

HIV Service Delivery Improves Force Readiness of Partner Militarys and Enables U.S. Military HIV Research Program

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The President's Emergency Plan for AIDS Relief (PEPFAR)

- The largest single global health program of the USG, and the largest HIV program in the world (~\$6-7B/yr since 2009)
- Established in 2003 with wide bipartisan support, repeatedly re-authorized through 2024
 - Reconfigured in 2023 under the Bureau of Global Health Security and Diplomacy at the US Dept of State
 - PEPFAR is a permanent part of U.S. law and continues as long as Congress appropriates funding for the program
 - Currently transitioning to direct funding of host governments



PEPFAR

PEPFAR RESULTS FY 2024

20.6 million people on life-saving antiretroviral treatment

2.5 million people newly enrolled on PrEP to prevent HIV infection

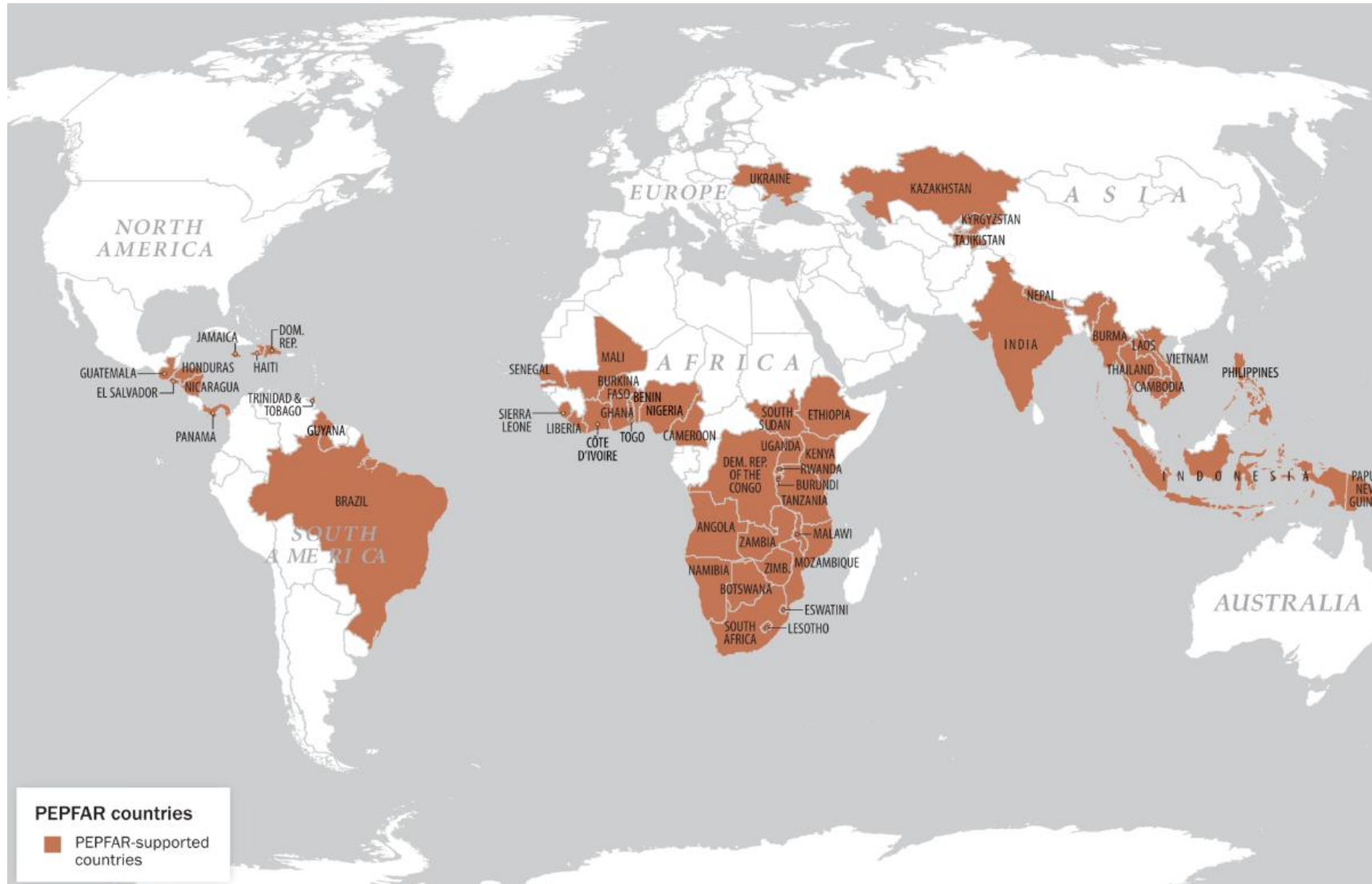
2.3 million adolescent girls and young women reached with comprehensive HIV prevention services

83.8 million people provided with HIV testing services

6.6 million orphans, vulnerable children and their caregivers received critical care and support

