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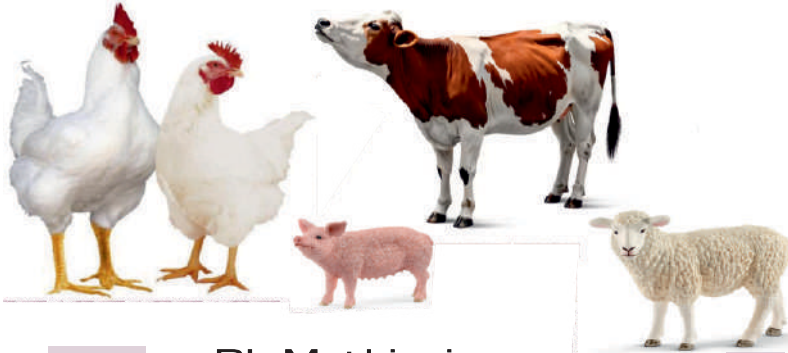
VOLUME - 26

ISSUE - 04

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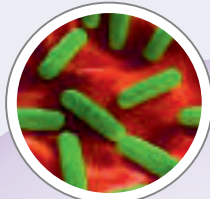
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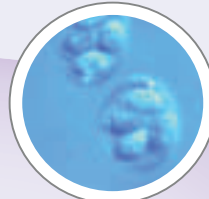
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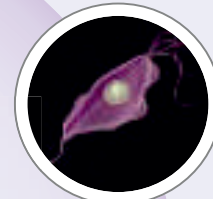
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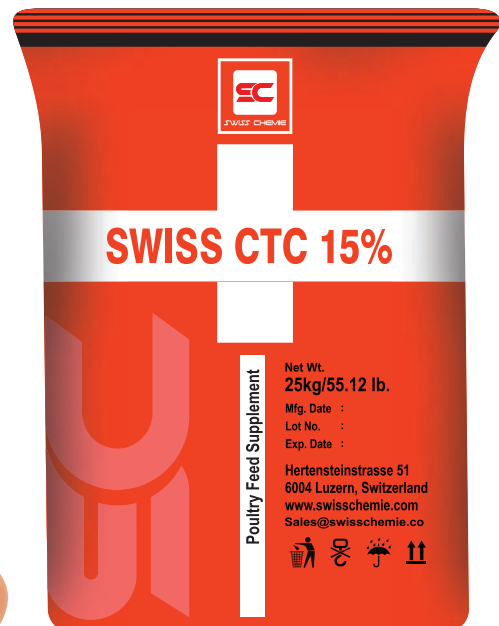


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	Mercury (ppm)	
	Microbiology	
	Total plate count (cfu/gm)	Max 1000
	Yeast & mold (cfu/g)	Max 100
	Salmonella	Negative
	E.Coli	Negative
	S.Aureus	Negative
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Genotype VII ND insert
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Composition: Each dose of vaccine contains: MD vectored IB & ND recombinant virus, Serotype 3-A1 at least 5696 pfu, DMSO/Freezing Solution-7.5%, Freezing Media-1 dose q.s., Penicillin <= 30.0units/mL, Streptomycin <= 30.0mcg/mL, Amphotericin B <= 2.5mcg/mL, calf serum 15%. **Indication:** This product has been shown to be effective for the vaccination of healthy 18 to 19-day-old chicken embryos and one-day-old chickens against standard and variant bursal disease, Newcastle disease and Marek's disease. **Dosage and administration:** In ovo Administration: Use two hundred (200) µl of sterile diluent for each 4,000 doses of vaccine to be administered in ovo. Dilute the vaccine only as directed. Inject 0.05 ml dose into each embryonated egg. Use entire contents of the vaccine container within one hour after mixing the vaccine with diluent. Subcutaneous Injection: Use 200 ml of sterile diluent for each 1,000 doses of vaccine to be injected subcutaneously. Inject chickens under the loose skin at the back of the neck (subcutaneously), holding the chicken by the back of the neck just below the head. The loose skin in this area is raised by gently pinching with the thumb and forefinger. Inject 0.2 ml per chicken. Avoid hitting the muscles and bones in the neck. Use entire contents of the vaccine container within one hour after mixing the vaccine with diluent. **Age:** Day old chickens and 18 days embryonated eggs. **Pregnancy and Lactation:** Not applicable. **Contraindications:** Do not vaccinate diseased embryonated eggs or diseased birds. **Special warnings and precautions:** Do not mix the vaccine with other vaccines or veterinary medications. Use the entire contents of the vaccine container within one hour after mixing the vaccine with diluent. Use entire contents when first opened. Do not vaccinate diseased embryonated eggs or diseased chickens. Avoid contact with eyes, hands and clothes when using the vaccine. **Adverse reactions:** None known. **Shelf Life and Storage:** Shelf life is 18 months. **AMPULES:** Store in liquid nitrogen container. **DILUENT:** Store at room temperature. **MAH Holder:** Boehringer Ingelheim India Pvt Ltd, Unit No. 202 and part of Unit no. 201, 2nd Floor Godrej 2, Projsha Nagar, Eastern Express Highway, Vikhroli (E) | Mumbai 400079.

Last review date: 09/08/2024

Additional information is available on request.

PREVENTION WORKS
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Printed, Published and Owned by B. Kalyan Kumar, Printed at Karshak Art Printers, 40, A.P.H.B. Blocks, Vidyanagar, Hyderabad - 500 044. India.
 Published at 2-1-444/16, 1st Floor, O.U.Road, Nallakunta, Hyd-44. Editor: B. Shiv Shankar.

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There are no winners in any war but only death, injuries, illness, destruction, orphans' widows, and human sufferings,

It is pushing the society and the economy to primitive lives and existence.

Why do countries do this - years of mutual destruction in the Ukraine and Russia war. The Israel and Houthis, Hezbollah Hamas and now Iran with the Americans, bringing the civilization to dust and ashes with no end soon.

The whole of the Middle East is drawn into a battle of destruction of each other. How does it anyhow serve the interest of larger humanity?

The United Nations has proven itself to be a pawn and utterly impotent when it is expected to act.

INDIA has stood by Principle of taking the side only of peace and not participating in insane wars. India has sent humanitarian aid even during this war to Iran.

India values human lives and we have people with a mindset glorifying death based on ideology.

Non-violence, peace, and prosperity are the only ways for survival of human civilization. The petty minds, glorifying killing or getting killed based on an ideology in this modern world is a pure disaster!

The people of the countries suffer when comedians used to joke and businessmen used to deal with leading a country – the results are pathetic.

INDIA has somehow strategically managed. Its economy, the best possible way compared to neighboring countries and the rest of the world. India probably is the only country which has reduced the prices of oil and diesel against soaring prices elsewhere.

The people first with assurance of security – stability and welfare are premium only then their leaders are respected and Rekha recognized.

Nations that are controlled by individuals with their own personal vested interest and ego are in turmoil.

The effect of war on India has minimal impact compared to the globe. The critical feed additives, especially for Poultry that is dependent on imports has been adversely affected. The wartime shipping charges, war insurance, and panic buying has increased the cost and availability.

The farmers must calculate the risks and plan their strategy of reformation and securing their critical raw materials and feed derivatives.

Recent blockbuster Hindi movie, which has and its story exposed a lot of facts that the nation and the world needs to know has ended up ruffling feathers. Since the story exposes many secrets with verifiable evidence those affected are reacting fiercely in protest. In a way the movie has exposed many enemies within.

In a democracy, a bold movie of this type helps people make their own decisions and judgment.



Alltech launches nutrition service capabilities in South Asia with new state-of-the-art laboratory in Pune



[Pune, INDIA]— Alltech President and CEO Dr. Mark Lyons unveiled the Alltech Nutrition Service Laboratory at the company's Pune facility on Jan. 16, marking an important step in strengthening nutrition support across South Asia for Alltech. The event was attended by Alltech customers, farmers, partners, industry leaders and media and celebrated with music, dancers and floral decorations, reflecting the energy and optimism of the Alltech South Asia team.

The newly launched Nutrition Service Laboratory has been designed to support farmers at large and feed producers across the region at a time when South Asia is facing increasing protein demand alongside growing feed quality and safety challenges.

“As South Asia grows, so does the region's demand for premium animal protein. This is a massive opportunity for South Asian farmers, but it requires a new level of precision,” said Dr.



Mark Lyons, president and CEO of Alltech. “By launching this new laboratory in Pune, we are delivering real-time, actionable intelligence. Pairing our laboratory precision with our on-farm tools such as Alltech RAPIREAD™ and infrared thermography offers farmers a roadmap to superior animal health, stronger productivity and long-term sustainability.”

The lab can test 50 feed and raw material parameters in Phase 1, with plans to nearly double this capacity in the next phases. These services are complemented by advanced on-farm tools such as Alltech® RAPIREAD™, infrared cameras, eggshell analysis tools and Draeger meters, ensuring producers and farmers receive practical, science-based support across the poultry, dairy and aqua sectors.

