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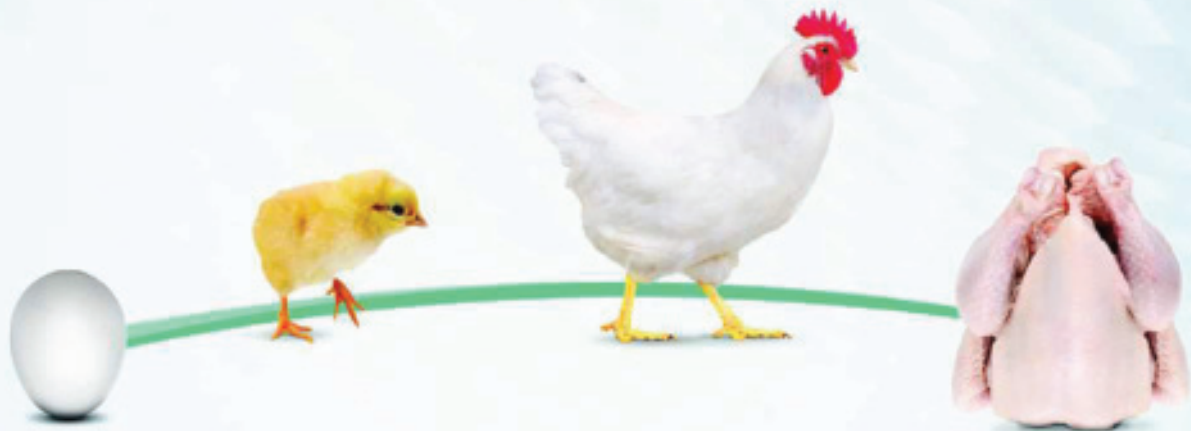
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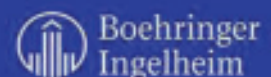
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The Racist Mindset!

With the onset of summer, the Poultry as usual is suffering the effects. The mortality for growth, higher infection levels due to low water table. All have added to the walls of the farmer. Special emphasis needs to be put on summer management, which is very essential to offset the damages. Use of cool water, electrolytes, antioxidants, feeding timings, proper density of ventilation all have their role to play. Do many farmers are already aware of these? Yet there is a yawning gap in the implementation of the same.

Farmers are used to spending a lot of money on treatment through antibiotics and other supplemental levels to fight diseases without realizing that a very well planned disinfection program can actually save a lot of money at a later stage. Poor hygiene as a result of poor disinfection is like creating a problem and then trying to solve it.

The hypocrisy of the West, especially the Europeans are getting obvious and getting exposed. While they support large organizations and NGOs preaching humanity, environment, Animal welfare, global warming yet when it comes to them, they plead blatant ignorance. Otherwise how come they support humanity when they dump tons of ammunition to be used in the Ukraine Russian war? How can they talk peace if they have unlimited finance to support war? What happens to innocent men, women, children, animals, and the environment now? Who's responsible for this? The EU themselves have their own economies suffering high energy costs, higher inflation and shortages. Strange European democracies wherein their leaders take decisions highly protested by their own people!

Germany, the most confused of the lot, is trying to preach to others with its own black spot of dismal record of crime against humanity in human history. Germany is busy portraying cartoons on the Indian population with an overloaded train as against a modern one trailing by the Chinese.

India is soon coming out with its own bullet train. India exports its metro coaches to Australia among other Asian countries. India has the second largest rail network globally- yet Europeans can see what it desires to. Is it the pure jealousy the cause of their myopic sight as an Israeli minister claimed? The fast rising India is a great cause of discomfort for many.

The sarcasm exposes the German Racist Character still embedded in its DNA. Its own house is in disarray when their own people are up in arms against military and financial support to Ukrainians. The Germans got ridiculed when they were used as victims by the USA to blow up the Nord stream to deprive them of Russian Gas- so that they support the war against Russia with vengeance. Strange that with all the hype about European intelligence they cloak themselves yet they are exposing their nativity.

It's time that the Asian media call out this diabolic attitude of the west!

Poultry media should take the lead in organizing regional shows to offer benefits in an affordable and widespread geography that has far better benefits of them being organized only in expensive metros!

BROILER LIFTING RATES FOR THE MONTH OF MARCH 2023

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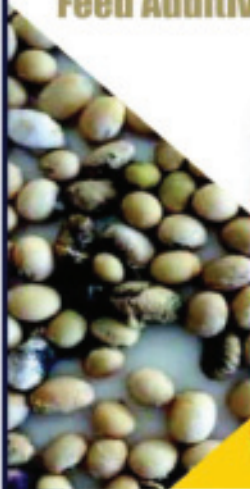
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WHAT IS STRESS???

In simple terms, any deviation from normal routine is called the stress. There are several reasons for stress and poultry always exposed to stress conditions which are due to various causes listed below.

1. Seasonal impact
2. Management causes.
3. Nutritional causes.
4. Disease causes.

Seasonal impact: The summer is the worst season which causes heat stress and early chick mortality. Stress management during summer is always challenging. Global warming impact is clearly seen and every year farmers suffers heavy losses especially during summer.

Management Causes: High brooding temperature, low brooding temperature, starvation, inadequate feeders and drinkers, high relative humidity; **poor brooding conditions:** All those listed reasons cause severe stress and cause heavy mortality in chicks and even in adult birds

Nutritional Causes: Water: Water is one of the essential elements for maintaining the health and performance of the birds. It not only acts as a transport medium for nutrients and metabolic end products but also it helps in maintaining body temperature during hot weather. Besides, water balances the minor deficiency of minerals like Na, Cl, K, etc. Unhygienic water causes high mortality.

Vitamins deficiencies: Vitamins are very essential parts of poultry diets. They take part in vital body processes like metabolism, growth and development, reproduction, repair of worn-out tissues; they serve as antioxidants, take part in enzymatic actions, etc.

Diseases: As the immune system is not fully developed at hatch, chicks are particularly susceptible to several viral, bacterial, and parasitic infections. High mortality rates during the first week tend to be very common in poultry productions because of omphalitis, respiratory tract infections, airsacculitis, and septicemia etc.

Probiotics, prebiotics, symbiotic, and postbiotics

Currently, different microorganisms are being used to reduce mortality during first week and protect the gastrointestinal tract. Positive effects of these products have been described in the performance and gut health of chickens. Beta Glucan is known to enhance immunity and bioactivity by promoting secretion of cytokines, activating macrophages, natural killer cells and neutrophils, and have antitumor, antibacterial and antiviral effects (Brown and Gordon, 2005).

Role of MSM (Methyl Sulphonyl Methane: MSM is the buzz word in stress management in not only poultry but in human beings too. It's one of the super foods as antioxidant and

typical stress controlling factor especially in young chicks and even in adult birds.

CONTROL OF EARLY CHICK MORTALITY & STRESS with:



Birds have limited body resources for growth, reproduction, response to environmental changes & defense mechanism. Birds are subjected to frequent stress factors listed above. Therefore, stress management plays a crucial role to get optimum performance. To address these critical issues, GLOCREST introduced its flagship product to control EARLY CHICK MORTALITY & STRESS named with following composition

is complete product to address all the stress factors and help to control early chick mortality. During summer it could be a 'Ramban' solution. Pl use it to know it. Basically, it is considered as **ORS – Oral Rehydration Solution**.

In some of the trial reports (can be provided on demand), it has been observed that there was 0.25-0.5% saving in mortality & there was 15-20g extra body weight in first 10 days against their normal routine products which could result approximate 100g extra body weight at the time of culling. In nut shell, is complete package to manage summer stress and controlling early chick mortality and stress conditions in chicks and adult birds too. It can be given 1g/lit water or can be also added in 1kg/ton of feed. However, drinking water application can give instant results.

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Vitamin B2	1 g
Vitamin B3	14 g
Vitamin B5	4 g
Vitamin B6	600 mg
Vitamin B12	2.5 mg
Methyl Sulphonyl Methane (MSM)	10 g
Mannan Oligo Saccharide (MOS)	5 g
Protein Hydrolysate	30 g
Beta glucan	5 g
Lactobacillus acidophilus	50 x 10 ⁹ CFU
Saccharomyces boulardi	10 x 10 ⁹ CFU
Bacillus subtilis	10 x 10 ⁹ CFU
Sodium sulphate	100 g
Potassium sulphate	100 g

Alltech's Dr. Aman Sayed shares his career journey

[Bangalore, India] –Dr. Aman Sayed is the managing director of India and regional director of South Asia at Alltech. He earned his master's degree in veterinary (Poultry) science from Bombay Veterinary College and was honored with gold medal distinctions both at graduation and post-graduation. In the mid-2000s, through the work he completed during the last year of his master's program, he realized that there weren't enough veterinary specialists in the field and that customers were in dire need of professional assistance. This realization led him to begin pursuing roles in privately owned enterprises.