342,000 health workers directly supported by PEPFAR

Where PEPFAR Operates



- PEPFAR-supported USG agencies work in over 50 countries
- Provides support for HIV service delivery, including prevention, case-finding and care/treatment, as well as community engagement and support
- Is a cornerstone of diplomatic engagement with countries in which it operates

- The **Dept of War HIV/AIDS Prevention Program** (DHAPP) established in 2003 to support HIV programs in foreign militaries (DoD Directive 6485.02E. “DoD HIV/AIDS Prevention Program to Support Foreign Militaries”)
 - Supports mil-mil programs in over 35 countries
- The **U. S. Military HIV Research Program** (MHRP) at the **Walter Reed Army Institute of Research** (WRAIR) had a pre-existing community-based research platform which provided the most efficient way to scale service delivery in those countries
 - The U.S. MHRP’s PEPFAR program was launched with DHAPP in 2003



The U.S. MHRP: Mission and Vision



Mission:

MHRP will protect the U.S. Military from HIV and improve global health by conducting research to develop an HIV vaccine, reduce new infections and advance strategies to induce long-term HIV remission.

Vision:

To be the international leader in HIV countermeasure development.

The U.S. MHRP implements PEPFAR, which provides the ethical framework for interventional research and plays a key role in global health security and diplomacy

The U.S. MHRP: Priorities in the Battle Against HIV



Immunologic countermeasures from bench to clinical trials

- **Vaccines** - harnessing new technologies to improve antibody responses for an effective HIV-1 vaccine
 - » Developing **novel adjuvant ALFQ, mRNA vaccine** platforms
- **Monoclonal antibodies (mAbs)** - passive vaccination to prevent HIV
 - » Targeted protection for highest risk levels, including bloodborne transmission
 - » Advancing innovative bispecific mAbs in the clinic, animal models of IV exposure
- **HIV remission research - approaches to cure** following recent exposure
- **Global HIV clinical trial partnerships** include centers in the US, Kenya, Uganda, Tanzania, Nigeria, Mozambique, Thailand, and the Philippines