Highlighting the importance of the new laboratory, Dr. Aman Sayed, Alltech's managing director for India and regional





director for South Asia, emphasized its role in translating science into practical outcomes.

“The Nutrition Service Lab is not just a testing facility, it is a bridge between science and the farm,” said Dr. Aman. “It helps the users to clearly understand what is happening in their feed and raw materials and allows us to guide them with practical, targeted nutritional solutions that deliver real value.”

Alltech South Asia is also pleased to announce expanded production capabilities with a new bolus manufacturing unit featuring a capacity of 10,000 boluses per hour. Bringing this production inhouse will enhance efficiency, improve supply reliability and reduce environmental impact, all benefits that extend directly to neighboring markets.

The Pune facility also reflects Alltech’s commitment to sustainability, with major investments in clean energy and environmentally responsible operations.

For more information, visit Alltech.com/India.

Raksha PR, Asst. Marketing Manager (India and Sri Lanka)

Email: rpr@alltech.com

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 animals and plants, resulting in better nutrition for all and a decreased environmental impact.

We are a global leader in the agriculture industry. Our team produces specialty ingredients, premix, supplements, feed and biologicals, backed by science and an unparalleled platform of services.

Strengthened by more than 40 years of scientific research, we carry forward a legacy of innovation and a unique culture that views challenges through an entrepreneurial lens. As a private, family-owned company, we adapt quickly to our customers’ needs and focus on advanced innovation.

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 140 countries, has five bioscience centers, and operates more than 75 manufacturing facilities across the globe.

For more information, visit alltech.com, or join the conversation on Facebook, X and LinkedIn.

Building on a Decade of Research, NOVUS Welcomes Julien Kanarek to Guide Enzyme Growth



CHESTERFIELD, MO (March 12, 2026) – Julien Kanarek joined NOVUS in January as the company’s feed enzymes global lead. He brings nearly 20 years of experience in animal nutrition, biotechnologies, and feed additive market strategizing to the leader in intelligent

nutrition.

Kanarek joins the company during a time of growth and innovation for its enzymes portfolio. Recently, NOVUS purchased BioResource International, Inc. (BRI), to gain full control of its CIBENZA® Enzyme Feed Additive product line and began a development partnership with Ginkgo Bioworks. Teams also hosted educational workshops for customers on the hidden risk in soybean meal (an anti-nutritional factor known as trypsin inhibitor). Last month, the company shared a new white paper, *Outsmarting Trypsin Inhibitors*, available now to download.

Kanarek says NOVUS is right by increasing its focus on enzymes. With feed costs as one of the highest budget lines for pig and poultry producers, ongoing economic shifts, and constraints when it comes to raw material options, strategic decisions must be made. Kanarek said one well-known applied strategy to get more from feed ingredients is enzyme technology.

“What I find exciting is that enzymes have not shown us their full potential yet. The world of anti-nutritional factors also hasn’t been fully defined and explored,” he says. “NOVUS has been studying these aspects for over a decade but in the last year we’re seeing an acceleration in interest from the academic community. So, we have 10 years of enzymes and trypsin inhibitor research that

helped us to build a solid database of soybean profiles from around the world. Now we will also look at leveraging what researchers who have taken an interest in this subject are finding and add that knowledge to our own understanding.”

Kanarek says NOVUS is committed to putting all the pieces together to create services and solutions that support the customer.

“There is no one single enzyme that can solve every problem,” he says. “It has to be the right cocktail of biotechnologies with an adapted application. For that, we need to understand our customers’ context and challenges so we can build robust, reliable and sustainable solutions for them.”

Laura Munoz, senior director of Global Strategic Marketing at NOVUS, says Kanarek’s leadership will be key as NOVUS continues to strengthen its enzyme business.

“Through acquisitions and innovation projects, NOVUS has taken big steps to demonstrate our commitment to the feed enzymes sector. Julien’s global perspectives on the current market and strategic concepts on how the animal agriculture industry will use enzymes in the future will help us build a portfolio of solutions and services for today and tomorrow.”

Prior to joining NOVUS, Kanarek served as Marketing Manager – Poultry and Regional Category Manager for Europe at Adisseo; Global Business Segment Leader – Poultry at Danisco Animal Nutrition and Health, part of International Flavors & Fragrances (IFF); and Global Category Manager at Avril. He has master’s degrees in animal nutrition and health from UniLaSalle in France with a specialization in comparative animal nutrition from University of California-Davis in the United States.

Learn more about the enzymes solutions that are helping poultry and swine producers around the world get more from feed at novusint.com.



BASU Team visits IB Group



A high-level delegation from Bihar Animal Sciences University (BASU), Patna, led by Hon'ble Vice-Chancellor Dr. Inderjeet Singh, visited IB Group, Rajnandgaon, to explore avenues for strengthening academia–industry collaboration in poultry education, research, and training. The delegation comprised Dr. Jeetendra Varma, President, World Veterinary Poultry Association India, Dr. Pankaj Kumar Singh, DRI-cum-Dean, PGS; Dr. Kaushalendra Kumar, I/C, Poultry Research & Training Centre and Dr. Nidhi Rawat, Assistant Professor of Veterinary Microbiology, Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Durg, Chhattisgarh;

The team held detailed discussions with Dr. R. K. Jaiswal, President, IB Group, regarding potential areas of cooperation. Dr. Jaiswal outlined the farmer-centric vision and journey of IB Group in transforming India into a protein-rich nation by 2035 through a sustainable, technology-driven poultry and livestock ecosystem. It was impressive to learn about the Group's commitment to empowering farmers, enhancing rural development, and establishing Chhattisgarh as a global protein hub, fostering "Viksit Poultry" for a "Viksit Bharat."

Dr. Jaiswal expressed keen interest in signing a Memorandum of Understanding (MoU) with BASU and extending training and internship opportunities to students of B.V.Sc. & A.H. and B.Sc.



Poultry Production. Presentations were delivered on the company's integrated operations and "PARIVARTAN GENNEXT," highlighting sustainable and economically viable models of broiler farming.

The delegation visited the Corporate Office, Centre of Excellence, advanced Feed Analytical and Health Diagnostic Laboratories, Hatchery units equipped with strict biosecurity measures, automatic grading and incubation systems, in-house rendering facilities, and in-ovo vaccination technology. The team also toured the feed manufacturing unit with a production capacity of 2,200 MT per day, the soybean oil extraction plant, and other vertically integrated facilities (HDPE bags manufacturing/ printing plant)

Field visits to newly established and modified Environmentally Controlled (EC) poultry farms demonstrated efficient, automated production systems and profitable farming models, reflecting the success of industry-led capacity-building initiatives.

The visit concluded with key recommendations, including signing an MoU, adopting strict biosecurity practices at BASU farms, and establishing a Model EC Poultry House at BASU with technical support from IB Group. The proposed collaboration is expected to enhance hands-on training, promote research excellence, and create greater employment opportunities for students.



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It was a proud moment for our team to showcase our products and connect with industry leaders, partners, and poultry professionals from across the country. The event provided an excellent platform to

exchange ideas, understand emerging trends, and strengthen our relationships within the poultry fraternity.

Our stall received an encouraging response, and we truly appreciate everyone who visited us and shared their valuable time and insights.

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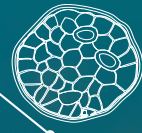
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Introduction to Immunity

Immunity

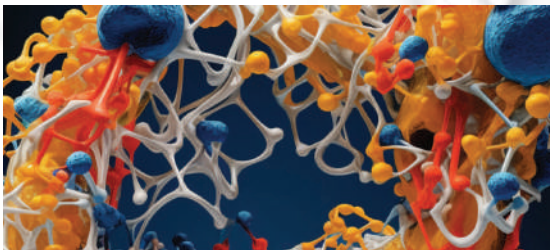
refers to the body's ability to resist or defend against infections, diseases, and other unwanted biological invasions. There are two main types of immunity

Innate immunity is the host's first line of defense against invading pathogens but some pathogens particularly immunosuppressive viruses have evolved sophisticated mechanisms to evade the host's innate immune responses and survive within the host. Adaptive Immunity targets specific pathogens that the body has encountered before. When the immune system fails, it can result in **immunosuppression**.

Immunosuppression originally defined as "a state of temporary or permanent dysfunction of the immune response resulting from damage to the immune system and leading to increased susceptibility to disease" includes suboptimal responses in antibody production, innate and cellular immunities.

Immunosuppression is a syndrome not a disease, Several environmental factors causing immunosuppression are related to management problems such as inadequate water or food supply, Nutritional deficiencies, Mycotoxins, Vaccinations, ammonia in the houses, excess dust, temperature stress, social interactions within a flock, and Infectious agents such as IBV, IBH, CIAV and Mareks.