His journey began in the year 2000, with setting up an R&D farm for an Iowa-based multinational firm, where he was later elevated to a technical position serving West India. In 2003, he joined Emirates Agriculture Technologies to oversee a free-range poultry project in Sharjah. He gained job experience in Dubai during his time in the Middle East and established Kentucky Equine Research's operations there, working in the equine racing industry.

The opportunity to join Alltech knocked on his door in 2005, and Dr. Sayed recalled that moment by saying, "It has been said that everything comes to you at the correct time and that you need to trust the process, and this exactly defines my career."

He initially had the chance to meet Alltech's creator, Dr. Pearse Lyons, in 2006. Dr. Sayed was profoundly impacted by his encounter with Dr. Lyons on multiple levels. Dr. Sayed has always been driven by and remains motivated by Dr. Lyons' philosophy that problems need to be proactively addressed as soon as possible rather than waiting for them to happen and then reacting. Dr. Lyons' advice inspired him to always go that extra mile and helped him land in his current position.

While working at Alltech, Dr. Sayed has learned that

every day is a new day and a new beginning. He wants his team to maximize business growth and serve customers to the very best of their ability.



Over the course of more than 17 years with Alltech, Dr. Sayed has held a number of positions, rising from business development manager to regional area manager for the business's poultry and dairy operations in West India. Later in his career, he took on the responsibilities of general manager of sales for North India and started to manage the markets in Bangladesh and Nepal. He eventually rose to the position of general manager for Poultry in India before being elevated to general manager of South Asia in 2012.

He has participated in numerous professional training programs, including the Alltech Mini-MBA program in collaboration with the University College Dublin Michael Smurfit Graduate Business School in Ireland, in addition to getting experience while managing Alltech's multispecies business unit. He gained knowledge from the course about the value of preserving an entrepreneurial attitude and being prepared to take financial risks in order to turn a profit.

As someone who serves in a decision-making role, Dr. Sayed has the responsibility of building a team of people who have a strong work ethic. He consistently assesses team members based on three fundamental values: honesty, openness and diligence. He thinks that everyone who works for any company should uphold these fundamental

values. A person's ethics and morals, a growth-focused attitude, and a high degree of engagement, both personally and professionally, can be seen in this trio of characteristics.

Over his 23-year career journey, Dr. Sayed has experienced both calm and rough waters while making challenging decisions related to driving business growth and profitability. To tackle these challenges, he has always strived to make unbiased decisions guided by the core principles of business growth – but he also endeavors never to neglect the human aspects of empathy, compassion and emotion.

In 2019, Dr. Sayed had a meeting with Dr. Mark Lyons, Alltech president and CEO, where the Indian Poultry Journalists Association posthumously honoured Dr. Pearse Lyons with a Lifetime Achievement Award. At the event, Dr. Mark Lyons spoke about Alltech's purpose of Working Together for a Planet of Plenty™ and invited everyone to collaborate, across industry sectors and geographical boundaries, to create a place where animals, plants and people thrive in harmony.

"I am so delighted to be a part of this vision, which focuses on creating a world of abundance for future generations," said Dr. Sayed. "This mission continues to drive me to make a positive contribution, as the only way to do exceptional work is to enjoy what you do. I feel passionate and energetic about what I do at Alltech; it's what I live and breathe."

Dr. Mark Lyons has shared the proverb, "If you want to travel fast, go alone; but if you want to go far, go together." Dr. Sayed is a great supporter of teamwork above individual performance, and taking that route has gotten his team to where they are today. This motto makes him even more ambitious, and he hopes to serve in larger geographic areas in the future.

"Because of their sheer dedication and contributions to society and to my life, I will always be grateful to the Lyons family," said Dr. Sayed.

For more information about Alltech India, visit www.alltech.com/en-in.

Contact:

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About Alltech:

Founded in 1980 by Irish entrepreneur and scientist Dr. Pearse Lyons, Alltech delivers smarter, more sustainable solutions for agriculture. Our diverse portfolio of products and services improves the health and performance of plants and animals, resulting in better nutrition for all and a decreased environmental impact.

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We believe agriculture has the greatest potential to shape the future of our planet. Our more than 5,000 talented team members worldwide share our purpose of Working Together for a Planet of Plenty™. Together, we can provide nutrition for all, revitalize local economies and replenish the planet's natural resources.

Headquartered just outside of Lexington, Kentucky, USA, Alltech serves customers in more than 120 countries, has five bioscience centers, and operates more than 80 manufacturing facilities across the globe.

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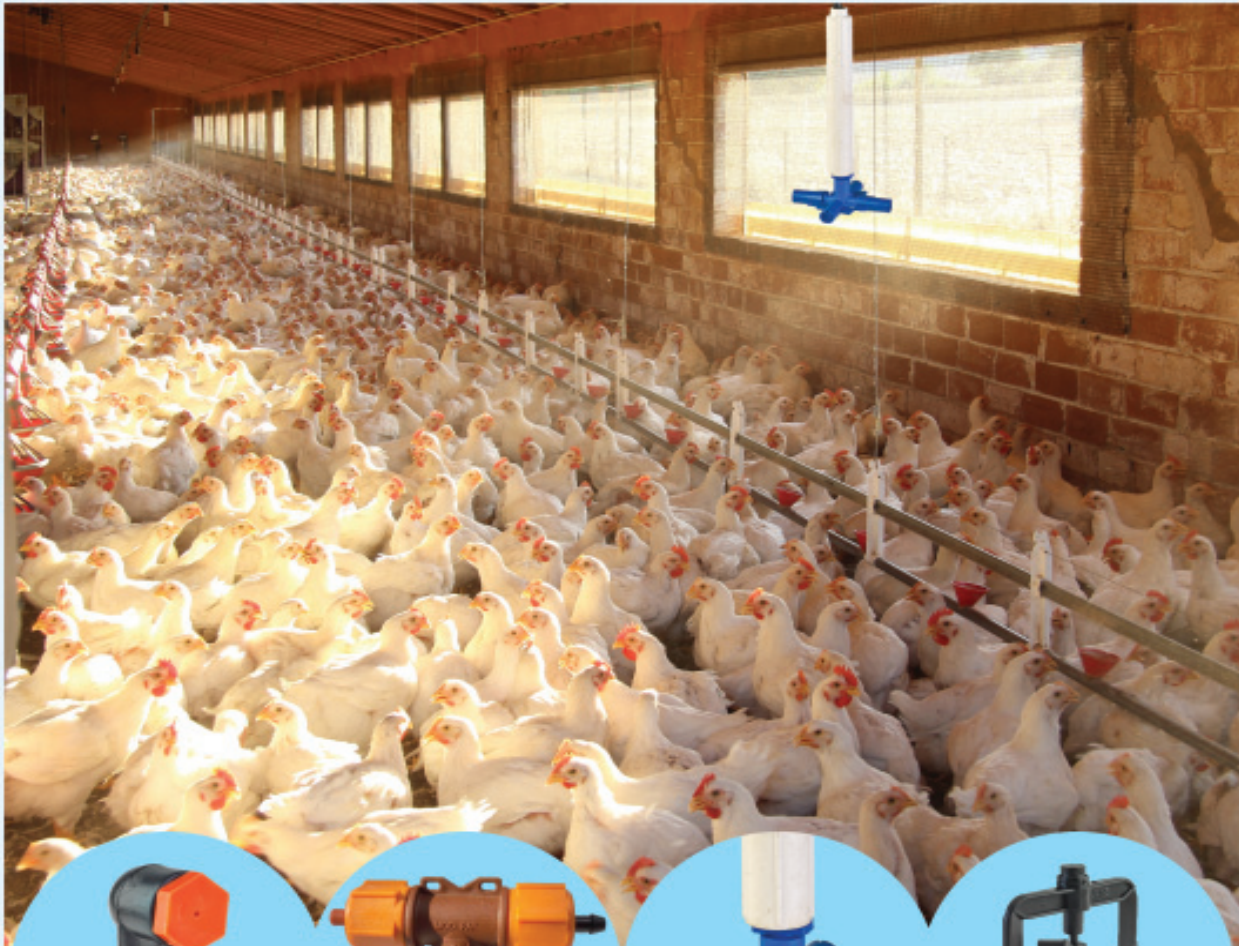
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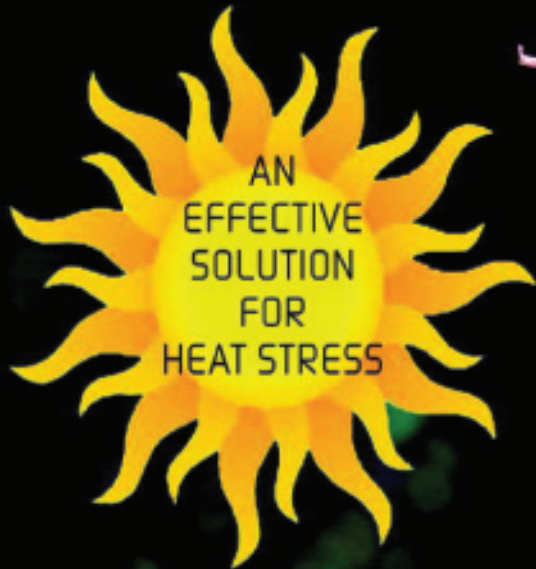
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Canine Distemper

