Prevent event

IMPROVING OUTCOMES AND SUCCESS IN THE POULTRY INDUSTRY

Mustafa Seçkin SANDIKLI

Ceva Global Marketing Director

GALVmed

Protecting Livestock – Improving Human Lives

Kigali, 1st of October

Our business purpose

“Together, our passionate people drive innovative health solutions for all animals, contributing to the future of our diverse planet.”

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Global reference in Poultry Vaccination

#1
IN HATCHERY VACCINATION

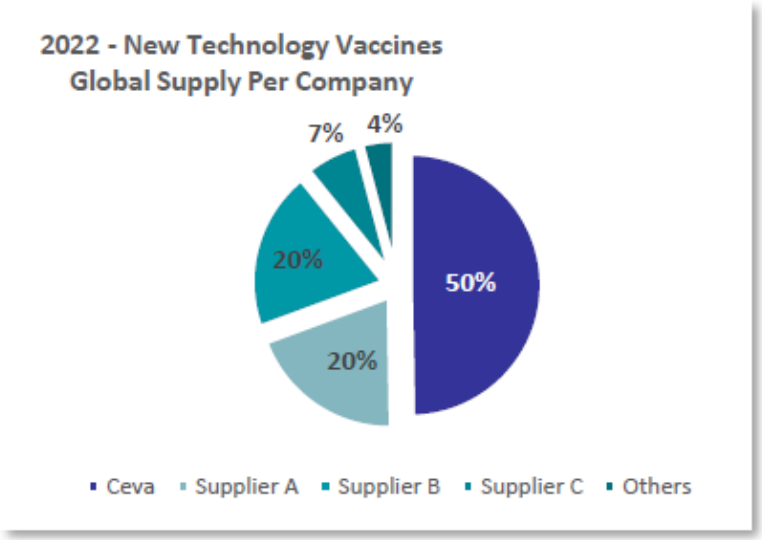
22%
GLOBAL VACCINE MARKET SHARE

27.4 Billion
DOSES OF NEW TECHNOLOGY HATCHERY VACCINES IN 2022

850 Poultry
PROFESSIONALS

Global coverage

180 Vet
SPECIALISTS CLOSE TO YOU



195 Hatchery
SPECIALISTS AT YOUR SERVICE

64 %
OF HATCHERIES IN THE WORLD AUDITED BY THE C.H.I.C.K PROGRAM

Poultry vaccines in the center of Ceva's strategy

Innovative range of vaccines – 6 Key Diseases

Focus on hatchery

Broilers
Layers
Breeders

6 key diseases

IBD
ND
IB
H9 / H5
Cocci
Salmonella

3 Key services & 4 Key Hatchery Equipment

Health performance monitoring :

- Global disease awareness
- GPS with Real World Evidences statistics
- Global lab network + SSIU
- Smart glasses & Data pulse platform

Quality of vaccination & innovative hatchery equipment :

- CHICK Program
- Egginject, Laserlife, Ovosense, Dovac Line

Viral and Bacterial Autogenous vaccines for selected geo

Layer : A specific value proposition for Layers & Breeders

NOVAMUNE

Vectormune ND | Cevac IBird | Cevac MD RISPENS L

IMMUcox 5 | NEWFLEND ND H9

Immunize your pullets from the hatchery and reduce field booster application for Marek's, IBD, ND, IB, H9 and Coccidiosis

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vectormune FP LT AE | vectormune FP MG AE

Perfect balance between safety and efficacy in a single injection, Allows you to use other vector HVT vaccines at the hatchery