Immunosuppression can increase susceptibility to infections and mortalities, increase feed conversion, reduce vaccine effectiveness and increase total production cost. As a result, they have substantial negative impacts on poultry health and welfare, and production performance in the poultry industry. Understanding the pathogenesis of immunosuppressive diseases is crucial to safeguarding health and productivity in the poultry industry.



Pathogenesis of Immunosuppressive Diseases

- Virus enters the body through various routes.
- Initial replication occurs in the small and large intestine.
- Viraemia occurs with spreading of virus to many organs like liver, kidney, heart, lungs, bone marrow & bursa.
- Virus can readily be isolated from faeces, ocular and nasal discharges.
- Affected organs show lesions at various degree.
- Chickens once affected become life long carrier.

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Immunotech is a mixture of functional enzymes and polyphenols, making it a powerful immunomodulator, anti-inflammatory, and antioxidant. Its unique formula not only enhances immunity but also helps to reduce inflammation and alleviate stress.

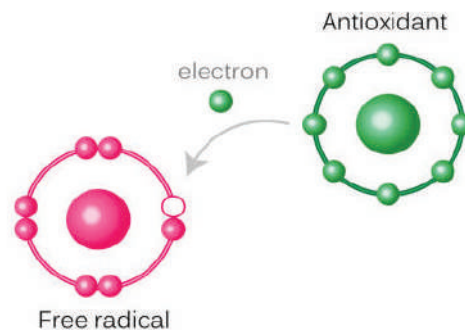
IMMUNOTECH targets and disrupts the proteins in virus cell walls, preventing the virus from replicating or attacking vital cells in the body. It revitalizes a compromised immune system, helping restore it to normalcy and supporting the fight against infections. It functions in various ways, including:-

As Immunity

- The enzymes present in IMMUNOTECH cleave the antigenic surface protein of organisms and digest their outer coat and the released enzyme-surface protein complex is ingested by macrophages and dendritic cells and induces higher antibody production.
- It inhibits the pathogen's ability to attach to host cells by reducing the receptors available for pathogens, thereby decreasing infectivity.
- When administered as a preventive measure, IMMUNOTECH functions like a "biological vacuum cleaner," purifying the blood and eliminating viruses from circulation. This significantly reduces the inflammatory response and enables normal immune functions to perform at a much healthier level.
- IMMUNOTECH causes the enhancement of immune cells to kill bacteria, viruses, molds and fungi.
- The systemic enzymes in IMMUNOTECH break down immune complexes and eliminate them from circulation paving the way for the immune cell's action.
- IMMUNOTECH boosts the bacteria-killing power of antibiotics and inhibits biofilm formation.

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- Polyphenols such as rutin are potent antioxidants and effectively neutralize the harmful free radicals generated by any means such as a change in temperature, transportation, etc.



As Anti-inflammatory

- At the molecular level, IMMUNOTECH blocks pro-inflammatory metabolites such as histamine, serotonin, and bradykinin that drive inflammation. Its enzymes modify the arachidonate pathway, reducing thromboxane production without affecting cyclooxygenase. This results in reduced edema and inflammation, and restores balance between the two types of prostaglandins. Additionally, it enhances blood flow volume and fluidity, aiding in the removal of inflammatory by-products.
- Enzymes activate α -2 macroglobulin, a cytokine catcher that typically exists in its inactive (slow) form in the blood. This activation leads to a quicker clearance of cytokine TNF- α , thereby reducing the stimulus for the expression of adhesion molecules.

Trial Report

A straight run flock of 400 Cobb 400Y broiler chickens were distributed into 2 treatment groups and were raised on litter for 42 days. The birds were vaccinated according to the standard vaccination procedure against Newcastle disease (5-d and 20-d) and IBD (12-d).

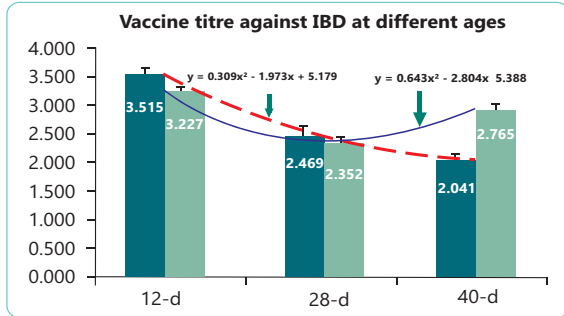
The treatment diets were as follows:

1. T1: Control diet devoid of any immune stimulant.
2. T2: Control diet supplemented with Immunotech at the rate of 250 mg/kg feed throughout the experimental period.

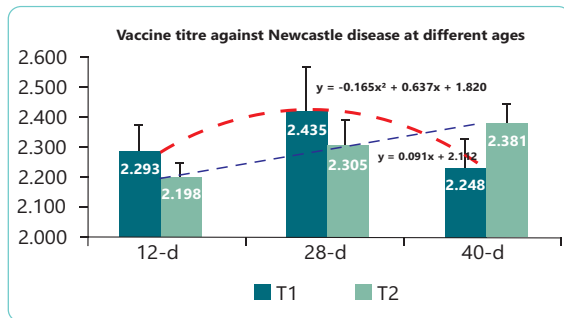


Vaccine titre against IBD

Vaccine titre (log10 values) against infectious bursal disease measured at 12-d, 28-d and 40-d of age is given below

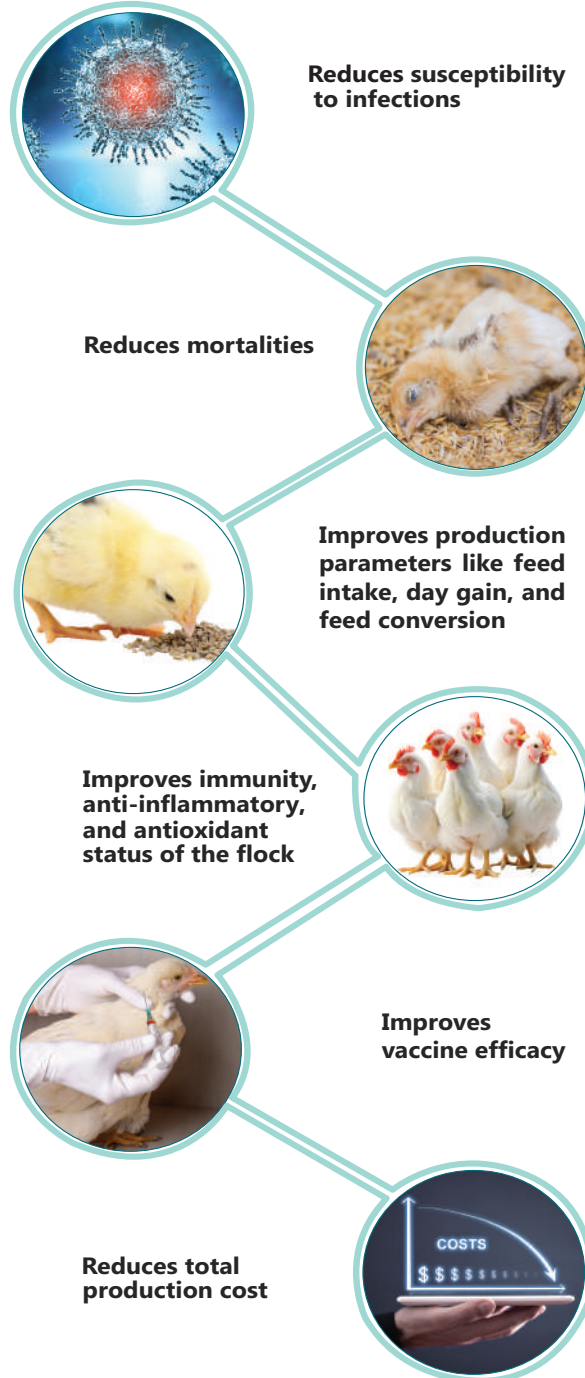


Vaccine titre against IBD in the T1 group without any immune stimulant went on decreasing with age. On the contrary, in the T2 group, which was supplemented with Immunotech, vaccine titre decreased up to 28-d of age but increased thereafter at 40-d of age. Numerically, in the T2 group, IBD vaccine titre was comparatively lower when measured on 12-d and 28-d of age but it was significantly better when measured at 40 d of age (P < 0.05). The drop in the IBD titre value from 12-d to 40-d was 42 % while that in the T2 group was only 14%. The above data clearly indicate that supplementation of Immunotech has substantially improved IBD titre in the birds especially after 28-d of age.



The above values indicate clearly that the vaccine titre against ND in the control group increased at 20-d of age in both the groups as compared with the initial values (age effect P < 0.05). However, in the T1 group which was devoid of any immune stimulant the vaccine titre decreased when measured at 40-d of age and came back to its initial level. On the contrary, in the T2 group, which was supplemented with Immunotech, the vaccine titre against ND increased linearly and a difference of 8% hike in the ND titre value was obtained from the initial value in this case.

