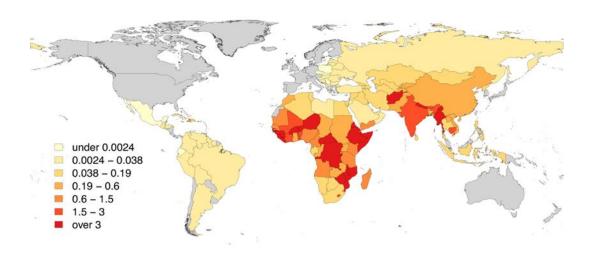
WHO initiatives to support rabies elimination in Asia

Asian Rabies Control Network (ARACON) Meeting, 13-14 March 2018

Rick Brown, WHO Thailand



Rabies is a neglected, vaccine-preventable disease An indicator for impact on inequity



Rabies per capita death rates per 100,000 persons.

- 100% fatal
- ~60,000 deaths per year, mostly children
- Dog bites cause ~ 95-99% of human cases
- Weak data and under-reported
- Vaccine is a key component of the global plan



Rabies in Asia

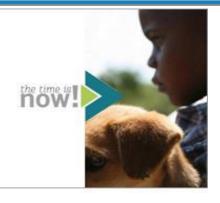
- More than 4 billion people in Asia are at risk of getting rabies
- More than 94% of documented human rabies cases were exposed to rabid dog bite
- Raccoon dogs, foxes, jackals, mongoose are responsible for maintenance of rabies transmission
- More than 11 million people receive rabies vaccination annually



A global framework: zero by 30

GLOBAL ELIMINATION OF DOG-MEDIATED HUMAN RABIES

GLOBAL CONFERENCE 10–11 DECEMBER 2015 GENEVA, SWITZERLAND



Pillar 1. Socio-cultural

Pillar 2. Technical

Pillar 3. Organizational

Pillar 4. Political

Pillar 5. Resources

STOP-Rabies

"0 by 30"

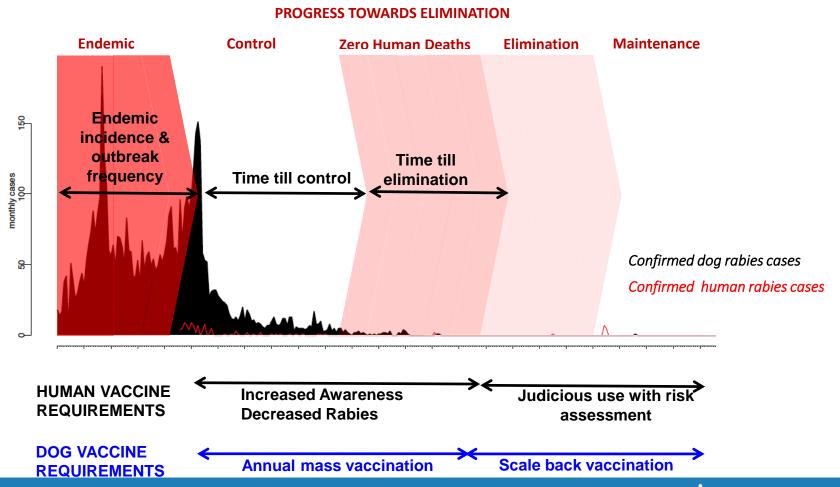
The goal of reaching <u>zero</u> human deaths from dog-mediated rabies by the year 2030

© United against rabies





The evidence for reaching 0/30





Tripartite Collaboration in the Region

 Regional platform for sharing One Health practices organized by FAO, OIE and WHO

First workshop – Sapporo, Dec., 2010
 WHO

Second workshop – Chiang Mai, Jan. 2012 FAO

Third workshop – Bali, Nov. 2012
 OIE

Fourth workshop – Kathmandu, Nov. 2013

WHO

Fifth workshop – Bangkok, Nov. 2014FAO

Sixth workshop – Sapporo, Nov. 2015
 OIE

- Seventh workshop Manila, September 2017 WHO
- Eighth workshop Thailand, February (!) 2019 FAO
- Rabies, zoonotic influenza and AMR are priority issues for the operationalization of One Health



SE Asia Regional Strategic Framework

Strategic approaches

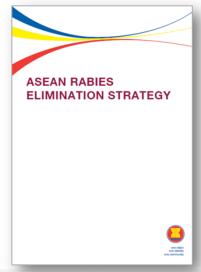
- Prevention: Introduce cost-effective public health intervention techniques to improve accessibility, affordability and availability of post-exposure prophylaxis
- Promotion: Improve understanding of rabies through advocacy, awareness, education and operational research
- Partnership: Provide coordinated support for anti-rabies drive with the involvement of community, civil society, government and non-government sectors and international partners





Regional Initiatives for Rabies Elimination

- ASEAN call for rabies elimination by 2020
 - WHO/FAO/OIE have supported ASEAN in developing ASEAN Rabies Elimination Strategy including country support
 - Most ASEAN countries have introduced costeffective intradermal rabies vaccination to improve accessibility of PEP
- HRH Princess Chulabhorn has committed acceleration of efforts to eliminate human rabies deaths by 2020 from Thailand while visiting WHO HQ in 2017







