collaboration areas and other facilities like a wellness room, dedicated mother’s room, and recreation space to make the office experience more comfortable. The

Gurugram office building also provides facilities like a swimming pool and gym, so people can prioritize physical fitness and overall well-being.

Sustainable Operations

Cargill’s new offices further propel its commitment toward sustainability. Gurugram office uses state-of-the-art technology to maximize water and energy conservation. The selection of carpets, energy-saving LED lights and Vav Units (Variable Air Volume) are in alignment with the green building accreditation to reduce carbon foot print. The building is Griha 4 star certified which evaluates a building holistically over its entire life cycle, thereby providing a definitive standard for what constitutes a ‘green building’. The office has a biophilic design with lot of natural light and greenery to help reduce stress and elevate productivity levels.

Food Innovation Center

As a part of the 35 year celebration, Cargill officially inaugurated the Food Innovation Center in Gurugram (that was opened earlier this year) to co-create product innovations with customers, in line with the progressive food standards in India. Over the last six months commercial trials of a postbiotic brand, EpiCor® have begun in India. Approved by the FSSAI, EpiCor® aims to improve customers’ gut health. The Innovation Center is also working with its customers on Sugar and Salt (low sodium) reduction in culinary sauces, and low saturated and no-trans-fat formulation in bakery products.

Commenting on the opening of Food Innovation Center, **Arun Singhal, CEO, Food Safety and Standards Authority of India (FSSAI)** said, Research and Development in the food space is urgently needed to help new product development that can enable access to safe and nutritious food for consumers. We have been working towards

this and private sector participants also need to support this mission. The Cargill Innovation Center is a step in the right direction to help bring global best practices as well as technology driven food innovations that cater to the evolving needs of Indian consumers, keeping health and safety at the fore front.

Cargill holds series of seminars on ‘Postbiotics and Gut Health Management’

Bangalore: Cargill’s Provimi Animal Nutrition India Pvt Ltd had recently organized a series of Technical Seminars on the topic “**Postbiotics and Gut Health Management**” for the poultry fraternity across several locations in India. This seminar series was organized under the banner **Cargill Connect’** with the objective to educate the Indian poultry fraternity on a new concept of postbiotics.



Dr Jared Serem from Diamond-V team addressing at Hyderabad, Telangana

Postbiotics are a next generation gut health



Dr K. Jayaraman, Poultry Management Specialist addressing the gathering in Karnal, Haryana on 3 July 2022

solution with consistent and promising results from Diamond-V, a Cargill entity, manufactured with a proprietary fermentation technology.

The first seminar was held in Karnal, Haryana on July 3, 2022 at Hotel Noor Mahal Palace. It was attended by over 100 customers and poultry consultants from Haryana, Punjab and Gujarat. Dr Jared Serem from Diamond-V team, spoke to the audience on the concept of Postbiotics and its benefits to the

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Dr Sushil Kumar Dhariwal, Poultry Breeder Consultant addressing the gathering at Coimbatore, Tamil Nadu on 8 July 2022

poultry species. This was followed by a keynote address by Dr K. Jayaraman, an independent poultry management specialist on Maximising Genetic Potential through gut health.

The second seminar was held on July 6, 2022 at Vivanta Begumpet, Hyderabad where over 50 poultry veterinarians from various parts of Telangana and Andhra Pradesh participated. Dr Jared Serem explained the Diamond-V Postbiotic concept, followed by keynote address by Professor Dr D. Chandrasekaran on Gut



Team Cargill during the technical seminar at Hyderabad

Health Management in poultry.

The last seminar in July for this series was organized on July 8, 2022, at Hotel Le Meridien, Coimbatore for the Poultry breeders and Veterinarians. The seminar was attended by around 40 owners and

vets of the leading poultry group. Following the lecture by Dr Jared from Diamond-V on Postbiotics, Dr Sushil Kumar Dhariwal, an independent poultry breeder consultant spoke about his views on the challenges and management of broiler

breeder flock.

The lectures were well appreciated by the audience, and they encouraged Cargill's Provimi team to organize such technical events going forward as well for the benefit of the industry.



Dr D. Chandrasekaran addressing the gathering at Hyderabad, Telangana on 6 July 2022



Guests at Coimbatore, Tamil Nadu



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Stallen South Asia celebrates Silver Jubilee

Stallen to start production at its new pharmaceutical factory soon

Stallen South Asia will be launching three new vaccines along with a range of bio-security products while supplying its flagship products like Cleantab and Binodox. Within six months, Stallen will also start production at its new pharmaceutical factory that is constructed with the US-FDA standards and to be EU-GMP compliant with a view to export veterinary drugs world over.

Poultry Fortune Editor, M.A. Nazeer had an exclusive interview with Mr Aniket Parikh, Director, Stallen South Asia Pvt Ltd and son of Late Amit Parikh. Excerpts:



**Aniket Parikh, Director,
Stallen South Asia Pvt Ltd**

Poultry Fortune: Aniket, how old were you when your father, Amit Parikh expired and what were you doing when he passed away?

Aniket Parikh: I was 27 years old when (he) dad passed away in 2017. At that time, I solely looked after our international business along with new products development.

PF: How did you learn, work and brought Stallen South Asia to the present position?

Aniket: Since 2017 till date, it has surely been a big learning curve for me with the industry being hit with two of the most drastic measures - the avian influenza and the pandemic - so to tackle the lows and the supply chain during the difficult times has taught me how to navigate the most turbulent waters. It comforts me

that from here on and in the future, I would be better equipped to grow the company with the strategies we have in place. Hard work, perseverance



Aniket Parikh, son, (standing) with his father Amit Parikh

and the support from all our team members has allowed us at Stallen to reach the position we are at.

PF: What were your sweet memories with your dad?

Aniket: Growing up, my father always discussed about the company and its plans with me - it inculcated the culture and ethos in me at an early stage. However at the same time, he encouraged me to explore new opportunities and take risks - and it is these risks and windows that has allowed us as a group to grow and diversify. The most nostalgic work memories are when we were still starting up our international business - we had to fly to various exhibitions around the world with all the decorative and expo materials with us and spend the day prior to the

exhibition to set up the stall ourselves. While getting our hands dirty and doing it from scratch, we shared many a laugh and good moments - it is these humble beginnings that we must always thank and appreciate. Starting from that day to having some of the larger booths at global trade shows like IPPE, Atlanta and EuroTier, Germany makes me feel like I am on the right path to fulfilling his dream - hoping to make him proud one day!

Company Brief

Stallen South Asia Private Limited was founded in 1997 by Late Amit Parikh. Parikh started out in the human pharmaceutical manufacturing industry, and a result of consequential events and lineage, he found Stallen – a veterinary company with a focus on poultry. In 2010, Stallen and FATRO from Bologna, Italy, entered a joint venture to promote their products in India which also led to the launch of their avian vaccines. Today Stallen manufactures, markets and distributes feed additives, pharmaceuticals, biosecurity solutions and vaccines for poultry in India, Nepal, Bangladesh and Sri Lanka. In addition, our products are exported to over 60 countries in 6 continents globally. Collectively, the Stallen group employs more than 200 people across the Indian subcontinent.

