







Veterinary pathologists

- Sole veterinary medical specialist trained to bridge the gap between cellular changes and clinical disease
- Provide gross, microscopic, ultra structural and molecular analysis of tissue changes resulting from disease state, and thus are the keystone of biomedical research and animal medicine

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Veterinary pathologists

 Pathologists provide essential macroscopic, microscopic, ultrastructure and molecular studies necessary to develop animal models of human disease; provide expert diagnostic pathology support; and lead or support animal studies with predictive value for human conditions

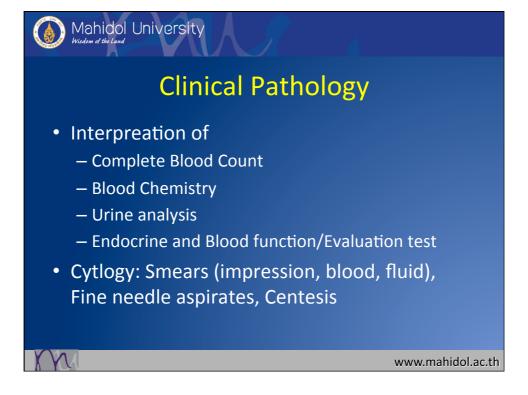


















Veterinary Pathologist

- Member of research team
- Help Develop protocol from the ground up
- Advises animal model and process
- Selects appropritate tissues, histo stains and preservation technique
- Analyzes and interprets ("path data") observations

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Research support

- Consultation with a veterinary pathologist at the conception of a protocol
- Animal model selection
- Tissue/Lesion sampling (training)
- Proper tissue preservation
- Ancillary diagnostic and imaging techniques



Contact

- FIRST: Study/Protocol development stage
 - Development
 - Time Line
 - End of Study
 - Days before report is due
- Animal selection
- Unscheduled deaths
- Study timeline changes

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Research Support

- Diagnostic pathology for unscheduled deaths of any animal
- Semi-quantitative and quantitative pathology data
- Customizable pathology report
- Publication-quality images
- Formulation of data, material, and methods for publication



QA/QS

- Monitoring of laboratory animals and their environment for infectious and noninfectious factors that can interfere with research and testing
- Quality Assurance
 - Approved Vendors (no quarantine needed)
 - Unapproved sources (quarantine required)
- Quality Surveillance
 - Quarterly/ annually

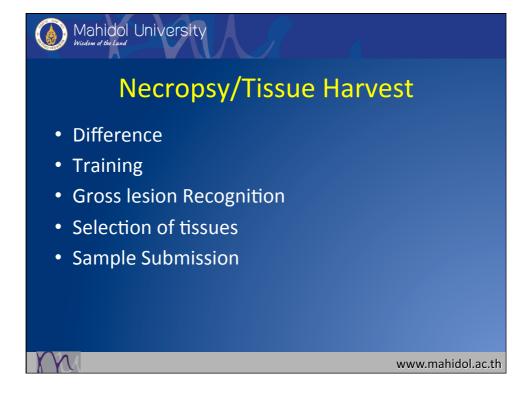
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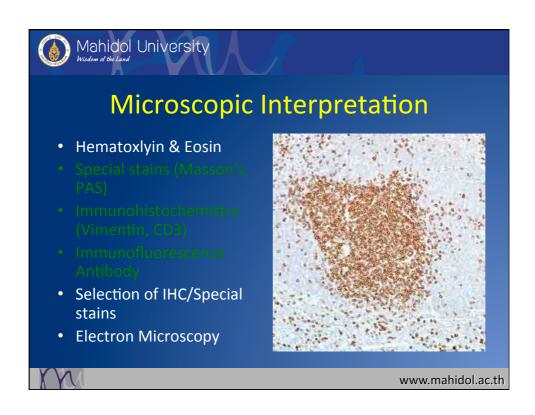


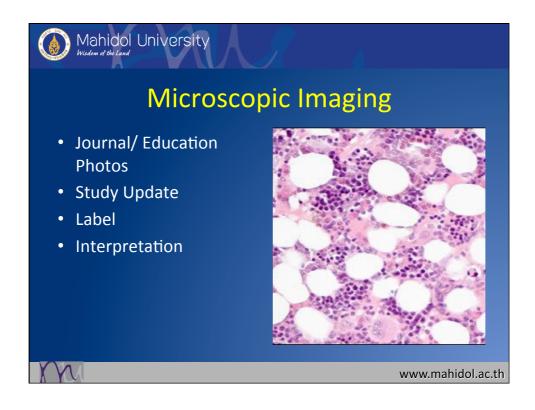
Sentinels

- Certain populations cannot be directly sampled, due to study or housing limitations, and require a sentinel monitoring program.
- Sentinels are animals housed in direct or indirect association with the population of animals to be surveyed.
- After sufficient association to allow transmission of infectious agents and presumed development of the disease or serologic titers, the sentinel animals are screened to detect the agents in question







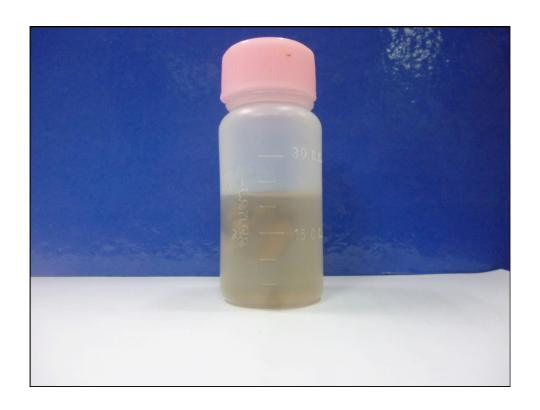




Mahidol University Wisdom of the Land			
STUDY PERSONNEL AND QULAIFICATIONS			
Name	Education	Procedures Performed	Training
Dr. First Last	PhD	Necropsy	Self Trained
		Histo path Slide Reading	Self Trained
		Sample Submission	Self Trained
Ms. Jane Doe	MS	Necropsy	Trained by Dr. Last
V		Slide Reading	Trained by Dr. Last
YY			www.mahidol.ac.th

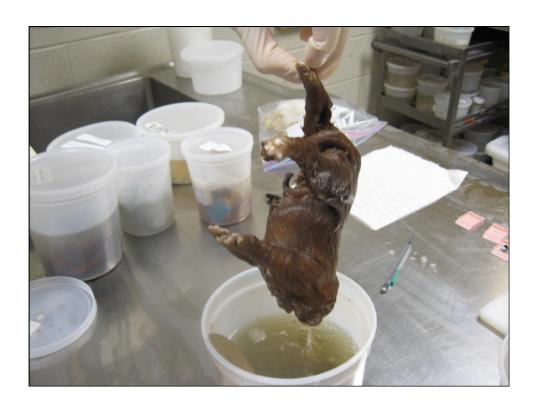
















Histopath Samples Submission

- Tissue samples for hisopath evaluation, placed in 10% neutral buffered formalin
- Not more than 0.5 cm thick
- 10:1 Formalin to Tissue ratio
- Labels
- Sample selection
 - 1) Lesion
 - 2) Healthy Tissue & lesion
 - 3) Samples are relative to animal size