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Abstract: The most prevalent and contagious disease affecting domestic dogs (*Canis familiaris*) worldwide, canine distemper (CD), is an acute, highly contagious viral illness that affects both carnivores and domestic dogs of all ages. Its mortality rate is second only to that of rabies. The canine distemper virus is a Morbillivirus belonging to the Paramyxoviridae family. It is a rather large (150-250 nm) single-stranded RNA virus with a lipoprotein envelope. Young, unvaccinated dogs frequently contract canine distemper within their first year of life. Other body excretions and secretions, such as urine, can infect susceptible hosts if aerosolized and transferred by direct touch. The transmission is through aerosolization of respiratory exudates harbouring virus. Canine distemper infection is not curable; therapy focuses more on preventing secondary complications and providing supportive care.

Introduction: The etiological agent of canine distemper is the canine distemper virus (CDV), also known as canine morbillivirus and a member of the Paramyxoviridae family. Since 1760, it has been recognised as a highly infectious and severely febrile disease in dogs. Infections of the respiratory, gastrointestinal, urinary, lymphatic, cutaneous, skeletal, and central nervous systems (CNS) are caused by various cell tropism (epithelial, lymphoid, and neurological) that is connected with it (Lemp et al 2014). Members of the Canidae, Procyonidae, and Mustelidae are just a few of the many carnivore families that can contract the canine distemper virus (CDV). Typically occurring in the first year of life, CD is frequent in young, unvaccinated dogs, while numerous cases are also reported in adulthood. Some of the highest fatality rates for infectious diseases in dogs are caused by canine distemper.

Transmission: Direct contact between the

susceptible dog and infected dogs or wildlife is the most frequent cause of infection. The main way that CDV spreads is through the aerosolization of respiratory exudate that contains the virus, but other bodily excretions and secretions, such as urine, might infect hosts who aren't susceptible if they are exposed to them. Its IP spans a period of roughly 1 week to 1 month. Canine distemper is extremely contagious, and virus shedding may occur 60 to 90 days after infection. There is evidence that domestic dogs can get a transplacental infection. It is unknown whether vertical transmission can occur in non-domestic species or its epidemiologic significance in CD. The virus can survive at lower temperatures, despite often having a brief lifespan in the environment. Additionally spread through either direct contact or spores (Pearson and Gorham, 1987).

Pathogenesis: The virus often enters through the upper respiratory tract's epithelium, growing in macrophages before spreading to the tonsils and local lymph nodes, where it can replicate within two to four days of infection. Within a week, CDV multiplies in lymphoid organs such as the lamina propria of the stomach and small intestine, Kupffer's cells in the liver, mesenteric lymph nodes, and spleen. Leukopenia and fever are linked to viral spread due to T and B cell suppression. The virus eventually infects epithelial cells all across the body. Dogs with significant humoral and cellular immunity may exhibit clinical symptoms, but most tissues will be cleared of the virus in 3 weeks. The host immune response that is humoral and cell-mediated determines the pathogenesis between 9–14 days. Canines with the neurological condition could develop due to the virus's epithelial damage, the footpads and nose have hyperkeratosis (thickening). As a result of this canine form, the term "hardpad disease" has become a widespread

alternate term for canine distemper. Less than 50% of adult dogs with CDV infection pass away from it; but, in puppies, the mortality rate can reach as high as 80% (Williams, 2001).

Clinical Signs: After the incubation period of 3-6 days of canine distemper virus infection, a brief fever and leukopenia (defined by lymphopenia) may appear; these clinical symptoms may go unrecognised or may be accompanied by malnutrition. A second fever that may be accompanied by lethargy, anorexia, serous nasal discharge, mucopurulent ocular discharge, and other symptoms appears after the first one has subsided for a few days. Following may be GI and respiratory symptoms that are occasionally complicated by subsequent bacterial infections, as well as pustular dermatitis. Encephalomyelitis may accompany these symptoms, follow a systemic illness, or develop in the absence of systemic symptoms. Dogs who survive the acute phase may develop hyperkeratosis of the footpads and nasal epithelium, as well as enamel hypoplasia in teeth that have not fully erupted (Gelatt et al., 1985).

Any age dog can get neurologic distemper, even if there were no or just minor systemic symptoms, and older dogs may develop chronic progressive neurologic impairment as a result (usually over 6 years of age). Depending on how the virus affects the CNS, neurologic consequences can manifest as hyperesthesia, cervical rigidity, seizures, cerebellar and vestibular symptoms, paraparesis or tetraparesis with sensory ataxia. Another very strong indicator of CD is the involuntary twitching of muscles in a powerful synchronous contraction, which frequently results in "chewing gum" fits. Digital hyperkeratosis (hard pads) and optic neuritis, chorioretinitis, and uveitis are additional CDV symptoms in domestic dogs. Pneumonia, conjunctivitis, rhinitis, and tracheitis are all symptoms of distemper in puppies. The lungs are usually swollen, and a broncho-interstitial pneumonia is seen under the microscope, along with necrosis of the epithelium lining the tiny airways and thickening of the alveolar walls.

Other neurological symptoms include spinning,

head tilting, nystagmus, paresis, and paralysis as well as various types of seizures, from focal to widespread. Greater neurotropism may be linked to newly emerging virus strains. There have been more cases of morbidity and death due to neurological issues. Lymphopenia is one of the non-specific clinicopathologic signs, and it's likely that very early in the course of the disease, circulating leukocytes contain viral inclusion bodies. A viral pneumonia-specific interstitial pattern may be seen on thoracic radiographs.

Chronic distemper encephalopathy, also known as old dog encephalitis (ODE), can occur in completely immunised adult dogs without a history of systemic canine distemper infection. ODE symptoms include ataxia, compulsive behaviours such head pressing or constant pacing, and uncoordinated hypermetria. Although some dogs with ODE have had canine distemper antigen found in their brains using fluorescent antibody staining or genetic techniques, these dogs are not contagious, and no replication-competent virus has been recovered. The persistent canine distemper virus infection in the CNS causes an inflammatory response that causes the disease; however, it is not known what causes this syndrome (McLachlan and Dubovi, 2011).

Lesions: A common postmortem finding in young puppies with canine distemper virus infection is thymic atrophy. In dogs with neurologic symptoms, hyperkeratosis of the snout and footpads is a common finding. Bronchopneumonia, enteritis, and cutaneous pustules may also exist, depending on the severity of the secondary bacterial infection. It's possible to find just respiratory anomalies in deaths that were acute or subacute. Histologically, the canine distemper virus causes cytoplasmic and intranuclear inclusion bodies in the respiratory, urinary, and GI epithelium, as well as necrosis of lymphatic tissues, interstitial pneumonia, and these conditions.

Dogs with neurologic issues have many brain lesions, including development of new neurons. Gliosis is characterised by non-inflammatory demyelination, perivascular cuffing and non-

suppurative leptomeningitis. Glial cells predominately contain intranuclear inclusion bodies.

Diagnosis: Clinical assessment serves as the initial diagnosis and reverse transcriptase PCR (RT-PCR) and antibody detection as confirmation tests. Any febrile disease in dogs with multisystemic clinical symptoms affecting the respiratory, gastrointestinal, and/or nervous systems should be diagnosed with canine distemper. Dogs that are unvaccinated or whose immunisation status is uncertain should be given special suspicion. The first step is to establish an appropriate index of suspicion based on clinical indicators. In carefully chosen clinical instances, widely accessible RT-PCR and antibody detection assays (ELISA, immunofluorescence assay [IFA]) are utilised to demonstrate the existence of the virus or an immune reaction against it.