Leadership

Stallen is currently led by Mr Aniket Parikh – by education a chemical engineer, but has grown up right alongside Stallen. He holds a BSc and

MSc in Chemical Engineering along with a Master's in Biotechnology from Johns Hopkins University, USA. He is responsible for the development, manufacturing and expansion of the company. He is ably supported by **Mrs Jagruti Parikh** his mother who overseas the management and financial control of the group. Along with them is **Dr Sanjay Singhal, COO**, a veteran in the veterinary business with an extensive experience in this industry. Apart from the team at the head office in Mumbai, Stallen has a robust field force led by managers who have been with the company for multiple decades. There are more than 20 employees with more than 15 years at the company and some with more than 40 years!

Facilities

The Stallen group is probably one of the only companies in the Indian animal health market place who doesn't do any 3rd party manufacturing. Every single product they sell – they sell proudly as self made. Stallen has three facilities in Maharashtra – two for feed additives and one for formulations. All vaccines are imported from FATRO, Italy. In addition, they have a feed additives manufacturing plant in Alexandria, Canada. All manufacturing facilities are GMP, FDA and ISO compliant. They have been audited and approved by various countries we export to as well. The FATRO facilities are all EU-GMP and EU-GLP certified adhering to the highest quality standards.



Aniket Parikh and his mother Mrs Jagruti Parikh during 25 years Celebration & Technical Conclave at Goa on August 8, 2022

My husband, Late Amit Parikh had a dream to make Stallen South Asia, a big brand in poultry in livestock sector. We want to work hard and make his dream comes true, said Mrs Jagruti Parikh talking to Poultry Fortune Editor during the 25 years celebrations held at Goa. Jagruti Parikh worked hard in the background in successfully organising the Technical Conclave and the Celebrations



An overview of Stallen South Asia Production Facilities

Distribution

Stallen's products are distributed via our channel partners across the sub-continent who have been with the company for many years as well as direct to customer. Stallen is one of the only companies that strongly focuses on serving the customers directly with a large percentage of direct-to-customer sales which allows them high flexibility and liberty for service and quality, said Aniket.

Milestone – 25 years

In August 2022, Stallen completed and celebrated 25 years of excellence in the poultry industry with an event in Goa. They conducted a technical conclave and celebration from 7th to

9th August 2022 at the Hyatt, Goa. This was attended by the head office team, sales team as well as key customers, consultants, veterinarians and industry leaders. It was an event to remember with a company overview, musical evening with comedian. Everyone participated in the fun and frolic by singing and dancing to popular Bollywood songs. The next day session had two technical sessions and a gala night.

Representatives from FATRO, Italy, were present to offer an introduction to FATRO and their global presence along with their product range. The first technical session was an engaging but yet extremely insightful one on Mycoplasma, its problems and its prevalence in India led by **Dr Sanjay Raj Anand**. The session detailed the conditions and symptoms of this disease and its prevention using MS-VAC (MS, inactivated vaccine) and MYC-VAC (MG, inactivated vaccine) as well as CORIVAC (Coryza inactivated vaccine). The session also highlighted and busted common myths on the disease and the truth on medication Vs vaccination.

The second session was an informative one that highlighted the respiratory

complex problems in poultry with specific reference to Infectious Bronchitis virus conducted by **Dr Mahendra Chaudhari**. Stallen-FATRO's solution to these problems were presented via IB-OLVAC and OLVAC B+G+R.

Gala Dinner

The gala dinner was an elaborate affair at a venue at Anjuna Beach and had local entertainment and performers which enthralled the participants with their dance movements. Through the 3 days, with the coordinated outfits and planned entertainment, the industry was on one platform – customers became friends, and staff celebrated being family! The event capped out the 25 years in the same fashion Stallen has completed 25 years in the industry – being friendly, being genuine, being honest and most of all putting their stakeholders first!

Future

The past 25 years have seen several cycles of the avian influenza along with the unexpected pandemic – but Stallen has survived it all and came out on top. This is a testament to its quality and promise of service – Stallen has a big pipeline of products it is looking to launch. On the immediate

front, we will be launching three new vaccines along with a range of bio-security products. Within the next six months Stallen will also start production at its new pharmaceutical factory that is constructed with the US-FDA standards and to be EU-GMP compliant with a view to export veterinary drugs world over while also supplying our flagship products like Cleantab and Binodox.

Like Late Amit Parikh often said, 'The show must go on'.....even after him, his vision and mission for Stallen continues as the team believes in what was started and they are energized to make it a reality, Mr Aniket Parikh stated.

Today Stallen manufactures, markets and distributes feed additives, pharmaceuticals, biosecurity solutions and vaccines for poultry in India, Nepal, Bangladesh and Sri Lanka. In addition, our products are exported to over 60 countries in 6 continents globally.



Stallen South Asia Team at the Factory



*Aniket Parikh, Director,
Stallen South Asia Pvt Ltd*



*Dr Sanjay Singhal, Chief Operating Officer,
Stallen South Asia Pvt Ltd*



Dr Sanjay Raj Anand



Dr Mahendra Chaudhari



Aniket Parikh discussing a point with FATRO senior executive



A view of participants in the Technical Conclave held by Stallen South Asia at Goa



A view of participants in Silver Jubilee Celebrations of Stallen



Stallen South Asia team

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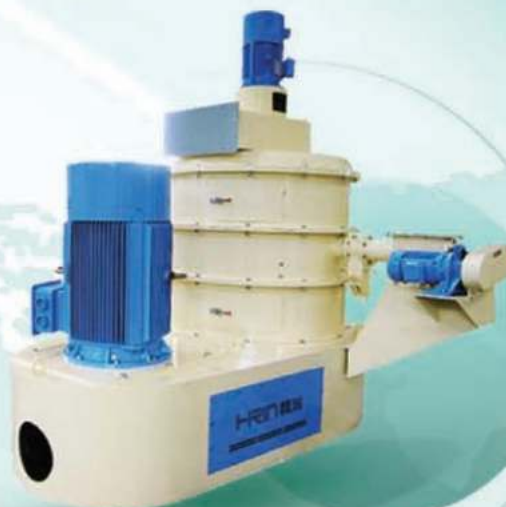
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GLAMAC Conducts Annual Conference and Celebrates 5th Anniversary with a Sales & Distributors Meet & Award Function at Cordelia Cruise, Chennai

Glamac International has innovative product line, attractive portfolio with international sourcing. Glamac is awarded with the Fastest Growing Indian Company in Poultry. We are here to Serve....

Give us a chance, said Mr Abir Mukherjee.

Poultry Fortune Editor, M.A. Nazeer had an exclusive interview with Mr Abir Mukherjee, Managing Director, Glamac International Pvt Ltd. Excerpts:



Abir Mukherjee, Managing Director, Glamac International Pvt Ltd

Glamac International Pvt Ltd, the fastest growing company in the segment of poultry health & nutrition Conducted Annual Conference at Pride Hotel, Chennai on 5 August 2022 and celebrated its 5th Anniversary with a Sales and Distributors Meet at Cordelia Cruises, Chennai from 6 to 8 August 2022. This was an event to not only celebrate the successful journey of the organisation, but also to celebrate the motivation, warmth and optimism of the channel partners, distributors and employees who have contributed to the growth of the company over the last five years. The programme saw the participation of 32 delegates from different parts of India and neighbouring countries.

In the main event at Cordelia Cruise Mr Abir Mukherjee, Managing Director, Glamac in his opening remarks welcomed all the dignitaries, and expressed that it is a proud moment for all of us on this special day. He specially thanked the distributors and customers for supporting Glamac

from day one. He reminisced his desire: COURAGE TO REACH HORIZON and particularly the strength of team Glamac to make it really BIG. He further explained the core strength of Glamac & what makes it different from competitors. Mr. Mukherjee also introduced his daughter Mrs Meghana Mukherjee Salvi, the newly appointed Director & the next-gen Glamacian to the audience.