IMMUNOTECH in a nutshell



FEATURE ROUNDTABLE DIALOGUE

On Poultry for proteins Security: A backbone of nutrition security for a Viksit Bharat by the Indian Chamber of Food and agriculture (ICFA)



The Indian Chamber of Food and Agriculture (ICFA), convened Roundtable Dialogue on

Poultry for proteins Security: A backbone of nutrition security for a Viksit Bharat bringing together Policymakers, Poultry Integrators, Breeders, Feed Millers, Poultry Consultants, Senior Officials, MD's and Directors of Pharmaceutical Companies, Experts, Poultry Associations and Development Organizations from Poultry and Food Ecosystem.

The dialogue focused on strengthening the role of poultry in advancing nutrition and protein security and was Chaired by Dr. PK Shukla and Dr. Tarun Shridhar (IAS, Ex Secretary, Department of Animal Husbandry) Director General, ICFA. The discussions highlighted poultry as one of the most affordable, accessible and high - quality sources of protein, with the potential to significantly improve nutrition. Access to safe, affordable, high quality protein is not just a food systems issue. It is central to building a healthier, more productive, and truly Viksit Bharat.

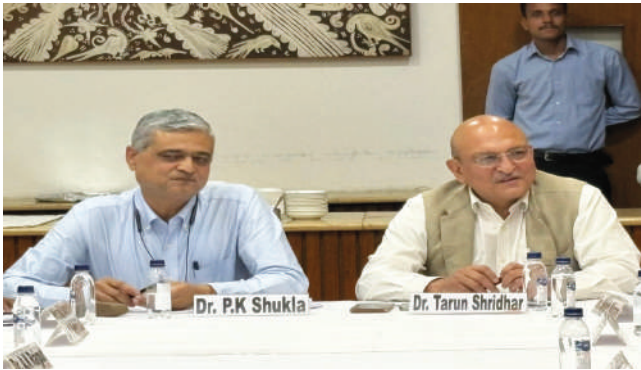
Key areas deliberated included

- **Poultry and Protein Security in India's Nutrition Strategy**
- **Food Safety, Hygiene and Consumer Trust in Poultry Value Chains**
- **Cold Chain, Processing Infrastructure and Market Efficiency**
- **Animal Health, Biosecurity and Disease Risk Management**

The poultry industry was represented by Dr. Shirish Nigam, Mr. OP Singh, Dr. Elango Palaniyandi, Mr. Ricky Thaper, Dr. Anup Kalra, Dr. Gajanan Padmawar, Dr. Chittranjan Behl, Mr. Saurabh Gupta, Mr. Mohanji Saxena, Dr. Ashwani Kumar Rajput, Dr. T Kotaiah, Col. Vinay Kumar, Mr. AK Sehajpal and other dignitaries.

The discussion focused on strengthening the full value chain so that safe and affordable protein can reach people at scale





Mr. Ricky Thaper, Joint Secretary, Poultry Federation of India invited the delegates to visit VIV Select India being organised by @VIV Worldwide in partnership with Poultry Federation of India from April 22 - 24, 2026 at Yashobhoomi Convention and Expo Center, Dwarka, New Delhi.

In closing remarks, Dr. PK Shukla highlighted

That India's challenges is not poultry production but consumption. Awareness is low, demand needs to be built and affordability and trust still limit uptake. Improving access is key to turning supply into real nutrition outcomes.

Dr. Tarun Shridhar while concluding the session said, ICFA remains committed to taking forward the insights from this dialogue into actionable policy recommendations for a healthier and nutritionally secure India. Such knowledge - driven platforms are essential for driving sustainable growth across the poultry industry. Heartfelt appreciation to Dr. Tarun Shridhar, Dr. PK Shukla, eminent poultry leaders, association members and entire Indian Chamber of Food and Agriculture (ICFA) Team for delivering outstanding program.





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Surgical Approach in Ventral Hernia

Dhaval Vaghela, Rameez Bloch, HardikNaliyapara and Tanvi Patel

Corresponding author: dhaval.vaghela1@gmail.com

Ventral hernia is a term used to describe a hernia that occurs in the abdominal wall other than through a natural orifice. Such hernias usually result from trauma. In horses hernias frequently develop from kicks, but in cattle the most common cause is from a horn thrust. Violent contact with blunt objects of all sorts are many times responsible for ventral hernias.

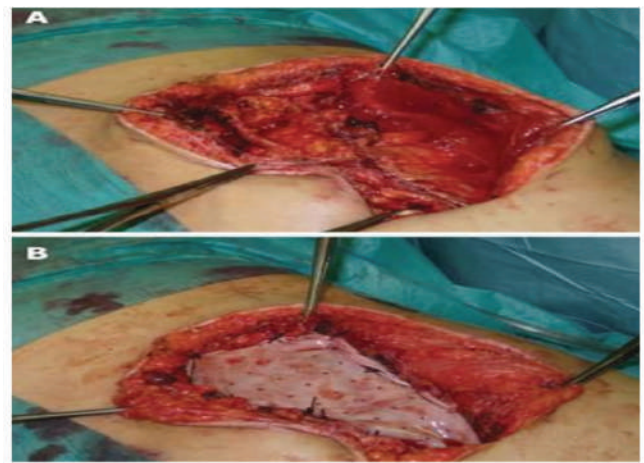
Ventral hernias may occur wherever the abdominal wall is severely traumatized. They are seen high or low in the flank, along the costal arch, or between the last few ribs. They also occur in the ventral abdomen near the mid-line and higher in the iliac regions.

When a hernia occurs as the result of a severe injury, the site swells quickly. This is due to hemorrhage and/or serum accumulation. Edema develops in the surrounding tissue. The area becomes enlarged and before long it is impossible to palpate the hernial ring. In most cases the ring is beyond reach for rectal palpation. It may thus be difficult to determine the nature of the injury and to confirm the presence of a hernia. This is a handicap in giving a prognosis. If the rent is very large, a very poor prognosis is given for future repair. On the other hand, a large swelling may be related to a rather small hernial opening and may lend itself to repair. In some cases the clinician must wait until the traumatic swelling has reduced before the ring can be palpated.

When the tear is big, a large mass of viscera may escape from the abdomen. Occasionally a large part of the small intestine works its way through a small rent in the wall. This presents the danger of intestinal strangulation. In most cases the hernial sac is made up of peritoneum and skin, comparable to hernias through the natural orifices, but the peritoneum may also rupture and then the sac consists of skin only. The inflammatory process causes an enteritis in the exteriorized bowel and inflammatory exudate gathers in the sac. This condition is usually not severe enough to threaten the general health of the animal. In most cases the inflammation slowly subsides, but adhesions commonly develop, particularly when the peritoneum is also ruptured.



The repair of ventral hernias is not unlike the surgical procedure described for umbilical hernias. Where large tears of the wall have occurred, the chances of successful repair are poor. This is particularly true when the ventral abdomen is involved. It is best to wait until inflammation has subsided before surgery is undertaken. Traumatized tissue will not hold sutures well. However, when a large amount of small intestine has escaped from a very small opening, prompt action is required. The small opening is usually easily closed, and the patient may develop intestinal complications if surgery is not performed early. Early diagnosis of the nature and extent of the injury is important so that surgery will not be delayed in emergency cases.



Surgery for ventral hernia is usually done under general anesthesia. The skin is carefully incised and the peritoneum, if present, is also opened. The viscera is freed of adhesions and returned to the abdominal cavity. If the ring is small it may be necessary to

enlarge it with a blunt-pointed bistoury (kelotomy) to replace the viscera. Omentum, if present, is excised. The edges of the ring are trimmed to provide a raw surface for healing. If the hernial edges are rounded it may be necessary to separate the tissue into layers and to suture them separately. Heavy suture material is often used in large rents to prevent the tearing of tissues. Umbilical tape offers a flat rather than round shape and is less likely to saw through the tissues. Mesh made of different materials has been used for the repair of ventral hernias. It is particularly useful for round openings which resist apposition of their edges. The technique to be followed is best governed by the characteristics of the case at hand, and no hard and fast rules can be given.

The method described by Johnson appears good. Polypropylene mesh (Marlex mesh, Phillips Petroleum Co., Bartlesville, Okla.) is placed retroperitoneally or within the abdominal cavity. A second piece is placed over the defect externally (subcutaneously). The two pieces are joined by staple-type sutures of polyethylene (Marlex braided suture, Phillips Petroleum Co.).

Hernias of the left flank in cattle may contain the rumen and can attain an enormous size. They do not affect the general health of the animal. Animals with large hernias of this type have been known to reproduce repeatedly without obvious trouble. These huge hernias are inoperable. Hernias with a small aperture and large content of viscera are seen on both flanks of cattle as a result of horn injuries.

The early diagnosis and treatment of cattle are important. Surgery may be performed under the influence of tranquilizers, epidural anesthesia, and paravertebral blockade. Heavy umbilical tape can be used for suture material and the wall is closed in layers. The subcutaneous tissue is sutured with catgut.

