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Investigative approach to *Mycoplasma hyopneumoniae* Seroconversion

Bob Blomme, DVM, Dip Vat Manager
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Sh*t happens, and so “How the Hell are we going to explain this, Jer?”

Livestock Services Inc., Great Bend, KS
2 distinct flows:

- a) Cambalot Gilt Multiplication
-sourced out of Indiana
- b) Cypress Terminal Production
-sourced out of Arkansas

June 2011

Both flows on a Boehringer Ingelheim Circoflex at weaning program.

- a) Cambalot done at the sow farm in Indiana
- b) Cypress done at the nurseries in Kansas

Diagnostics done in July 2011

- Cambalot barrows were sacrificed in an attempt to isolate *Mycoplasma hyosynoviae*.
- Clinically lameness was issue in the Cambalots and previous joint taps were PCR (+)
- Project in conjunction with Pfizer
- Incidental finding was that 22 week-old barrows were PCV-2 viremic.

August 2011

- Decision was made to switch Cambalot flow to a 2-dose Intervet PCV-2 vaccination program.
- Concern was PCV-2 viremia in gilt sales.
- Cypress was left on the BI Circoflex regimen.
- Intervet PCV-2 vaccine shipped to William’s (Cypress) nursery on August 23rd.
- 26 bottles × 250 doses (6500 doses).
- Manager realizes this is not his product.

- Owner realizes the shipping mistake, picks up the product, and takes to the Toews’ nursery (Cambalot).

October 2011

- Toews administers Intervet PCV-2 vaccine approximately 3 weeks post arrival.
- October 4th administration starts.

UMN diagnostics

- Serology for Penner finisher site received Thursday, October 27th
- Friday, October 28th results had 1/15 positive and 4/15 suspects on Mhp IDEXX (ELISA).
- Called UMN, LSI and PIC Transport at 5:30 PM Friday night and put the load for Monday, October 31st on hold.

Now we’ve got a problem

- Monday October 31st, 3/5 samples in question were DAKO (+). Jer is tense.
- Age of these pigs was only 10 weeks
- Unfortunately, pigs were not tagged
- Caretaker for Penner site serves another site and is integral in gilt selection.
- Bleed 54 pigs from the 2 implicated pens on Wednesday, November 2nd.

UMN diagnostics for November 3rd

- 12/54 Mhp IDEXX (ELISA) (+)
- 9/54 Mhp IDEXX (ELISA) Suspect
- 33/54 Mhp IDEXX (ELISA) (-)

Friday, November 4th

- Jer Geiger asks me if Mhp vaccine could have been administered per conversation with Jim Collins.

Bob Blomme

- Initial reaction by Blomme and LSI was skeptical.
- Asked Toews to check his refrigerator and partial was there
- Shipping records from distributor confirmed PCV-M had been shipped to Williams nursery (which is part of the Cypress flow).

Subsequent testing has confirmed it is a pretty good product

- When used in the right situation.
- Follow-up testing involved looking at antibody decay, sacrificing 6 animals and clinical signs.
- 30 animals and 6 culls tested.
- All indications are consistent with vaccine administration.

Murphy's Law

- Had Williams used product, we never would have known due to terminal pigs.
- Nobody checked the label on the product delivered, transferred or administered.
- No written record of product requested.
- Mycoplasma vaccine should have triggered a response in my office.
- If you bleed it, tag it.

Fortuitous protocol aberrations**(Screw-ups that worked out alright)**

- Age of pig's tested were young at 10 weeks.
- Testing on October 6th and 27th to establish a site status following previous closeout.
- Stopped the truck when I should have made one more call. I put Jer in a bad spot the following Monday.

Lessons learned

- Jer is always the first call
- Orders are no longer verbally given
- Review biosecurity protocols