The guest of honour Mr Sahil Deepak Salvi, Advocate, Mumbai High Court was felicitated and welcomed by team Glamac and requested to initiate the cake cutting ceremony.

The main attraction of the evening was the award function in celebration of talent, success & achievement. Amongst the most prestigious awards Dr Sumon Nag Chowdhury, Group Technical Manager won the Best Employee award for his exemplary performance and Mr Pintu Das of PP Trading / Das Drug Centre, Distributor - West Bengal bagged the Top Distributor Award FY 2021-2022 in acknowledgement and appreciation of distinguished sales performance.

Mr Vinod Mishra, Business Manager earned the Most Promising Employee and Mr Sujit Jadhav, Sr. Manager Finance & operations earned the Most Versatile Employee awards respectively. Mr Ramakrishna Amancha, Jr. Manager - Warehouse & Accounts was awarded with the Most Paramount Employee. Mr Sourav Nath, Area Manager - West Bengal and Mr Rohit Gulati, Area Manager - Barwala& Punjab got the Excellence award for



Abir Mukharjee and his daughter Ms Meghana Mukharjee Salvi

their outstanding sales achievements.

All participating Distributors were presented with a Certificate of Appreciation in acknowledgement & gratitude for their patronage. All employees of poultry and aqua teams were presented with a Certificate of Participation.

The event concluded with the vote of thanks expressed by Dr Gopal Potdar, Product Manager followed by a gala cocktail and dinner, DJ and with a wonderful show in the Cruise.

Abir Mukherjee, B.Sc, Diploma in Sales & Marketing Management - AIIMA, Executive Education - IIM – Bangalore, Promoter of Glamac International Pvt Ltd has acquired 35 years of professional experience in Veterinary pharmaceuticals in India and emerging markets. He started his career as a field sales executive with Merind Ltd (Merck) and gradually rose to become the CEO of Sequent Veterinary Formulations (Chief Marketing Officer – Alivira Animal Health), a start-up. In between he worked as GM- AHD for Wockhardt and General Manager – Sales & Marketing of India operation for Vetoquinol, France. He turned around Wockhardt's Veterinary division and took the company from under \$6 million in revenues to \$14 million, with profitability improvement to +56%, a remarkable improvement in Gross Margin. This led him to a start-up where he started the India Veterinary division in 2012 which is a global business today with customers all across the world.



Where collaboration became an integral part of all business today, Abir was the front runner for strategising In-licensing business in India way back in the year 2003 for Veterinary formulations. This became his core strength as he built up strong relationships with several national and International contacts for tie-up and sourcing. In his illustrious career he has also developed strong customer relationship with many Key accounts in India and Emerging markets.

While in service, he realized that the market is strongly controlled by a few multinationals who are unwilling to co-creating and bringing in cost effective value-added products to address the gaping underserved emerging markets. It is from this understanding, Glamac was born in June 2017 with Headquarters at Thane, Mumbai. Glamac International has its production units situated in Vasai, Mumbai and Ahmedabad, Gujarat.

While Mr Abir Mukherjee is the Managing Director, Ms Meghana Mukherjee Salvi is the Director of Glamac. Meghana is a Mathematic

Graduate and completed her Masters in Economics from NMIMS in 2020 and got married in 2021.

Mr Abir Mukherjee said, at Glamac, whatever we do is driven by Innovation. We have married core technical expertise and strong global relationships with hours of research and the result is consistent innovation. Through our strong relationships with organisations worldwide, we have been able to establish strategic sourcing channels. Along with a strong product at its heart, our values lie in a deep-rooted service ethic.

Category of products

We are mainly in Poultry and Aquaculture Nutritional products specializing in Feed Supplements. Glamac introduced next generation nutritional solutions for Poultry – Vitamin D3 Metabolites, Anti Coccidials, Probiotics, Acidifiers, Protein and Digestibility Optimizer, Nutritional Emulsifier, Toxin Binder and Performance Enhancer etc.

Brands – Poultry: Glam-Sone, Glam-Quindox, Panbonis Premix, Supravita, CYNKA, Liptivo -XT, Glavistro, Closbo, Avatox, Glamocid+ etc.

Brands – Aqua: AQUAMAC Glavimin, Amigo, Aquamac WF, Closbo SW, Glamzex etc.

Glamac has tie-up with two European companies like XVET, Germany and Herbonis, Switzerland. We don't have any own R&D Center, but have dedicated facilities for Research & Product Development and Technical Trials, he added.



Glamac International Team

We have both Sales & Technical Team with 20 plus Dealers & Distributors in the country.

In the very first year of our existence, we have traversed a long distance, growing from strength to strength. Quality matters ! We understand that at Glamac. Hence, through our thorough and careful selection of certified manufacturing facilities and international partners, we ensure quality products. Aided by a strong research and technical team, we convert insights into new practical applications every day. Within a short span of time Glamac is recognized at par with multinationals in the Poultry Nutrition Segment, he stated.

Abir said, "Glamac is not a transaction driven, Glamac believes in Business

Collaboration to improve the end customer business". Glamac has annual turnover of \$ 2.7 million (21.50 Cr FY 2021-22), CAGR 35%. 15% of Glamac revenue is from exports. India, Bangladesh and Nepal are the Important markets for the company.

Replying to a question about usage of antibiotics in the industry, Abir said that whatever we do is under the regulatory guidelines and compliance protocol. We believe in ethical business.

We have innovative product line, attractive portfolio with

international sourcing. Glamac is awarded with the Fastest Growing Indian Company in Poultry.

Future Plans and Targets

We have a plan to expand our operations in Export markets of SEA, Africa and Middle East. We are here to Serve....Give us a chance, Mr Abir Mukherjee appealed to the industry.



A view of Glamac Annual Conference and 5th Anniversary Celebration



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Reaching the Peak Egg Production on time, sustaining Peak for 9 Weeks, Post Peak Egg production and to get highest Hatchability during Peak & maintaining optimum hatchability post peak are the critical task for any breeder farmer to optimize the operations & associated profitability. Among all the factors that can influence the breeder performance including hatchability, the most significant one is flock uniformity other than Nutrition, Health Management, Biosecurity & husbandry practice.

Grading is the process of shorting of all individual birds in a flock (both Male & Female separately) in to 3 sub-populations based on body weights (physiological state) so that each group can be managed back to the standard to have perfect uniformity in the whole flock at the point of Lay (POL). A uniform flock is easier to manage than a variable one; birds in similar physiological state will respond more similarly to managemental factors.

Background of Grading

There is always a natural variation in a flock, even at day old. At placement, the chick body weight in a flock should have minimum variation. As chicks grow, the variation in the flock increases further due to difference of response of individual birds to factors like vaccination, disease, differing competitiveness of feed, etc. The increased variation reduces overall flock performance and makes the flock management much more difficult.

General Principles of Grading

Perform a 100% weighing & grading when the flock is 7 to 14 days old. This allows the chicks to be grouped by weight & feed intake, which controls competitions for feed from very early age. The subsequent 100% flock grading shall take place at 4, 8 & 12 weeks of age or when uniformity is below 65%. Bird's sub-population may be classified as Heavy, Medium & Lightweight compared to the average weight.