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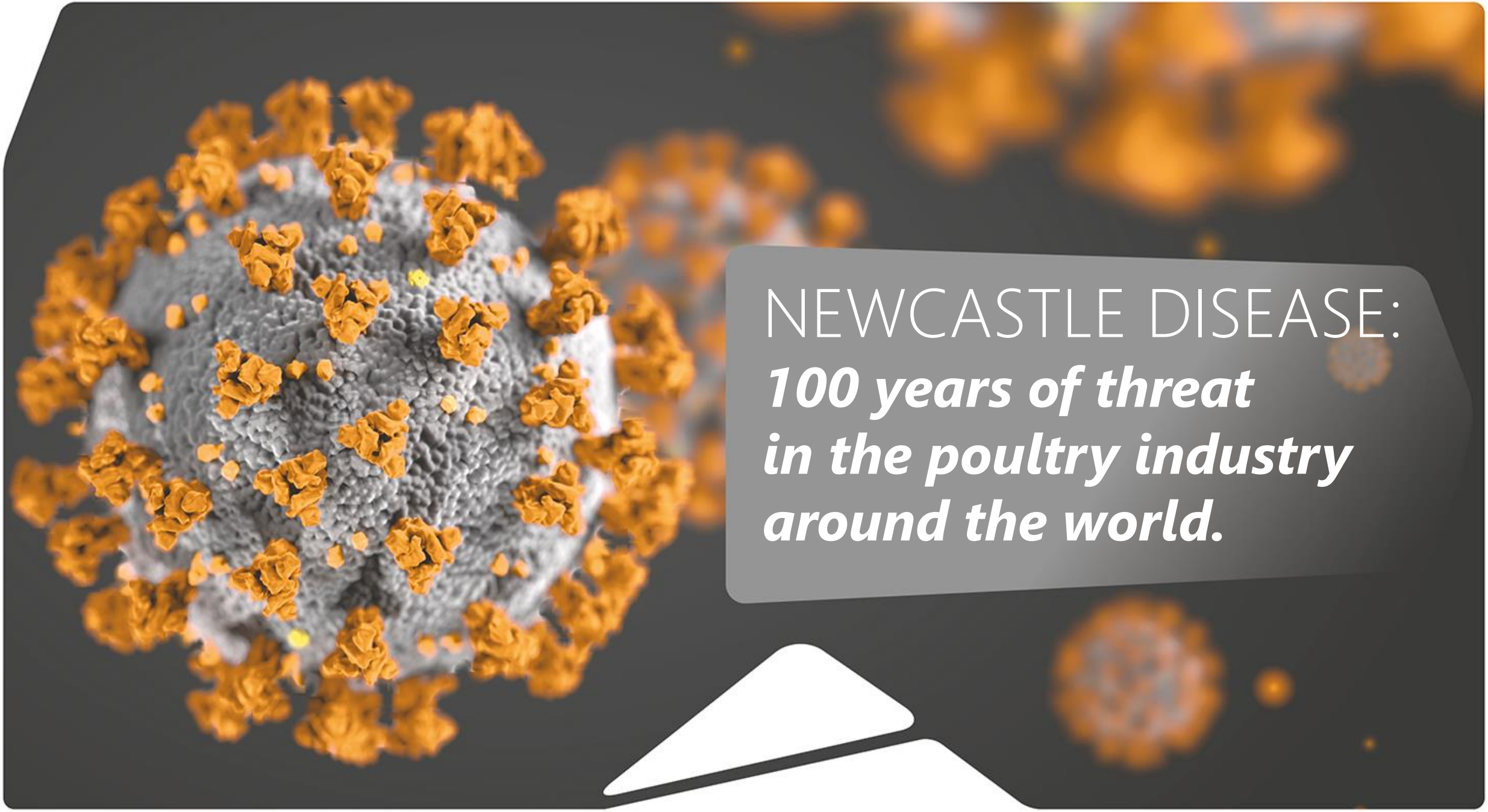
Cevac CORYMUNE 4 K | Cevac CORYMUNE 7 K | Cevac MEGAMUNE K

Broad protection in a single injection, reduce catching stress and handling of birds.

SALMOVAC®

The strongest and longest SE and ST protection


NEWCASTLE DISEASE:
100 years of threat
in the poultry industry
around the world.

Why do we still have ND in the field ?

Lack of control

3 Key Success Factors

1. Biosecurity
2. Vaccine and Vaccination
3. Immunization

3 major problems associated with vaccination against Newcastle Disease:

1. Interference between MDA and (conventional) ND vaccines
2. Quality of administration
3. Possible post-vaccination reactions (PVR)

Innovation of ND Vaccines to overcome the limitiations

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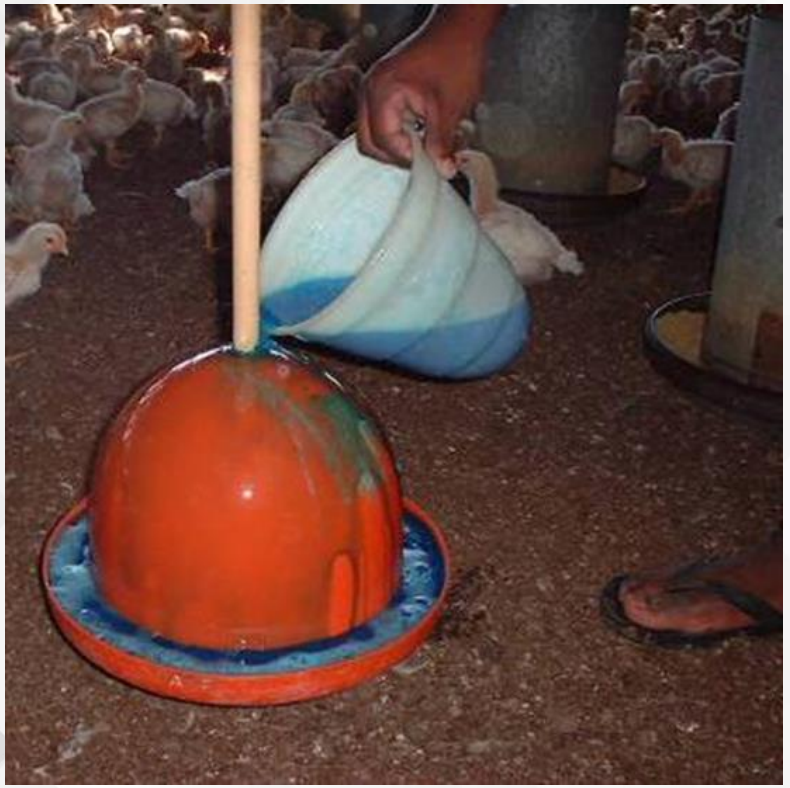
Poor quality of farm vaccination



