

# RABIES: 'ONE HEALTH'

- Preventable by dog vaccination, PEP, PreP
- Perspectives on the 'Process' of the Position Paper



**TABLE 10: WHO-approved post-exposure rabies vaccination regimens<sup>159</sup>**

Regimen	Summary	Day (number of sites)						
		0	3	7	14	21	28	90
Essen (IM 1 x 5)	One dose into deltoid on each of five visits	✓ (1)	✓ (1)	✓ (1)	✓ (1)		✓ (1)	
Zagreb (IM 2-1-1)	Double dose IM (1 dose at 2 sites) on day 0, followed by single doses on days 7 and 21	✓ (2)		✓ (1)		✓ (1)		
Thai Red Cross (ID 2-2-2-0-2)	Double 0,1ml dose ID (1 dose at 2 sites) on days 0, 3, 7 and 28	✓ (2)	✓ (2)	✓ (2)			✓ (2)	
Oxford (ID 8-0-4-0-1-1)	Eight 0,1ml doses in separate sites on day 0, then four 0,1ml doses on day 7 (separate sites), then single doses at 28 and 90 days	✓ (8)		✓ (4)			✓ (1)	✓ (1)

**Source: RSA rabies guidelines**



## WHO-approved post-exposure rabies vaccination regimens

Regimen	Summary	Day (number of sites)						
		0	3	7	14	21	28	90
ID	2-sites ID on days 0, 3 and 7	✓ (2)	✓ (2)	✓ (2)				
IM	1-site IM on days 0, 3, 7 and between day 14-28	✓ (1)	✓ (1)	✓ (1)	✓ (1)			
IM	2-sites IM on days 0 and 1-site IM on days 7, 21	✓ (2)		✓ (1)		✓ (1)		

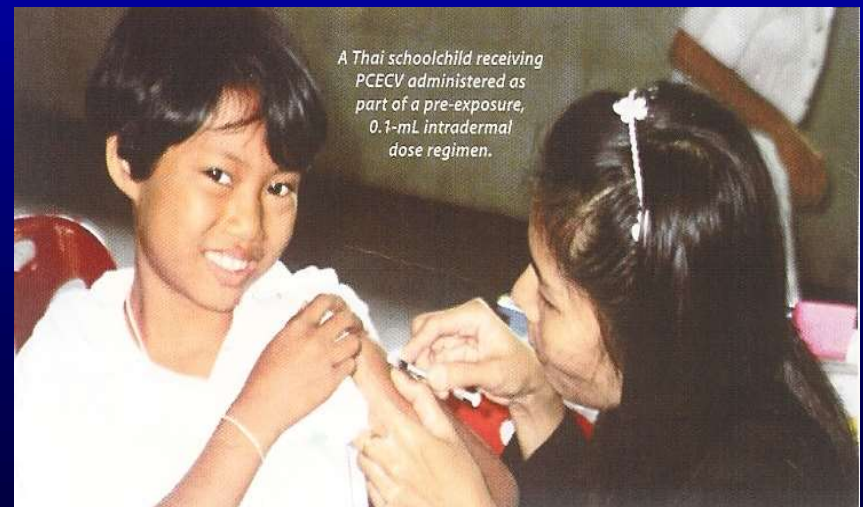
Source: Rabies vaccines: WHO position paper WER 16, 2018, 93



# Pre-exposure prophylaxis

- Recommended for individuals at high risk of RABV exposure – occupational, travellers, individuals in highly endemic settings with limited PEP access
- 2-site ID or 1 site IMI on days 0 and 7
- Boosting

WHO 2018  
Perú 2011-2014. [Official document].  
J Trop Paeds 2009  
PIDJ 2009



*A Thai schoolchild receiving PCECV administered as part of a pre-exposure, 0.1-mL intradermal dose regimen.*

# 2018 position paper

## Key points for Africa re vaccines :

- Recommended regimens should improve PEP access
- Wider use of intradermal route - cost effective and dose- sparing
- **High efficacy of wound care + vaccine course**
- PEP regimens effective in HIV+ on ARV, CD4>200
- **Need for even shorter vaccine regimens, heat-stable vaccines**

- >15 million people access PEP globally
- In the absence of PEP, about 327 000 would die from rabies each year in Africa and Asia
- Estimated global expenditure for rabies prevention > 1 billion dollars in 2005

# Previously immunized individuals

Wound washing and immediate vaccination\*:

- 1-site ID on days 0 and 3

OR

- at 4-sites ID on day 0

OR

- at 1-site IM on days 0 and 3)

RIG is not indicated.

\* Immediate vaccination is not recommended if complete PEP already received within <3 months previously  
ID: intradermal injection; IM: intramuscular injection; RIG: Rabies immunoglobulins