Ventral hernias are not uncommon in sheep. They are comparable to those found in cattle. At times, hernias are seen involving a large part of the lateral or ventral wall. In these cases successful treatment is unlikely, and the economic value of the sheep seldom justifies surgery. Ventral hernias in swine are not frequently seen. Their occurrence is mostly confined to small pigs.

Free Lance Poultry Consultant

DR.MANOJ SHUKLA, a renowned poultry Veterinarian, with 20 years of enriched field experience, now started Free Lance Poultry Consultancy. In the past 20 years have contributed to the development of the hatcheries in various capacities of leading companies across India - Maharashtra, Gujarat, Madhya Pradesh, Chhattisgarh, Orissa, Bihar, West Bengal, Jharkhand, North-East, Uttar Pradesh and neighbouring country of Nepal.



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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

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

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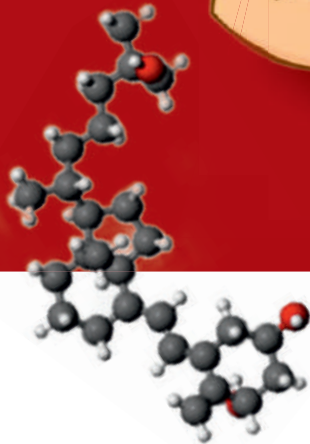
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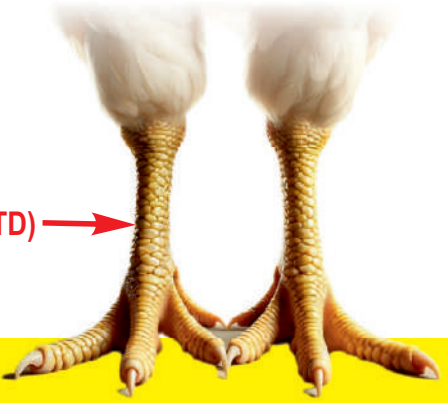


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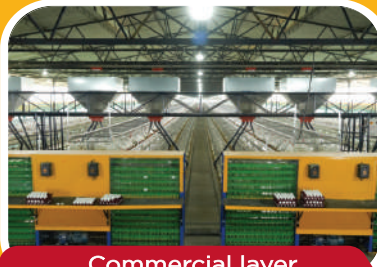
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OPTIMA LIFE SCIENCES HOSTS SCIENTIFIC CONCLAVE IN RAJAHMUNDRY



Optima Life Sciences successfully organized a high-impact scientific conclave in Rajahmundry, bringing together poultry customers and veterinary professionals to explore the critical role of intestinal health in enhancing layer productivity. The conclave was held at Shelton Hotel and witnessed active participation from key stakeholders across the poultry industry. The session commenced with a warm welcome note by Dr. CVC (Vice President, Sales, Optima Life Sciences Pvt. Ltd.), who introduced Optima Life Sciences and presented an overview of the company's advanced manufacturing capabilities and dedicated research farm. Attendees gained valuable insights into Optima's strong focus on innovation, quality, and research-driven solutions for modern poultry production.

The highlight of the conclave was an in-depth technical session delivered by eminent poultry expert Dr. U. C. Patel (Freelance Poultry Consultant | 31+ Years of Experience | South Asia, Middle East & Africa). He provided a comprehensive understanding of gut health challenges in layers, emphasizing that intestinal

health is dynamic and continuously evolves across different phases of the layer lifecycle. During the pullet stage, the gut prepares for the onset of lay, while during peak production, the intestine undergoes constant physiological stress and wear, often compromising nutrient absorption efficiency.

Dr. Patel further highlighted that three fundamental pillars of gut health are crucial for sustaining layer performance—gut microbiota, gut integrity, and gut immunity. He elaborated on how any imbalance in these pillars directly impacts nutrient utilization, health status, and overall productivity. He also emphasized the importance of maintaining a healthy intestinal environment, discussed the significance of medullary bone as a vital calcium reservoir for eggshell formation, and explained key factors affecting nutrient absorption, including microbial balance and intestinal morphology. The importance of probiotics in maintaining gut stability and resilience was also underlined.

A key scientific insight shared during



the session was the role of tributyrins as an efficient energy source for intestinal epithelial cells (villi). Healthy and well-developed villi play a crucial role in maximizing nutrient absorption, ultimately translating into improved production performance. The conclave concluded with a presentation by Dr. Kalyani (Senior Product Manager, Optima Life Sciences Pvt. Ltd.), who introduced ButyEster Pro 3, an advanced gut health solution developed by Optima Life Sciences. She highlighted how the product supports intestinal villi development and regeneration, promotes beneficial microflora balance, and



enhances overall gut functionality. She further emphasized that all three critical pillars of gut health—microbiota, integrity, and immunity—are effectively addressed by ButyEster Pro 3, enabling birds to achieve and sustain peak production levels.

The event witnessed enthusiastic engagement and meaningful discussions, reflecting the industry's growing recognition of gut health as a key driver of productivity and profitability in layer farming. Optima Life Sciences continues to lead with science-backed innovations aimed at addressing evolving challenges in poultry production.



Egg Drop Syndrome (EDS 76)



Dr. Suraj Amrutkar¹, Dr. Suhas Amrutkar² and Dr. Bharti Dehmukh³

1. Assistant Professor, Dept. of L.F.C., F.V.Sc.& A.H., SKUAST-J, Jammu, Jammu & Kashmir
2. Assistant Professor, Dept. of Animal Nutrition, PGIVAS, Akola, MAFSU, Maharashtra
3. Assistant Professor, Dept. of AGB, College of Veterinary Science., GADVASU, Ludhiana, Punjab

Introduction:

Egg drop syndrome (EDS) is a viral disease primarily affecting laying hens, characterized by a significant drop in egg production and a decline in eggshell quality. The disease is caused by the Egg Drop Syndrome Virus (EDSV), an avian adenovirus. Outbreaks can last for several weeks and lead to substantial economic losses for poultry farmers. Egg drop syndrome is a disease of laying hens. Since its first description in 1976 in The Netherlands (Holand), the egg drop syndrome has become a major cause of loss in egg production throughout the world. There is sudden drop in egg production around the peak. The syndrome is characterized by otherwise healthy birds producing thin-shelled or shell-less eggs.

The disease is caused by a group III adeno virus. It is non-enveloped and contains DNA. Only one serotype is recognized. Once common, the disease is now relatively rare. Although disease outbreaks have been recorded only in laying hens, the natural hosts for egg drop syndrome are ducks and geese. The virus got introduced into the chicken, probably through a contaminated vaccine grown in ducks cells. In the laying hens, the virus usually remains latent until birds come to peak production.

Causes:

- EDS is caused by the Egg Drop Syndrome Virus (EDSV), an adenovirus.
- The virus can be transmitted through

contaminated eggs, contact with infected birds, and contaminated fomites (like egg trays).

- Wild waterfowl, such as ducks and geese, can also be carriers of the virus and contribute to its spread.

Spread:

The disease occurs in three patterns

- 1) In the classical form, the breeders are infected, and the main method of spread is vertical transmission. That is, the virus is passed from parents to progeny. However, infected chicks excrete no virus and usually show no serological evidence of the disease until egg production reaches 50%. At this stage, virus is reactivated and excreted, resulting in rapid lateral spread.
- 2) The second pattern (endemic form) results from lateral (horizontal) spread between flocks. This is mainly due to the contaminated eggs or trays, and is usually seen in commercial egg layers. In India, once 32.6% of poultry flocks were found to be infected. Laying flock of any age may be affected. Lateral spread of virus is slow and occurs at intervals. It may take up to eleven weeks to spread through a cage house. Spread of virus between birds on litter is usually faster, but is slow in cages.
- 3) The third (Sporadic) form occurs in occasional isolated cases, and is also seen in any age or breed of birds. It results from introduction of infection from ducks,

geese or any infected wild birds, either through direct contact or indirectly through contaminated water.

Although faeces do not contain virus, droppings are contaminated because of the exudates (inflammatory fluid) from the oviduct. Lateral spread between flocks through contaminated people or substances can occur, but does not appear to be a major risk. Other methods of spread could be contaminated needles and possibly, biting insects.

Symptoms:

- Reduced egg production: Hens may lay fewer eggs, and the drop in production can be rapid and substantial (10-40%).
- Abnormal eggshells: Eggs may be thin-shelled, soft-shelled, or even shell-less.
- Loss of shell color: Brown eggs may lose their characteristic pigmentation.
- Other potential signs: Some birds may exhibit diarrhea or watery egg whites, according to some sources.

The first symptoms are loss of shell strength and colour in pigmented eggs. This is soon followed by thin shelled, soft-shelled and shell less eggs. Eggshells may show mineral deposits. However, deformed eggs and eggs with ridges are not a feature. It is not clear whether there is an actual drop in egg numbers or whether the drop in production is due to affected eggs being eaten or lost in litter. The birds are normally healthy, but sometimes, they appear slightly depressed. Diarrhea has been described, but there is probably an excess of oviduct secretion in the dropping.

