

East Africa Regional Rabies Meeting 7th -9th February 2017 Nairobi, Kenya

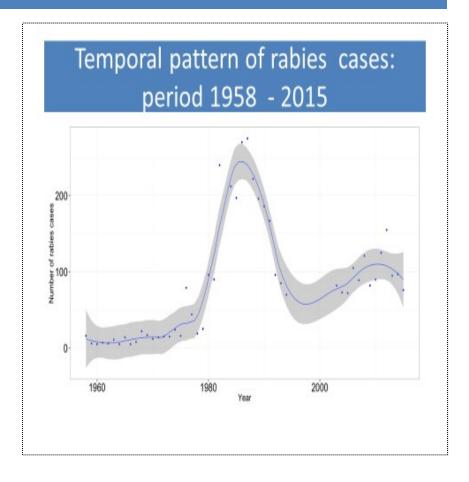
Kenya



- Human population 48M (2017)
- National average 1:8 dog: human ratio
- 42% less than 15 years

Rabies in Kenya

- Disease of antiquity; 1st case diagnosed 1912
 - Human case:1928
- Endemic to the country
- Virtually controlled but breakdown of efforts resulted in resurgence
- False perception of low burden



Strategy for rabies Elimination of Human rabies in Kenya





Strategic Plan for the Elimination of Human Rabies in Kenya 2014 - 2030

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Mass dog vaccination

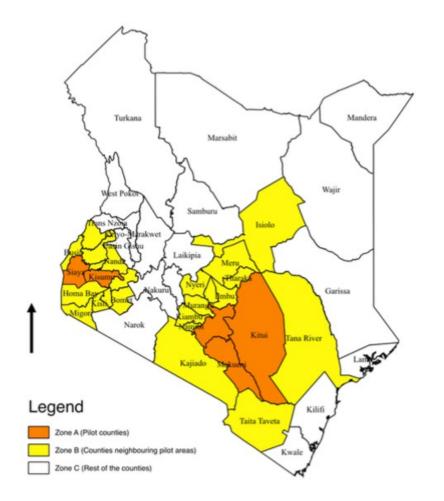
Provision of PEP to exposed persons

Public health education

Guiding principles of the strategy

- Rabies control is a public good
- Rabid domestic dogs: transmit 98% of human rabies
- More than 80% of dogs in Kenya are owned
- Mass dog vaccination is a cost-effective strategy
 - Rabies elimination
 - 70% of dog population, 3 consecutive years
- There is no documented evidence that wildlife maintain rabies virus

Pilot Counties



- Zone A: Western Kenya
 - Kisumu, Siaya, Makueni, Kitui Machakos

- Zone B: Eastern Kenya
 - Close proximity to pilot areas

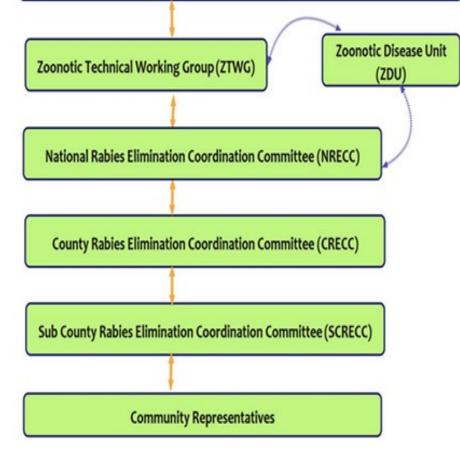
• Zone C: Rest of the country

Coordinating structure

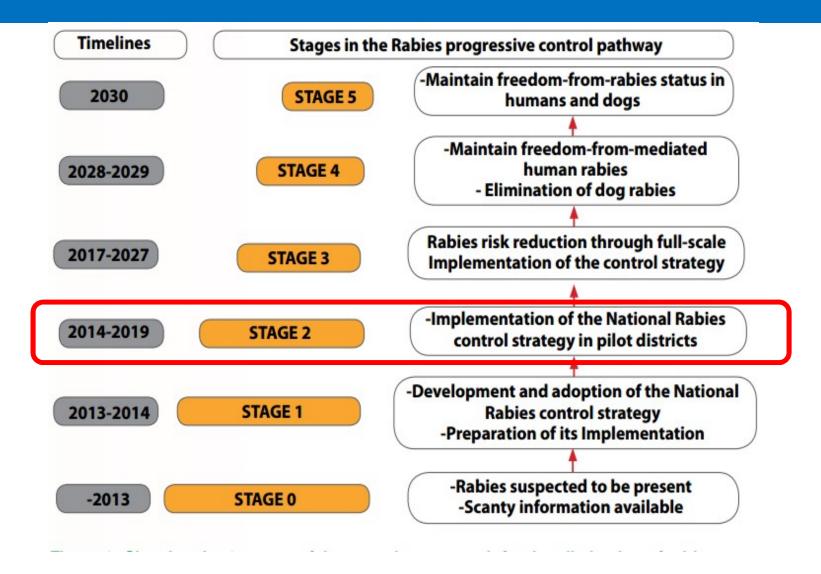




Ministry of Health (MOH) and Ministry of Agriculture, Livestock and Fisheries (MALF)



Implementation progress



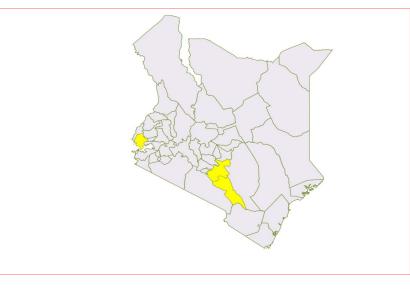
Rabies elimination Activities in 3 of the 5 pilot counties

Makueni : started in 2015

- Baseline surveys
- Four round mass dog vaccination
- Surveillance project
- Vaccination coverage 65%

Siaya: started in 2016

- One round Mass dog vaccination
- Coverage: 52%
- Human dog bite surveillance



Machakos :

• Baseline surveys-underway

Ongoing Activities

- Surveillance
 - Human
 - Active case search
 - Contact tracing
 - Strengthen reporting system

- Public Education
 - TV and Radio
 - Paper and electronic media
 - School health programs
- Case Management
 - Provision of PEP
 - Sensitization of clinicians

- Dog
 - Contact tracing

Lessons learnt

- Need proper planning involve all stakeholders
- Invest in public education
- Need to strengthen diagnostics
- Involving children through schools
- Need for well designed operational research:
 - Dog ecology studies
 - Post vaccination surveys
- Importance of human-dog bite surveillance
- Partner coordination
- Buy in by Counties to adopt and implement the strategy

Estimated Rabies Elimination Cost

Mass dog vaccination in Siaya Dogs vaccinated: 14,330 Cost per dog:	\$21,791 \$1.5
Estimated dog: human ratio Estimated dogs to be vaccinated Estimated cost for vaccinating this for 3 years	1:8 4.025 M dogs \$18.4 M
Cost of PEP DHIS2 dog bites per year PEP cost for (5 doses)for 1 case Total PEP cost for 3 years	70,000 \$100 \$21M
Enhance rabies Surveillance	\$48 M
Rabies Elimination <u>Direct cost</u> Rabies Elimination <u>Indirect cost</u>	\$44.2M \$11M
Total Rabies Elimination Cost	Ksh. 55,239,752
Internal resources (PEP cost+ indirect cost)	58% of Total cost
External resources (direct cost- PEP cost)	42% of total cost

Partners

























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