

Technical Brief - Overview -

Andre Coetzer

On behalf of the Global Alliance for Rabies Control

*PARACON-WHO Meeting, Johannesburg, South Africa
12-14 September 2018*



www.rabiesalliance.org

Context

Dog-transmitted rabies is a zoonotic disease that causes the completely preventable death of an estimated 59,000 people every year. Of those deaths, 24,000 occur in Africa where rabies has the highest per capita death rate. In [Country X] specifically, approximately 1 600 humans die of rabies annually.

Goal

To end human deaths from dog-mediated rabies by 2030, a goal in line with the Sustainable Development Goals.

Objectives

- Elimination of rabies in dogs by vaccinating at least 70% of the total dog population
- Prevention of rabies in humans by ensuring nation-wide access to rabies biologics
- Controlling the dog population size and turn-over rate nation-wide
- Increasing community awareness and education on rabies prevention and control

Justification

- [Country X], currently only vaccinates an estimated 5% of its dog population, while an annual 70% vaccination coverage is the only effective way to eliminate the disease from the dog and human population.
- Even though rabies is a completely preventable disease when rabies biologics are administered in a timely manner, only 25% of health facilities in [Country X] have some rabies vaccine in stock.
- [Country X] does not implement any dog populations programs, resulting in a dog population that is increasing in size every year.
- By ensuring that people are educated about rabies and its prevention, the population of [Country X] will be empowered to be safe from dog bites and rabies.

Methodology

- Phase 1: Preparation (3 years): During this phase; field studies will be undertaken while the workforce will be trained and the laboratory capacity will be strengthened. *Expected vaccination coverage at the end of the phase: 18%*
- Phase 2: Scale-up of dog vaccination (3 years): During this phase; projects will be implemented at the local-level, the vaccination coverage will be increased and logistics will be improved. *Expected vaccination coverage at the end of the phase: 50 -70%*
- Phase 3: Sustained 70% dog vaccination coverage: During this phase; mass dog vaccination will continue while surveillance will be used to establish disease freedom. *Expected vaccination coverage at the end of the phase: >70%*

Expected impact

- 1.5 million dogs are vaccinated against rabies in [Country X] every year.
- 75% of all district-level healthcare facilities in [Country X] have rabies biologics in stock throughout the year.
- [Country X]'s dog population is being controlled and maintained through the use of humane methodologies
- 25 million school children in [Country X] are educated about rabies every year with the use of rabies awareness materials

Budget

- [Country X] spends an estimated 40 million USD every year due to avoidable losses associated with rabies. These costs could be saved by providing 7 million USD to the project over the next 13 years.

Sector	Category	Phase 1 (annual funding required)	Phase 2 (annual funding required)	Phase 3 (annual funding required)
Ministry of Health	Resources			
	Capacity Building			
	Workforce			
	...			
	Total			
Ministry of Agriculture	Resources			
	Capacity Building			
	Workforce			
	...			
	Total			
Ministry of Education	Resources			
	Capacity Building			
	Workforce			
	...			
	Total			

Recap

The funding and implementation of this project will ensure that [Country X] is free from dog-transmitted rabies by 2030]