IFA or RT-PCR may be used in canines exhibiting multisystemic clinical symptoms to test for: Conjunctival, tracheal, nasal, vaginal, or other epithelial smears, transtracheal wash fluid, urine, bone marrow aspirates, and buffy coat of the blood. Quantitative RT-PCR may be able to evade the issue that commercially available RT-PCR may not be able to distinguish between natural infection and virus produced from a vaccine. A substantially higher level of antibodies in the CSF is indicative of a natural infection than vaccination, and antibody titers or ELISA can be used to compare CSF with peripheral blood. Biopsies from the dorsal neck's hairy skin or the footpads can be used to detect viral DNA using fluorescent in situ hybridization (FISH) or viral antigen IFA.

Treatment: Canine distemper has no specific therapy. However, they are symptomatic and supportive and are intended to prevent subsequent bacterial invasion, promote fluid balance and manage neurologic symptoms. Good nursing care is crucial, and the use of broad-spectrum antibiotics, balanced electrolyte solutions, parenteral feeding, antipyretics, analgesics, and anticonvulsants is common (Creevy, 2013).

Prevention and control: The best method of preventing canine distemper is immunisation. For dogs and other domestic and nondomestic animals, a number of canine distemper vaccinations are available (Deem et al 2001). Domestic dogs are currently immunised with commercially available vaccines that include the altered live virus (MLV). Puppies receive the MLV vaccine at 6 weeks old and then every 3 to 4 weeks until they are 16 weeks old. UV radiation, heat, desiccation, and conventional disinfectants including formaldehyde, phenolic chemicals, and quaternary ammonium compounds can all severely harm the virus. The virus is also exceedingly fragile. Additionally, it cannot endure the environment for more than a few hours at room temperature (25°C), but it can survive the environment for at least two weeks at temperatures close to freezing (5°C).

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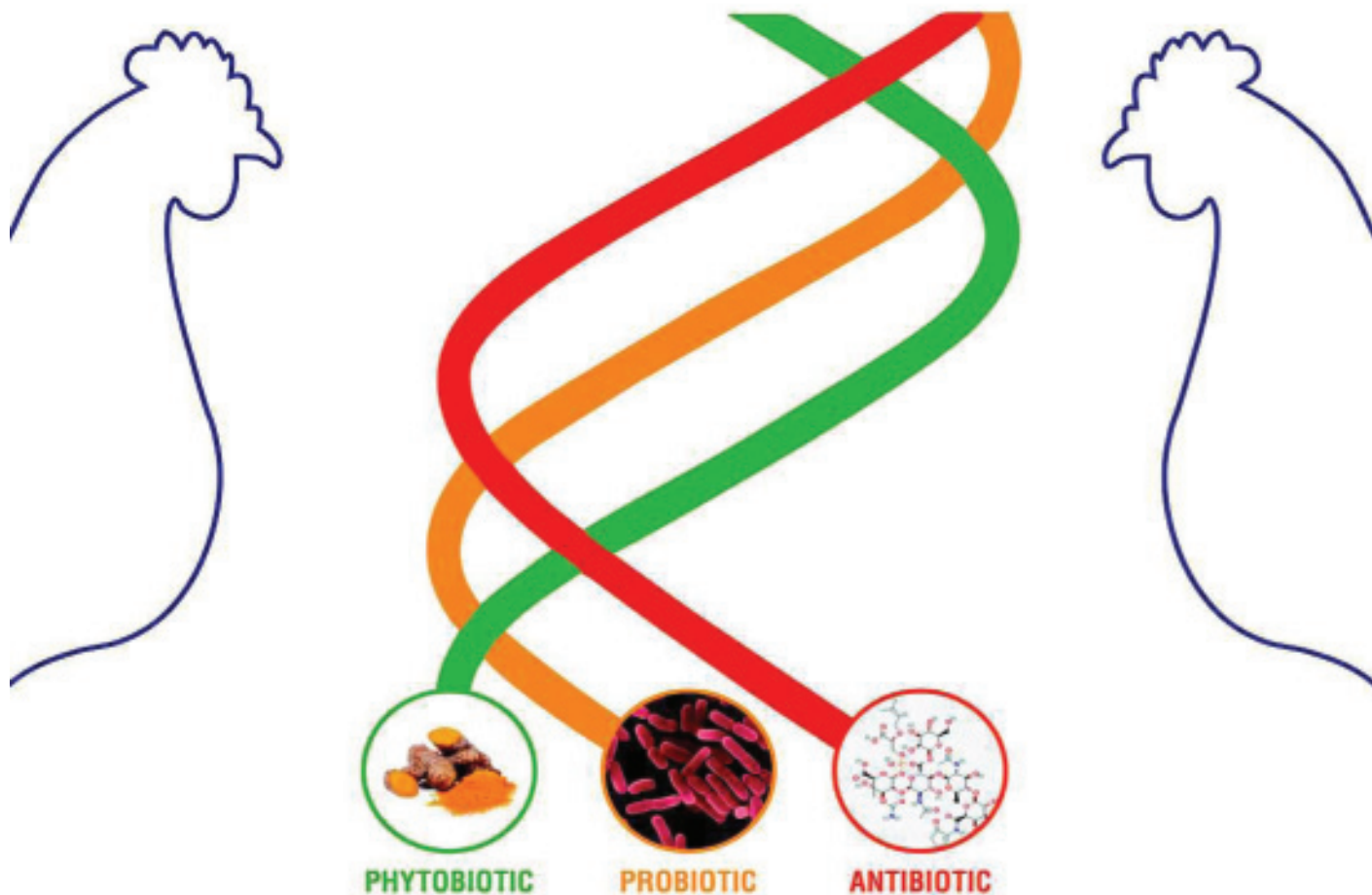
Name of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
NECC SUGGESTED EGG PRICES																																
Ahmedabad	450	-	455	455	430	430	430	430	430	430	430	430	430	430	430	410	410	410	410	410	410	413	418	430	445	455	460	-	460	440	-	
Ajmer	410	-	412	400	385	385	-	385	386	386	389	389	-	380	360	-	-	355	345	350	-	375	401	-	410	400	-	400	-	400	-	-
Bengaluru (CC)	445	-	450	450	-	440	440	410	410	410	410	410	-	410	410	-	410	400	400	400	400	410	420	-	460	-	465	475	475	-	-	
Chennai (CC)	465	-	465	465	465	465	465	435	435	435	435	435	435	435	435	-	435	415	415	415	415	415	425	445	465	490	490	490	490	490	-	
Chittoor	458	-	458	458	458	458	428	428	428	428	428	428	428	428	428	-	428	408	408	408	408	418	438	458	483	483	483	483	483	-	-	
Delhi (CC)	-	-	-	425	-	-	-	-	-	-	-	-	-	-	402	402	-	-	-	-	-	-	390	-	428	-	-	-	-	-	-	
E.Godavari	411	-	417	417	417	403	403	395	395	395	385	385	385	385	385	-	365	355	345	345	345	345	365	385	415	435	440	445	445	445	-	
Hyderabad	400	-	405	405	385	385	370	370	370	355	360	363	-	363	350	-	350	350	350	353	-	370	400	-	430	435	-	415	-	-	-	
Mumbai (CC)	460	-	465	465	445	445	445	430	430	430	420	420	423	423	423	-	410	410	410	410	410	413	418	430	450	-	485	490	490	475	-	
Mysuru	450	-	453	453	445	-	-	415	415	410	410	410	410	410	410	-	410	405	405	-	-	418	428	430	-	465	470	470	475	475	-	
Nagpur	-	-	420	420	-	-	-	-	-	-	-	-	405	375	-	-	385	-	385	-	-	-	-	470	470	-	-	-	-	-	-	
Namakkal	450	-	450	450	450	450	420	420	400	400	400	410	410	410	410	-	410	410	410	420	420	420	430	430	450	450	450	455	455	435	-	
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Warangal	402	-	407	407	387	387	372	372	372	357	362	365	365	365	352	-	352	352	352	355	360	372	402	-	432	437	437	417	417	-		

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Barwala	406	-	406	406	385	385	385	375	375	375	379	382	-	382	350	-	355	355	-	345	352	368	395	-	407	407	-	-	-	-	-
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Jabalpur	-	-	418	418	418	400	400	-	-	-	380	380	-	424	380	-	380	-	380	-	380	-	380	390	-	435	435	-	435	-	-
Kanpur (CC)	452	-	452	438	438	429	429	414	-	414	414	424	424	424	438	-	452	452	452	438	438	438	448	-	471	471	471	471	471	471	-
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Luknow (CC)	473	-	473	473	467	467	467	457	-	450	450	450	450	450	463	-	483	483	483	483	483	483	483	483	-	500	500	500	500	500	-
Raipur	-	-	410	-	410	-	-	395	-	-	395	-	-	398	398	-	380	-	380	-	380	-	385	-	-	455	455	-	-	-	-
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Brahmapur (OD)	428	-	435	435	435	420	420	412	412	412	404	404	404	404	404	-	384	365	355	355	355	385	405	435	455	458	-	463	463	-	
Ludhiana	408	-	408	408	408	398	390	380	380	376	-	-	-	381	381	-	355	355	-	355	347	360	374	-	407	407	-	-	407	-	
Muzaffarpur (CC)	472	-	474	466	460	440	440	440	-	442	-	445	445	445	435	-	425	415	415	415	415	415	430	445	-	475	475	475	465	465	-
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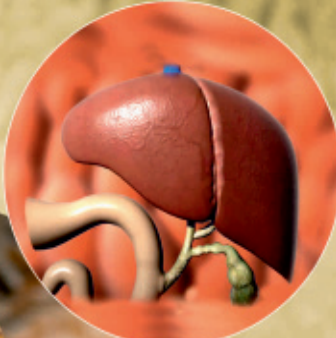

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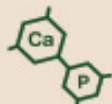
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Antibiotics in Poultry: BANE or BOON?