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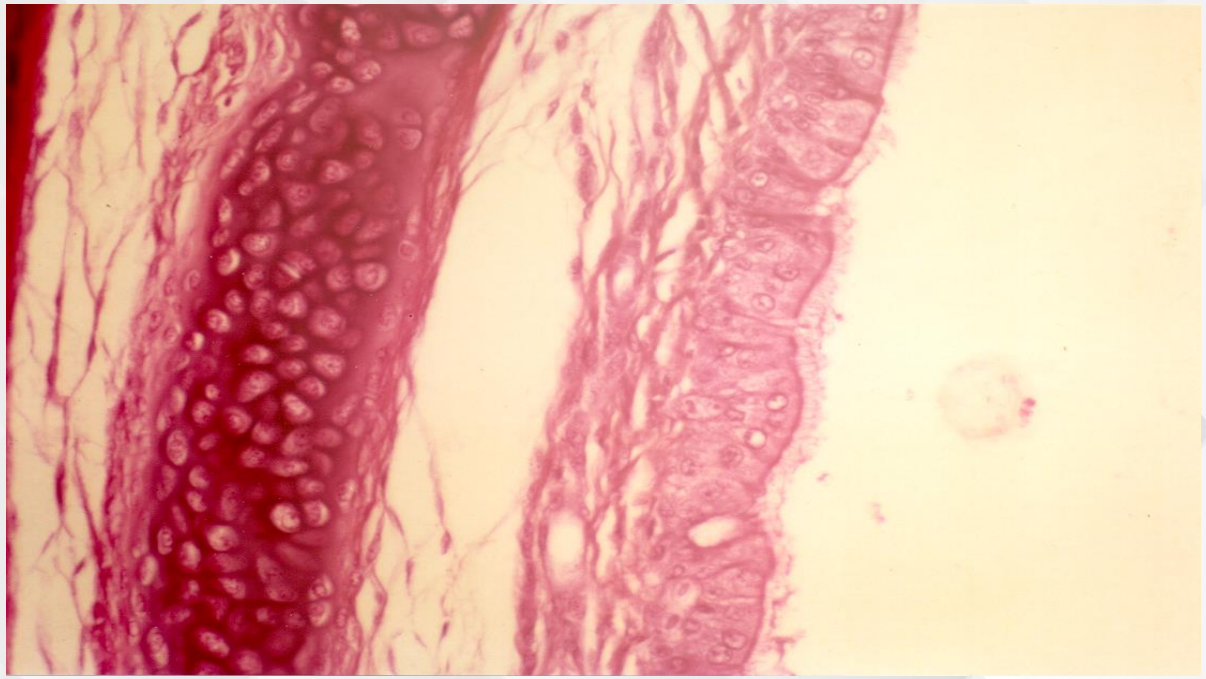
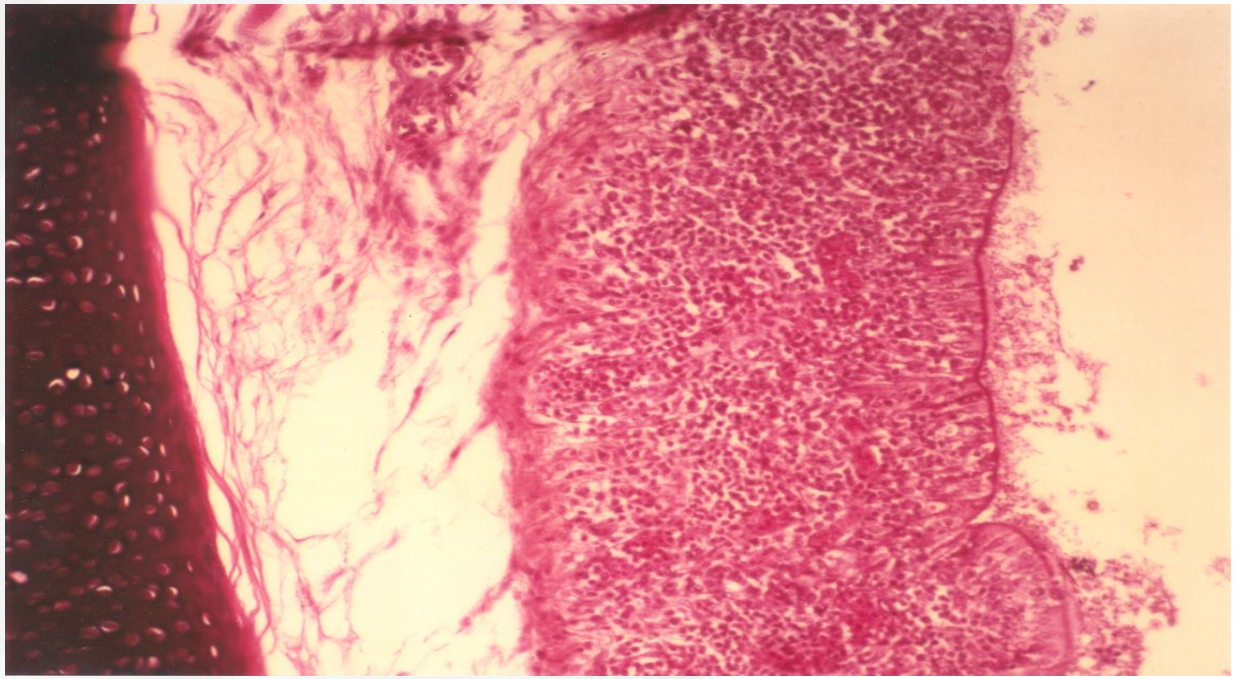
Post-vaccination reactions

