World Rabies Day - Africa Regional Webinar (2022)

One Health: Building Momentum to Zero Human Deaths from Rabies in Africa by 2030

A joint Africa Union-Quadripartite-GARC event

Tieble TRAORE
Technical Officer, Emergency Preparedness and Response
Emergency Preparedness WHO/AFRO





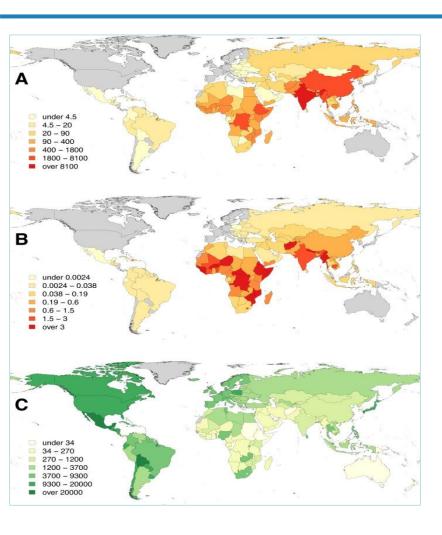


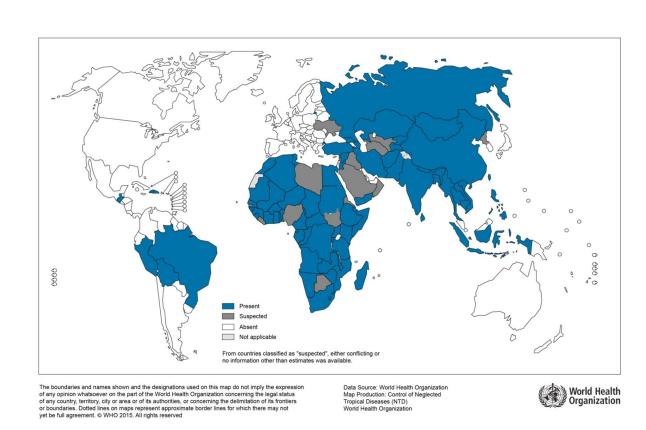






Distribution of the global burden of rabies





Presence of dog-transmitted human rabies based on data from different sources, 2010-2014

A) human rabies deaths, B) per capita death rates (per 100,000 persons), and C) expenditure on dog vaccination (per 100,000 persons). Countries shaded in grey are free from canine rabies.





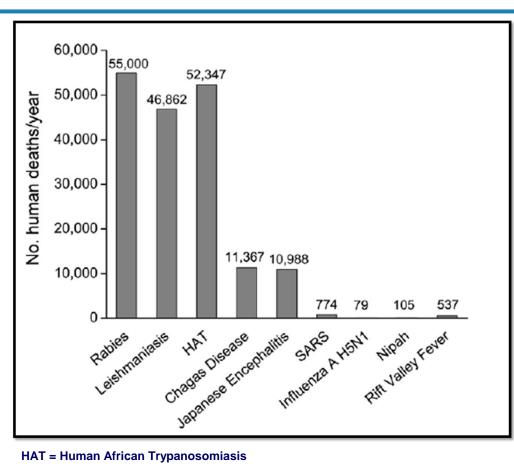








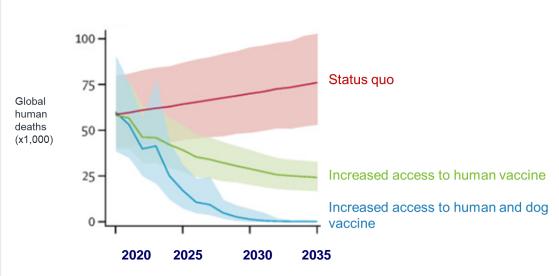
Without further intervention an estimated 1m people will die from rabies



HAT = Human African Trypanosomiasis

Lembo et al. 2010, PLOS Neglected tropical diseases

One Health intervention: approaches to the prevention of human rabies deaths



Cost-effectiveness and sustainable approaches Without further intervention an estimated 1m people will die from rabies.

