Veterinary Services

Swine Enteric Coronavirus Diseases (SECD) International Meeting

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SECD Int’l Mtg

• Objectives –
  – Review the global situation, pathways, and risks of SECD

• Co-hosted by:
  – USDA-APHIS-Veterinary Services
  – American Association of Swine Veterinarians
  – National Pork Board
  – National Pork Producers Council

• 23-25 September 2014

• Chicago, IL
  – Hyatt Regency O’Hare
Attendees

• 27 countries and regions represented
  – Asia, North America, South America, Europe, Oceania
  – Simultaneous translation for Spanish and Mandarin Chinese
  – Government and Swine Industry

• 150 participants – representing
  – International / US animal health agencies and organizations
    • Specialists in epidemiology, risk assessment, virology, emerging disease
  – Swine industry
  – Universities
  – Diagnostic laboratories
  – Veterinary practices
  – Allied industries
    • Veterinary Biologics firms
    • Feed Industry
Program

• General Sessions – 23 speakers
  – Country / Region Reports by ‘continent / global panel’
    • Asia, N. America, S. America, Europe, Eur/Oceania, Int’l AH Orgs

• Concurrent Sessions - 22 speakers
  – Risks, Pathways, Prevention
  – Impacts, Response, Control (included Strain Variation)

• Small Discussion Groups (with pre-set questions)
  – Risks / Pathways
  – Prevention
  – Strain Variation / Impacts
  – Response / Control

• Rapporteur Briefings
Content

• **General Sessions – Open sharing**
  – Locations, Production types, Animal ages, Clinical presentations, Virus sequences, Vaccination practices

• **Concurrent Sessions – Expert, current information**
  – Risk Assessments – methods and data
  – Root cause, Feed, Spray-dried plasma investigations
  – Impacts summaries, Sequence analysis
  – Transmission, Biosecurity, Vaccines, Control methods

• **Small Discussion Groups – Robust discussion**
Results

- **General Sessions**
  - Countries that have experienced SECD – Europe, Classical strain
    - Virus still circulating
    - Low levels of clinical disease, Low economic impact
  - Countries that have experienced SECD – Asia, Americas, recent strains
    - Greater virulence and transmissibility, Significant economic impact
    - Response actions including reporting, vaccination
  - Countries that have not experienced SECD
    - Risk assessments
    - Import policies
  - All countries emphasized
    - Government-Industry collaboration
    - Infection and pathogenesis studies needed
  - International animal health organizations
    - Watchful and can assist with communication and tools
Results (cont.)

• Concurrent Sessions and Discussion Groups
  – Common link suspected
    • Entry into many countries at same time, multiple viruses entered US in short time
    • A working group may be needed to follow up on entry/pathway questions
  – Better assays needed
    • E.g., bioassays or other tests for feed; environmental sample testing
  – More basic research on CoV needed
    • E.g., virulence, immunity; feedback better than nothing but carries risks
  – Potential swine CoV recombination & low-virulence strain observed
    • Infection and pathogenesis studies needed
  – Emerging disease an issue in US and globally
    • Group needed to monitor emerging disease issues – “Tripwire” needed
    • Products for decision-makers can be shareable
Conclusions

• Collaboration is key
  – Government – Industry cooperation
  – Int’l information-sharing, networks, research needed on (e.g.,):
    • Risk assessments
    • Diagnostic methods
    • Disease findings
    • Virus sequences
  – “Share what you know”
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  – Veterinary Services
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• Coordinators, Moderators, Recorders, Reporters, Funders, Translators, Participants, Etc.
For more information visit the meeting website at:

Or email me at: Randall.L.Levings@aphis.usda.gov for a link!
Questions?