Successful grading at progressive age helps maintaining 80% plus uniformity which is dream to any breeder farm. Countries within efficient labour cost for multiple grading

process, one compulsory Grading between 21 – 28 days age help correcting uniformity issues. Males follow the same grading concepts as female, and should have 5% more uniformity than females. Please note, males represent 10% of the flock but are responsible for 50% of the offspring.w

Grading is based on the variation in the body weight within a flock at the specific time. A highly variable flock with a large spread of body weights around the Average will need to be divided in more sub-populations. The average minimum uniformity in rearing phase shall be 70% (+/- 10% variation of the Mean), which need to be maintained constantly and shall be nearly 80% at POL. Uniformity below 70% at any stage indicates feed intake issue and need to be addressed being present at feeding time.

Grading Procedure

Depending on the uniformity 3 to 4 sub-populations may be made; Heavy, Medium, Light & Super light (if necessary). Some breeder houses have fixed pen or partitions and some houses has adjustable partitions; in both cases at least one pen shall be left empty during chick placement for Grading operation. It is better to have adjustable Partition and divide the whole house in 4 parts for Female & 4 parts for Male; with 2 parts each for medium size group (usually over 65% of total population), One part each for Heavy & Light Weight group for both Male & Female. Arrange Brooding in one part each for Male & female separately. Start grading on 8th day itself and shift them in different pen, keeping the lighter group at the entry side. With advancing age & body weight, arrange 100% grading at the end of 4, 8 & 12 weeks and give floor space accordingly in the respective pen. In case of fixed pen, calculate the floor space, no of feeder & drinker as per maximum no of birds to place after grading. Similarly, in case of adjustable pen adjust the size as per no of birds to be housed along with sufficient no of feeder & drinkers. If stocking density in a pen is not adjusted with floor space, feeder & drinker space, then grading will cause more problem.

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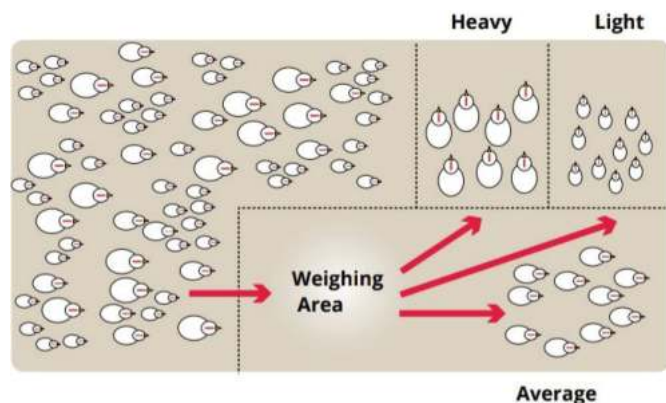
Picture 1: Grading & Splitting Flock till 22nd Week

Variation in a flock can be measured by 2 different ways:

1. Coefficient of Variation (CV%) – This measures the variations of body weight within the flock, the flock with lower CV's is a less variable flock is.

2. Uniformity% - This measures the evenness of body weights within a flock, the higher the uniformity the less variable the flock is.

Prior to grading a sample (3 – 5%) of birds from the flock should be weighted and the variation within the flock (as measured by CV% or Uniformity%) measured. CV% or Uniformity% may be then used for grading cut-off (the No & Av Wt of the birds to be graded in each population).



Picture 2: Grading Technique

The body weights from graded populations are should be plotted against target and the profiles redrawn where needed to bring the birds back on target at 63 days (9 weeks) age. Feed quantity shall be adjusted based on the deviation in body weight from target.

Grading using CV%

From each pen 2% or 50 birds, whichever is higher shall be caught randomly and taken to empty grading pen and weighted.

Table 1 gives the Grading cut-off points (% of birds to be graded in each sub-populations) according the CV% of flock. Grading is not necessary when CV% is <10.

Flock Uniformity CV%	% in Each Sub-Population after Grading			
	2 or 3 way Grade	Light%	Medium%	Heavy%
10 – 12	2 way Grading	<=20	80 (78 – 82)	0

– 14	3 way Grading	22 – 25	70 (66 – 73)	5 – 9
14	3 way Grading	28 – 30	58 (55 – 60)	12 – 15

Below is a example of 3 way Grading of adjustable pen with electronic scale:-

Body Weight at 4 Week			
Total Weighted	197		
Av Weight	446		
Deviation	0.06		
CV%	13.5		
Wt (gm)		Wt (gm)	
320	to	339	4
340	to	359	7
360	to	379	10
380	to	399	12
400	to	419	14
420	to	439	16
440	to	459	27
460	to	479	30
480	to	499	28
500	to	519	22
520	to	539	13
540	to	559	8
560	to	579	6

Flock Details	
Age	28 days
Standard Body Weight (Kg)	0.450
Actual Av Body Weight (Kg)	0.446
Total Sample (Bird No) Size	197

Considering the sample data of the flock, a 3 Way Grading is needed as below with CV%13.5:

Cut-off points and No of Birds in each sub-population		
	% of Birds	No of Birds
Light Wt Birds	24	47
Medium Wt Birds	69	136
Heavy Wt Birds	7	14

The light graded sub-population is approx 24% of total population. Out of total 197 birds 24% or 47 birds are between 0.320 – 0.419 kg, means they are <= 419 Kg. Using the same process the cut-off weight of Medium & Heavy sub-populations can be determined. The Medium populations will be between 0.420 – 0.539 Kg body weight and Heavy sub-population will be >=0.530 Kg

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Grading using Uniformity%

The uniformity of a flock is determined as the % of birds that are within a given range (ideally +/- 10%) around the average body weight of the flock. The higher the no of birds fall within this body weight range, the more uniform the flock and less grading is required (Table below). Grading is not required when uniformity is $\geq 80\%$.

Grading Cut-offs when using Uniformity as Grading	
Uniformity	No of Sub-Population
65 – 80%	2 Way Grade
$\leq 65\%$	3 way Grade

From the above 4th Weight Flock data 10% of Av Body weight = $0.450\text{Kg} \times 10\% = 0.045\text{Kg}$. Therefore, + 10% of Av Body Wt = $0.446 + 0.045 = 0.491\text{Kg}$. And -10% of Av Body Wt = $0.446 - 0.045 = 0.401\text{Kg}$. 15 Birds out of total 197 weighted are within the Average Weight range of +/-10% ($0.401 - 0.491\text{Kg}$), highlighted in Red colour. So, Flock Uniformity is 58% and 3 Way Grading is required. Light Wt group are those birds weight $\leq 0.401\text{Kg}$, Medium Wt group birds are $>0.401\text{Kg}$ but <0.491 and Heavy Group are those birds $\geq 0.491\text{Kg}$.

Key Issues during Grading:

- Start Grading of Male & Female simultaneously @ 2nd Week or 29th day
- A successful Grading should minimize the variability in graded flock than the original flock with the CV% shall be around 8 and Uniformity above 80%.
- Each sub-population should be re-weighted & counted to confirm the Av Body Wt and CV%/Uniformity so that projected (re-scheduled) target body weights & Feeding rates can be determined.
- Inaccurate bird counting will lead to incorrect quantity of Feed, which invite future problem.
- Each sub-population should have own dedicated feeding system. Otherwise, supplementary feeding must allow even distribution of feed & adequate feeding space per bird.
- Ensure the stocking density, feeding & drinking space are consistent as per guidelines after grading; specially for the adjustable size pen.

Flock Management after Grading:

Following grading, the flock need to be managed to achieve targeted body weight in graded group in uniform & coordinated manner. Post grading management to maintain uniformity within graded pen is more important than the grading itself. The most important issue is the post grading management results in the birds converging to a common target body weight at Transfer to laying house.