WHO Rabies Modelling Consortium*: The potential effect of improved provision of rabies postexposure prophylaxis in Gavi-eligible countries: a modelling study https://www.thelancet.com/action/showPdf?pii=S1473-3099%2818%2930512-7





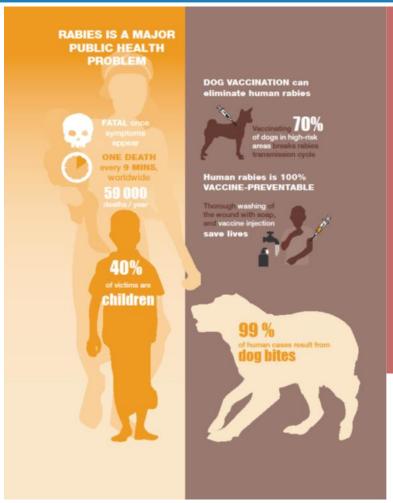


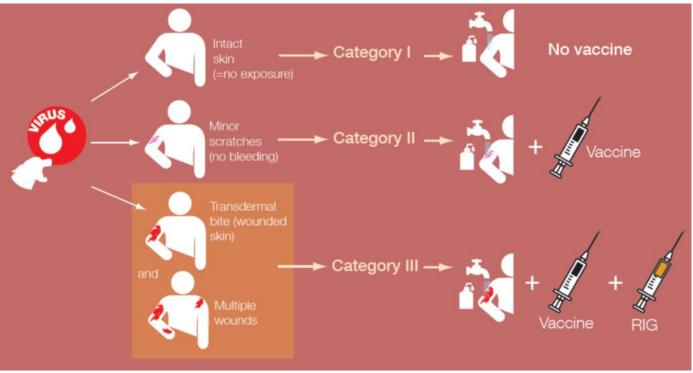






Human rabies is 100% preventable through two complementary measures





- -Mass dog vaccination is feasible and cost-effective as a way of preventing human deaths
- -Post-exposure prophylactic: administration of rabies immunoglobulin and multi-dose course of rabies vaccination
- -Wash immediately for 15 min (with soap, water and disinfectant







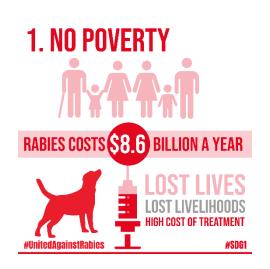






Eliminating rabies contributes to the sustainable development goals

- Sustained mass vaccination of domestic dogs is the most cost-effective strategy
- Prompt administration of post-exposure prophylaxis (PEP) to victims after rabies exposure
- Pre-exposure immunization of people in high-risk occupations (including veterinary professionals, people working with animals, laboratory personnel working on the virus, etc.)









We need action across all stakeholders to achieve the elimination goal "Zero by 2030"





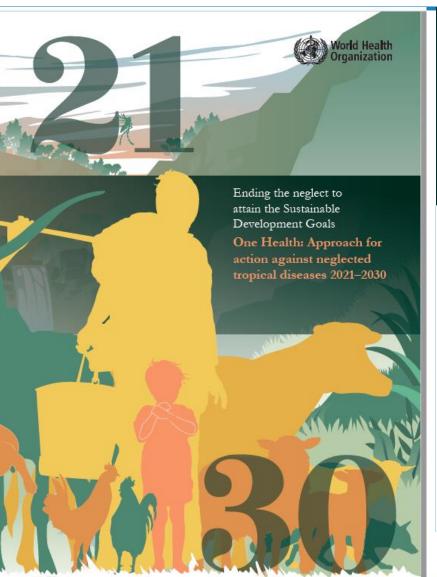








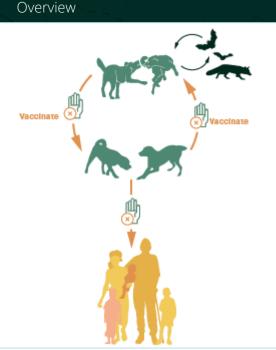
One Health in action against Neglected Tropical Diseases



Ending the neglect to attain the Sustainable Development Goals

A road map for neglected tropical diseases 2021–2030

Rabies: stop transmission between dogs to stop transmission from dogs to people.