Tracheal histopathology

Normal image



Lymphoid Infiltration : +++ Congestion : +



Pneumotropic ND strains

Source: AFSSA, 1999

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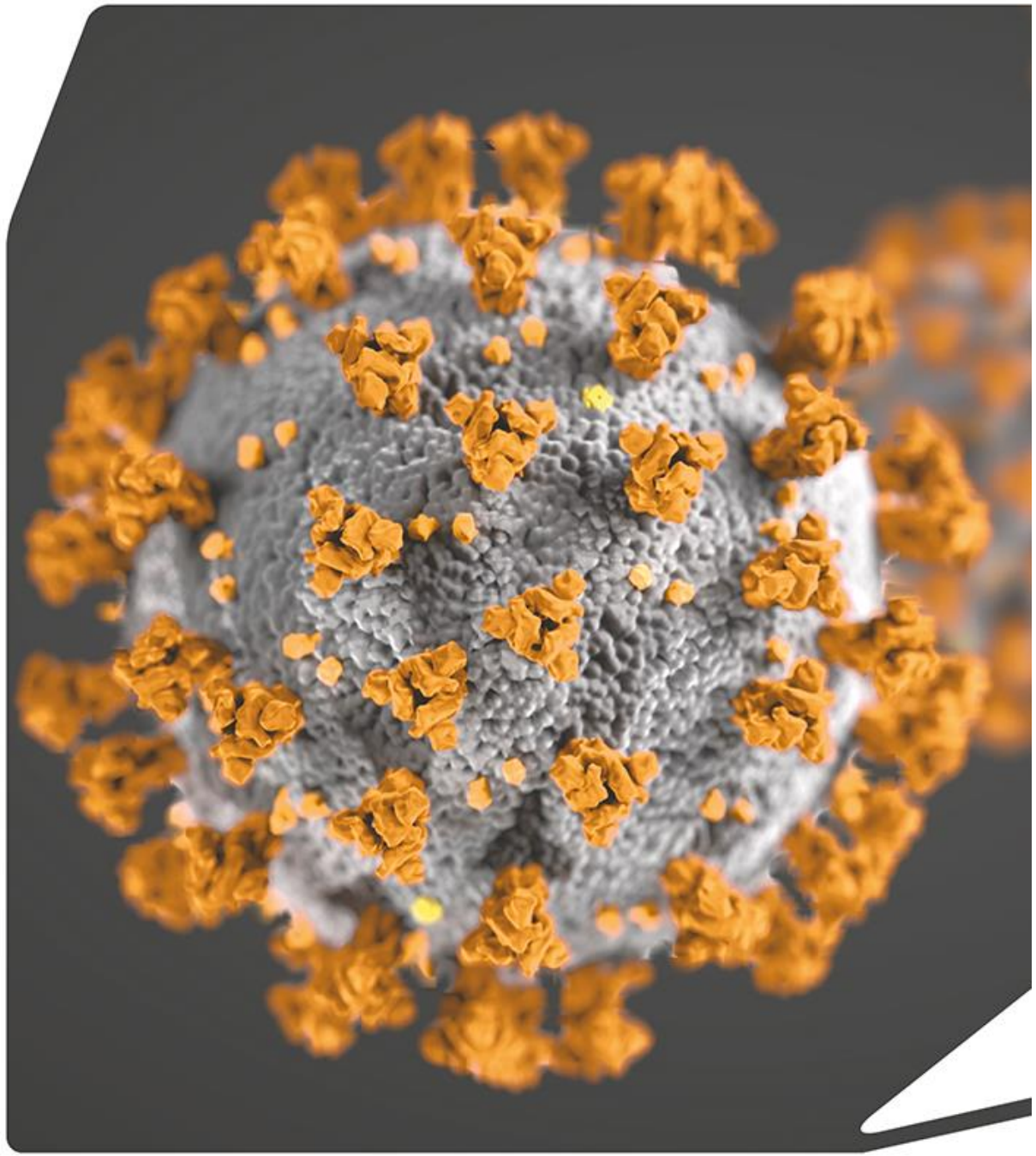

