

Faculty of Veterinary Science

Fakulteit Veeartsenykunde Lefapha la Disaense tša Bongakadiruiwa



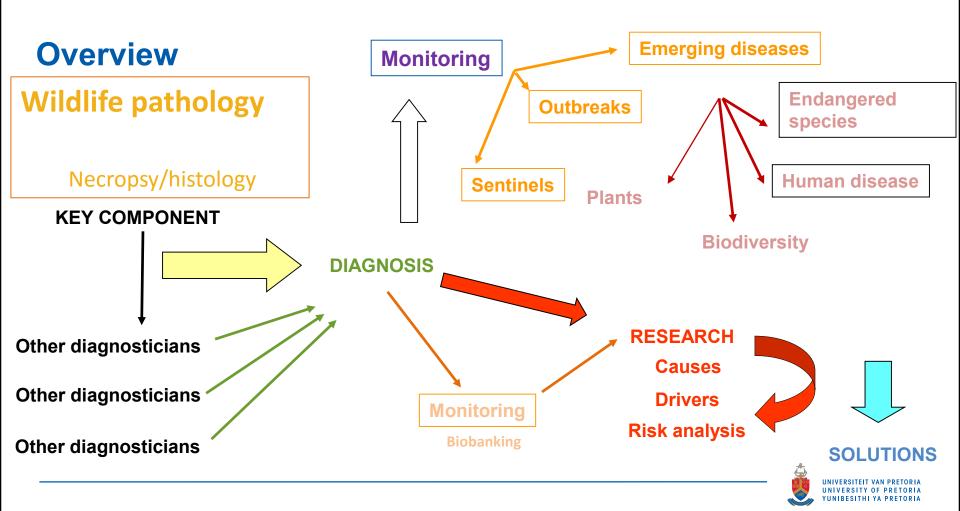
The role of pathology in One Health

18th November 2021 World One Health Day Symposium

Make today matter







Ebola: Rouquet et al, 2005

GA Wobeser, 2006

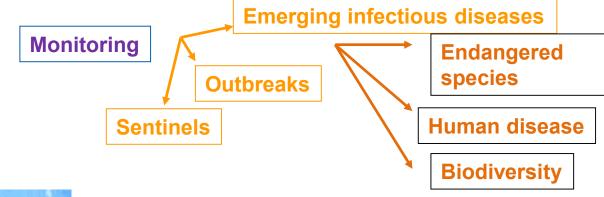
C Bichet et al, 2013

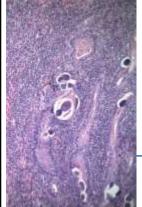
Role of pathology



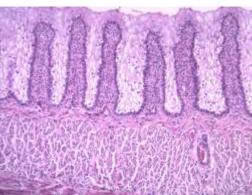
Necropsy/histology

KEY COMPONENT









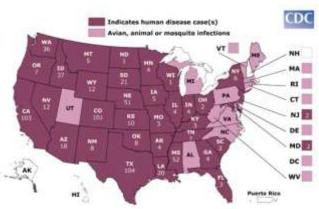


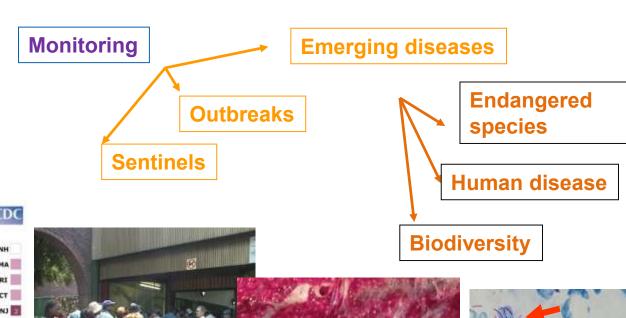
Team work

Wildlife pathology

Necropsy/histology

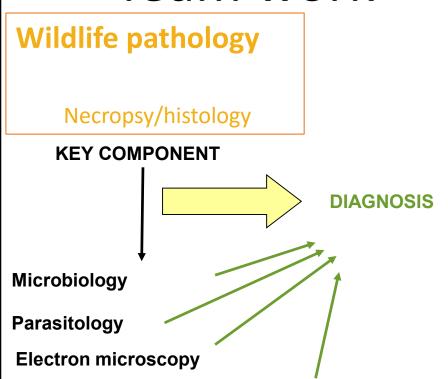
KEY COMPONENT

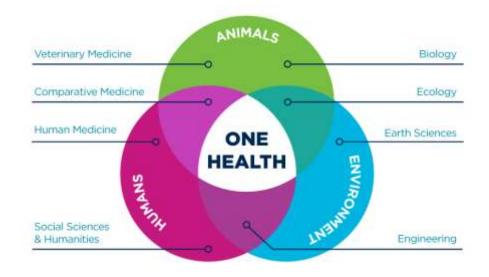






Team work

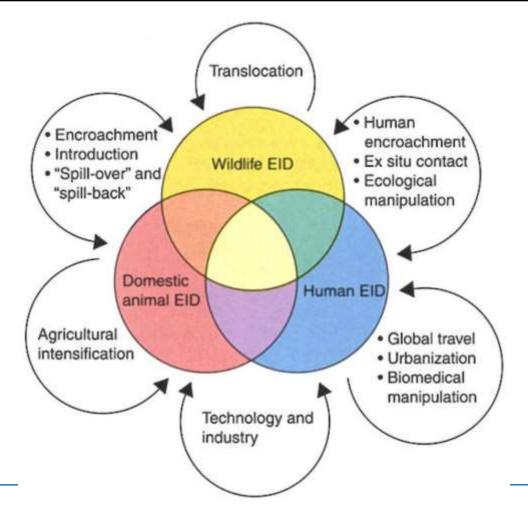




TEAM WORK

Toxicologists, nutritionists, geneticists







Role of pathology

Wildlife pathology

- **KEY COMPONENT**
- Necropsy/histology **Monitoring**

PMDate

07-Jan-08 Acute heart failure with hepatic lipidosis 14-Feb-08 Nasal deep dermatitis