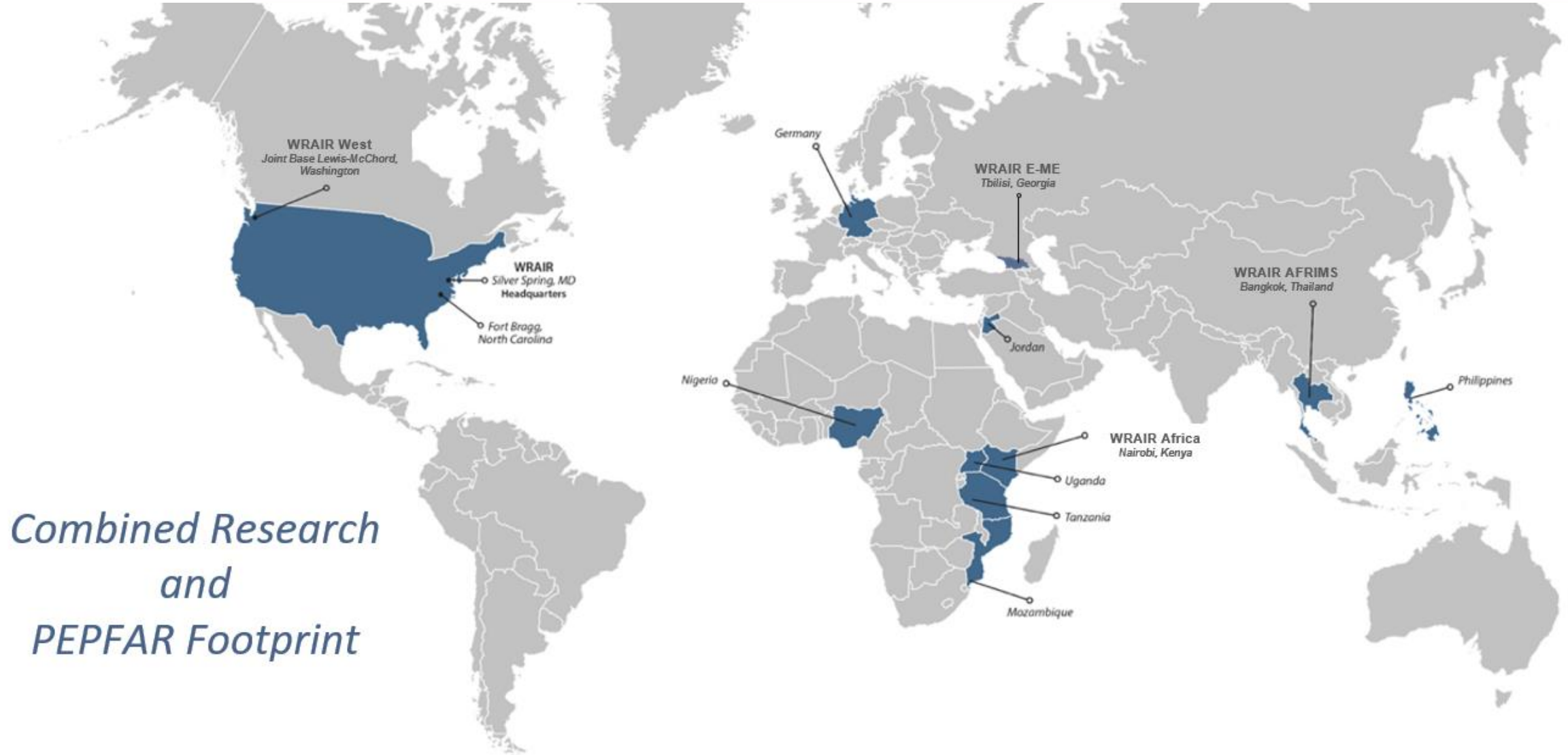
Epidemiology and Threat Assessment

- **Track global HIV incidence, genetic diversity** (variants) to inform countermeasure development and characterize the epidemic in key geographies
- Engage high HIV risk global populations to facilitate international clinical trials

PEPFAR Implementation

- Support high quality, comprehensive **community-based service delivery, intensive community stakeholder engagement, access to relevant populations**

The U.S. MHRP: Where We Work





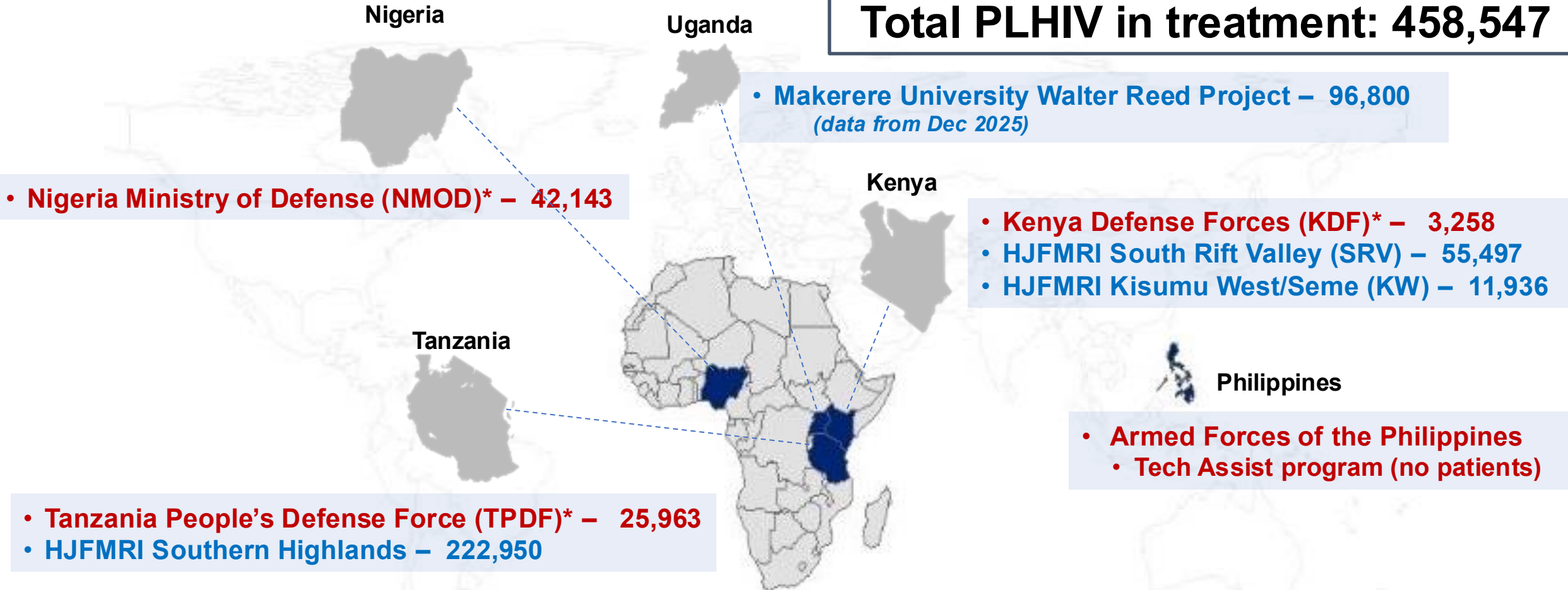
Members of the Tanzania People's Defence Force (TPDF) and Nigerian Ministry of Defence (NMOD) visit WRAIR

- WRAIR PEPFAR includes mil-mil and mil-civ programs
 - Mil-mil programs provide care to civilian populations proximal to military treatment facilities
- PEPFAR program was built on top of the HIV research platform and allows for the provision of care which facilitates the ethical environment required to conduct critical clinical research
- WRAIR's PEPFAR program partners with:
 - Militaries; Ministries of Defense, Health, and labor; public, private and mission hospitals
 - HJFMRI (HJF in-country subsidiary) and community and faith-based organizations as implementing partners (IPs)
- Aligns with AFRICOM Objectives