TAKE CONTROL OF TRANSMISSION

Vectormune® ND

Vectormune® ND is the proven reference for the reduction of Newcastle disease transmission.

Whatever your situation; Vectormune® ND protects your performance against lentogenic and velogenic strains, thanks to the best in class transmission control!

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We can STOP the GUMBORO CYCLE Time

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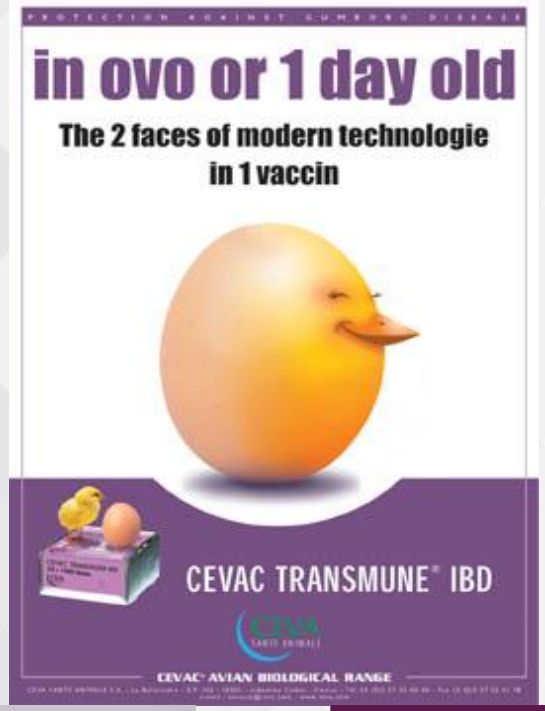
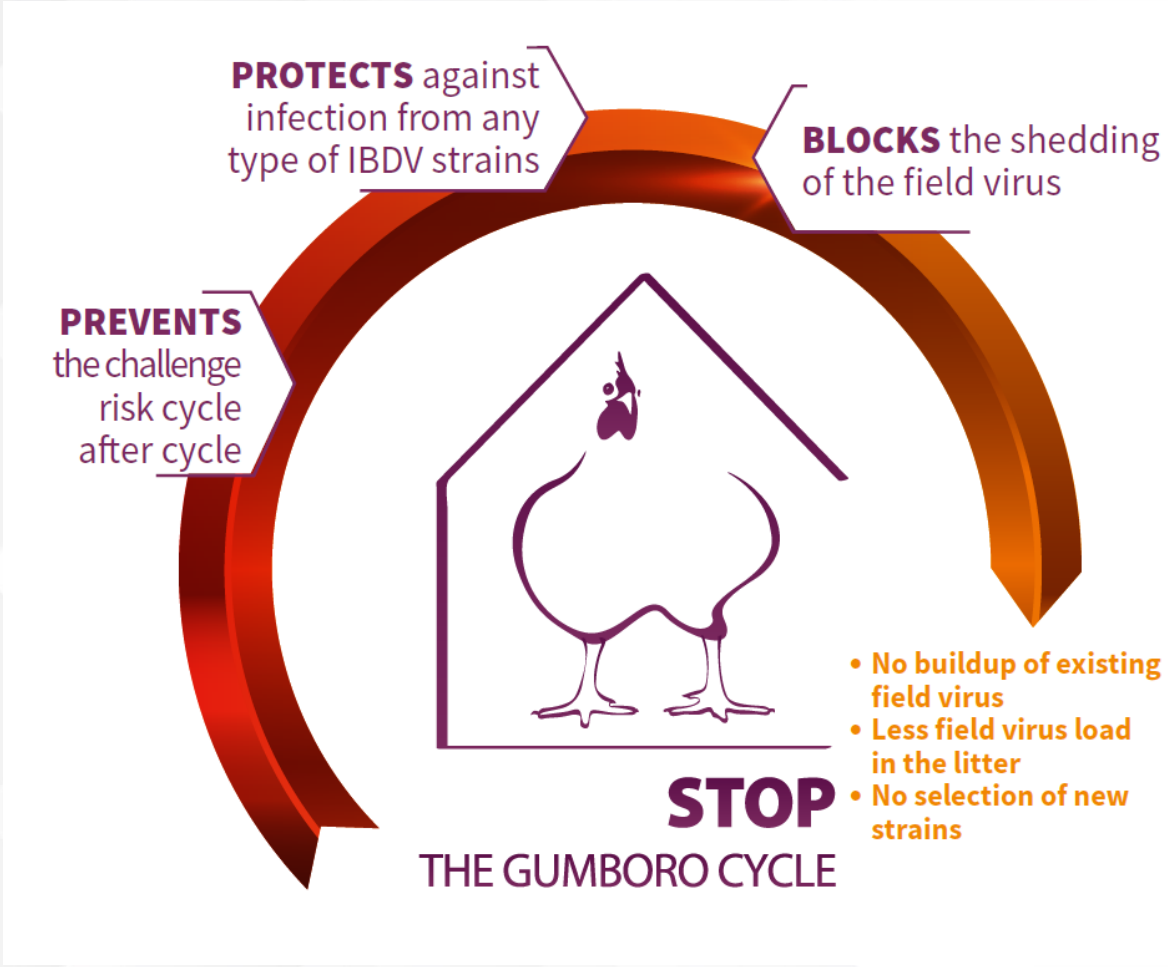

