Jon Moyle introduced Dan Bautista, DVM, previously the Director of the University of Delaware’s Lasher Lab. Dr. Bautista, now working with Zoetis (a sister company of Pfizer), continues his career of supporting industry, growers, and students through diagnostics.

So much information covered in this talk – please take advantage of the following:

Link to watch the recorded Zoom:

https://umd.zoom.us/rec/share/U5dQMOKJIUfNIUGfFXLCrQ7NsEPc8bdumzm9SHykiXgLiQAOebkfidPa8RauRJ1K. YLWerUvyMCpc09UT Passcode: 41sa.aUG

The following Notes gives you a taste of the first half of Dr. Bautista’s presentation.

Common Broiler Diseases and Case Scenarios

2020 DPI National Mtg on Poultry Health And Processing, Ocean City, MD

Daniel Bautista DVM, MS
Senior Technical Services Veterinarian
Zoetis/ US poultry
daniel.bautista@zoetis.com
Dr. Bautista did a quick visual tour of common broiler disease/lesions.

**ILT/LT/Trach** (Laryngotracheitis) – Signs and Legions

* Blood-tinged, weeping eye, sudsy
* Almond or football shaped eye
* Wiping eye on the wing
* Bloody mucus
* Gasping/squealing - wind pipe ‘tracheitis’
* Solid, cheesy tracheal exudates
* Herpes viral infection

If they are showing signs, means 1-2 weeks infected already. Incubation period, time of infection to time they are showing signs. If you are seeing signs or deaths, they have been shedding the virus for a while.

There are two LT vaccines, a water with the live virus given at 2 weeks of age – birds drink within an hour. Most of the other companies are on the egg vaccination – or in ova or in the egg vaccination. **Biosecurity** is still vitally important.

**Infectious Bronchitis: Respiratory Form** - Air sac condemnations

* 90% of what we deal with other than LT
* Pneumonia – lungs *should be* collapsible but with pneumonia, lungs are solid and don’t contain air
* Thoracic airsacculitis – cheesy legion, solid puss

Renal Form (NIBV) – Flushing Diarrhea

* Watery diarrhea
* Kidneys full of uric acid

Coryza was introduced to Delmarva over a year ago. The sinuses are blocked with cheesy legions and the birds have puffy sinuses.
Dr. Bautista suggests staying away from backyard flocks if you are a commercial grower – you may be exposed to a lot of infectious diseases.

Next Dr. Bautista talks about ‘navels’ and how they are the gateway to bacteria. If the navel is open, it will be prone to infection from hatch to infection from hatch to early growth if they are stressed. Mostly *E. coli*. Get used to looking for unhealed, inflamed or infected navels.

Sanitation from the hatchery all the way to the grower – watch for molds

**Early Clostridia Infection** - unhealed navels; dirty eggs; green spots in the liver, retained yolks; cheesy peritonitis

**Bacterial Chondronecrosis and Osteomyelitis** - you are the vanguard as growers, after 7 days, cull birds that are dragging their feet, cheesy legions inside caused by bacterial infection. You don’t want growing 5 weeks, dying, and affecting your feed conversion.

**Chick Quality Issues: Critical Points**

**Breeder Farm:**
- Initial egg weight
- Egg sanitation
- Enteric health

**Hatchery:**
- Egg storage time – egg age
- Exploding eggs during ‘In Ovo’ vaccination
- Tray washing and disinfection
- Malfunction of separators and conveyers
- Poor chick selection

**Broiler Farm:**
- Rough handling during transportation and placement – stress to chicks
- Brooding conditions - temperature, litters and air quality, water flow, etc.

**Leg Problems**
- Fast growing birds need required nutrition
- Rickets – not enough calcium – they may not be eating enough
- TD – Tibial Dyschondroplasia
- Femoral Head Necrosis
- Cellulitis/IP
- REOviral Arthritis and Tenosynovitis – fat, broad legs, lame – dark warm environments, immune suppressed
- Gumboro Disease
- Ruptured tendon (Reovirus/rough handling/big heavy birds), sometimes they grow too fast, tendon snaps
- Kinky Back – legs stretched, out sitting on tails – spinal abscess, bacterial disease in the spine, paralysis
Coccidiosis
Costs $3 billion/year worldwide – very common, even on Delmarva, well controlled by medications that have to be rotated so we don’t overuse them. Must have a rest period (rotation).
Red balloon guts, jelly-like droppings
Coccidia is the parasite infection. Microscopically they look like little deviled eggs. Intestinal villi.

Nonspecific Enteritis (no cocci/NE)
Runny gut – feed related
Feed interruptions or litter eating due to prolonged dark periods
Biogenic amines (ie. Rancid oils, MBM)
Nutrient inhibitors in some soybean meal batches
Some components of ‘all-veg’ diets

“Derm” Gangrenous Dermatitis
Look for red and weepy skin, sudsy jelly-like, froth (examples in his presentation)
If your floors are always wet, you’ll have a challenge
Maintain litter quality

Heat Stroke
Red, but not Derm. If you have a house that is too stuffy, they don’t sweat, so they don’t handle heat
Eliminate dead spots in houses. Birds emit a lot of heat, there is opportunity for them to be overheated

Inclusion Body Hepatitis
IBH liver lesion and IBH jaundice (yellowish liver)
Can be set into floors – have a good program to

Marek’s Leukosis (tumors)
Tumors, vaccine failure.

Spotty Liver Disease (Campylobacter hepaticus) in commercial chickens with outdoor access. Something new.

Thank you Dr. Bautista for your excellent presentation!

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SET YOUR CALENDAR: No December 16 Grower Lunch Break. We will announce the collaboration with Delaware Ag Week in late January. Pick up with Wednesday discussions February 3, 2021!