OIE Focal Points on Veterinary Products

Johannesburg, South Africa, 23-26th November 2010



"Sharing Knowledge" "Safeguarding Livestock" "Improving Livelihoods"

Blue-prints/ Road Maps Realities

Veterinary medicinal products and vaccines: indispensable tools for any effective animal health policy (editorial www.oie.int published in March 2008)

Blue-prints/ Road Maps

• Standards on diagnostic assays and production of high quality veterinary vaccines, published in the OIE *Terrestrial Manual* and *Aquatic Manual*

•National or Regional Registration of veterinary medicinal products

• The role of private veterinarians and veterinary paraprofessionals in the provision of animal health services

EAST COAST FEVER control

East Coast fever (ECF) is a tick-borne disease (TBD) affecting cattle, caused by the protozoan parasite *Theileria parva*, and transmitted by the brown ear tick, *Rhipicephalus appendiculatus*

ECF mortality can reach 100% in improved breeds and 60% or higher in Zebu or Sanga animals. EAC -/ SADC / Sudan / (Ethiopia at risk)

In Tanzania (18.7 million cattle), the estimated number of calves born in ECF risk areas is around 1 million calves annually

EAST COAST FEVER VACCINE

The current immunisation against ECF is based on Infection and Treatment Method (ITM) and comprises the inoculation of live *Theileria parva* sporozoites and simultaneous administration of oxytetracyclines LA

The Muguga cocktail (MC) is an effective and widely used stabilate derived from 3 seed stabilates, the Muguga, Serengeti-transformed and Kiambu 5 stocks.

In Tanzania the MC offers > 98% protection; major impact on food security and pastoral livelihoods





... the production of high quality veterinary vaccines ...
Currently ILRI, Nairobi, is the only Institute with
•capacity for commercial-scale production of bulk *T.parva* stabilates
•in-house capacity and diagnostic expertise for quality assurance procedures and quality control checks on the stabilates
•in-house capacity to determine that each newly produced batch is antigenically consistent with the seed stabilates

VETAGRO TANZANIA LTD

based in Arusha, Northern Tanzania

ECF vaccine Distributor

- MOU – 2003-2005

- National distributor 2006 onwards

ECF vaccine Delivery

- Investment Plan 2006 onwards

- Vet clinic –mobile units

Private Sector players: co-responsibility for Registration, Quality control



Ma	<u>rch-09</u>
Fina	al <i>Muguga Cocktail</i> registration dossier and technology transfer
doc	uments submitted to Tanzania Food and Drugs authority (TFDA)
	ILRI recognised as the Manufacturer
	Vetagro TZ Ltd mandated by ILRI as applicant
	AU-PANVAC endorsing GMP report of ILRI facilities
<u>Jan</u>	-2010: Tanzania Registration of MC approved
TZ-	Registration approved bcs of Departmental and political support as
	in-house capacity to test and evaluate the live ECF vaccine does not
	t, but most of the field evaluation trials of the current vaccine batches
	e carried out in Tanzania.





















Quality assurance

• Break-through; NONE

in Tanzania the Muguga cocktail offers >98% protection

- Breakdown; YES
 - Vaccine failure (efficacy)
 - Vaccine failure 1999 (Dead vaccine),
 - Diluent failure 2000 (transport logistics)
 - Vaccine delivery failure (efficiency)
 - · breakdown of vaccination protocol- coldchain
 - failure to adhere to immunisation protocol by individual veterinary professionals (-un-professional delivery)