26-Apr-07 Bite wounds

14-Nov-08 Bite wounds 11-Mar-09 Septicaemia

10-May-07 Severe blunt trauma

29-Apr-03 Myocarditis, myositis

26-Jan-06 Acute heart failure, myocarditis

26-Jan-06 Myocarditis, skeletal muscle myositis

03-Feb-06 Bacterial enterocolitis, myocarditis 13-Feb-06 Klebsiella enteritis, septicaemia

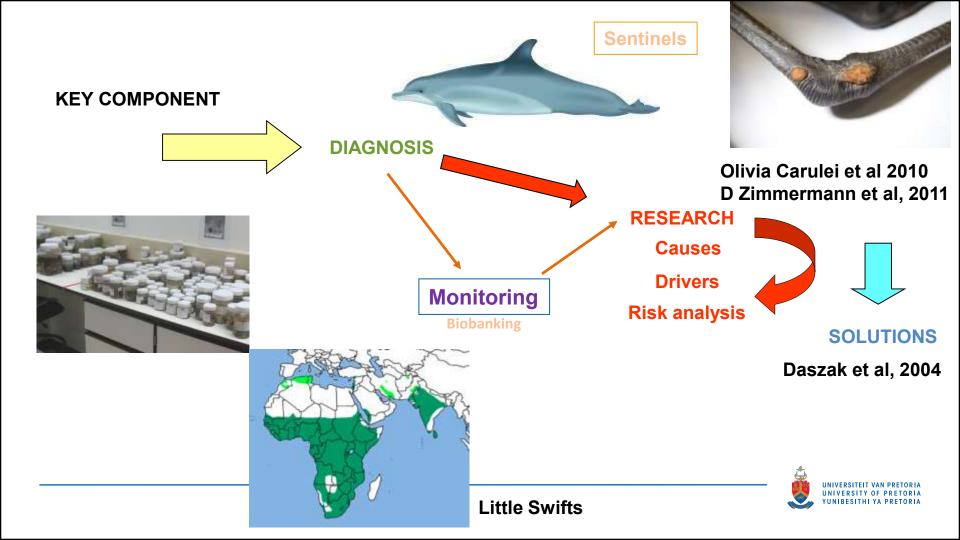
30-Dec-03 Necrohaemorrhagic enteritis, C. perfringens

- 05-Dec-08 Complications of bite wounds 07-Apr-09 Overeating
- 07-Apr-09 Fractured left femur with concurrent right osteosarcoma
- 09-Jun-09 Enteritis
- 07-Jul-09 Starvation 09-May-12 Suspected acute heart failure
- 29-Mar-13 Broken leg
- 08-Jul-13 Iron storage disease
- 24-Aug-15 Encephalitis
- 05-Oct-15 Possible Mycoplasma infection

- 30-Mar-16 Encephalomyocarditis virus infection
- 13-May-16 Anesthetic death while suffering from leishmaniosis 02-Dec-09 Acute interstitial pneumonia

Final

26-Jan-06 Suspected Clostridial enterotoxaemia; chronic myocarditis



Wildlife disease surveillance programmes

- Reduce costs and risks of disease in wildlife
- International obligations to report disease in wildlife

"Surveillance for wild animal pathogens is the single most important component of a national wildlife health programme"

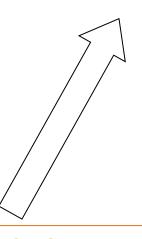
OIE, 2010



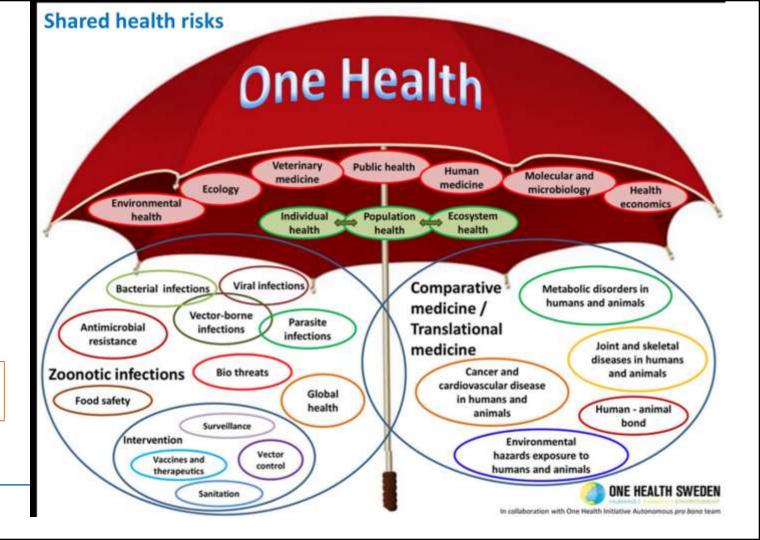




DIAGNOSIS



Pathologist



Pathologists and One Health

- Teamwork to make the diagnosis
- Participate in disease monitoring
- Store disease data for research
- Store samples for research



Thank You

