



▶ 結論

Conclusions

Empowering Technology for Pork Industry-Malaysia & Taiwan

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The value of diagnostics and Interpretation

What our diagnostic laboratory does

- Accurately determine if disease is present
- Accurately determine which disease is present
- Usually involves laboratory tests
 Observation of tissue changes (lesions)
 Laboratory testing, test interpretation, and report results
- Characteristics of good laboratory tests
 Accurate: specific and sensitive, but never "perfect"
 Rapid, timely results
 Economical
- Continuous improvement Test accuracy Test methods
 Sample types Testing strategies
 Application of results









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The value a diagnostic laboratory system starts with ACCURATE, TIMELY, and USEFUL diagnosis at the Farm-Individual Pig Level

Cooperation / Communication / Team approach producer veterinarian laboratory WHAT IS THE DIAGNOSTIC QUESTION?

Is there **EVIDENCE** for:

-Infection?

-Disease?

-Presence of specific pathogens?

-Individual animal impact?

-Herd impact?

Issue / Complaint:

-Efficacy of Interventions?

DIAGNOSTIC PROCESS **Collect Information Diagnostic testing** Think, Analyze, Research DIAGNOSTIC ACCURACY Does it "make sense"? **Treatment, Control Identify Opportunities Continuous Improvement** DIAGNOSTIC PROCESS

<u>History and Records</u> <u>Clinical Observations</u>: LOOK AT THE PIGS <u>Necropsy</u> and Gross Lesions Differential Diagnosis --> "What is wrong?"

Laboratory Testing: Tests, Results, Objective Interpretations What is your diagnostic question? What decision(s) will be impacted by the results? Which test(s) are needed? Which specimens should be collected? How many animals should be sampled? Histopathologic Lesions: Compatible or Not compatible

Diagnosis: What is found Interpretation and Conclusions: Prioritize

Intervention: What actions are taken?

<u>Assessment</u> of outcome/monitoring strategy: Did it work? How do you know? Think, Analyze, Research

Collect Information

DIAGNOSTIC ACCURACY Does it "make sense"?

Treatment, Control Identify Opportunity Continuous Improvement













- Some are tried and true
- Some are practical while others are not
- Some are very costly
 - Some are inexpensive
- Some significantly reduce risk
 - Some do not work





How to develop a biosecurity plan of pig farm **Consideratons** Workers'moving flow Avoid Pigs'moving flow over **Equipment installation** requiring Sanitation flow **Priority of** considering factor Easy to carry out 23 Empowering Technology for Pork Industry-Malaysia & Taiwan 3 C 🛠 🏤 🎵 AHRI Establish a biosecurity netwok ashing first

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