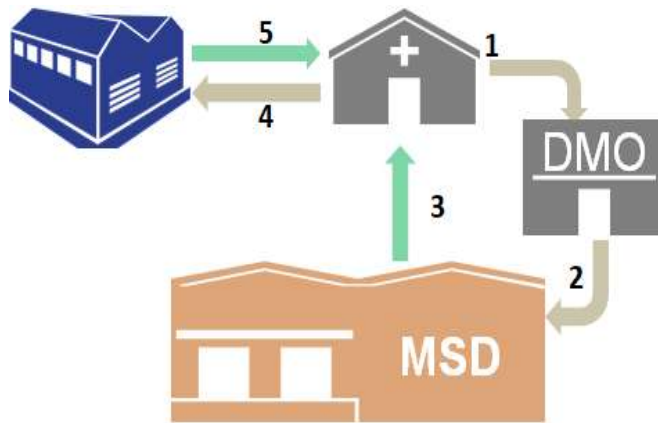


# How does PEP supply work in a decentralised country: Experience from Tanzania

Joel Chagalucha, Jubilate Bernard

# Supply chain



- Transitioned from MoH role to LGA responsibility in 2011
- Supply chain in Tanzania organized through the Medical Stores Department (MSD), within the MoH
- Distribution models guided by program needs (ILS, routine vaccine, vertical program etc.)
- PEP among the medical supplies categorised in ILS system
- Private sector actively involved
- PEP prequalification regulated by the Tanzania food and Drug Authority (TFDA)

- PEP is not predetermined in priority list items
- PEP procurement depend on other source of funds
- Supply is limited to specific facility levels (NEMLIT&STG)
- LGA & health facility who are responsible for PEP provision have no ring-fenced PEP budget



Ministry of Health. Standard Treatment Guidelines (STG) and National Essential Medicines List (NEMLIT) 2017, 2017; 5th Ed, National Medicines and Therapeutic Committee (NMTTC), Dar es salaam Tanzania.

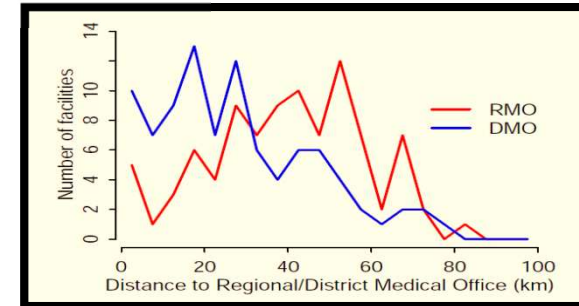
Ministry of Health and Social Welfare. Integrated Logistic System (ILS) Procedure Mannual Dar es salaam: September 2008.

# Tanzania PEP Position



**Cost limits PEP access (no responsive but budget dependant)**

**PEP is centralized & only available at district hospitals**



**Tanzania health policy recognizes immunisation as free service**

**Predominant use of 3 dose IM regimen**



TFDA Imported Rabies Vaccine ampoules		
Year	Imported Rabies vaccine doses	
2008	100	
2009	68,003	
2010	43,804	
2011	40,420	
2012	20,400	
2013	25,068	
2014	62,327	
2015	15,500	
2016	3,200	

**Decrease in imported quantity due to budget constraints**

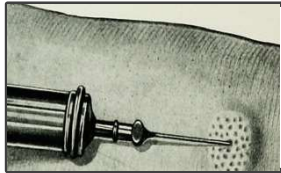
# Tanzania PEP Position



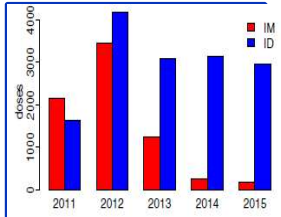
Both MSD & Private suppliers are responsible for PEP



**Predominant Use of CCEEVs since 2008**



**Essen & updated TRC indicated in NEMLIT & STG 2013, 2017**



**Successful shift to ID route of administration since 2011 in Gates project areas (+ new districts in 2018)**

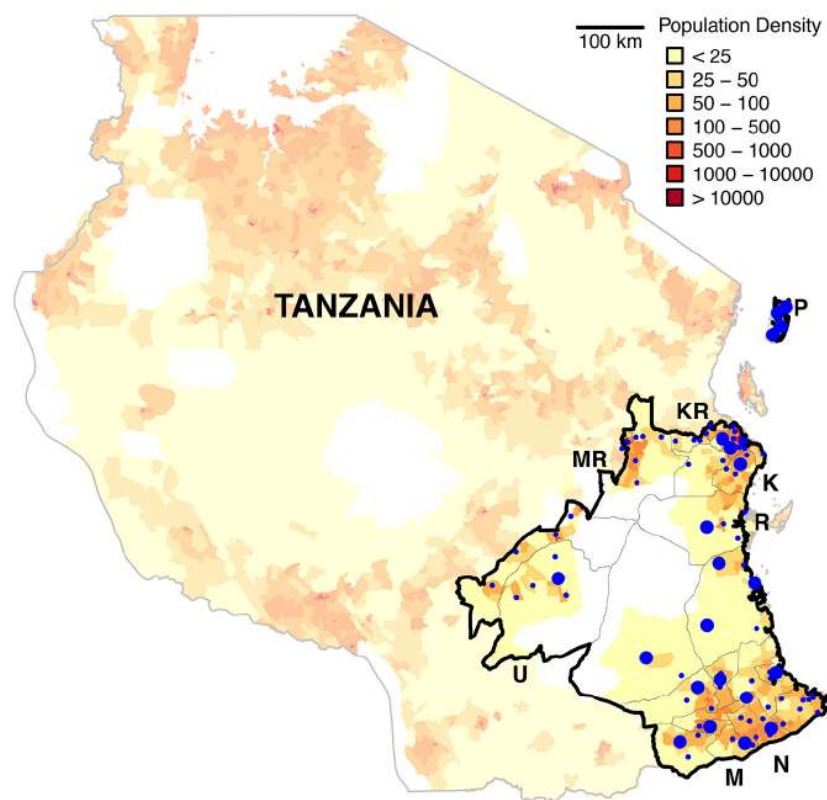


**Extensive EPI infrastructure (primary facilities refrigerators >90%) could accelerate wide spread PEP supply**

Mpolya EA, Lembo T, et al. *Toward elimination of Dog-Mediated human rabies: experiences from implementing a large-scale Demonstration Project in southern Tanzania*. *Frontiers in veterinary science*, 2017; **4**: 21

