Px Wife A Quarterly Update on HIV Prevention Research

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From Research to Rollout: A global snapshot of HIV prevention

Preclinical Phase I Phase III Phase

Px Wire is AVAC's quarterly update covering the latest in the field of biomedical HIV prevention research and development, implementation and advocacy. Each issue includes updates, emerging issues and upcoming events.

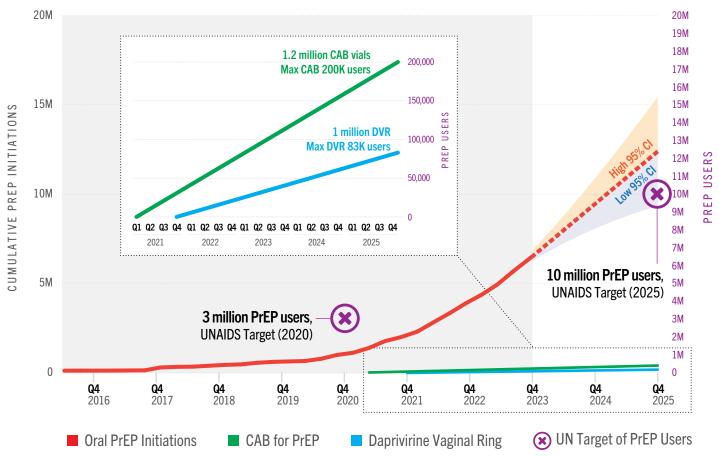
Progress in PrEP Uptake

Scale Up

In 2020, the world missed the UNAIDS' goal of reaching 3 million PrEP users. The updated target for 2025 is 10 million. Is the 2025 target achievable based on the current trends in PrEP uptake? Applying an *Autoregressive Integrated Moving Averages* (ARIMA) model to data from the Global

PrEP Tracker since Q3 2016, we forecasted cumulative PrEP initiations through 2025. Based on this model, the world will surpass 10 million global cumulative PrEP initiations by Q1 2025, and by Q4 it will reach 12.4 million. This data reflects oral PrEP initiations, **not** continued use.

Cumulative PrEP Initiations, 2016–2025



- ⇒ PrEP users and PrEP initiations are different. Data on initiations do not distinguish between new versus repeat PrEP users. We are unable to predict if the UNAIDS goal of achieving 10 million PrEP users by 2025 will be successful. This forecast shows the possibility and the promise of current momentum. But fulfilling this promise is not certain. It depends on overcoming key challenges around access and choice.
- These updates from AVAC's Global PrEP Tracker analyze trends and showcase data reflecting Q4 2023 updates.

Global Milestones from October – December 2023

The PrEP Tracker documented 6,220,507 cumulative initiations of some form of PrEP worldwide: 6,216,310 oral PrEP (including TDF/FTC, event-driven oral PrEP, and F/TAF), 2,695 injectable cabotegravir (injectable CAB), and 1,502 dapivirine vaginal ring (DVR).

◆ Global PrEP uptake increased by about 500,000 PrEP initiations this quarter, modestly slower than in the last two quarters. Last year at this time, global PrEP initiations stood at 3.8 million, so this year's increase demonstrates relatively high uptake compared to the previous year.

Country-level milestones

- South Africa surpassed 1.3 million oral PrEP initiations; Zimbabwe surpassed 250,000 initiations. In less than a year, Malawi more than doubled its oral PrEP initiations and now stands at over 100,000. Rwanda surpassed 30,000, Cote d'Ivoire surpassed 20,000, and Sierra Leone surpassed 10,000 initiations.
- Other countries outside of Africa had modest increases in oral PrEP uptake: Brazil counted over 150,000 initiations; the Philippines surpassed 20,000 initiations