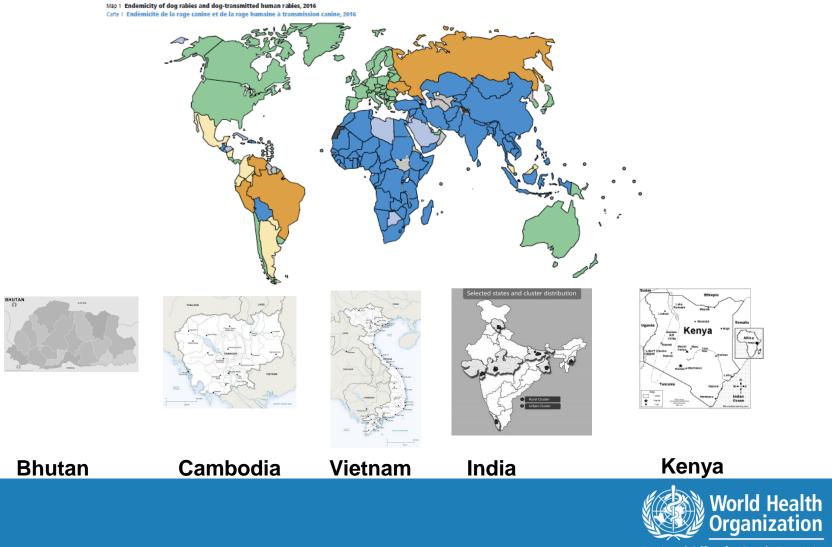
Highlights of the Rabies Expert Consultation Meeting

Chulalongkorn University Hospital Bangkok - 26-28 April 2017

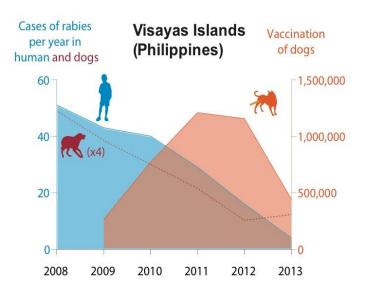
- Safe and feasible human and animal immunization policies
- Practical approaches to improve surveillance in animals and humans including updates for the laboratory techniques
- Strategies to reduce over-use of scarce human biologicals
- Potential of new rabies biologicals to improve delivery to (rural) communities
- Oral vaccination in dog vaccination campaigns
- Processes for countries to declare freedom from rabies
- Modelling consortium for policy decisions in countries and globally

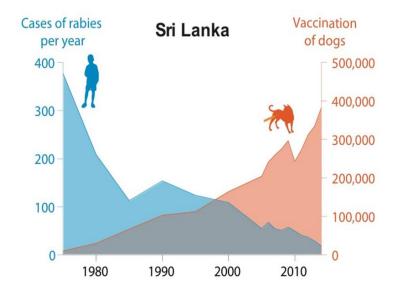


Evidence to inform policy?



Lessons learned





Lessons Learned: Western Pacific Region

Success factors:

- Building a feasible intersectoral national strategy targeted towards elimination goal, with tiered approach for full expansion
- Strong surveillance, risk assessment and response system <u>at all levels</u>
 - strengthening rabies diagnostic capacity
 - ensuring inter-sectoral collaboration
 - establishing a concrete operating procedure on surveillance and response
- Understanding dog ownership and health care seeking behavior to build the most effective communication strategy, and measures to address stray dogs appropriate to the local context.

Possible bottleneck:

- Lack of resources and rabies focal point in relevant ministries
- Lack of awareness and incentives among dog owners (or communities)
- Shortage of quality assured and low cost PEP



Challenges ahead....!

- How do we reach and maintain 70% dog vaccination coverage to reduce human rabies incidence?
- How long will dog vaccination programme will be carried out?
- How to ensure balance funding of human rabies prophylaxis and dog rabies control?
- How to make accessible post-exposure prophylaxis to rural population?
- How to accelerate regional cooperation for human rabies elimination?

Addressing the challenges

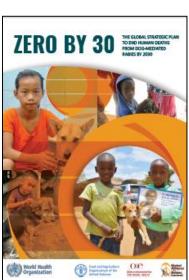
- Political will and inclusion in national plans with adequate resources
- Appropriate/customized outreach and education at community, national and subnational levels
- Motivating & coordinating different sectors/players to engage in comprehensive programme
- Enhanced disease reporting and surveillance
- Innovative approaches to support dog vaccination targets, including new technologies like oral rabies vaccine)
- Access to safe, efficacious vaccines, at affordable prices
- Promoting intradermal PEP administration in high incidence areas



Opportunities



- Global Strategic Plan for Rabies Elimination (United Against Rabies)
 - "Supporting countries to prepare robust, budgeted, effective and sustainable national rabies elimination plans following a One Health approach; and facilitating the coalescence of these plans into a coordinated regional effort".
- Involvement of Regional organizations and international partners in dog rabies control and dog population management
- New technological advancement
 - Cost-effectiveness and PEP compliance
 - Alternate to HRIG (Purified ERIG, mab)
 - Vaccine delivery (Oral rabies vaccine)
 - Diagnostic tool (dRIT, RDT)
 - Animal birth control (Immunocontraceptive)
- Models for operationalization of 'One Health' (4 way linking)
- Push to achieve SDGs (rabies as an equity / access issue)





What can WHO do to help?

- Strengths guidelines, country representation, partnership, convening power, access to expertise...
- Limitations funds, human resources
- So....
 - Advocacy for a comprehensive rabies control programme
 - Development of National Guidelines/Protocols for rabies prophylaxis
 - Technical support for introduction/promotion of cost effective intradermal rabies vaccination
 - Improving surveillance and rabies diagnostic services
 - Operational research in endemic countries



Thank you.....

Acknowledgements

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Let's put rabies in the history books!