Ministry of Health [Tanzania Mainland]. Expanded Program on Immunization; Tanzania Mainland EPI Review, 2010; Immunisation and Vaccination, Dar es salaam, Tanzania, Ministry of Health and Social Welfare

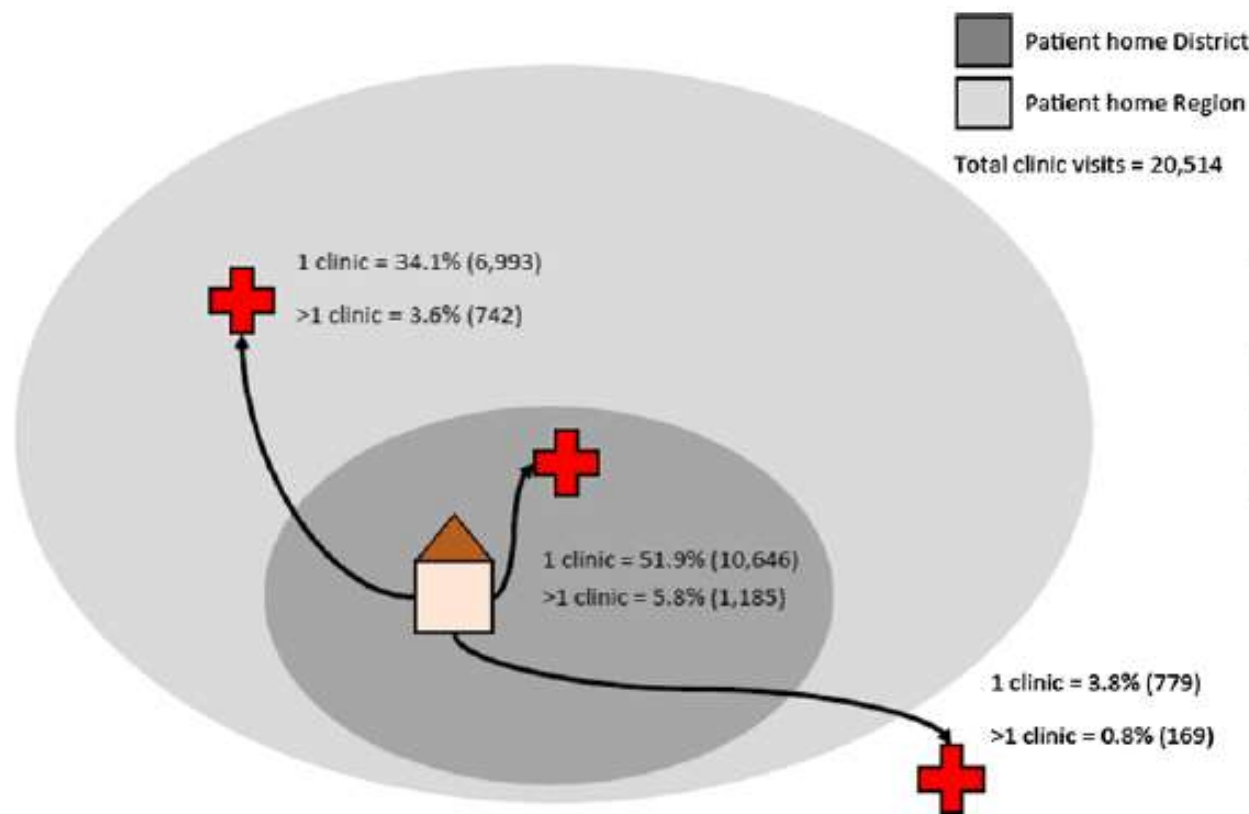
# Decentralisation of PEP



- Trialled as part of Gates/WHO rabies project
- 4 health facilities per district selected (33Disp, 43HC, 20Hosp) for free provision of ID PEP
- Mobile phone based surveillance to integrate sectors, monitor PEP demand & logistics
- Free PEP partly embedded within routine vaccination system (monitoring, staff & infrastructure)
- Distribution on demand (no calendar & order when stock is ~10%)
- Supply to LGA authorised by MoH rabies coordinator
- shortage mainly due to procurement and requisition challenges
- ID route occasionally lacked insulin syringes

# Decentralisation of PEP

- Even with improved provision, 34% of patients attended a clinic outside their home district but in the same region, 10% had to visit at least 2 clinics for PEP



- Free provision **increased attendance and reduced delays** to PEP
- However currently patients typically pay >\$10 per dose which is a major obstacle for prompt PEP provision

# General lessons

- Cost is the major barrier for PEP access – both for patients and for LGAs (no central budget)
- Infrastructure for larger scale supply does exist
- Countrywide training of ID required despite existing NEMLIT&STG indication
- ID route reduces cost to bite victims by 50%
- Limited (veterinary) surveillance to influence PEP decision making
- RIG is not available
- Inadequate tools to track PEP immunisation status
- Lack of experience in effective management of PEP stocks



# Acknowledgements



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