- Kanjanabh Kumar Das

College of Veterinary Science, Khanapara

The modern commercial poultry production in India is barely 50 years old, although backyard poultry keeping dates back to pre-historic period. The indigenous birds of India, although highly broody, exhibit high disease resistance power. To upgrade and exploit this trait, some Christian Missionaries imported exotic birds with the aim of producing disease-resistant hybrid layers (1955-1965). At present, in addition to the modern hybrid layers and broilers, India has 300-500 millions of indigenous chicken, aiding to the massive growth of the industry. The current net worth of the poultry industry in India is 16 billion USD, providing direct employment to 2 million people and many more, indirectly. Even at such an early stage, India ranks 5th in Broiler Production and 3rd in Egg production in the world (as of data calculated in the year 2013). Antibiotics have played an important role in this growth, by reducing mortalities and accounting for better welfare of birds.

THE POSITIVES:

An antibiotic, by definition, is a type of antimicrobial substance active against bacteria. There are two types of antibiotics- Bacteriocidal (L.cide: kill) & Bacteriostatic (sta: set down). Antibiotics in poultry are generally administered to the entire flock and are used for the treatment of diseases (therapy), disease prevention (metaphylaxis i.e treatment of a group of animals without evidence of disease), and growth promotion. Some diseases in which antibiotics play an important role are colibacillosis, necrotic enteritis, and other diseases generally caused by Salmonella, E. coli, Clostridium spp.

Subtherapeutic doses of antibiotics have been found to enhance bird performance by:

- 1) Increasing Growth

- 2) Improving Feed Efficiency (FE)
- 3) Favorably altering intestinal bacteria
- 4) Reducing the incidence of disease

Some commonly used antibiotics in chicken farming are: oxytetracycline, chlortetracycline and doxycycline (class tetracyclines); enrofloxacin and ciprofloxacin (class fluoroquinolones) and neomycin, an aminoglycoside.

It is important to know that orally dosed antibiotics do not promote growth in germ-free chicks (raised in Environment Controlled Houses). Although the exact mechanism by which the improvements occur is not known, it is based on the hypothesis that the presence of bacteria in the intestine reduce bird growth. The importance of antibiotics can also be reflected by the following:

- 1) Antibiotics reduce the production of growth-depressing microbial metabolites
- 2) Antibiotics reduce the use of nutrients by intestinal microbes
- 3) Antibiotics allow for enhanced uptake of nutrients by reducing the thickness of intestinal wall
- 4) Antibiotics also reduce the occurrence of subclinical infections

One might be familiar that a prescription for antibiotics is often accompanied by the prescription of substances known as probiotics. Probiotics are live microorganism that are intended to have health benefits when consumed. Antibiotics (anti: against, biota: life) might kill the beneficial microflora that is present in the gut. Probiotics simply help to keep their numbers up, even with the effect of antibiotics.

Prebiotics are specialized plant fibers. They act as fertilizers that stimulate the growth of healthy bacteria in the gut. A combination of prebiotics &

probiotics may sometime be used in case of strong antibiotics.

Prebiotic are physically indigestible by the bird, however they serve as an important food source for the growth of probiotic organisms.

THE NEGATIVES:

"Antibiotics are being routinely administered to chickens on Indian poultry farms in small doses to promote growth and keep disease at bay, almost as a replacement for nutrition and sanitation", says a study led by Ramanan Laxminarayan. Tetracyclines and fluoroquinolones, antibiotics commonly used to treat cholera, malaria, respiratory and urinary tract infections in humans, were the most commonly used antimicrobials, with nine farms admitting their use.

The major threat of using such high concentrations of antibiotics is the emergence of antibiotic-resistant bacteria (eg: MRSA i.e. Methicillin-resistant *Staphylococcus aureus*). This is especially serious in our country, us being the world's biggest consumer of antibiotics for human use. These pathogens can spread from person to person in the community, causing serious diseases that call for intensive care. Even hospitals & clinics might serve as hot spots of these organisms, causing wide range nosocomial infections. That is why, careful prescribing of antibiotics in poultry & other livestock farms is necessary.

For instance, when we eat chicken sourced from poultry raised on growth promoters, we ingest antibiotic-resistant bacteria that were harboured within the chicken. Those bacteria can make us sick. However, they do not respond to conventionally prescribed antibiotics so our sickness is hard to treat or can even be untreatable. Cooking at a high temperature kills all bacteria but uncooked meat can harbour resistant bacteria. Also, heat cannot break down some of the antibiotic

residues that may have remained within the meat.

"Excess of everything is bad", and the same applies to the use of antibiotics in chicken farming. They help keep chickens healthy, which in turn helps ensure safe, healthy food. Antibiotics, coupled with efficient managemental practices and sanitation is essential in containing outbreaks and maintaining a healthy flock.

Despite their importance, one could wonder whether there are any alternatives to antibiotics, if any. Although there are a few, including- probiotics, prebiotics, symbiotics, organic acids, immunostimulants and phytochemicals (herbs, botanicals, essential oils, and oleoresins), the effectiveness of these are highly debatable when compared to the highly efficient antibiotics.

Some measures that can be undertaken to ameliorate the problems related to antibiotic use are as follows:

- 1) **Setting up an Organic Poultry Farm:** An organic poultry farm limits on unit sizes and stocking density, and avoids intensive housing conditions- this reduces the spread of diseases among the flock. Preference of homeopathic and/or ayurvedic treatments over allopathic also reduces antibiotic concentrations in the flock. Thus, there is less chances of residual effect of drugs on animal products.
- 2) **Raising Awareness among farmers & consumers:** Educating farmers about when to use antibiotics, demerits of antibiotic misuse, diseases and potential outbreaks will greatly benefit the industry, as well as ensure quality products that meet the safety standards. A veterinarian's prescription is essential while using antibiotics.
- 3) **Better Management Practices:** Sanitation & balanced nutrition are a must for a healthy flock.

Managers can work on preventing diseases by efficient disposal of carcass & waste, strengthening biosecurity measures and timely vaccination of the birds. Moreover, disinfection (fumigation) of the shed is necessary before flock replacement.

- 4) Choosing Genetically Superior Birds: Improvement in gene-modification technology and extensive cross breeding programmes have led to the creation of genetically-engineered birds, which are resistant to many diseases easily contracted by conventional poultry. Such birds do not require much prophylactic antibiotics, while not compromising on production efficiency.
- 5) Intervention by the Policymakers: In recent years, the issue of Antibiotic Resistance has gained high profile among the people, with the announcement of a National Action Plan-setting up of a basic surveillance system, intersectoral cooperation initiatives and public awareness campaigns supported by official health agencies and civil society groups. The Indian Government have passed several laws regarding the use of antibiotics in livestock farming. The Health Ministry has also banned the use of certain drugs in the past (eg: Colistin), which could amplify the growing problem of antimicrobial resistance.

In addition to these, researchers around the world are studying further substitutes for antibiotics, as well as their mechanism of action. In just a span of half a decade, India is holding the global rankings of 3rd in egg & 5th in chicken meat production. The avenues of scientific research in this field is immense and the role of antibiotics in this growth has been a major one. While antibiotic resistance

is a complex issue, the reasons why they are necessary as a vital part of modern agriculture are simple, straight forward and guided by the belief that they must always be used responsibly.