WRAIR PEPFAR Areas of Operation

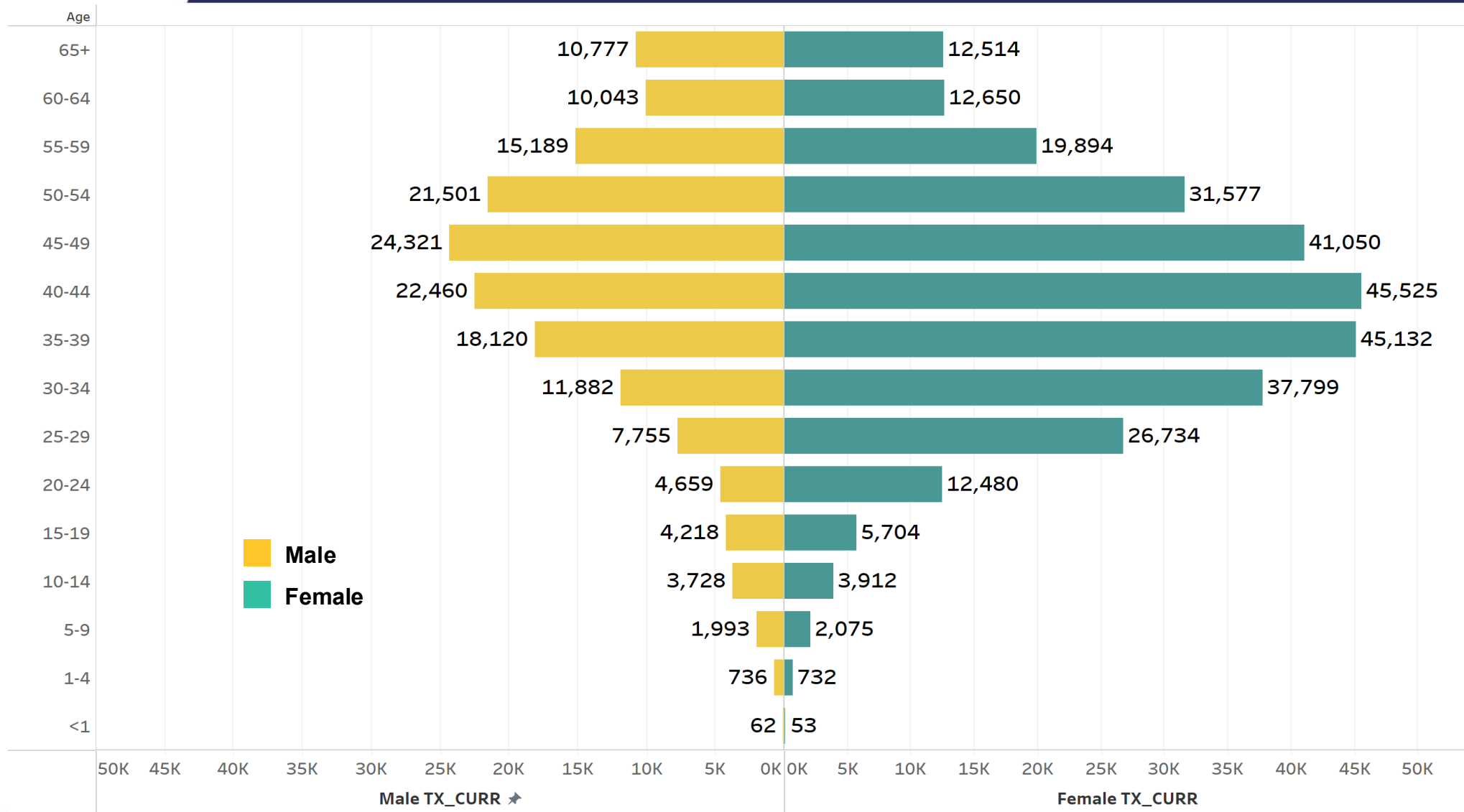
Number of Patients Currently on Treatment*

