
Updates on PrEP & PEP Guidelines

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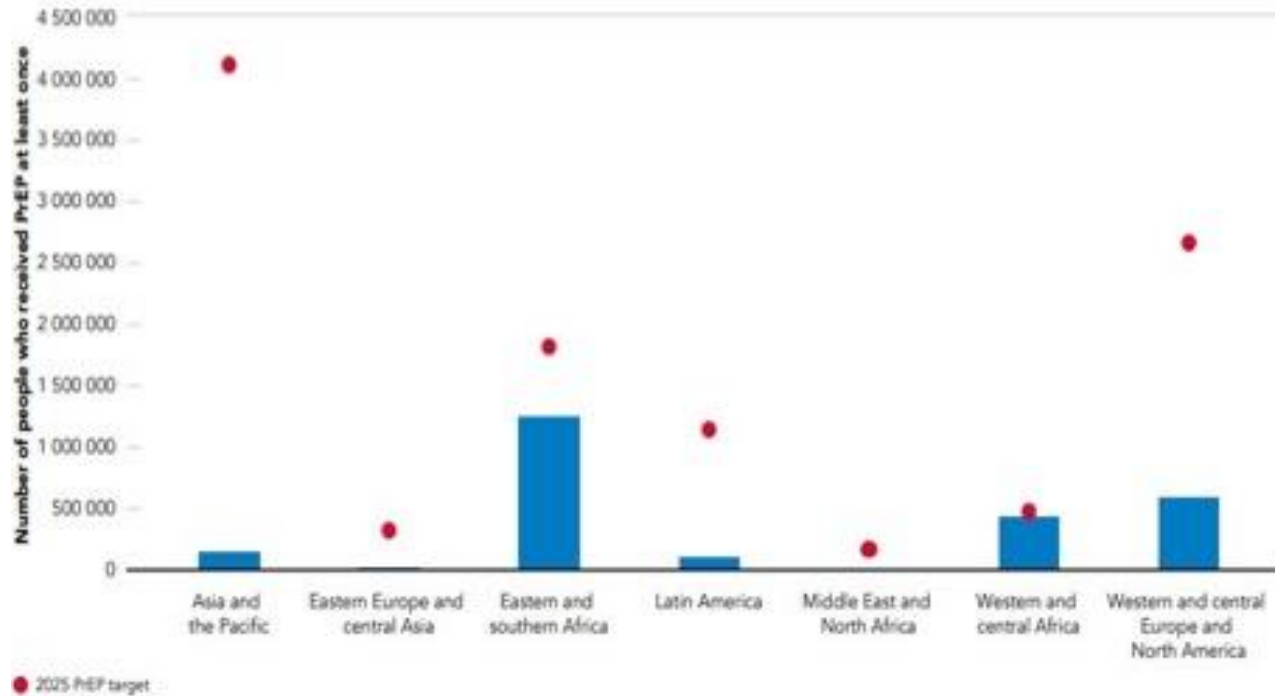
UNAIDS-RST & WHO-HQ

CONTEXT

Full potential of PrEP not being recognized – target (2025) and users (2022) by the region

Except for one region, PrEP use trails very far behind the estimated need

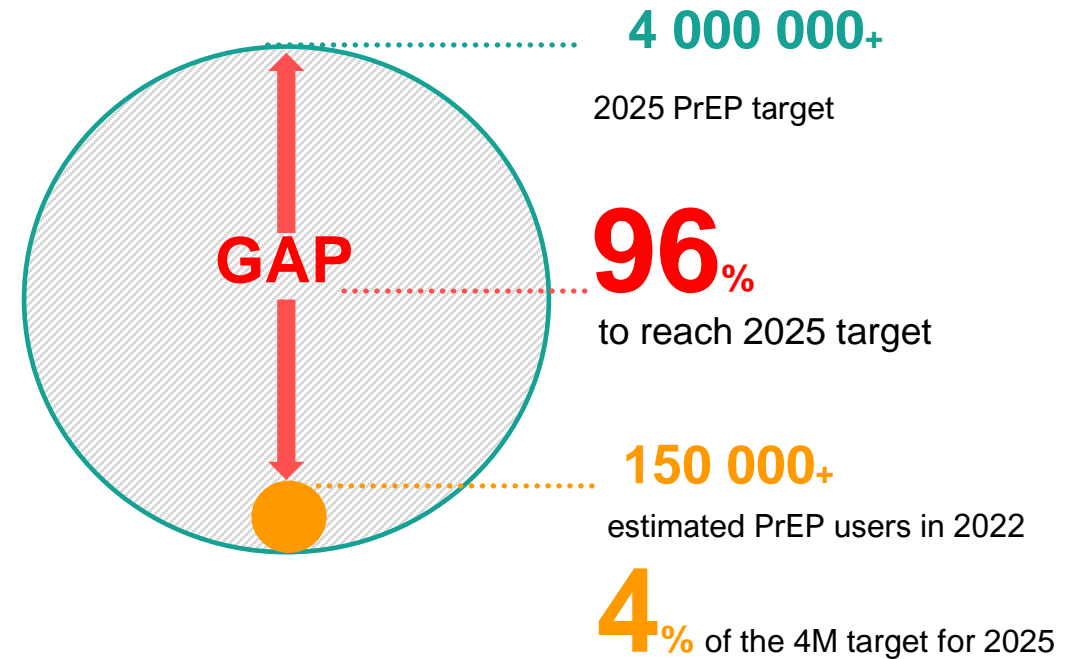
Figure 2.6 Number of people who received PrEP at least once during the reporting period, by region, 2022, and 2025 target



Source: UNAIDS Global AIDS Monitoring, 2023 (<https://aidsinfo.unaids.org/>); Stover J, Glaubius R, Teng Y, et al. Modeling the epidemiological impact of the UNAIDS 2025 targets to end AIDS as a public health threat by 2030. PLoS Med. 2021;18(10):e1003831.