Acknowledgement:

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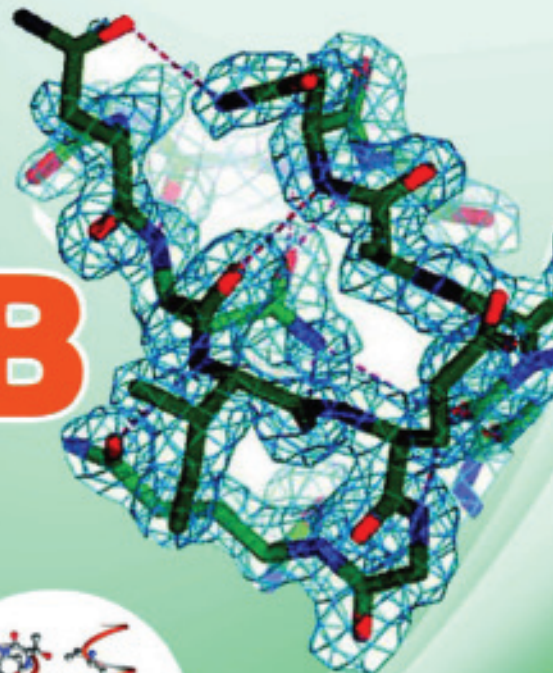
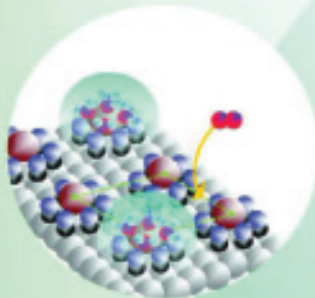
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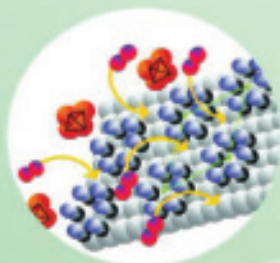
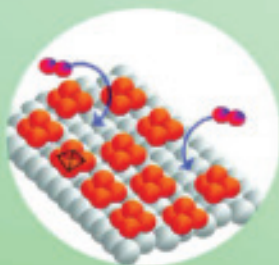
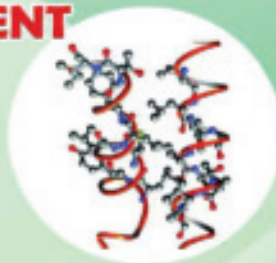
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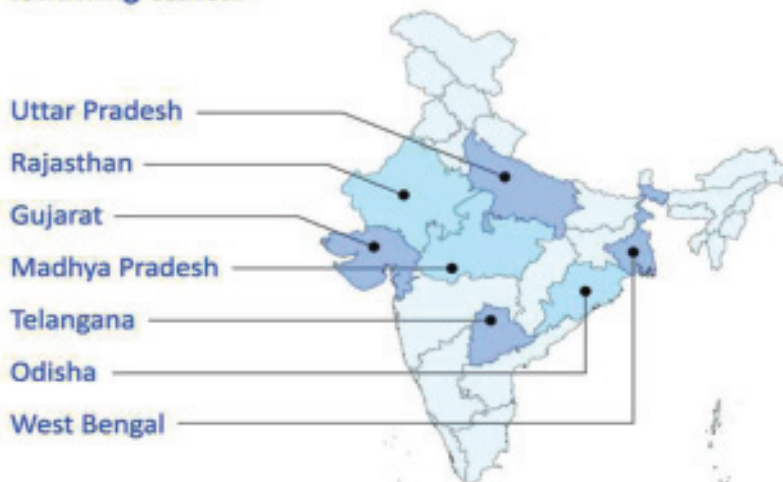


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Growing up, S Rajesh Reddy was inspired to carry on the legacy in the poultry industry by his father's ethics and principles regarding environmental sustainability model he has adopted in the poultry farm.

S. Rajesh Reddy believes, you're what you eat and that every individual deserves good proteins and it must be made accessible to them. He always envisioned the poultry sector in agriculture would energise the rural economy. He thinks that poultry is the best source of protein that everyone would afford. With a background in poultry farming and an MBA, Mr. Reddy began his entrepreneurial journey more than two decades ago when he saw an opportunity to offer the people of Bengaluru high-quality poultry products that are sourced locally. The inflection point was Covid pandemic. As the quote "Never let a good crisis go to waste", he invested in the robust technology and equipments that enabled him to streamline all aspects of the production process and maximize efficiency. The importance of quality protein went up one notch during pandemic and Mr Reddy connected the dots of Health, Immunity, Protein & SR's Daily nutrition. Being a people's person, he established close relationships with suppliers and farmers ensuring the company had the best resources. He says, "It is important to have the ability to think about and plan for the future

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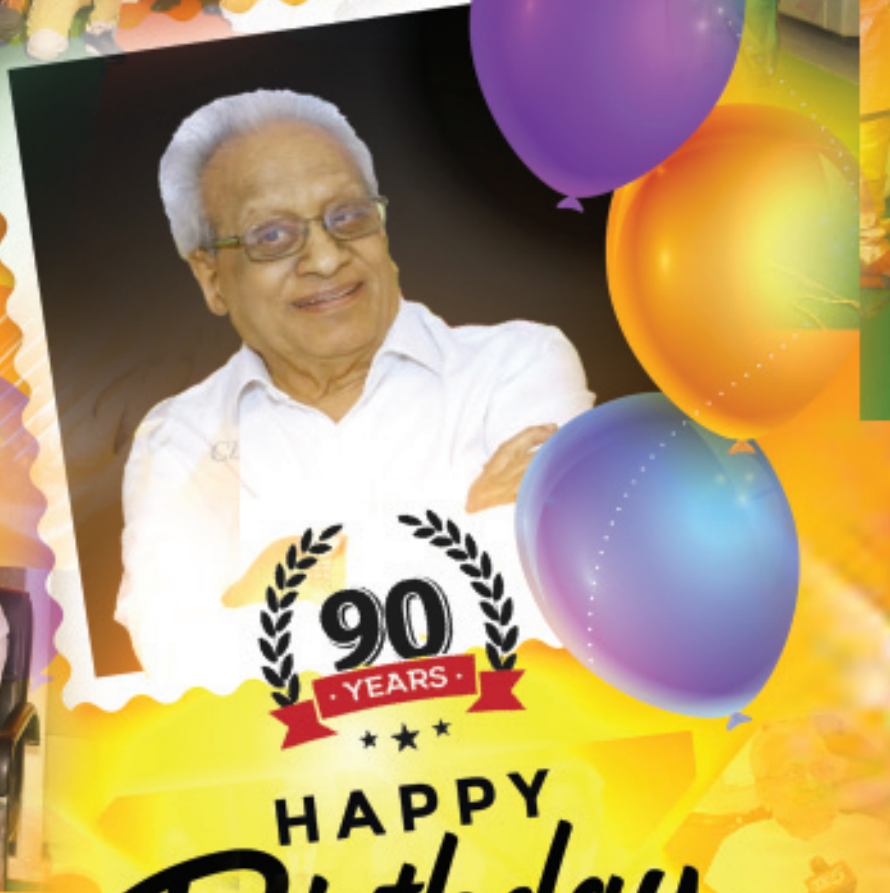
Employees strive to meet market demands with work ethics and morality. The company has grown exponentially in a short time thanks to its industrial partnerships and is always looking for new ways to grow organically and reach new customers.

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SR Agro Farms Proteins Pvt. Ltd. is proud to offer chemical residue-free, nutritious, high-quality, and affordable poultry products. To reduce its environmental impact, the company uses solar energy for farms, water recycling, rain harvesting, and strict bird care. Quality and on-time delivery have made the company an industry leader.

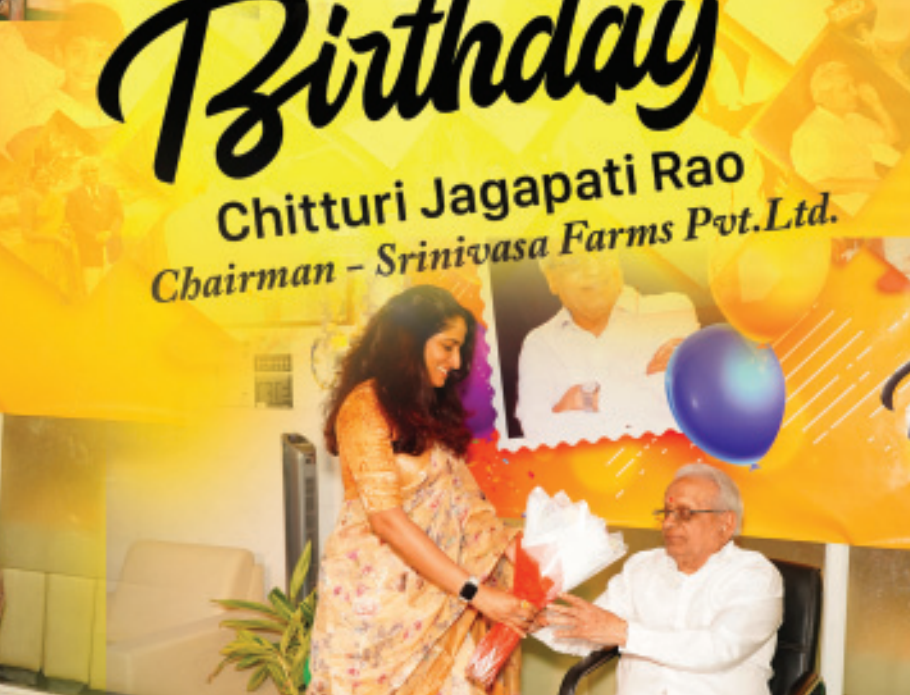
Rajesh Reddy received the Business Excellence Awards 2023 from Andhra Pradesh Governor Sri Biswa Bhusan Harichandan. The prestigious Forbes magazine as well as the Times of India have featured Mr. Rajesh Reddy for his outstanding achievements in the field of agricultural sciences. As a successful entrepreneur and a visionary, there's no looking back for Mr. Reddy. His commitment to quality, efficiency, and customer satisfaction, along with his innovative ideas and sustainability, will make SR's Daily Nutrition. a global brand.