Total PLHIV in treatment: 458,547

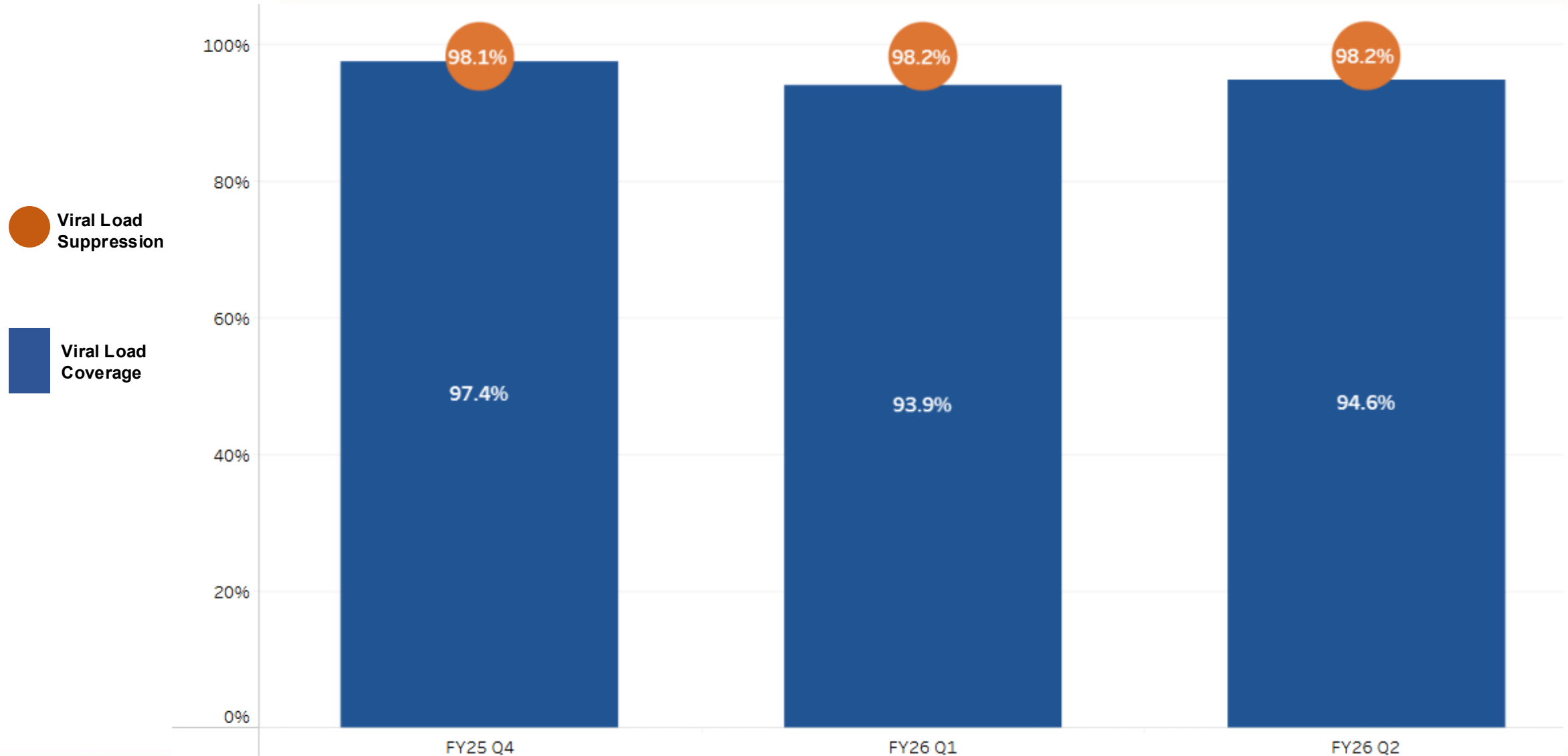


*Mil-to-mil programs **in red font**, mil-to-civ programs **in blue font**; KDF serves only active military, dependents and civ employees w/ exception of one civ clinic in Mombasa, whereas 80-85% of clients for TPDF and NMOD come from general pop.

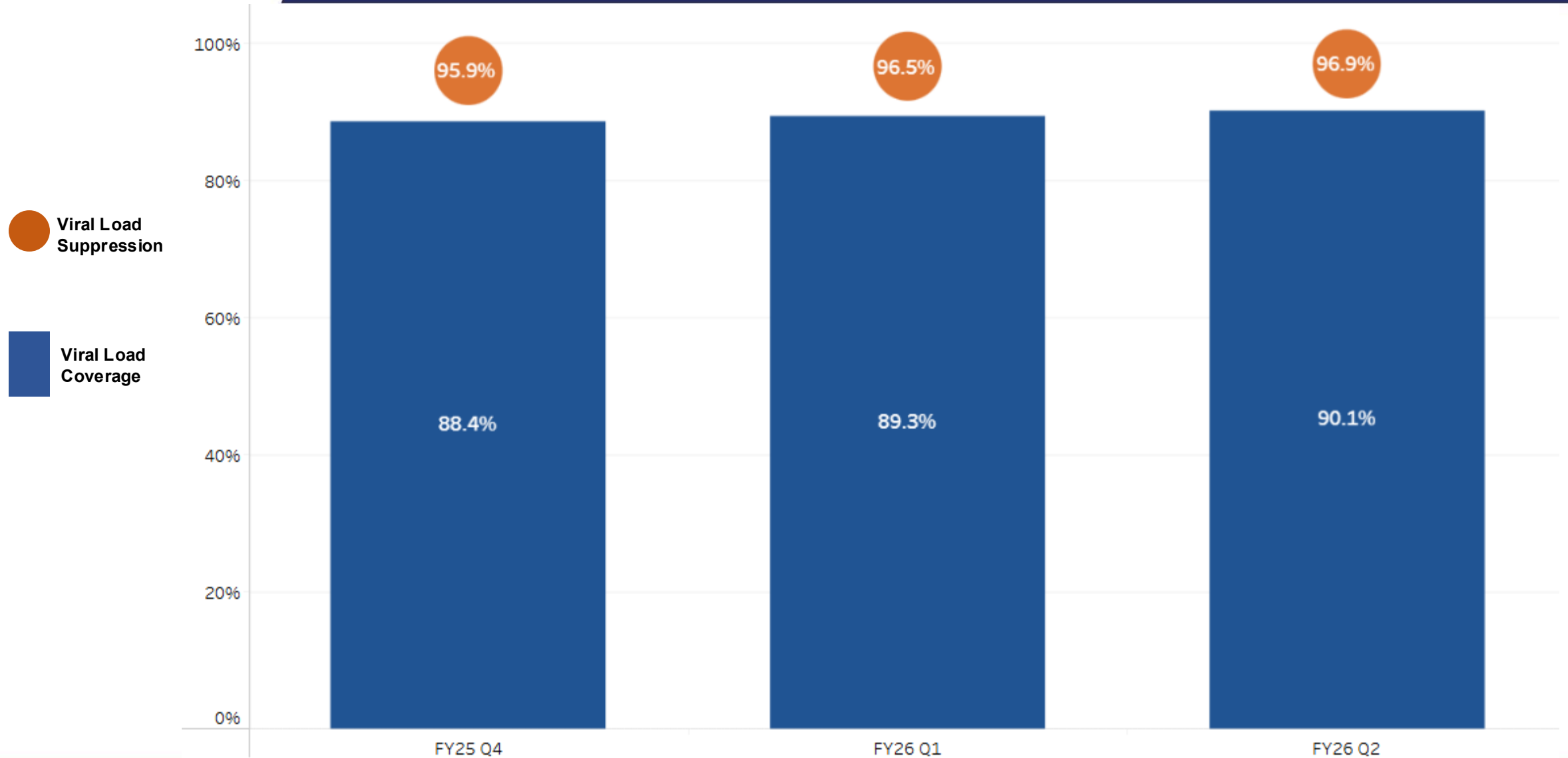
WRAIR PEPFAR Age and Sex Pyramid for Persons on Treatment