PrEParing for New Products

Open-label Extensions / Post-trial Access Projects Product Introduction

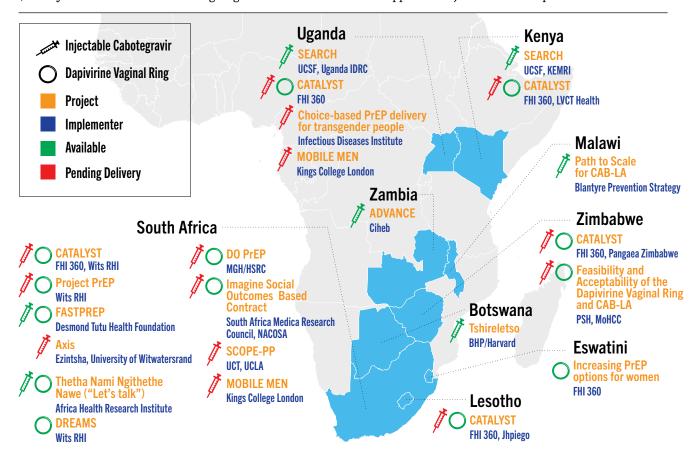
Product Updates

- ☼ In February, Zambia launched its injectable CAB program, making it the first country outside the US to include injectable CAB in its HIV prevention services. And the Desmond Tutu Health Foundation in South Africa also announced "the first jab" of injectable CAB administered in its FASTPrEP study. As these programs get underway, more country approvals and product launches are anticipated.
- This quarter, Namibia approved the dapivirine vaginal ring (DVR), bringing the total to 11 approvals in the region.
- Uruguay approved F/TAF (Descovy). Additionally, Descovy is under review in Mexico.
- Peru, Nigeria, Thailand, and Uganda have approved injectable CAB.
- Injectable CAB is under review in the United Kingdom, Cote d'Ivoire, Mozambique, Rwanda, Tanzania, and Canada. CAB was granted WHO prequalification status, finding it to be safe, effective, and supported by studies.
- ◆ PrEPWatch added 35 new country pages detailing the status of drug registration for PrEP products, data on PrEP initiation by product, country-level PEPFAR targets, and links to key policy documents and guidelines.

- ◆ At ICASA, the Population Council presented preliminary results from a DPP acceptability study with adolescent girls and young women (AGYW) in Zimbabwe. The study found 2/3 of participants preferred a proxy for the DPP (which combines contraceptives and PrEP) compared to 1/3 who preferred taking oral PrEP and oral contraceptive pills separately. Results from another DPP acceptability study in South Africa are forthcoming and the HPTN 104 study is expected to kick off later this year, expanding the evidence on end-user experiences.
- ◆ Alongside oral PrEP, introduction of the dapivirine vaginal ring (DVR) and injectable cabotegravir (CAB) will play a role in the scale of PrEP uptake. At least 1.2 million vials of CAB are now available for procurement and prevention programming in lowand middle-income countries over the next two years. At the same time, one million vaginal rings are projected to be distributed over the next two years. But even with these additional options, oral PrEP will continue to play a big role in PrEP uptake in the short term.
- To raiful global perspective on product introduction, check out the Integrated Study Tracker and Country Planning Matrix and see our graphic on the status of implementation scient studies on the next page.

New Product Introduction Update: Spotlight on Eastern and Southern Africa

As of January 2024, 17 IS studies are ongoing. Ten other studies await supplies of injectable CAB, expected in the first half of 2024.



The Latest R&D in the Prevention Pipeline



In 20 years of research and across 12 trials, only two positive signals have been observed in HIV vaccine and antibody studies.