SR's Daily Nutrition has embarked on an ambitious and aggressive growth trajectory. For an exciting career growth opportunity, please visit website, dailynutrition.co.in.



HAPPY
Birthday

Chitturi Jagapati Rao
Chairman - Srinivasa Farms Pvt.Ltd.





15th April bears a special significance for all of us at Srinivasa Farms as this date marks birth of living legend of Poultry industry, Founder & Chairman of Srinivasa Farms, **Sri Chitturi Jagapati Rao garu**. This year stands out as we celebrated 90th birth anniversary in presence of Family, Friends and Staff of Srinivasa Farms. An exclusive interview was videoed capturing larger than life events of Sri Jagapati Rao garu which garnered wide viewership. We wish him healthy and long-life.



PRESS RELEASE

Request for Sponsorship for 34th PFI AGM to be held in Hotel Alila by Hyatt, Goa, on 27-28 September, 2023

Dear Sir/Madam,

Poultry Federation of India (PFI), an apex and renowned association of Poultry Farmers, Breeders, Equipment Manufacturers, Pharmaceutical Companies and all allied Industries, is organizing its 34th Annual General Body Meeting (AGM) at Hotel Alila by Hyatt, Goa on 27-28 September, 2023.

Sponsorship:

PFI requests you to be one of the key sponsors at PFI 34th Annual General Body Meeting. There are Six categories of sponsorships:

S. No	Categories	Sponsorship Amount (Rs.)	Complimentary Registration
1	Super Platinum Sponsor	600000	12
2	Platinum Sponsor	500000	10
3	Diamond Sponsor	400000	8
4	Gold Sponsor	300000	6
5	Silver Sponsor	200000	4
6	Bronze Sponsor	100000	2

The Sponsor, companies can display their advertisements in form of standees/ banners on the prominent locations inside the conference hall. Table space will also be provided to the sponsors near the hall entrance. The logos of all the sponsors shall be printed on PFI Invitation cards, welcome banners, main backdrop banner and on all PFI promotional banners. All sponsoring companies will be honoured by presenting them mementos during the AGM.

Kindly send the sponsorship confirmation by sending the cheque / draft in the name of Poultry Federation of India. Your support by giving

Sponsorships in Poultry Federation of India's 34th AGM shall be highly appreciated.

Registration:

The Online Delegate Registration is open until 31st August 2023. We are however offering an early bird discount until 31 May 2023. This year, the executive committee has approved a resolution wherein the Online Registration will remain closed on and after 01 September under all circumstances. However, there will be on spot registration facility subject to availability of registration. The details of registration fee are as hereunder:

S. No	Registration Categories	Registration Fee (INR)	Date
1	Online Registration with Early Bird Discount	4000	Valid until 31 May 2023
2	Online Registration	5000	Valid from 01 June 2023 until 31 August 2023
3	On Spot Registration	6000	Day of Event

The registration fee includes Lunch, High Tea, Cocktail, Networking Dinner and attending Musical Entertainment Program on 27-28 September, 2023.

Room Reservation:

The Hotel has limited number of rooms at 150 nos out of which we have blocked 120 Rooms at Hotel Alila by Hyatt, Goa at a special price of Rs. 14000 including 18% Tax for Single Occupancy & Rs. 15000 including 18% Tax for Double Occupancy. The hotel will hold this price until 31 May, 2023. After 31 May, 2023 The Hotel will charge Rs. 17000 including tax for Single Occupancy & Rs. 18000 including tax for Double Occupancy.

Therefore you are requested to kindly confirm your requirement for room as earliest. The rooms are on a first come first serve basis and 60 rooms are already booked by the time this email reaches your good self.

The deadline for submission for requirement of room is 25 June 2023 and no requests for rooms shall be entertained after 25 June 2023. The payment for room tariff has to be transferred to the bank account of Poultry Federation of India failing which we shall not be able to provide the room reservation id with the guest. Thus, you are kindly requested to please cooperate by following the timeline for a hassle free event.

Bank Account Details:

A/C Name: POULTRY FEDERATION OF INDIA

A/C Number: 67211011 0006234
Bank Name: Bank of India
Branch Address: Rai, Sonipat (Haryana)
NEFT/IFSC Code: BKID0006721
PAN Number: AATP0444K
Please find attached copy of PFI PAN Card and Cancelled Cheque for your reference
For any further information, please feel free to contact at 85752 22224.

Regards,
On behalf of,
Ranpal Dhanda
President
Poultry Federation of India
49, First Floor, Omaxe Plaza
Omaxe City, G.T Karnal Road
Sonapat, Haryana PIN 131001
Office: +91 85752 22224
Direct: +91 9215700133

FORM IV

Statement about ownership and other particulars about newspaper **POULTRY LINE** to be published in the first issue every year after the last day of February.

1. Place of publication : Hyderabad

2. Periodicity of its publication : Monthly

3. Printer's Name : Karshak Art Printers
Nationality : Indian
Address : Nallakunta, Hyderabad


4. Publisher's Name : B. Kalyan Kumar
Nationality : Indian
Address : Nallakunta, Hyderabad

5. Editor's Name : B. Shiv Shankar
Nationality : Indian
Address : Nallakunta, Hyderabad

6. Names and addresses of individuals who own the newspaper and partners or shareholders holding More than one per cent of the total capital.

I, B. Shiv Shankar, hereby declare that the particulars given above are true to the best of my knowledge and belief.

Date: 01-03-2023

Sd/-

(B. Shiv Shankar)

External examination and diagnosis of Poultry Diseases

S. K. Joshi¹, S. Sathapathy², P. K. Rath^{3*}, B. P. Mishra⁴ and S. S. Biswal⁵

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²Department of Anatomy and Histology, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

³Department of Veterinary Pathology, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

⁴Department of Livestock Products Technology, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

⁵Department of ARGO, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

*Corresponding email ID: drprkrath78@gmail.com

Introduction

External examination is of prime importance in the diagnosis of disease conditions in poultry especially in a developing country like India, where most of the farms lack sophisticated instruments for the diagnosis purposes. It requires extraordinary skill and depth in knowledge to judge the disease condition of chicken by examining the external body parts with optimum accuracy. Now a day, the technically skilful Veterinarians should be trained in this regard to diagnose the disease conditions in poultry with minimum use of instruments.