Classical form is characterized either by a drop in egg production (by 40 to 50%) around peak, or by a failure to achieve or hold expected production. In the first case, the flock has no detectable antibody before the

drop in production.

In the second case, a small percentage of the flock develops antibody during the growing period. The birds with antibody reduce the spread of virus, so that there is prolonged period of some birds having egg drop syndrome. A similar situation is observed when the virus is spread laterally in a cage unit.

Impact:

- EDS can cause significant economic losses due to reduced egg production and lower egg quality.
- Outbreaks can last for several weeks, impacting the productivity of laying hen flocks.
- While mortality is typically low, the disease can be costly for poultry farmers due to decreased revenue.

Postmortem findings:

Inactive ovaries and a decrease in the size of oviducts (atrophy) are usually the postmortem findings. But these are not always present.

Diagnosis:

- A sudden fall in egg production, associated with thin shelled, soft shelled and shell less eggs in a flock of healthy birds, is almost diagnostic. Shell-less eggs are usually a feature, but are often missed because birds eat them. Therefore, an inspection should be made early in the morning before eggs can be eaten. If birds are on litter, a careful search will show egg membranes. While shell less, soft shell and thin shelled eggs are characteristic, deformed eggs and eggs with ridges are not a feature. In an infected flock in which vertical transmission has occurred, most if not all cases occur around peak production, but flock of any age can be infected by lateral spread.

- Detection of antibodies against egg drop syndrome virus by the haemagglutination inhibition (HI) and serum neutralization tests. ELISA is also useful.
- Virus isolation is difficult because it is often not easy to identify the correct bird for taking the sample.

Vaccination:

Inactivated vaccines are available and can be effective in preventing clinical disease.

Biosecurity:

Strict biosecurity measures, including hygiene and disinfection, are crucial to prevent the spread of the virus.

Avoiding contact with wild birds:

Preventing contact between chickens and wild waterfowl can reduce the risk of sporadic outbreaks.

Cleaning and disinfection:

Thoroughly cleaning and disinfecting equipment, especially egg trays, can help control the spread of the virus.

Early detection:

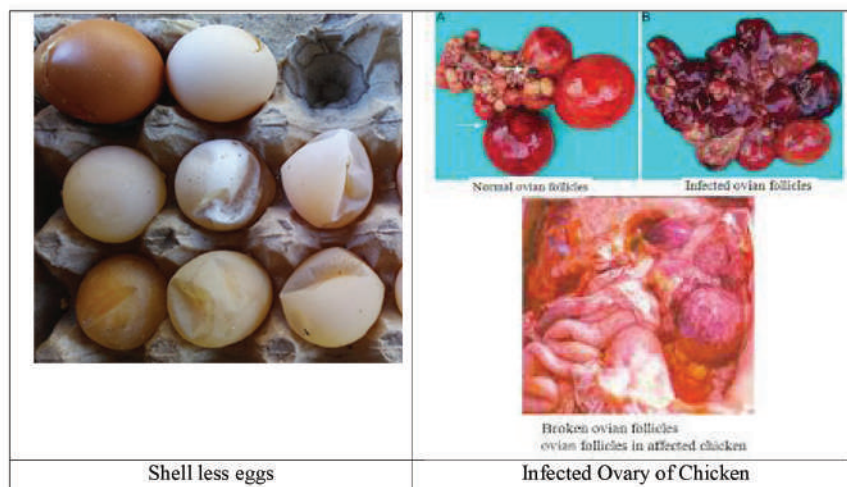
Regular testing for EDSV antibodies can help identify infected flocks early on.

Treatment:

There is no specific treatment for EDS; therefore, prevention is key. Various treatments have been tried, such as vitamins, increasing calcium or proteins in the ration, but no effect could be observed.

Control:

1. Disease prevalent in a particular area can be controlled by vaccination. Efficient killed vaccines are available. These are given intra-muscularly between 14 and 18 weeks of age and are usually combined with other viruses, such as Ranikhet disease virus or infectious bronchitis virus.
2. Since the main method of horizontal spread is through the infected egg and tray, wherever possible plastic trays should be washed and sterilized before returning to the farm. Other methods of spread, such as contaminated transport, people and needles, are much less important. Spread by air is not important.
3. Strong biosecurity should be practiced. Visitors should not be permitted to enter poultry house.
4. The sporadic form can be prevented by ensuring that chicken flocks do not come into contact with other birds, especially waterfowl.





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Empowering Poultry Farmers: Regen Biocorps Hosts “पोल्ट्री की पाठशाला” in Jhansi

Farmer meeting पोल्ट्री की पाठशाला was successfully organised by Regen Biocorps Pvt. Ltd. on 1st February at Jhansi, Uttar Pradesh. The meeting aimed to provide hands-on knowledge and scientific solutions to poultry farmers for improving

flock health, productivity, and farm profitability.

The event witnessed enthusiastic participation of thirty-eight progressive Poultry Farmers along with three reputed veterinarians, making the session highly interactive and informative.



The technical session was enriched by the presence of renowned poultry consultants Dr. Atyama Hare and Dr. Prabhat, who shared their valuable field experience and guided farmers on addressing common poultry health challenges.

of key poultry health solutions including Immomon, Thermogard, Utsol, CRDR, ColikilR, and Epatotox. The discussion included the indications, mode of action, usage guidelines, and benefits of these products in strengthening the immunity, improving gut health, controlling respiratory and bacterial infections, and supporting liver functions.

The discussion primarily focused on major field issues such as immunosuppression, E. coli infections, and Chronic Respiratory Disease (CRD), which significantly impacts flock health, feed efficiency, mortality rate, and farm profitability. Farmers actively shared their field challenges and sought expert advice on improving management practices.

The meeting was very well coordinated by the organizing team consisting of Mr. Rahul Hatnagar, Mr. Ritesh Rivastava, Mr. Shishumar Singh, and Mr. Manu Umar Tayal, whose dedicated efforts ensured the smooth execution of the program.



The interactive question-answer session allowed farmers to clarify their doubts and gain practical insights into improving bird health and flock performance.

During the workshop, our Regen Biocorps experts highlighted the importance and practical application

The meeting concluded with appreciation of all participants, experts, and team members who contributed to making the event successful. Such initiatives by Regen Biocorps will be continued to empower poultry farmers with knowledge, innovative solutions, and confidence to achieve sustainable and profitable poultry farming.

Heartfelt thanks to Mr. Pankaj Astwala and Mr. Pawan Umardgil for their unwavering support and valuable guidance, which not only strengthens our team but also tries to uplift the poultry farmers by delivering them knowledge, confidence, and success.



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National Chicken Day 2024 November 16 and 17

Commemorating the Birth Anniversary of
Padmashri Dr. B. V. Rao,
the Father of Indian Poultry.

Compiled by: **APT Media**



The Pan India Broiler Coordination Committee successfully organized a nationwide awareness campaign on November 16 and 17, commemorating the birth anniversary of Padmashri Dr. B. V. Rao, the Father of Indian Poultry.

The campaign aimed to create awareness about chicken among common citizens, promoting its health benefits and importance in the Indian diet. The event was well-received by consumers, who appreciated the discounts and educational initiatives.

This is the fourth consecutive year the event has been held. Mr. Vasanthkumar C Setty, Convenor, Pan India Broiler Coordination Committee, shared that across India, around 900 shops displayed banners of 'National Chicken Day' and offered discounts and free eggs, along with chicken to customers, to promote greater consumption of poultry.

Several states participated in the celebration, including Assam, Chattisgarh, Karnataka, Maharashtra, Tamilnadu, West Bengal, and North India. The event was supported by the Poultry Associations of West Bengal, Chhattisgarh, Maharashtra, and Karnataka. This year, the Assam Association and North India Broiler Associations, along with Venky's India, joined in the celebration.



The festival featured various events and activities, including:

- **Special Discounts and Offers:** Discounts on chicken products and free eggs with every kilogram of chicken sold.
- **Awareness Programs:** Lectures, demonstrations, and training sessions to educate consumers about the benefits of chicken consumption.
- **Chicken Cooking Competition:** A cooking competition to promote chicken as a versatile and healthy food choice.
- **Tableaus and Rallies:** Many tableaus traveled across various consumer centers to educate consumers about the benefits of chicken consumption.
- **Distribution of Recipe Booklets:** 50,000 recipe booklets were handed out to promote creative and healthy chicken dishes.
- Renowned celebrities, government officials, and dignitaries participated in special events to mark the birth anniversary of Padmashri Dr. B. V. Rao.





The National Chicken Day celebration was a tremendous success, effectively raising awareness about chicken's vital role in the Indian diet. The event highlighted the commitment of the Poultry Farmers and Breeders Association of Maharashtra and participating states toward the welfare of poultry farmers and educating consumers about the nutritional and economic benefits of chicken consumption.