HIV Vaccine and Antibody Efficacy Trials to Date											
Over 20 years and 12 trials, only two positive signals have been observed.											
Year End	2003	2003	2007	2007	2009	2013	2020	2021	2021	2023	2024
Trial, Product/ Clade	VAX004, AIDSVAX B/B	VAX003, AIDSVAX, B/E	STEP, MRK-Ad5, B	Phambili , MRK-Ad5, B	Thai Prime- Boost/RV 144, ALVAC- AIDSVAX, B/E	HVTN 505, DNA+Ad5, A/B/C	Uhambo/ HVTN 702, ALVAC/gp120 MF59 boost	Imbokodo/ HVTN705, Ad26 Mosaic/gp140 clade C boost	AMP Studies, VRC01 monoclonal antibody Botswana, Brazil, Kenya, Malawi, Mozambique, Peru, South Africa,	Mosaico/ HVTN706, Ad26 Mosaic/gp140 mosaic boost	PrEPVacc, DNA-HIV-PT123 (clade C) with AIDSVAX, B/E or with MVA A/E, CN54gp140
Location	Canada, Netherlands, Puerto Rico, US	Thailand	Australia, Brazil, Canada, Dominican Republic, Haiti, Jamaica, Peru, Puerto Rico, US	South Africa	Thailand	us	South Africa	Malawi, Mozambique, South Africa, Zambia, Zimbabwe	Switzerland, Tanzania, US, Zimbabwe	Argentina, Brazil, Italy, Mexico, Peru, Poland, Puerto Rico,	South Africa, Tanzania, Uganda
Number of Trial Participants	5,417	2,546	3,000	801	16,402	2,500	5,400	2,600	2,699 Did not reduce risk	3,900	1,512
Result	No effect	No effect	Stopped early for futility; potential increased HIV risk among Ad5- seropositive, uncircumcised men	Immunizations halted based on STEP result	Modest effect (31.2%)	Stopped early for futility; vaccine regimen did not prevenat HIV infection nor reduce viral load	Stopped early for futility	No efficacy	overall, but VRC01 did reduce risk of acquisition in small subset of HIV strains classified as "highly sensitive" to VRC01	No efficacy	Stopped early for futility

- 1 In December 2023, the PrEPVacc team announced no efficacy from the vaccine candidates in the study. This was following a review by the independent data monitoring committee. PrEP interventions in the study, comparing TAF/FTC (Descovy) to TDF/FTC (Truvada) will continue. The termination of vaccine arms of the PrEPVacc study represents the most recent HIV vaccine or antibody trial to end without efficacy.
- Ensuring equitable access to safe, effective, and affordable vaccines involves advocacy across multiple areas. AVAC covers the issues in a series of advocates' guides, From the Lab to the Jab.

Prevention Playlist

AVAC develops a wide range of materials and resources to inform decision making and action. Check out the latest:



JOIN

- CROI 2024 Community Breakfast Club Webinars
 - Session 1: Spotlight on Social and Behavioral Sciences at CROI 2024.
 - Session 2: Living with HIV for a Lifetime— It's Complicated.
 - Session 3: Research Roundup: Scientists and Advocates Offer Fresh Perspectives and Seasoned Analyses of CROI 2024 Research.



- Dong-lasting HIV jab marks 'new era for prevention' in *Africa*, The Telegraph.
- GPP Body of Evidence, demonstrating the power of GPP
- 🌖 Global HIV Prevention Roadmap for Key Populations
- Mobilizing People of Faith to Overcome Homophobia
- What can modelling tell us about the scale-up of CAB for PrEP?
- New licensing agreement set to double HIV vaginal ring supply in Africa



WATCH AND LISTEN

- HIV Cure and the Environment: How location informs cure research
- AVAC in Conversation with NIAID's Jeanne Marrazzo
- PrEPVacc: An in-depth look at the trial and what's next
- Cervical cancer awareness month webinar series

- Reporting the African Science Story: Decoding scientific research to support public health in Africa
- Sex, Gender & HIV Cure Research
- The Adolescent Medicine Trials Network (ATN): Research addressing HIV health inequities among US adolescents and young adults.



- *From the Lab to the Jab*, a series of advocates' guides to advance access to safe, effective and affordable vaccines.
- The HIV Prevention Ambassador Training Package and *Toolkit* prepares potential and current PrEP users to be leaders—or "Ambassadors"—in the rollout of PrEP.
- TIVE Prevention User Journey Tool supports providers and adolescent girls and young women to explore what prevention method fits best in their lives.
- ? PrEP for Pregnant and Lactating People-Clinical Guidelines and Training Package
- Communicating the PrEP Category to Adolescent Girls and Young Women—a strategy brief to support demand generation for PrEP among AGYW.
- Online Course: Unlocking the Potential of Implementation Science and Good Partcipatory Practices.

About AVAC



AVAC is an international non-profit organization that leverages its independent voice and global partnerships to accelerate ethical development and equitable delivery of effective HIV prevention options, as part of a comprehensive and integrated pathway to global health equity. Follow AVAC on Twitter @HIVpxresearch; find more at www.avac.org, www.prepwatch.org and www.stiwatch.org.