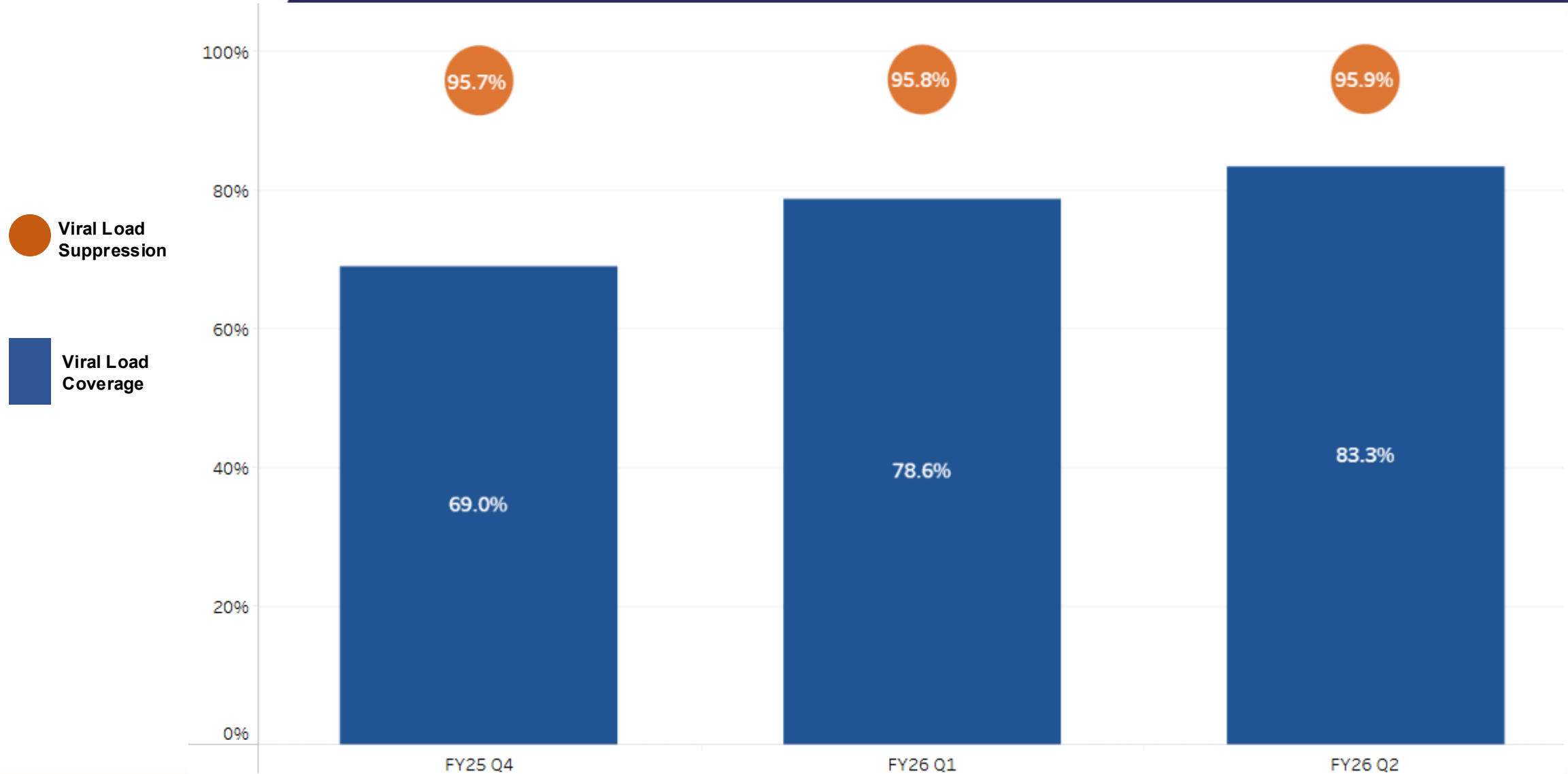
WRAIR PEPFAR Program Viral Load Coverage and Suppression, Tanzania