Post Grading Feed Quantity should be adjusted to individual pen and graded birds body weights to bring each sub-population gradually back to the target line.

TAKE HOME MESSAGE

- Feed level must be recalculated on a weekly basis calculating for changes in liveability.
- Feed recalculation twice a week gives excellent results

specially for Light weight group where higher increase level is required.

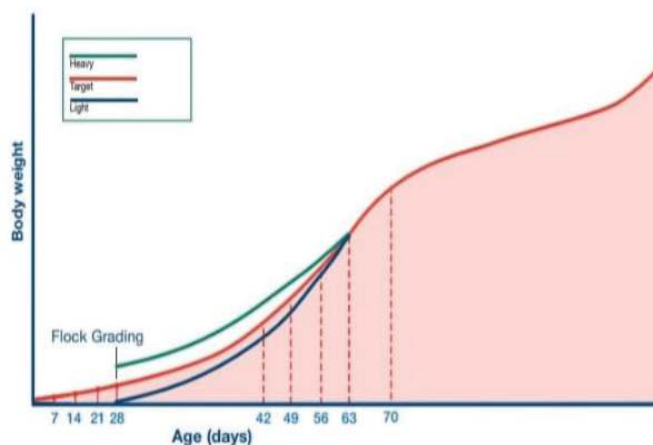
- Feed calculation based on individual pen birds Av Body Wt & bird numbers.
- Feed level should never be reduced
- Feed level for Light Wt group should remain same first week post grading owing to the fact that reduced competition from heavier birds will give a good amount extra feed to all birds.
- Weekly Feed increase will be like:
 - ▶ Smaller for Heavy Wt Bird group
 - ▶ Greater for Lighter Wt Bird group
 - ▶ Standard for Medium Wt bird group
- Never hold feed increment for any group for more than 2 weeks.

Post Grading Body Weight management (up to 63 days/9 weeks):

For each population, the aim is to achieve target body Wt uniformly during which the skeletal development takes place (by 9 Wks/63 days). After 28 days age, the body Wt of each populations needs to be monitored & feed allocations adjusted as necessary to reach the body Wt target.

Management of Under Target Light Wt Population:

Where Av Body Wt of a population is more than 100gm lower than the targeted Body Wt, then the objective is to redraw the Body Wt curve so that target body Wt is achieved by 63 days. There should be no feed increase in first week after grading because reduce competition for feed will allow all birds to get more feed. Subsequent feed increase should be based on deviation from target body Wt.



Picture 3: Redrawing of Body weight Target curve up to 63 days

Management of On Target Medium Wt Population:

The aim is to continue to keep birds on targeted Weight.

Management of Over Target Heavy Wt Population:

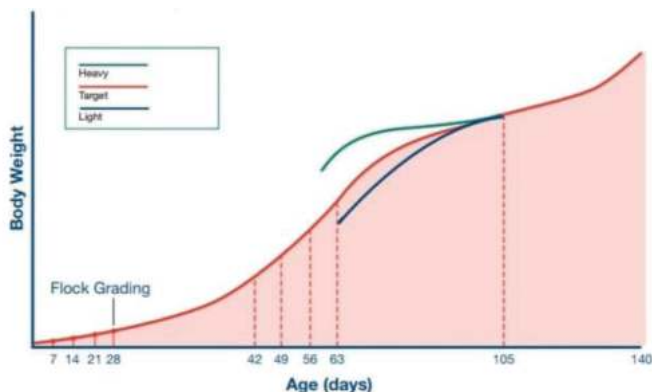
Where Av Body Wt of a population is more than 100gm higher than the targeted Body Wt. the objective is to redraw the body weight curve so that birds are gradually brought back to target weight by 63 days. Feed level never be reduced but may be reduced incremental quantity and increase may be one week interval until target is achieved.

Post 63 days Redrawing of future Body Weight management:

The Body weight of each sub-population should be reassessed in relation to the target. The populations with similar weight & feed consumption at this age can be combined.

Management of Under Target Light Wt Population:

If some birds remain under target after 9 weeks, the body Wt target should be redrawn so that the birds can be grown to targeted body weight gradually by 105 days (15 Weeks), if not earlier. The feed quantity should be increased looking towards the new target.



Picture 4: Redrawing of future Body Wt Target curve when Uniformity is < 80% after 63 days

Management of On Target Medium Wt Population:

The aim is to continue to keep birds on targeted Wt.

Management of Over Target Heavy Wt Population:

If birds remain overweight after 9 weeks age, the target should be redrawn so that they can be brought back to target Body Wt gradually by 105 days (15 weeks). Feed level may be increased by giving a gap of one week and increment quantity may be lesser.

TAKE HOME MESSAGE

- Keep on monitoring weekly Body Weight compulsorily
- After 9 weeks, redraw the target Body weight Curve of any sub-population if they are below/above to targeted body weight to bring them back on target by 105 days age.

Addressing Uniformity Problem:

If Av body Wt deviates from targeted body weight more/less than 100gm during rearing phase, reweight the sample flock. If similar data received, the following may be taken care:

Underweight before 105 days, consider the following in future flocks –

- May remain on Starter feed longer than suggested
- Provide a nutrient rich starter next time
- Light hours may be increased little for 3 weeks to stimulate feed intake & improve Body Wt

Under weight before 105 days, consider the following in current flock –

- Initiate the next feed increment earlier, may be mid-week and consider increasing the amount, until body

weight is brought back to target.

- For example, standard increase is 5gm weekly but you want to increase 8gm, then increase 4gm at start of week and after 3 days increase again 4gm. This will help the birds to accommodate the higher increment.



Picture 5: Grading & Splitting Flock after 16 Week

Over weight before 105 days –

- Do not reduce feed level lower the current feed quantity
- Reduce next feed increase quantity, e g 2gm instead of 4gm
- Can delay next feed increment for one week
- Check the Energy (ME) level of the feed, weather higher than recommended.

Any changes made to correct the body weight uniformity issue in male or female should be done gradually, ensuring positive response in body weight gain every week.

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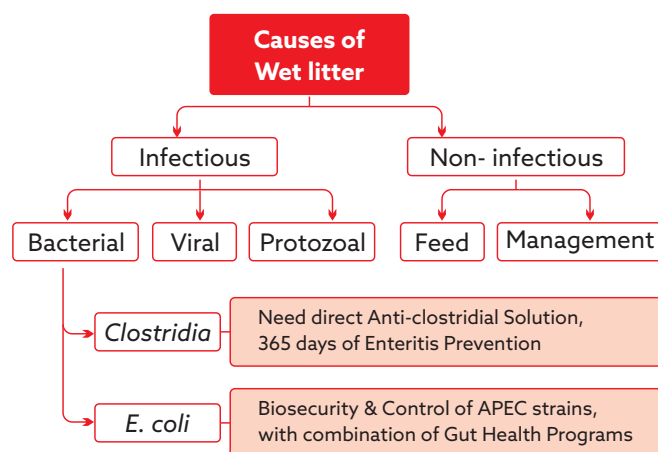
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Litter at Poultry Farms Causes & Impact

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Wet dropping provides the producer an invaluable insight into overall gut health of the birds. Wet litter is commonly used to describe nonspecific disease of gastrointestinal and urinary tract. With disease onset, performance problems like increased feed conversion ratio, poor body weight gain, increase in marketing age, predisposition to other secondary bacterial infections and condemnation losses – start precipitating one after other.