in ovo or 1 day old
The 2 faces of modern technologie
in 1 vaccin
CEVAC TRANSMUNE® IBD
CEVAC® AVIAN BIOLOGICAL RANGE

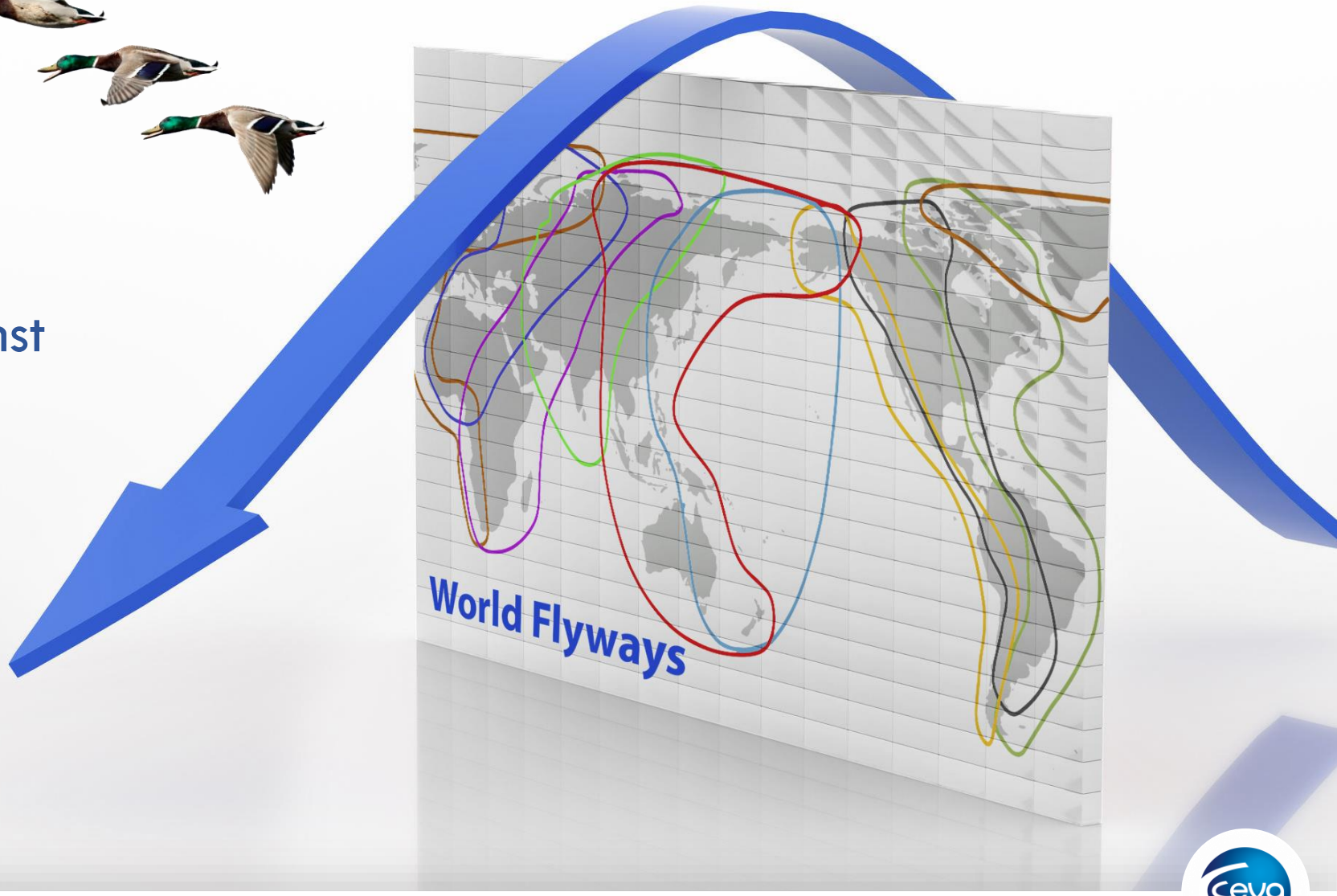

TRANSMUNE® IBD
STOP
THE GUMBORO CYCLE
Transmune® stops reinfection and protects against all IBD virus strains


NEXTMUNE®
A NEXT STAGE IBD
FASTER GUMBORO DISEASE CONTROL
TO PROTECT AGAINST ALL IBD VIRUS


PROTECTS against infection from any type of IBDV strains
BLOCKS the shedding of the field virus
PREVENTS the challenge risk cycle after cycle
STOP
THE GUMBORO CYCLE
• No buildup of existing field virus
• Less field virus load in the litter
• No selection of new strains

Avian Flu

We've tried to build WALLS, lockdown against pandemics…



Avian Influenza is a major threat

Avian Influenza is back to the news

Bangkok Post

THAILAND WORLD BUSINESS OPINION AUTO

WORLD

Japan culls record 10m birds as avian flu spreads

PUBLISHED : 10 JAN 2023 AT 12:26 WRITER: KYODO NEWS

Officials in protective suits work at a chicken farm where an outbreak of a highly pathogenic bird flu was confirmed in Mitoyo, western Japan, on Nov 5, 2020. (Photo: Kyodo News)

MITO: The number of birds culled at poultry farms in Japan has exceeded 10 million as cases of avian flu continue to spread nationwide, the farm

The Korea Times

North Korea National Business Finance Lifestyle Entertainment & Art Opinion Sports

National

Forestry

Korea reports 2 more avian influenza cases

A quarantine officials disinfect a truck near a poultry farm in the city of Hwaseong, Gyeonggi Province, Nov. 17. Yonhap

BusinessWorld

Egg prices seen rising further on bird flu impact

By Ashley Erika O. Jose, Reporter

THE RETAIL PRICE of eggs is expected to rise further with supply continuing to be constrained by the impact of avian influenza or bird flu, the egg farmers' association said.