Preventing rabies in dogs is key to preventing human rabies (infection/disease) without forgetting that wildlife, particularly bats, can also play a role in transmission.

Coordinating the veterinary and health services is paramount, human and animal surveillance is needed to improve control strategies and effects.





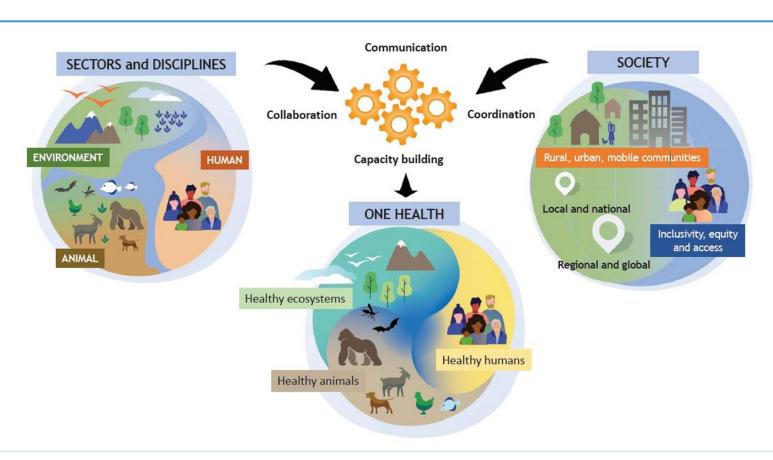


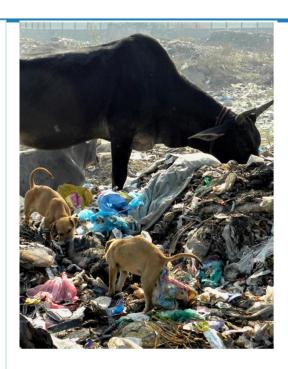






One Health optimizes the health of people, animals, and ecosystems





Clear roles and responsibilities would need to be agreed with all relevant stakeholders: human health, animal health, education, and municipalities, communities etc.





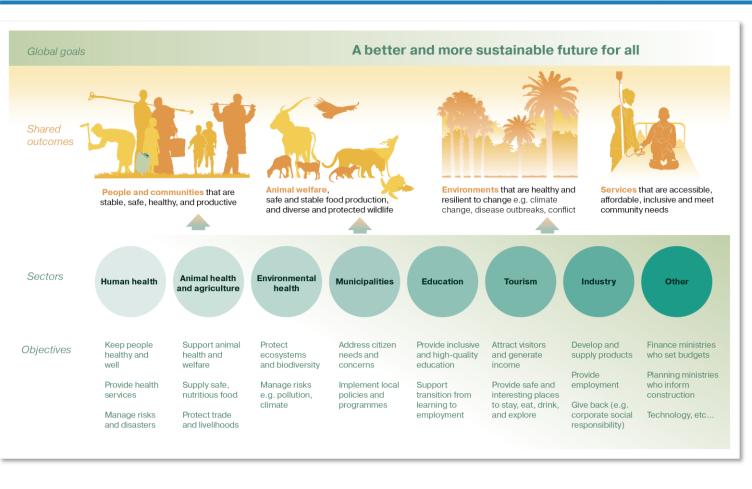








Actions across all stakeholders are needed to unlock a paradigm shift



We need to find **common ground** between sectors and stakeholders

One Health integration can happen at different levels and to varying degrees

Not everything will make sense to integrate – or to integrate first

Source: One Health: approach for action against neglected tropical diseases 2021-2030













The "Zero by 2030" plan is a coordinated strategy to act now

2018-2020: Start up

2021-2025: Scale up

2026-2030: Mop up

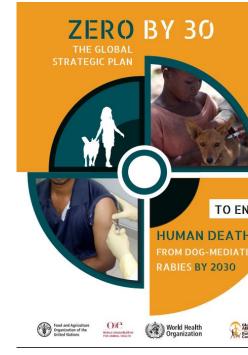
Change the status quo

Put countries at the centre

Create a unified coalition for success

These objectives will be achieved through:

