Veterinary Vaccine Potency Workshop: Swine Perspective

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Topics

• Introduction
  – 1999-2011: University of Minnesota
  – 2011-present: Pipestone

• Pipestone Holdings
  – Pipestone System
    • 200,000 sows
    • 4th largest swine production system in US
  – Pipestone Veterinary Services
    • 3 clinics
    • ~30 vets
    • 3 PhD, 1 MS, 2 Board-certified
  – Pipestone International
    • China initiative
Pipestone Applied Research

• **Applied animal health focus**
  – $3M annual budget
  – 1.5 M sows (20% industry) research collaboration

• **4 research facilities**
  – Representative settings and populations
    • 2400 head WTF commercial facilities
  – Project protocols
    • Treatment & control groups
    • Challenge
    • Animal Care and Use Oversight
    • 3rd part data integrity review and statistical analysis

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My Perspective Regarding Vaccine Potency

• 1. What are the reasons for the proposed change?
  – Efficacy?
    • Pipestone has developed a robust means of measuring efficacy, as well as safety.
    • If there were issues, we would detect them.

• 2. Are changes necessary?
  – No.
  – Based on our metrics, current products are safe and efficacious.
  – We observe no issues in our trials and in the field.
My Perspective Regarding Vaccine Potency, cont.

2. Would change raise concerns?
   - Yes.
     - **Cost**
       - Extra antigen = increased cost/dose.
         » Cost of failed serials?
     - **Availability**
       - Production efficiency issues (bottlenecks)
         » Feasibility of success?
         » Frequency of failed serials?
         » What is the risk of increased backorders?
     - **Safety**
       - Increased risk of hypersensitivity.
         » Increased dose volume?
         » Increased number of injections?
     - **Antigen interference**
       - Compatibility issues
         » Separate dosing/multiple injections?
     - **Promotes bad behavior**
       - Increased partial dosing.
         » Another excuse to “cut dose”.

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Final thoughts..

• More is not always better.

• In fact, sometimes, less is more.

• Please consider this.