"Supply is on the low side because of bird flu. Prices may rise further depending on the demand and until it reaches a threshold," Gregorio A. San Diego, Jr., chairman of Philippine Egg Board Association, said in a text message on Sunday.

World Organisation for Animal Health

70 934 abonnés

18 h •

Over 272 MILLION poultry died or were culled due to #AvianInfluenza since October 2021. On #WorldPoultryDay, and everyday, we must work together to stop the spread and prevent new outbreaks, for #EveryonesHealth. ...voir plus

20 SAN DIEGO NOTICIAS LOCALES COPA MUNDIAL DE LA FIFA EL TIEMPO ESSU VIDEOS RESPONDE

INFLUENZA AVIAR

Ecuador: niña de 9 años resulta ser el primer ca aviar en humanos

QUITO — Una niña de una provincia del centro andino de Ecuador se convirtió primer caso de influenza aviar en humanos en el país, situación que se produc meses después del primer brote y contagio en criaderos avícolas del país.

El ministerio de Salud confirmó que se trata de una niña de nueve años de la p donde el ministerio de Agricultura reportó esta semana un brote de influenza gallinas de una familia de la zona. La menor estuvo en contacto con las aves.

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NATION

Philippines reports new bird flu outbreaks

Catherine Talavera - The Philippine Star

June 18, 2022 | 12:00am

MANILA, Philippines — Avian influenza or bird flu continues to spread across country as new outbreaks have been recorded in Luzon and Mindanao.

In two separate follow-up reports to the World Organization for Animal Health the Philippines said new avian flu outbreaks were detected in Pampanga, Nue Ecija, Isabela, Tarlac, Benguet and Laguna in Luzon.