- the effective use of vaccines, tools, and technologies
 - O to reduce human rabies risk
- the generation and measuring of impact
 - O to provide reliable data and effective guidance
- the sustainment of political and financial commitment
 - O to engage with stakeholders



https://apps.who.int/iris/handle/1066972756













WHO provides standards, guidance and support for implementation

WHO - Rabies webpage



https://openwho.org/courses/NTDs-Rabies-and-one-health

Rabies Vaccines – WHO position paper
Global Market Study – Human rabies vaccines
Laboratory techniques in rabies, volume 1 & volume 2
Soon available: Rabies Routine Health Information System
Toolkit



https://www.who.int/publications/i/item/WHO-TRS-1012









https://apps.who.int/iris/ handle/10665/351193



https://apps.who.int/iris/ha

ndle/10665/360978

Guide to introducing human rabies vaccine

into national immunization

programmes

Laboratory techniques in rabies

Fifth edition
Volume 2

Lamby

Charles L Regented
John County Colors

Annua R French
John Colors

Annua R French

Annua R Fre

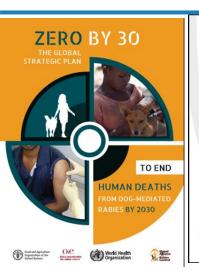








Frameworks and tools

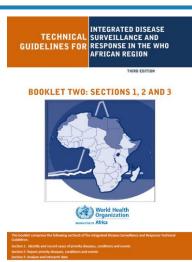


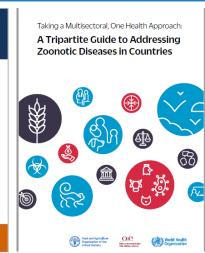






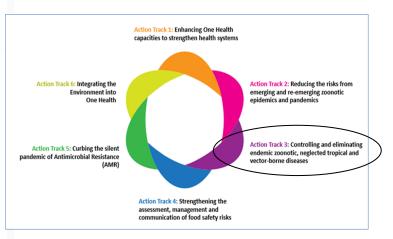






UN Environment Programme joins alliance to implement One Health approach





















Awareness and community engagement

https://www.who.int/health-topics/rabies#tab=tab_1



28 September 2020 | Departmental news **World Rabies Day 2020**



7 August 2020 | Departmental news
OIE endorsement of official control
programmes for dog-mediated rabies



7 August 2020 | Departmental news

Mexico's feat against rabies through
cross-sectoral collaboration is
possible in other countries



21 December 2019 | Departmental news

Mexico is free from human rabies
transmitted by dogs



Leading and coordinating anti-rabies efforts with "One Health" partners



Human rabies prevention and management



Vaccinating against rabies to save lives













United to Eliminate Rabies worldwide

Gavi 🙆

United Against Rabies: One Health in Action, Partnering for Success

A global virtual event announcing the new United Against Rabies Forum, with high level speakers including ministers, experts and activists from around the world. First shown 22 September 2020, moderated by Patricia Amira.







New 2021-2025 high level strategy to leave no-one behind with immunization approved by **Gavi Board**







Key Takeaways

- . The rabies vaccine manufacturer base is extremely fragmented across 24 manufacturers and 27 products. Geographically, supply is 85% concentrated
- Limited pregualified supply (four vaccine products, representing 14% of total) supply) may hinder procurement flexibility. Only three of these prequalified products are labelled for intradermal (ID) administration and available in a 1.0ml vial presentation.
- However, supply is sufficient to serve demand under all reasonable scenarios. Shortages in the period 2018–19 were linked to specific one-time events and, unless similar events were to repeat, are not expected to happen again.
- . The switch to ID administration is likely to reduce annual vaccine needs considerably - from an estimated 60M vials to about 20M vials, mostly driven by China. Suppliers' plans must be carefully monitored as a significant drop in demand may trigger manufacturers to reassess their long-term market
- . Excluding China, this decrease in annual vaccine need is less severe and may he offset partially if PEP access increases due to new support from Gavi and the Zero by Thirty global strategic plan
- . Choice of route of administration plays an important role in rabies vaccine affordability, with ID administration providing significantly less expensive vaccine costs per person than intramuscular (IM) administration, particularly in urban settings.

