

## Skills Development for Disease Monitoring in the GLTFCA

8<sup>th</sup> AHEAD-GLTFCA Working Group Meeting  
5-7<sup>th</sup> March, 2008  
White River, South Africa

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Pretoria



### Veterinary Subcommittee meeting

Malilangwe, Zimbabwe: 22/11/07



### Workshop on training

National Zoological Gardens (NZG),  
Pretoria: 6/2/07

### Disease Monitoring in the GLTFCA

- Individual deaths
- Mortality clusters/outbreaks
- Disease investigations
  - Epidemiologists
  - Pathologists
  - Laboratories
    - Bacteriology
    - Virology
    - Toxicology
    - Parasitology...

- Field staff
  - Collect information about the case: external appearance, predators, age, sex, condition, GPS, circumstances (weather etc), blood smears
    - Wildlife College...
      - Drs Bengis, Nazare and Foggin
      - Dr Bengis' CD
        - » Location, language, frequency, data sheet format
        - » resources needed (GPS, consumables etc)
        - » Storage of data, blood smears (?)

- Vets/Wildlife managers

- Wildlife Disease short training course: good quality diagnostic sample and data collection and understanding of the human-domestic animal-wildlife health interface issues
  - Applicable to other wildlife management areas
  - 1 week practical course
    - Faculty of Veterinary Science, UP
    - Location to be determined
    - Accreditation for CPD
      - » Financial support for course and participants

- Course content

- Disease categories
- Epidemiology
- Sample collection
- Key diseases/conditions
- Principles of disease management
- Health and safety
- Legal/regulatory aspects
- Aquatic animal diseases (basics)
- Specialist referral list

- CPD for Pathologists

- Review wild animal pathology with an emphasis on relevant diseases, necropsy technique and sampling
- Develop a network of wildlife pathologists
  - 10-14 days
  - 1-2 students from Mozambique, Zimbabwe/year
  - NZG and Faculty of Veterinary Science, Pretoria
    - Biobanking, Genetics, Animal databases, Enrichment
      - » Resources for course development
      - » Resources for travel, S&T
      - » Reference material for pathologists

- Disease monitoring: incidence, spatial and temporal patterns of disease in wildlife, domestic animals and humans in the GLTFCA

- Serological

- Pathological

- Opportunistic wildlife and domestic animal sampling
  - Formalin fixed tissues, frozen tissues, blood smears, ticks and faeces
    - » Necropsy/sampling materials
    - » Sample and data storage/database
    - » Processing costs
- Pilot studies of wildlife, livestock and humans at interface
  - » Human capacity

- Specialised diagnostics

- Virology
- Bacteriology
- Parasitology
- Toxicology
- Genetics
- Molecular diagnostics
- Serology