In Mindanao, bird flu outbreaks were recorded in South Cotabato, particularly Barangays Teresita and Katipunan in Sto. Niño town.

The New York Times

Cambodia Investigates After Father and Daughter Infected With Bird Flu

Two family members were infected with H5N1; the daughter died. Eleven contacts, some with symptoms, have tested negative, according to the W.H.O.

Chickens in a market in Phnom Penh, Cambodia. For now, experts believe the cases there are from direct exposure to infected birds. Tang Chhin Sothy/Agence France-Presse — Getty Images

Bird flu: Health officials draw up COVID-style model looking at pandemic possibilities

The plans to boost the UK's preparedness for a bird flu pandemic come after an 11-year-old girl died from the virus in Cambodia. The WHO warns that even if the world is more prepared than for COVID, "we are not yet prepared enough".

Josephine Franks

Sky News reporter @jos_franks

Friday 24 February 2023 18:54 UK

CBN NEWS

BUSINESS ENTERTAINMENT LIFE SPORTS OVERSEAS SPOTLIGHT WEA

Bird flu cases rise to i in Japan

Kyodo News

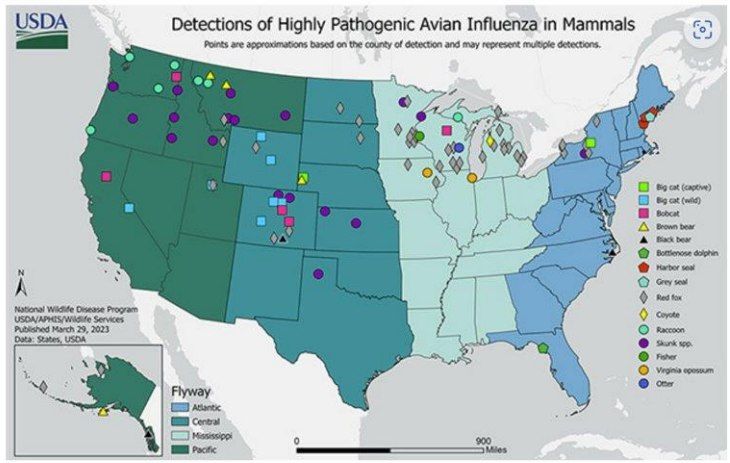
Posted at Jan 03 2023 02:47 PM

TOKYO — Bird flu cases in Japan hit a record high after new inf Fukuoka prefectures, the farm ministry said Tuesday.

As of Tuesday, a total of 54 cases of avian flu were confirmed season, according to the Ministry of Agriculture, Forestry and

At a poultry farm in Chiba Prefecture, eastern Japan, near Toky

USDA



On March 29, the U.S. Department of Agriculture (USDA) first published its data on cases of highly pathogenic avian influenza infections in mammals from 2022 to late March 2023. (Courtesy of USDA)

How **Avian Influenza became endemic in Europe**

Traditional migratory route for wild birds from Siberia/North Pole and heading south across Northern Europe, contaminating open-air production farms.

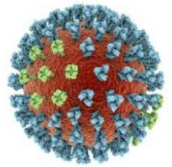
2020 – Climate change created a new route from South Africa, mixing with local European birds in cities like Angers – France and contaminating a 20km perimeter around them.

We must maintain efforts in biosecurity

A biosecurity sign is seen at the Powers Farm (US)

Nathan Howard/Getty Images

New technology vaccines opens new perspectives for modern H5 control and monitoring



Choice of vaccine must be tailored to the disease threa an a

Chicken & Turkeys

vectormune AI

For chickens and turkeys

Killed vaccines (old technology)

- matching of field and vaccine strains is a challenge esp. for H5 given the yearly emergence of new strains
- Not DIVA

RESPONS AI H5 Fast immunity RNA technology

Vector HVT vaccine (new technology)

Vectormune AI (H5)

For ducks, for geese and turkeys

vectormune AI

Duck, Geese & Turkeys (tbc)

Killed vaccines (old technology)

- matching of field and vaccine strains is a challenge esp. for H5 given the yearly emergence of new strains
- Not DIVA

RNA vaccine (New technology)

RESPONS AI H5 Fast immunity RNA technology

Vector HVT vaccine not efficient in Duck

- Wide H5Nx HPAIV clade protection and shedding reduction;
- Stop virus transmission (R0=0);
- One single application in the hatchery;
- 100-week duration of immunity (Tatar-Kis T. *et al.,* 2021);
- Stimulation of cell-mediated immunity, besides humoral immunity (Rauw F. *et al.,* 2015 & 2016, Ingrao F. *et al.,* 2018);
- DIVA compatible.

THANK YOU FOR YOUR ATTENTION

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