Wet litter is associated with altered faecal water content, in short physiological diarrhea. There can be many predisposing factors which causes altered faecal water, affected either by ingesta osmolarity, or reducing the transit time, & reducing absorptive surface area function compromising water absorption and stimulate more intake. (different from the enteritis, with more pathological diarrhea).

Causes of Enteric disorders in poultry – a reason for wet litter

I. Infectious

- a) Bacterial infections caused by *E. coli*, *Salmonella*, *Clostridium*, *Campylobacter jejuni* and *Spirochaetes* result in wet litter. The dysbacteriosis may also be induced due to several other factors which upset the usual microbial balance in the intestine.
- b) Viruses such as REO, IB, IBD, Newcastle Disease virus,

Adenovirus, Rota virus, Astro viruses, causes diarrhea. Rotavirus infections cause diarrhea which is the main clinical sign. This is followed by litter eating and inflamed vent. REO viral infections cause mucoid diarrhea with pasty vent. In nephron pathogenic form of Infectious bronchitis viral infections, the water intake will be high and result in diarrhea and wet litter.

- c) The **protozoan parasites** causing coccidiosis due to *Eimeria* species, often cause dysentery and frequent wet litter. Heavy load of internal parasites such as roundworm and tape worm infestation cause diarrhea

II. Non Infectious

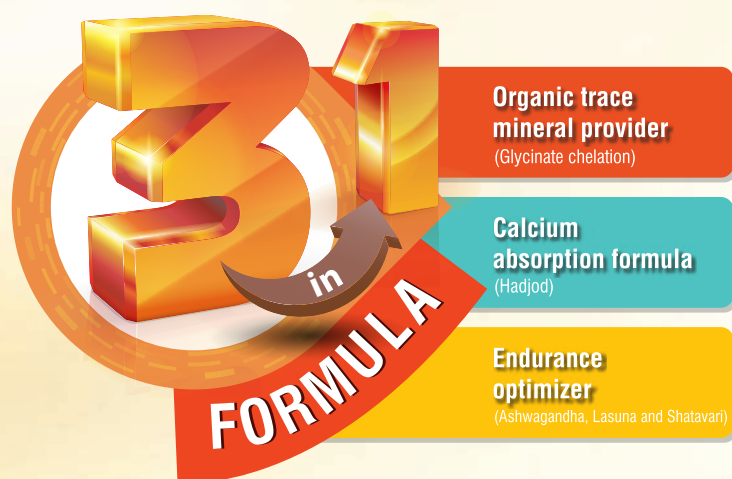
- a) Feed. **Structure and pellet quality, palatability, formulation and content, mycotoxins**
With modern breeding and selection procedures, and the resulting high appetite and feed intake the feed passage rate is increased. This is achieved by reduced time spent by ingesta in proven trculus and gizzard. But the retention time in the small intestine remains fairly constant. This reduces the enzyme – nutrient contact, leading to reduced protein digestibility and reduced feed efficiency.
- **High fiber levels** due to higher number of alternate raw materials used.
- The feed ingredient characteristics like **particle size**, viscosity in solution, starch digestibility and lipid/protein/mineral content.
- Water soluble **non starch polysaccharides (NSP)** adversely affect digestibility by stimulating mucous production and increasing intestinal viscosity, resulting in wet litter.
- **Rancid fats** can compromise digestibility and can cause gastrointestinal disturbance and wet litter.
- **The ingredients which are rich in high potassium** can induce polydipsia, polyuria and wet litter.
- Nephrotoxins such as **Ochratoxin, Citrinin** can compromise renal function cause polyuria/ polydipsia.

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- **High intake of certain minerals** – Potassium, Sodium, Magnesium, Sulphate or Chloride.
- **Excess undigested protein** or poor quality feed protein levels in the feed will increase the production of uric acid in the kidneys, lead to wet droppings. This will lead to contact dermatitis.
- **Folic acid deficiency** causes diarrhea.
- Birds that are placed on a restricted feeding program, consume much more water than usual.

b) Management.

- Available feed space, water space, distribution of feeders, drinkers, air quality, ventilation, litter, temperature, and density.
- High temperature & high humidity.
- Foggers - with low-pressure systems and large particle sizes can cause wet litter if poultry house humidity is high.
- Wet litter problems occur quite easily in overcrowded houses. It is important that adequate feed and water space be provided in hot climates and additional drinkers be used during the very hot periods of the year.

Impact of wet litter – Economic & Performance

- Ammonia - Respiratory disease, Poor weight gains due to nutrient loss poor FCR & weight Gain.
- Disease - Mortality, Morbidity, and medication costs.
- Parasites - Anticoccidial drugs, De-wormers.
- Condemnation and downgrades – Breast blisters, transport loss, dirty eggs in layers & breeders.

Ultimately, we need to ensure the better gut health of our broilers to have a superior performance in terms of broiler meat production at an optimum production cost.



“Sub-clinical, clinical Clostridium infection related economic impact is about 2-4 point FCR or about 40-80 g body weight per bird”

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Mycotoxins, a big Threat to Poultry: Prevention and control.

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Mycotoxins a big Threat to poultry:

Mycotoxin is hidden enemy for poultry farming. Mycotoxin become worldwide problem due to high incidence and level of occurrence in animal feed. Increase in feed cost has just aggravated this problem. Mycotoxin have high potential risk to public health as well. According to the FAO **approximately 25% of the world's agricultural products are contaminated with mycotoxins** and this contamination may be due to saprophytic fungi before harvest of these crops while they are still in the field, during the process of harvest and even after harvest during the storage of these. The most common poultry feed ingredients contaminated by mycotoxins include - Maize, Wheat, Wheat by-products and Soybean meal. Storage condition of grains and environment factors are major factors for development of mycotoxins. Aflatoxins (AF), zearalenone (ZEN), ochratoxin A (OTA), fumonisin (FUM), trichothecenes such as deoxynivalenol (DON) and T-2 toxin are some of the mycotoxins that can significantly impact the health and productivity of poultry. In general, contaminated feeds usually contain more than one mycotoxin.



Extreme weather conditions, heavy rain and drought lead to plant stress making them more susceptible to fungal infections. Mycotoxins are small and stable

metabolites produced by fungi which can contaminate a wide variety of crops. The contamination of food and feed by mycotoxins is a global safety issue due to their adverse effects on human and animal health. In livestock & poultry, mycotoxins lead to important decreases in performance (growth, feed efficiency or reproduction issues) and consequently losses of revenue for farmers.

Common effects mycotoxin in poultry are reduced feed intake, poor weight gain, poor feed efficiency, poor growth performance, immunosuppression and poor hatchability along with increased mortality.

Mycotoxins vary in their chemical structures, which results in vast differences regarding their chemical, physical and biochemical properties. While considering the great variety of mycotoxin structures there is no single method, which can be used to deactivate mycotoxins in feed. Therefore, different strategies have to be combined in order to specifically target individual mycotoxins without impacting the quality of feed. The best-known method for mycotoxin deactivation is "binding" with the use of binding agents, which are referred to as mycotoxin binders, adsorbents.