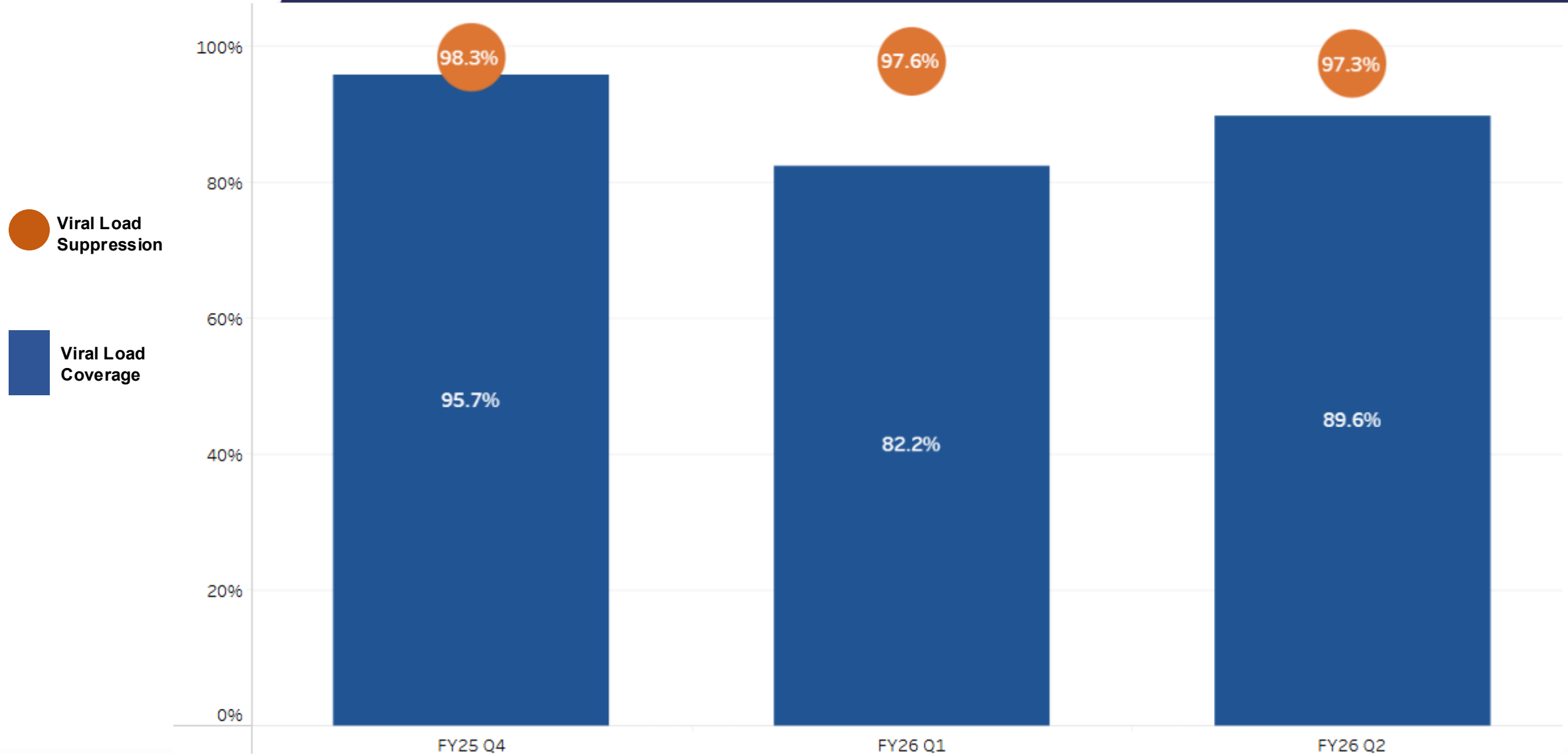
WRAIR PEPFAR Program Viral Load Coverage and Suppression, Uganda



