



National Institute for Communicable Diseases



Public Health Diseases

- Surveillance
- Outbreak response
- Laboratory diagnosis
- Research
- Training

National Reference Centres at NICD

- Rabies
- Avian influenza
- Viral Haemorrhagic Fevers
- Anthrax
- Plague
- Salmonella

Viral Haemorrhagic Fevers



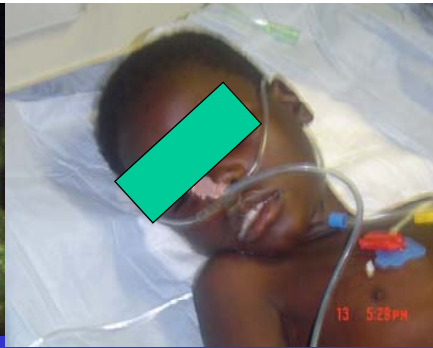
Avian influenza H5N2 in the Eastern Cape 2004



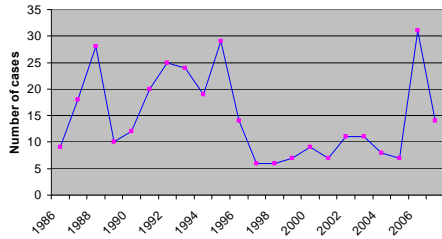
Clinical and serological screening on human contacts

- No severe human disease

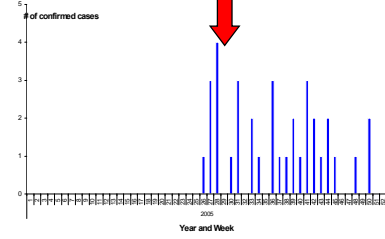
HUMAN RABIES



Laboratory confirmed human rabies cases for South Africa, 1986-2007



Laboratory-confirmed Canine Rabies cases Vhembe District, Limpopo 2005



RIFT VALLEY FEVER MPUMALANGA 2008



RVF Kenya 2007

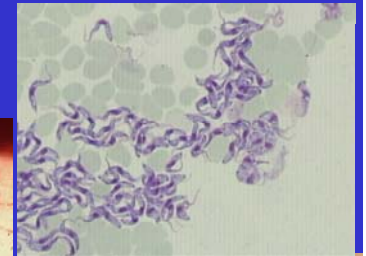
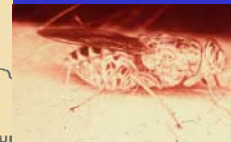


FEB 29 2008
Anthrax alert
Nat. Dept of Agriculture
Anthrax confirmed in livestock in Lesotho.....



East African Trypanosomiasis

Kasungu National Park



RATZOOMAN Project

(Special Bacterial Pathogens Unit, NICD)

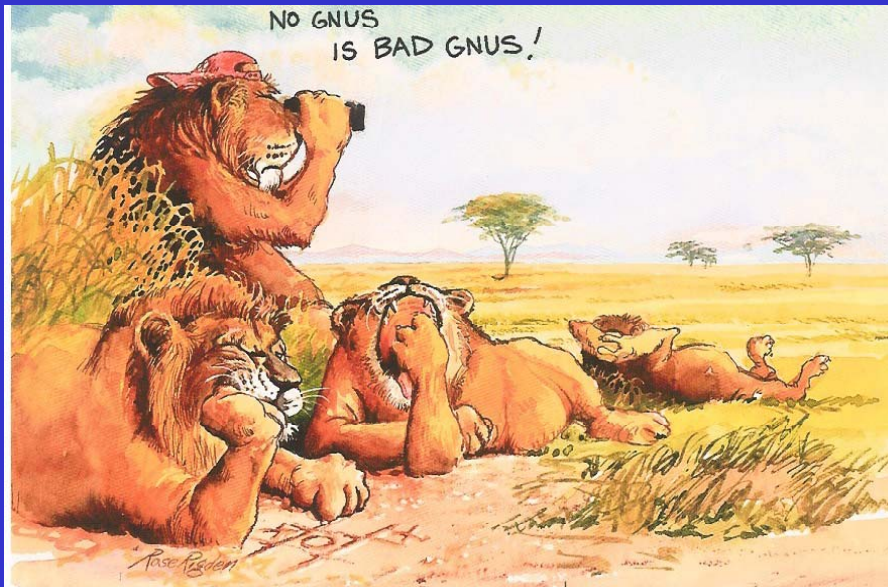
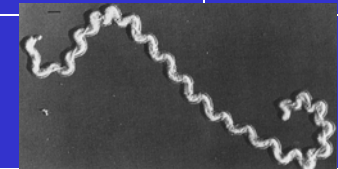
(Frean, Arntzen 2007)

- * Looked at incidence of 3 zoonotic diseases.
 - Plague
 - Leptospirosis
 - Toxoplasmosis
- * Tested - human, rodent and small mammals



Leptospirosis positive serology rate (%)

	Rodents	Humans	Dogs
Durban	22/223 (9.9)	43/217 (19.8)	
Mapate	37/202 (18.3)		33/34 (97)
Port Elizabeth	272/1200 (22.7)		



- **Brucellosis:** 30 human cases notified 1996-2004
- **Tuberculosis:** no data on BTB in humans
- **HIV and zoonosis ???**
- **Surveillance for emerging infectious diseases with resettlement, environment change**
- **Human health reactive to sentinel animal events**