Disclaimer: This market study was completed before the impact of the SARS-CoV-2 pandemic was fully ascertained. Demand projections assume that any delay or disruption will be absorbed and resolved in 2021. Uncertainty on the progression of the pandemic raises the risk that disruptions will extend beyond 2021. An updated analysis of overall rabies vaccine supply-demand balance will be planned when more information is available on the impact of the SARS-CoV-2

QUICK STATS

2020 NUMBER OF MANUFACTURERS

2020 ESTIMATED GLOBAL DEMAND 64 million vials

2020 DEMAND/SUPPLY RATIO

Sufficient supply³

2019 REPORTED PER DOSE PRICE

UNICEF US\$ 7.50 DAHO LISE 9 30

- 1 This number indicates only the co have full manufacturing capacity. The number does not include licensors providing a portion of the manufacturing process (e.g., filling and fini
- mercialisation," (ASC) defined as the number of doses available for sale at the global level in on typical year with normal production facilities utilization across the various vaccines (not factoric

World Rabies Day, 28 September, 2022 Key message: scaling up dog vaccination Pre-/Post-exposure prophylaxis (PrEP, PEP) (timely)

Strengthening surveillance system, without surveillance there is no programme













Perspectives: how best to achieve the goal set?

- Need for effective surveillance
- Minimum data set and reporting to WHO and WOAH
- Country ownership, budgeted country plans
- Scale up dog vaccination campaigns
- Pre-/Post-exposure prophylaxis (PrEP, PEP) (timely)
- Strong intersectoral collaboration (local, national and global)
- Strong partnership (all stakeholders, including technical and financial partners)













Additional resources

- WHO expert consultation on rabies: third report. World Health Organization (2018)
 https://apps.who.int/iris/handle/10665/272364
 http://www.who.int/rabies/en/
- WHO: https://www.who.int/en/news-room/fact-sheets/detail/rabies
 - Zero by 30: the global strategic plan to end human deaths from dog-mediated rabies by 2030
 - WHO, Laboratory techniques in rabies. Fifth edition. Volume 1 and Volume 2
 - WHO expert consultation on rabies: Third Report. TRS N°1012
 - Scientific and operational updates on rabies
 - OIE Rabies Portal
 - Ending the neglect to attain the sustainable development goals: a road map for neglected tropical diseases 2021–2030
- <u>Taking a multisectoral, one health approach: a tripartite guide to addressing</u>
 <u>zoonotic diseases in countries</u>
- One Health Zoonotic Disease Prioritization workshops:
 https://www.cdc.gov/onehealth/what-we-do/zoonotic-disease-prioritization/completed-workshops.html













Thank you Merci **Obrigado**

RABIES: THE FACTS



FATALITIES

poor rural communities

Distribution of risk levels for humans contacting rabies

About

every

of the victims are younger

than 15

VACCINATING DOGS

SAVES HUMAN LIVES

Rabies is 100% preventable

One death

mostly in Asia and Africa

Rabies affects

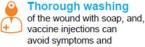






The virus attacks the brain Rabies is fatal once symptoms appear

TREATMENT



save lives

HOW TO PREVENT RABIES TRANSMISSION FROM DOGS?



Learn dog body language NO BITE = NO RABIES





Vaccinating 70% of dogs breaks rabies transmission cycle in an area at risk

Every dog owner is concerned

Global elimination of dog-mediated human rabies The Time is Now!

rabies

17. PARTNERSHIP (FOR THE GOALS

AFFORDABLE TREATMENT FOR ALL



BE A PARTNER AGAINST RABIES

#UnitedAgainstRabies

#SDG17

10. REDUCED INEQUALITIES



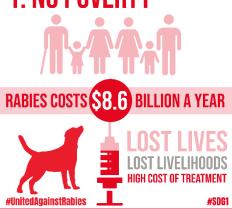


ENSURE LIFE-SAVING VACCINES FOR ALL

#UnitedAgainstRabies

#SDG10

1. NO POVERTY





FIGHT RABIES, SAVE LIVES

#UnitedAgainstRabies

#SDG3