Prevention and Control of toxin in feed by TOXKIL :

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- Avian Leukosis Virus
- Avian Leukosis Virus (Ag)
- Avian Pneumonia (chicken, turkey)
- Avian Reovirus
- Chicken Anemia Virus
- Infectious Bronchitis Virus
- Infectious Bursal Disease Virus
- Infectious Bursal Disease Virus—XR (extended range)
- *Mycoplasma gallisepticum*/*Mycoplasma synoviae* (chicken, turkey)
- *Mycoplasma gallisepticum* (chicken, turkey)
- *Mycoplasma meleagridis* (turkey)
- *Mycoplasma synoviae* (chicken, turkey)
- Newcastle Disease Virus (chicken)
- Newcastle Disease Virus (turkey)
- *Ornithobacterium rhinotracheale*
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Handling and Transportation of Broilers for Marketing

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Young chickens that produce meat are called broilers. Care must be used when handling broilers to prevent harm, suffering, or distress. Poor handling can result in bruising, shattered bones, scratches, and even death. Inefficient handling can increase the quantity of dead animals and impair the quality and grade of the carcasses. Abuse that is done intentionally will not be tolerated and will be prosecuted as a criminal offence.

Behaviour of Birds:

Birds are incredibly social animals which love to travel in flocks. The flock has a defined “flight zone” that establishes how close a person may get to the flock before the entire flock takes off at once. Each person has a different perception of this space. Additionally to flock-to-flock, species. Experienced catchers analyze a flock's behavior and modify their distance and catching technique as necessary. According to the technique they must mimic the movements and directives of seasoned catchers so that new crew members can learn from their actions and instructions. Everyone collaborates to move the flock as a team.

Birds could experience heat exhaustion when being captured and loaded. It's essential to prevent overheating in birds with a lot of meat. In flocks, excessive panting should always be watched out for, especially in hot weather. When it's hot outside, loading is typically done late at night or early in the morning when it's cooler to reduce the danger of heat stress in children.

There are also more factors that could lead to more stress, including:

Speed: When moving or approaching the birds, catchers should do it slowly since if they are approached too quickly, they may become angry and pile up, leap, or fly away crew members.

Highlight Points

It is necessary to handle and move poultry in a specific manner. This entails handling chicken securely, holding them up with both hands, and making sure there is enough room and ventilation. Utilize only vehicles that are suitable for the task when moving chickens. For trips longer than 65 km and lasting up to 8 hours, the transporter must be authorised to carry poultry (different rules apply for animals being transported for longer than eight hours). Drivers and attendants who transport farmed poultry more than 65 kilometres must be in possession of a current certificate of competence.

Light: Bright illumination stresses the birds. When loading, the lights should be turned down to keep the birds at bay while still being bright enough for the personnel to work safely.

Strangers: Birds become more agitated when strangers enter the building, especially if they are wearing bright (especially white) colours. Darker colours should be worn by crew members.

Noises: Since loud noises alarm birds, loading and capturing should be done softly as much as possible. No screaming or yelling at the birds will be allowed.

Getting Commercial Broilers Ready to Move

Take into account the following things when transporting and handling broilers:

- The type of housing and the number of bird stories.
- Following bird capture (day or night). The temperature and amount of light will be affected by this.
- The container size, bird weight, and size. The maximum number of birds that can fit in a container depends on both the size of the birds and the container.
- The birds must have enough room within the container to rest, sit, and move around while it is being transported. Unless you have reason to believe that the container

densities provided by the transporter or processor are insufficient, in which case you must speak with both the processor and the transporter. Weather conditions during capture and travel (such as temperature, humidity, precipitation, etc.) will determine whether additional safety measures are necessary.

- The length of the workday and crew background. New or inexperienced crews or crew members may need more supervision and/or time when loading birds. The welfare of the birds could be compromised due to catcher tiredness. Make sure there are enough workers and that they have ample rest to load the containers.

Among the frequent types of injuries in broilers are:

- A dislocated leg (Femur) caused by birds being dragged by their legs.
- Wings being crushed in container apertures, resulting in broken wing bones (radius, ulna, and humerus).
- Cranium, or crushed skulls, caused by heads getting stuck in container apertures.
- A wishbone that has been broken due to rough treatment, such as throwing or dropping birds.
- Concerns concerning the Safety of Chicken
- Equipment that is overloaded or broken might result in misery or even death.
- Inspect cargo containers for broken doors, sides, and bottoms as well as protruding wires.
- Marked containers should be removed from service as soon as possible. Repair or replace as necessary.

As well as figuring out the size and weight of the birds, determine the ideal number of birds per container. If there is a cause to think the container densities provided by the transporter or processor is unacceptable, you should check with those parties. The birds must be able to rest simultaneously on the container's floor without bumping into one another.

Remember that the number of birds per container may vary depending on the ambient temperature without the birds being directly on top of one another.

Be vigilant and double-check everything:

Record the loading and transit timings. Excessive or unexpected times need to be explained. The travel time to the processing facility must be taken into account. When it comes to scheduling trucks. Note the temperature and weather at the time of loading. It is necessary to remove any birds that have been hurt, are obviously ill, or are otherwise unfit for travel. The farmer or farm management may put the animals to death. Only individuals who have had the appropriate training and are competent should employ euthanasia in exceptional circumstances.

Manipulate birds with care

- NEVER hang birds by their legs when transporting them.
- Never hold a bird by the neck or wings.
- DO NOT carry more than FOUR birds with one hand, unless your manager instructs you to do so.

- AVOID THROWING OR DROPPING ANIMALS.
- Limit the amount of birds that fly close to people.

Manual Broiler Capture

- Dimming the lights during catching will limit bird activity, which will cut down on wing flapping and dust.
- The barn should be partially divided using fencing or gates.
- By carefully moving and trapping the birds, you may prevent them from leaping, fluttering, stacking, or being suffocated. The birds will benefit from this by avoiding harm, death, and skin scratches.
- To prevent harm to their legs, joints, and wings, gently seize broilers by their legs just above their feet and move them to containers.
- The size, age, and catching prowess of the birds should be taken into consideration while determining how many birds per hand. For hens weighing greater than 1.8 kg (4 lbs), the most birds per hand is four.
- The heavier birds should be carried on two legs. To prevent bone fracture, bruising, or damage, do not carry birds by the neck or wings.

Mechanical Catching and Loading of a Broiler

Some poultry capture businesses employ mechanical "catching" and loading equipment. In all commercial variations, the basic functions of a collecting head or "finger" system feeding onto a conveyor belt that transports the birds to the transportation containers are the same.

- The operator must make sure that the rubber fingers or collecting heads are gently pushed in the direction of the flock so that they can be put into the conveyer or collection belts without the need for mechanical force.
- Don't load the loader with too many birds at once. You can help the birds stay calm and view more of them by focusing on tiny groups of them at a time. The belt must move at a slow, steady pace maintained by the operators.
- The operator and other crew members keep a watch out for any birds that may be trapped under the machine, between the machine and poles or walls.
- The equipment needs to be turned off if a bird is captured. Find out how the bird got stuck in the loader, then either halt the conveyor or slowly turn it around to release the bird. DO NOT put your hands or fingers into the pinch points of the conveyor. Due to the need of protecting both workers and birds, extreme caution should be used if/when a bird is captured.
- Close the container once it has been filled with the right amount of birds.

Moving and loading

- Transport containers need to be properly made and maintained to reduce damage to the birds within as well as escape.
- Birds need to be placed into containers in an upright position to prevent asphyxia.

- The processor should send the capturing company the weight and loading density.
- Follow the container densities recommended by the relevant Code of Practice. Forklifts must be large enough to support the expected weight, operated by a certified or trained person, in proper functioning condition, and equipped with functional headlights (coloured for catching) and taillights.
- Only the forklift operator is allowed on the equipment (no passengers).
- Loaded containers should be shifted as much as possible horizontally.
- Loaded containers must never be abruptly inverted, dropped or jolted.
- If possible, keep fans running while catching to keep heat and dust away from the catching staff. Before moving the car, look for any escaping birds on the ground to make sure the exhaust isn't creating an issue nearby.