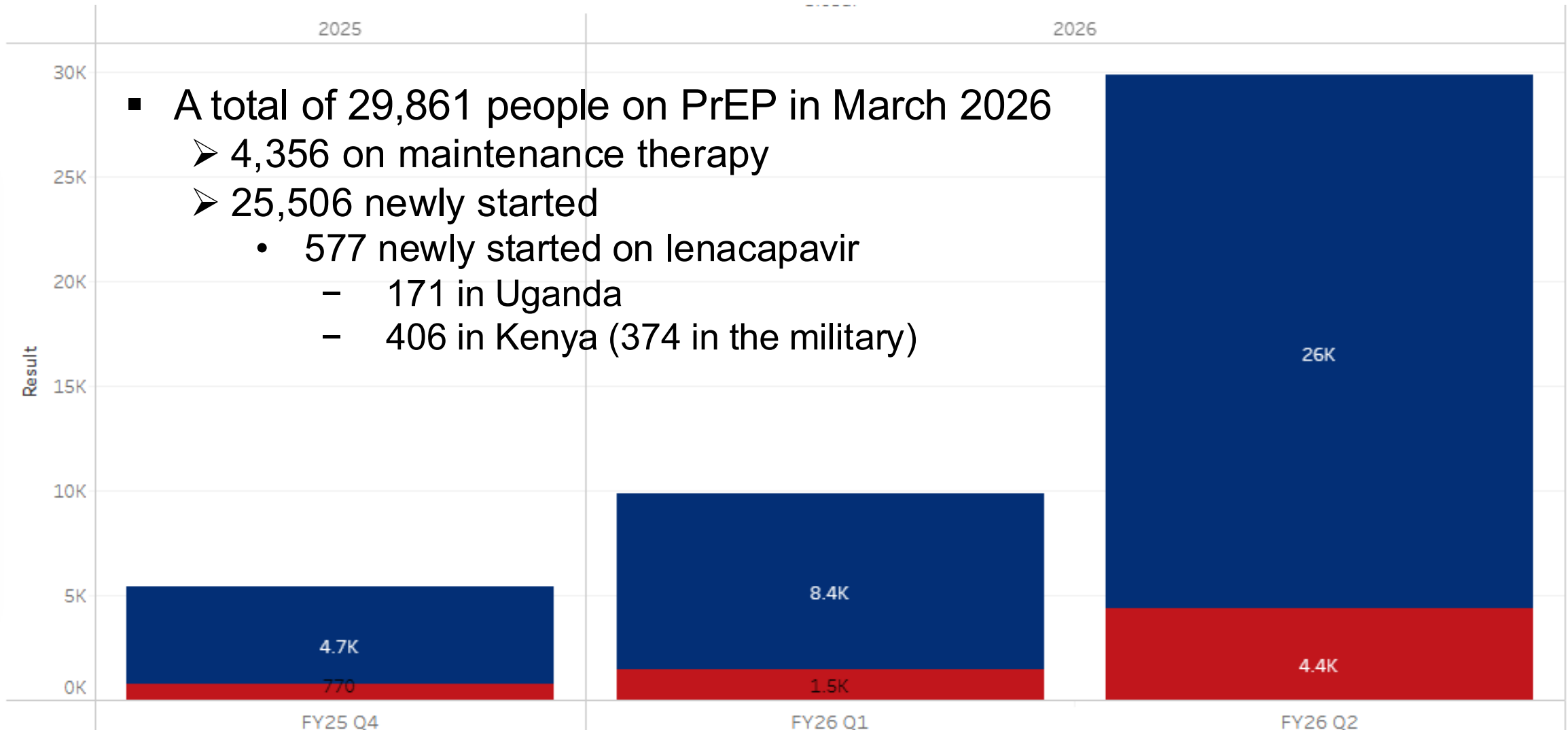
WRAIR PEPFAR Program Viral Load Coverage and Suppression, Kenya



WRAIR PEPFAR Program Viral Load Coverage and Suppression, Nigeria



WRAIR PEPFAR Program Number of Persons on Pre-Exposure Prophylaxis (PrEP)



- Established in 2021 under DHAPP, activities, implemented through WRAIR/Armed Forces Research Institute of Medical Sciences (AFRIMS)
 - AFRIMS working in the Philippines since 2011 and has an established excellent relationship with the Armed Forces of the Philippines
- This mil-mil PEPFAR initiative leverages and strengthens those relationships
- With funding from PEPFAR, DHAPP and WRAIR provide Technical Assistance (TA) to support lab strengthening, clinical training, diagnostics capabilities
- While the focus is on HIV, these capabilities are leveraged to combat other health threats



- » The PEPFAR objective of finding and effectively treating PLHIV substantially reduces HIV transmission and promotes the health, functioning, stability, and economic well-being of communities.
- » WRAIR-supported HIV programs have scaled successfully with excellent clinical outcomes; they have helped partner militaries maintain force readiness and have strengthened alliances and cooperation, bolstering good will towards the U.S. and U.S. Department of War.
- » The civilian PEPFAR programs enable the ethical environment required to conduct the interventional research of the U.S. MHRP while enhancing community stability, which further contributes to the quality of research.

- CAPT Neha Shah
- COL Julie Ake
- International HIV Prevention and Treatment, MHRP
- WRAIR USG staff in country
- HJFMRI staff in country
- All the patients and participants in WRAIR-supported programs