This unique Chicken Festival was conceptualized and spearheaded by Mr. Vasanth Kumar C. Setty -Convener of the PAN India Broiler Coordination Committee. It was conducted across eight states—Andhra Pradesh, Assam, Chhattisgarh, Karnataka, Maharashtra, Tamil Nadu, Telangana, and West Bengal—in collaboration with their respective state breeders' Associations.

The festival was meticulously documented, compiled, and coordinated by Inayath Ulla Khan of APT Media, ensuring its successful execution and impactful messaging.



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National Chicken Day 2024 Padmashri Dr. B. V. Rao Birth Anniversary

Promotional activity by ALLTECH

M/s Alltech have started educating the children regarding chicken quality and necessary of chicken of the growth of their body. In Bangalore School and also have done in schools of Delhi and continue many more schools in coming months.

Alltech team took great pride in promoting the nutritional advantages of eggs and chicken, especially focusing on educating kids about the health benefits associated with including these products in their diets.

Here are some of the promotional initiatives our team has accomplished-

- 1) Egg distribution and interaction between the Alltech Bangalore team and 40 children at Vidyaranya NGO, Bangalore.
- 2) Visiting Nehru Camp, one of Delhi's largest slum area, and engaging with 120 kids.
- 3) Visiting Government Lower Primary School, Mallanayakanahalli, and encouraging egg & chicken consumption to the 24 students.
- 4) Visiting Government School, Davangere, and explaining 20 students the importance of consuming a balanced diet that includes chicken and eggs.
- 5) Spreading awareness and celebrating National Chicken Festival with our customers.



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National Chicken Day 2024 Padmashri Dr. B. V. Rao Birth Anniversary

Promotional activity by ALLTECH



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National Chicken Day 2024 Padmashri Dr. B. V. Rao Birth Anniversary

Egg cart photos





National Chicken Day 2024 Padmashri Dr. B. V. Rao Birth Anniversary

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The Chicken Festival is conceptualised by Mr. Vasanth Kumar C. Setty - Convener, PAN India Broiler Coordination Committee. It is conducted in the states of Andhra Pradesh, Assam, Chattisgarh, Karnataka, Maharashtra, Tamil Nadu, Telangana, West Bengal compiled & Coordinated by : Inayath Ulla Khan | APT Media.



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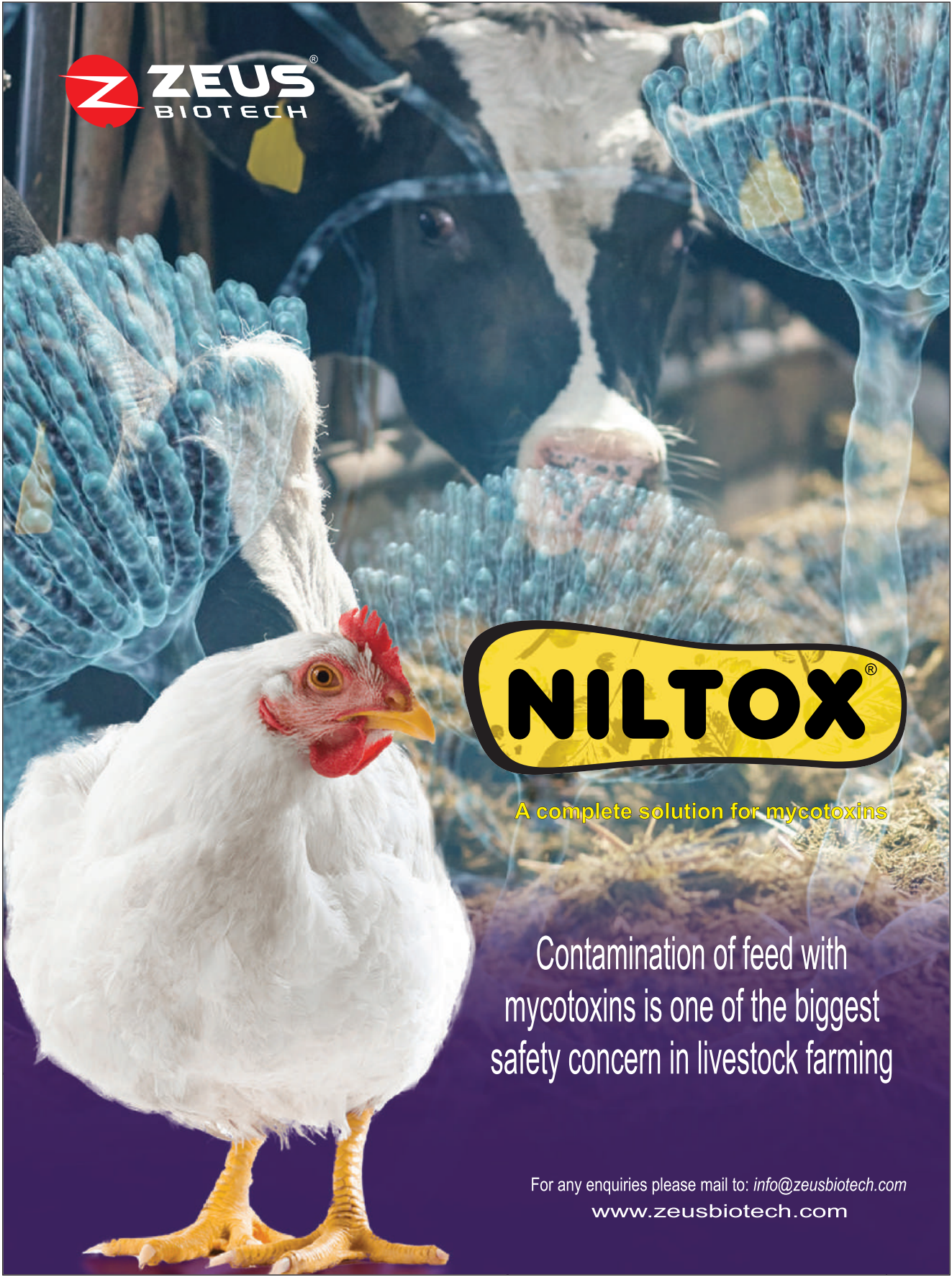
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Trichinellosis: Swine Associated Zoonosis

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Introduction

Throughout the world, *Trichinella* spp. have been found to be the causative agents of human trichinellosis, a disease that not only is a public health hazard but represents an economic problem in porcine animal production and food safety. Most of the countries are focusing on the control or elimination of *Trichinella* from the food chain because of the zoonotic importance of infection. Important source of human infection includes the domestic pig. Meats of horses and wild boars have played a major role in outbreaks during the past three decades especially in European countries (Gottstein et al., 2009). Infection of humans ensues with the ingestion of larvae of *Trichinella* spp. that are encysted in muscle tissue of meat from domestic or wild animals. In humans, the least infectious dose that can cause disease is not clearly defined. Approximately ingestion of 100 and 300 larvae of *Trichinella spiralis* can cause disease.

The genus *Trichinella* include eight well recognized species and four genotypes (Table 1). The most important etiological agent from trichinosis is *T. spiralis* which is a small intestinal nematode of predatory mammals and muscles of mammals preyed upon by other animals. This species is most adapted to domestic and wild swine but at times also include synanthropic rats in its life cycle. The sylvatic cycle of *T. spiralis* includes a wide range of wild carnivores. Although infection is of a global distribution, it has been documented rarely from India. The reports are available where *Trichinella* larvae were found from animals in India one human case has been reported from India (Punjab) before 2008. Small multiple outbreaks of human trichinosis in India were reported in 2009-2011 in the remote areas of Uttarakhand who have reported taken wild boar meat (Sethi et al., 2010).

Epidemiology in Animals

Most of the species with the exception of *T. spiralis*, parasitize predominantly wild animals. Improper segregation of domestic animals and wildlife can result in spread from wild animals to domestic animals. Domestic cycles and the sylvatic cycle can function either independently from each other or interactively. The term “domestic cycle” implies to the transmission pattern when the swine herd being fed with garbage or carcasses or the transmission can also occur via synanthropic animals such as rats and mustelids. Similarly horses fattened with pork scraps or with carcasses of fur animals can be infected with *Trichinella*; likewise, infections in sled dogs fed with carcasses of other dogs or of game from the arctic, including carcasses of slaughtered fur animals, were also been reported. The use of meat of slaughtered crocodiles to feed other farmed crocodiles has been reported as well. In Canada, the United States, and most European Union countries, *Trichinella* infection in domestic animals has virtually disappeared with adoption modern farming system, although sporadic incidences were reported do occur. In Argentina, Chile, and Mexico, *Trichinella* infection is still endemic in both humans and pigs. Domestic cycle of Trichinosis occurs in China, Thailand, Indonesia, Laos, Malaysia, and Myanmar. Other species like *T. britovi*, *T. pseudospiralis* can also be transmitted through the domestic cycle when humans feed pigs with game meat scraps or when “pasture” pigs had access to dumps containing offal of sylvatic animals in Croatia, Kamchatka, Russia, and the Slovak Republic.

