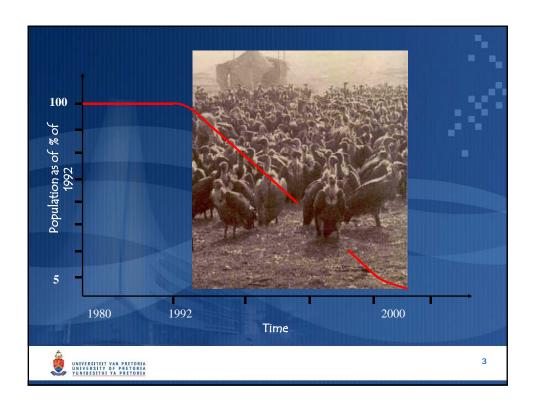


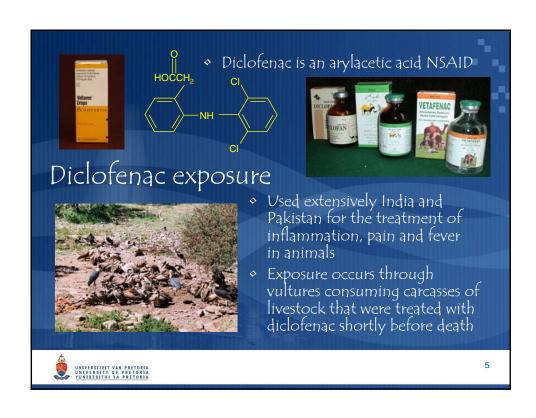
Introduction

- Drug residues are a potential hazard to animals feeding on animal carcasses or products
- Potential environmental hazard to predators and scavengers
- Different from environmental pollution and bioaccumulation of toxins (DDT)
- Acute toxicity (ARfD) e.g. pentobarbitone in lions
- Chronic toxic effects of diclofenac in vultures came as a surprise

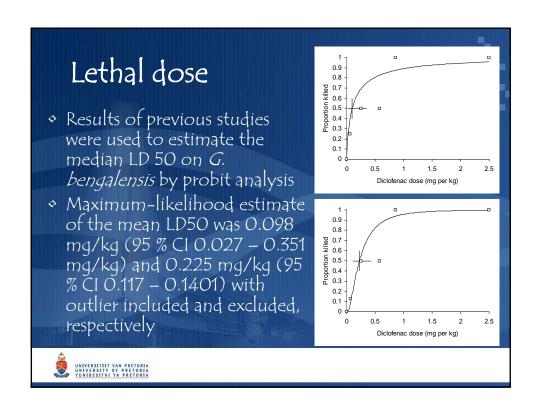








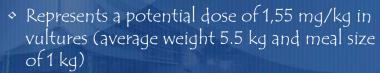








- Tissue residues in 16 calves dosed with 14C-labelled meloxicam at
 0.7 mg/kg for 5d
- Liver concentration of meloxicam residues
 8.54 ppm (muscle 0.53 ppm)





Pharmacovigilance

- Wildlife species can not be simulated
 - Rely on information from the field
 - Requires reporting of toxicity by farmers, vets, etc
- Rely on other scientific studies
 - Publications
 - Results from similar species



Conclusion

- Drug residues poses a risk to predators and scavengers as well as animal feeding on animal products
- Veterinary medicine residues that could potentially pose a hazard
 - Drugs that can cause acute toxicity or adverse reactions on single dose
 - Species susceptibility to drugs
 - Antimicrobial drugs