Various external body parts of the bird can be examined to correlate them with different disease conditions. The body, feather, skin, head, comb, eyes, face, nostrils, mouth, wattles, neck, legs, feet, droppings, egg production, etc can be extensively examined to diagnose various disease conditions occurring in the poultry, which are summarised as under:

1. BODY	
Symptom	Possible Cause
Emaciation	Off-feed; nutritional deficiencies; lymphoid leukosis; enteritis; gizzard impaction; tuberculosis
Stunted, uneven growth	Gizzard impaction; blue comb disease; aflatoxin poisoning; synovitis; contaminated hatching egg
Swellings	Ruptured air sac; edema Twitching, muscular spasm Botulism; infectious bursal disease
Trembling	Epidemic tremors; encephalitis (brain damage)
Paralysis	Botulism; Marek's disease; arthritis; aflatoxin poisoning; epidemic tremor
Dehydration	Acute lack of water; coccidiosis; infectious bursal disease; nutritional imbalance-dietary salts
Nervousness	Hysteria; drug intoxication; Newcastle; fungus infection
Lying on breast, legs paralyzed	Algae poisoning; acute lack of water; yellow jasmine poisoning; botulism; drug toxicity

2. FEATHER

Symptom	Possible Cause
Moist under wing	Infectious coryza
Loss of feathers	Molting
Deposits at base of shafts	Lice or mite egg
Soiled hackle feathers	Infectious coryza, eye infection
Feathers picked	Lice; nutritional deficiency-methionine; birds not debeaked
Depigmented	Nutritional deficiencies-lysine, iron or folic acid
Broken on upper thigh	Self picking
Feather eating	Nutritional deficiency-methionine

3. SKIN

Symptom	Possible Cause
Pigmentation excessive	Poor production; high pigment intake
Nodules, mainly legs	Marek's disease
Nodules over vent	Flukes (rare)
Moist, necrotic, edematous	Necrotic dermatitis, exudative diathesis
Darkened, purplish	Erysipelas; fowl cholera
Crusted areas	Erysipelas; scab; gangrenous dermatitis
Scabby hip	Self picking, inflicted by other birds
Gangrenous, green	Hemorrhage; arthritis; gangrenous dermatitis
Vent irritated	Northern fowl mite; lice (occasionally)
Pale	Anemia; nutritional deficiencies-iron, copper, or vitamin B12

4. HEAD

Symptom	Possible Cause
Swollen, puffy	Ruptured air sac; infectious coryza; injury; Newcastle disease

5. COMB

Symptom	Possible Cause
Mottled, red and white margins	Frozen/Frost bite
Eruptions, nodules	Fowl pox
White, scaly, powdery	Favus

6. EYES

Symptom	Possible Cause
Watery	Infectious coryza
Blindness	Fowl pox; aspergillosis; Arizona paracolon; paratyphoid
Watery, red, inflamed, closed	Laryngotracheitis; ammonia burn; Newcastle disease; nutritional deficiency-vitamin A
Cataracts	Nutritional deficiency-vitamin A
Crusts on eye lids	fowl pox
Pupil irregular, blindness	Marek's disease
Blood in eye	Hemorrhagic anemia
Large, swollen	Mycoplasma infection

7. FACE

Symptom	Possible Cause
Swollen	Infectious coryza; Newcastle disease; nutritional deficiency-vitamin A; E. coli
Darkened, purplish	Erysipelas; fowl cholera; septicemia; injury
Nodules	Fowl pox

8. NOSTRILS

Symptom	Possible Cause
Discharge	Infectious coryza; chronic respiratory disease; infectious bronchitis; influenza

9. MOUTH

Symptom	Possible Cause
Pustules	Nutritional deficiency-vitamin A
Crusts at margins	Nutritional deficiencies-pantothenic acid or biotin
Beak soft, rubbery	Nutritional deficiencies-vitamin D or calcium-phosphorus imbalances
White coat over tongue and in mouth	Wet form of fowl pox
Ulcers	Mycotoxins; chemical injury

10. WATTLES

Symptom	Possible Cause
Swollen, bulbous	Infectious coryza; fowl cholera
Nodules	Fowl pox

11. NECK

Symptom	Possible Cause
Paralysis (limber neck)	Botulism; yellow jasmine poisoning
Twisting	Newcastle disease; fowl cholera; brain infection; improper injection of Marek's vaccine
Retracted over back	Newcastle disease; nutritional deficiency-thiamin
Retracted under breast	Nutritional deficiency-vitamin E; Newcastle disease
Scabby necrotic areas	Improper injection of drugs; other injury

12. LEGS

Symptom	Possible Cause
Paralysis	Marek's disease; botulism; heat stroke; epidemic tremor; cage layer fatigue; vitamin E deficiency; algae poisoning; yellow jasmine poisoning; acute lack of water
Rough, scaly	Fowl pox; scaly leg mite
Bowed, weak	Nutritional deficiency-vitamin D; osteodystrophy
Bone bends	Nutritional deficiency-vitamin D
Joint swelling	Infectious synovitis; paratyphoid; pullorum; zinc deficiency; staphylococcosis; tenosynovitis; arthritis
Tendon at hock displaced	Perosis (nutritional deficiency-manganese or choline)
Stilted gait	Tenosynovitis
Shank depigmented	Nutritional deficiency-vitamin A; coccidiosis; any low grade slow disease (for any length of time)
Toes twisted	Genetic

13. FEET

Symptom	Possible Cause
Joints fixed	Tenosynovitis
Swollen foot pad	Infectious synovitis; bumblefoot
Toes curled	Nutritional deficiency-riboflavin; genetic; management deficiency

Foot pad cracked, dermatitis
 Nutritional deficiency-biotin or pantothenic acid; management deficiency

Bird walks on toes... Tenosynovitis

Toes twisted Genetic

14. DROPPINGS

Symptom Possible Cause

Profuse Enteritis; excess roughage in diet

Bloody Cecal coccidiosis; Newcastle disease

Green Feed intake low; bile not diluted

Sulfur yellow Blackhead

Light yellow or yellowish-green Fowl typhoid; fowl cholera

Foamy Intestinal parasites (protozoa)

15. EGG PRODUCTION

Symptom Possible Cause

Sudden severe drop Newcastle disease; infectious bronchitis; laryngotracheitis; influenza - A, mycotoxin, mismanagement (no lights, feed, or water)

Unsatisfactory Infectious coryza; fowl cholera; chronic respiratory diseases;

diet deficiencies; gizzard impaction; fowl pox; hepatitis; lice; mites; ascarids; capillaria; lymphoid leukosis; coccidiosis; enteritis; pullorum; fowl typhoid; aflatoxicosis; adenovirus infection; toxins

Egg wrinkled,

depigmented

Production pause

Poor shell quality

Necrotic enteritis; infectious bronchitis

Epidemic tremor

Newcastle disease; infectious bronchitis; adenovirus infection; diet deficiency; T-2 fusariotoxin

16. DEATH

Symptom

Instant, few or no prior signs

High mortality-producing diseases

Possible Cause

Aortic rupture; acute lack of water; fowl cholera; overheated, fatty liver hemorrhagic syndrome

Fowl cholera; erysipelas; exotic Newcastle disease; acute coccidiosis; aflatoxin; botulism; poison; fatty liver hemorrhagic syndrome



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Mr. ARR Anand



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Cumulative Feed Per Egg **113g**

Feed Per Day (Laying Period) **100g**

% Achievement of standard H.H Eggs **98%**

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Disease Recovery at Farm in Telangana

Age of the Flock	2023	Week. Avg. H.D%		Cum. Mortality%		Cum. H.H.Eggs	
		W-80 India	Other Breed	W-80 India	Other Breed	W-80 India	Other Breed
19	20-Jan	16.60	43.89	0.03	0.04	1.17	3.07
20	27-Jan	54.00	73.50	0.09	0.12	4.94	8.21
21	03-Feb	79.60	82.46	0.18	0.23	10.51	13.98
22	10-Feb	88.21*	69.00*	0.29	0.42	16.67	18.80
23	17-Feb	74.68	62.00	0.41	0.62	21.88	23.12
24	24-Feb	68.70	69.26	0.53	0.79	26.67	27.94
25	03-Mar	76.66	75.16	0.64	0.94	32.01	33.16
26	10-Mar	83.22	78.75	0.77	1.08	37.80	38.62
27	17-Mar	86.70	80.76	0.90	1.24	43.81	44.20
28	24-Mar	88.43	82.03	1.04	1.39	49.95	49.87
29	31-Mar	89.50	83.80	1.16	1.54	56.15	55.66
30	07-Apr	90.23	85.00	1.27	1.67	62.39	61.52
31	14-Apr	90.34	86.17	1.40	1.82	68.64	67.45

*Impacted by VVND



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- **Value to money**

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Coated Vitamin C 1,25,000 mg per kg

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Chromium Propionate, Coated Vitamin C, Black Cumin Powder and Zeolyte

Feeding Directions:

Poultry : 200 grams per ton of feed
Dairy : 300 grams per ton of feed
Each dose (200 grams) of Chromiate provides 800 mg of Chromium Propionate and 25,000 mg of Coated Vitamin C.

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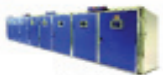
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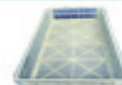
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- Sales & Marketing of Broiler Breeder.
- Integration.
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- Speaker in Technical Seminars.

He can be Contacted at:- **Dr. Manoj Shukla**

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Mob.No : 09644233397, 07746013700, Res. 0771-4270230

Email : drmanu69@gmail.com

As a strategic partner, Poultry Line wishes Dr. Shukla every success in his new assignment

SAI KRISHNA

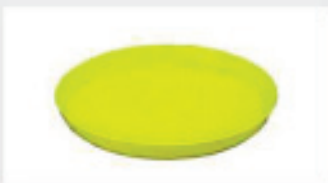
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