The “sylvatic cycle” swings between wildlife hosts and it includes all *Trichinella* species and genotypes, including *T. spiralis* for mammals, *T. pseudospiralis* for birds and mammals, and *T. papuae* and *T. zimbabwensis* for reptiles and mammals. Ingestion of muscle tissue from an infectious animal or by consumption of infectious tissue from a carcass of a homologous or a

heterologous species is the primary cause of this parasitic disease. Natural *Trichinella* infections have been reported for more than 100 species of mammals, seven species of birds and three reptile species. Despite of the wide host range, the predominant biotic potential lies with carnivores and porcine omnivores (especially domestic and wild races of pigs). One of the most important biological factors promoting transmission is the physiological ability of muscle-stage larvae to survive in decaying carrion. Thus, even nonencapsulated larvae of *T. papuae* retained their infectivity in decaying tissues of a swine exposed to 35°C for 9 days. Encapsulated larvae of *T. spiralis* have been found to retain infectivity for laboratory animals up to 4 months in extremely rotten meat where as that of *T. britovi* and *T. nelsoni* in mouse carcasses packed in plastic vials have been found to be infective for laboratory animals up to 45 days at room temperature even if the muscle tissues were completely liquefied. The importance of this well-established environmental adaptation is accentuated by survival even at low freezing temperatures, for eg: *T. nativa* and *Trichinella* genotype T6 can survive for up to several years and *T. britovi* can survive in frozen carrion for up to 1 year, maintaining infectivity for future hosts. Besides the anaerobic metabolism favoring survival in putrefying flesh, the ability of larvae of some species to survive freezing are two unique mechanisms that strongly increase the survival of the parasite in nature. The survival time of muscle larvae after freezing found to be increased when these larvae parasitize striated muscles of carnivores compared with other mammalian hosts such as swine and rodents.

Life cycle and pathogenesis

Infection commences with the ingestion of raw and/or undercooked meats harboring the nurse cell-larva complex. Larvae are released from muscle tissue by digestive enzymes in the stomach, and then locate to the upper two-thirds of the small intestine. The outermost cuticular layer (epicuticle) becomes partially digested (Modha et al., 1999). This enables the parasite to receive environmental cues and to then select an infection site within the small intestine. The immature parasites penetrate the columnar epithelium at the base of the villus and live within.

Over a 30-hour period larvae molts four times in rapid succession, developing into adults. The female measures 3 mm in length by 36 µm in diameter, while the male measures 1.5 mm in length and 36µm in diameter. Patency occurs within five days after mating. Adult females produce live offspring — newborn larvae— which measure 0.08 mm long by 7 µm in diameter as long as host immunity do not develop. Once acquired and protective immunity develops that interfere with the overall process of embryogenesis and creates physiological conditions in the local area of infection which forces the adult parasites to egress and relocate further down the intestinal tract. Expulsion of worms from the host may take several weeks.

The newborn larva is the only stage of the parasite that possesses a sword-like stylet, located in its oral cavity which helps in the entry to potential host cells. Initially larvae will enter the lamina propria and in later stages penetrate into either the mesenteric lymphatics or into the bloodstream. The larvae which enter the general circulation eventually get distributed throughout the body. There appears to be no tissue tropism for the parasite. Depending upon environmental cues received by the parasite they can either remain or leave. Most cell types get destroyed as the result of invasion with exception being skeletal muscle cells. The parasites in striated muscle induce unique Nurse cell formation which involves a series of changes, causing the fully differentiated muscle cell to transform into one that supports the growth and development of the larva. Parasite and host cell develop in a synchronized fashion. *T. spiralis* is infective by the 14th day of infection, but the worm continues to grow in size through day 20. The significance of this precocious behavior has yet to be appreciated.

Nurse cell formation results in an intimate and stable association between the worm and its intracellular niche. At the cellular level, myofilaments and other related muscle cell components become replaced over a 14-16 day period by whorls of smooth membranes and clusters of nonfunctional mitochondria and results in switch from an aerobic to an anaerobic metabolism. The Nurse cell-parasite complex can remain alive throughout the life period of the host. The complexes get calcified

within several months after forming. Scavenging is a common behavior among most wild mammals, and this helps to ensure the maintenance of *Trichinella* spp. in the food chain.

Diagnosis

Definitive diagnosis depends upon the detection of Nurse cell-parasite complex in muscle biopsy by microscopic examination or detection of *Trichinella*-specific DNA by PCR (Pozio and La Rosa, 2003). PCR is very sensitive and specific for detecting small numbers of larvae in muscle tissue. Even though a rising, plateauing and falling level of circulating eosinophils throughout the infection period is not direct proof of infection, but with this information, the clinician could treat the patient as if the diagnosis of trichinella had been made. In humans petechiae under the fingernails, bilateral periorbital edema and high fever, coupled with a history of eating raw or undercooked meats, is further indirect evidence for this infection. Muscle enzymes, such as creatine phosphokinase (CPK) and lactic dehydrogenase (LDH), levels increase in serum. Serological tests begin to show positive results within two weeks. ELISA can detect antibodies as early as 12 days post infection.

Treatment

There is no specific anthelmintic therapy, even after a confirmative diagnosis is made. Mebendazole given early during the infection may help reduce the number of larvae. Anti-inflammatory corticosteroids, particularly prednisolone, are recommended if the diagnosis is secure. Rapidly destroying larvae with anthelmintics without use of steroids can actually exacerbate host inflammatory responses and worsen disease. The myopathic phase is treated in conjunction with antipyretics and analgesics (aspirin, acetaminophen), and should be continued until the fever and allergic signs recede (Dupouy-Camet et al., 2002). Steroids should be administered with caution because of their immunosuppressive potential.

Prevention and Control

The prevention of trichinellosis in humans can be attained through education of the consumer about the risk of consumption of raw or semiraw meat and meat products from the carriers of *Trichinella* parasites, organized pig farming and control of all

susceptible animals by a standardized artificial digestion method at slaughtering or after hunting.

All meat from animals which might contain *Trichinella* larvae but cannot be tested by an appropriate laboratory method should be treated by a procedure that has been proven to inactivate *Trichinella* prior to distribution for human consumption. Three methods have been shown to reliably inactivate *Trichinella* larvae in meat: (i) cooking to reach a core temperature of not less than 71°C (159.8°F) for at least 1 min (i.e., the meat must change the color from pink to gray, and muscle fibers are easily separated from each other), (ii) freezing (meat up to 15 cm in thickness are frozen solid (at least -20°C) for no less than 3 weeks, and cuts and pieces of meat up to 50 cm in thickness should be frozen solid for no less than 4 weeks) and (iii) irradiation (0.3 kGy for sealed packaged food only).

Methods for the preparation of meat and meat products that are not considered safe include cooking by using microwave ovens and curing, drying, or smoking. Particular caution should be given to the putative presence of freeze-resistant *Trichinella* species or genotypes.

Control of *Trichinella* Infection in Pigs:-The main key points are (i) architectural and environmental barriers, (ii) feed and feed storage, (iii) rodent control, (iv) farm hygiene including proper disposal of dead animals, and (v) piglets from farms with controlled housing conditions.

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Table 1: Epidemiological characteristics of Genus *Trichinella* (Pozio and Murrell, 2006)

Species/ Genotype	Encapsulated/ not	Geographical distribution	Host range	Resistance to freezing in muscles (larvae)
<i>T. spiralis</i>	Encapsulated	Cosmopolitan	Domestic and wild mammals	Yes (horse muscle)
<i>T. britovi</i>	Encapsulated	Temperate areas of Europe and Asia, Northern and Western Africa	Sylvatic mammals and rarely domestic pigs	Yes (carnivore and horse muscle)
<i>T. nelson</i>	Encapsulated	Eastern-Southern Africa	Wild mammals	No
<i>T. native</i>	Encapsulated	Arctic and subarctic areas of America, Asia, Europe	Wild carnivores	Yes (carnivore muscle)
<i>T. murrelli</i>	Encapsulated	United States and Southern Canada	Wild carnivores	No
<i>T. papuae</i>	Not encapsulated	Papua New Guinea, Thailand	Wild pigs, saltwater crocodiles	No
<i>T. pseudospiralis</i>	Not encapsulated	Cosmopolitan	Wild mammals, birds, domestic swine	No
<i>T. zimbabwensis</i>	Not encapsulated	Zimbabwe, Mozambique, Ethiopia, South Africa	Nile crocodiles, monitor lizards	No
<i>Trichinella</i> genotype T6	Encapsulated	Canada, Alaska, Rocky Mountains and Appalachian Mountains in the United State	Wild carnivores	Yes (carnivore muscle)
<i>Trichinella</i> genotype T8	Encapsulated	South Africa and Namibia	Wild carnivores	No
<i>Trichinella</i> genotype T9	Encapsulated	Japan	Wild carnivores	
<i>Trichinella</i> genotype T12	Encapsulated	Argentina	Cougars	Unknown

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



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