Extremes of heat and cold should be kept out of reach for birds. Provide the proper ventilation for relaxation and to ease tension. Reduce the total amount of time spent in lairage. In the face of severe weather, the parties involved decide jointly whether or not to load birds. Keep thorough notes of the loading circumstances, including any issues such strong winds, high temperatures, road closures or detours etc.

Reduce heat stress when loading and hauling during times of extreme heat and humidity

- All stakeholders must cooperate to stop loading birds during the hottest hours of the day or night.
- Inform other stakeholders as soon as you can if too many birds are unable to fly, if road conditions make humane transportation impossible, or if the flock won't be loaded.
- Snap pictures of the weather, birds, and the barn.
- Do everything possible to position the car so that the birds are shielded from the sun
- When capturing birds, keep in mind methods that decrease their anxiety while considering the various loading and barn designs. Follow the container density guidelines provided by the processor unless there is a concern that the densities mentioned are not appropriate in which case you must consult with the processor and the transporter (or the transporter in conjunction with the processor). In excessively hot temperatures, the maximum loading density should be decreased by 15% to 20%.
- If loading damp birds, load them last if at all possible. Transporters should arrive to the processing plant as soon as possible after loading. Load birds as quickly as you can without endangering bird welfare. Record any necessary short breaks' durations and times.
- Make plans for emergency measures in case traffic congestion slows or stops transit.
- The condition of the birds can be used to inspect the load as it is being delivered, but keep in mind that this observation is only accurate for the bottom external perimeter of the truck.

- Preserve trucks for hot weather by routinely maintaining engines, topping off fluids, etc.

Avoid loading and moving birds when it's extremely cold, snowing or windy

- To prevent loading birds during the coldest times of the day or night, all parties involved must cooperate.
- Inform other stakeholders as soon as you can if too many birds are unable to fly, if road conditions make humane transportation impossible, or if the flock won't be loaded. Take pictures of the weather, birds, and the barn.
- Try your best to position the car so that the birds are shielded from the wind. To lessen wind, this might entail lowering the outer tarps.
- Given the diverse barn and loading arrangements, measures that reduce the strain on the birds should be considered when gathering birds.
- Unless there is a reason to think the densities provided are not appropriate, in which case you should consult with the processor and the transporter, abide by the processor's container density recommendations (or the transporter's in consultation with the processor).
- As rapidly as you can without endangering the welfare of the birds, load them.
- It is not advisable to load wet birds. Wet birds are more prone to develop hypothermia or pass away when travelling since they can't control their body temperature in cool or cold environments.
- Make every effort to guarantee that the birds are dry when loaded and remain dry the entire time they are being transported.
- After loading, the transporter should get to the processing plant as soon as possible. Keep track of any brief interruptions needed to allow the load to warm up, including their duration. As necessary, adjust the tarps.

The graph below shows the temperature profile along a 53-foot trailer's midline while it transports broilers in spring like conditions with the tarps down. A low relative pressure in the front and a higher relative pressure in the back are the results of the pressures on the rolling trailer's exterior. Cooler air is drawn in from the back and transported forward, close to where a vent hole is often located, where it is then vented through roof apertures. Typically, the heated core is located close to the front of the body.

Throughout the Transportation

If you're travelling a long distance, make frequent stops to check the birds for signs of stress. In cold weather, slow down to reduce heat loss from the cargo; in hot weather, arrange a route where you can keep a steady pace to offer air movement; and so on. You may also need to open tarps or vents for increased ventilation or close them for added warmth. Overheating is indicated by reddened cheeks, combs, and wattles, as well as by rapid panting and open-mouthed breathing. Signs of cold include shivering, blue combs, fluffed feathers, and shaking. Purple combs and wattles are indicators of a lack of oxygen, as are gasping or stretching the neck when inhaling.

Healthy Gut

A prerequisite
for optimal performance



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GustoCheck

For control of loose droppings, clean
egg production and healthy gut function

PREVENTS DIARRHOEA/ENTERITIS

Prevents loose droppings, pasty vent, diarrhoea and enteritis

ECONOMIC BENEFIT

Lowers mortality, improve slaughter traits and egg quality, reduces breast and claw lesions

BUILDS GUT MICROBIAL ECOSYSTEM

Inhibits pathogens colonization and promotes microbiocenosis

ENVIRONMENT PROTECTANT

Better consistency of faeces, reduced NH_3 conc. in animal houses, better animal welfare and litter quality



Feed inclusion rate

500 g per ton of feed or
as advised by the poultry
consultant

Presentation

25 kg



Watery and sticky droppings in layers have been a problem in the egg industry for years. High proportion of non starch polysaccharides (NSP) increase gut viscosity leading to pasty vent / loose droppings. High fibre in diet, change in feed, irritant effect of organic acids, chemical toxin binders, feed contaminants, dietary factors, stress due to summer or high production are also responsible for non-specific diarrhoea & dysbacteriosis and further complicating into enterotoxigenic / enteroinvasive enteritis.



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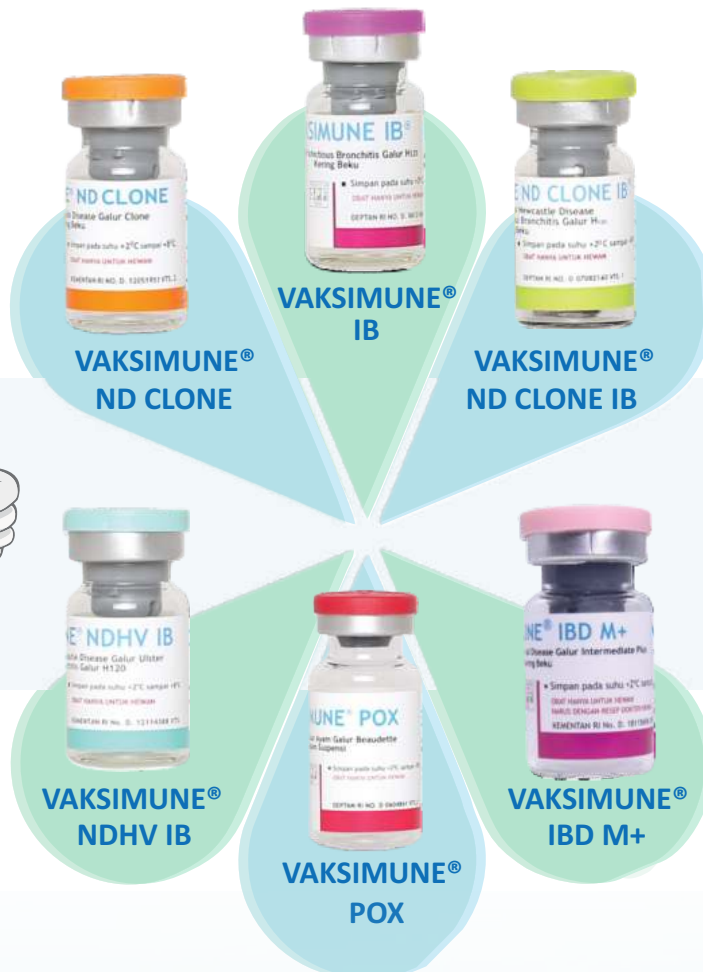
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For further information please contact :
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