Source: Prepared by www.aidsdatahub.org based on Global AIDS Monitoring; Information from national programmes; and National Commitments and Policy Instrument

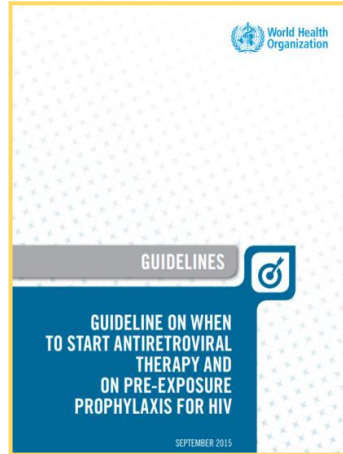
PrEP Uptake in Asia-Pacific is too slow to impact the HIV epidemic



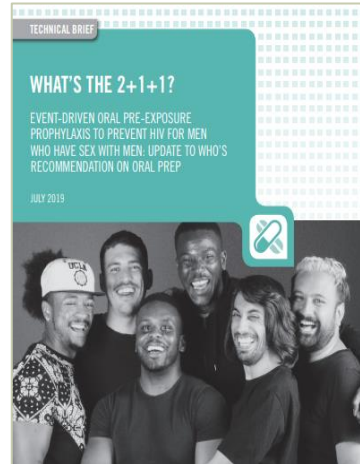
PrEP: Over a decade of integrating evidence into guidelines



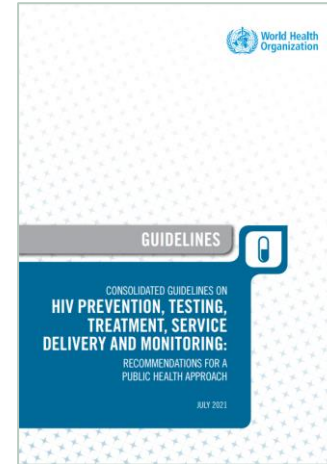
2012



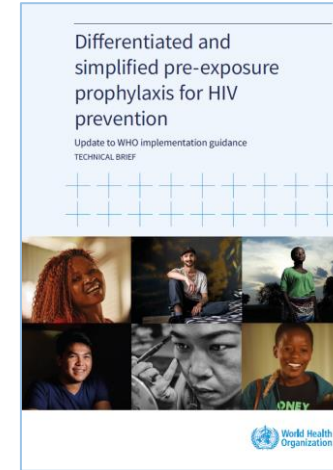
2015/16



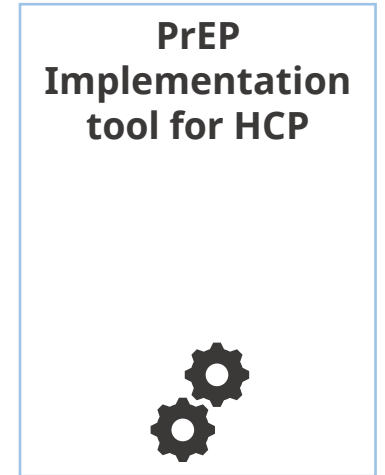
2019



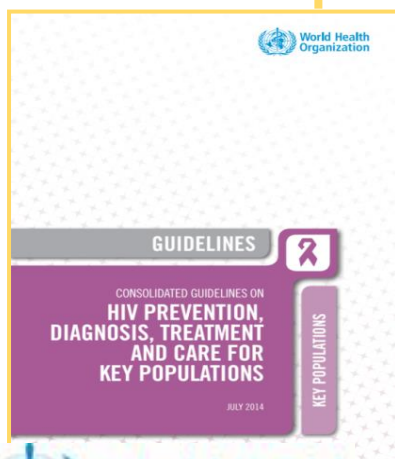
2021



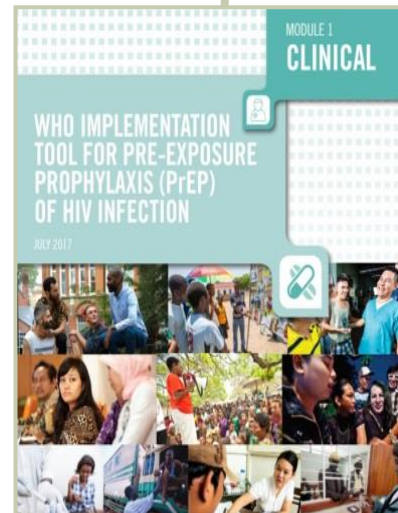
2022



2023/24



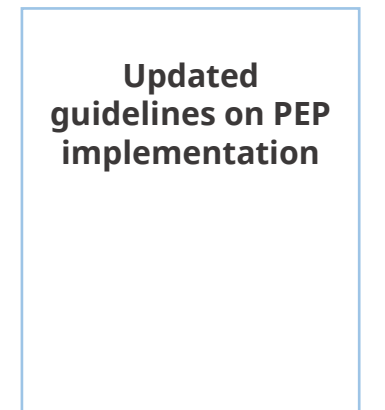
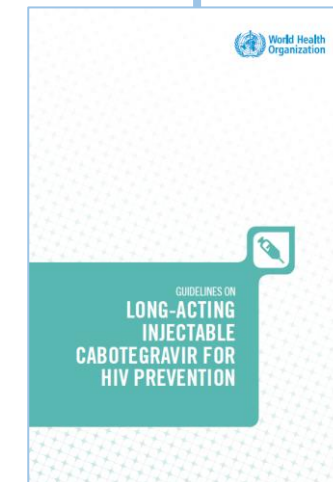
2014



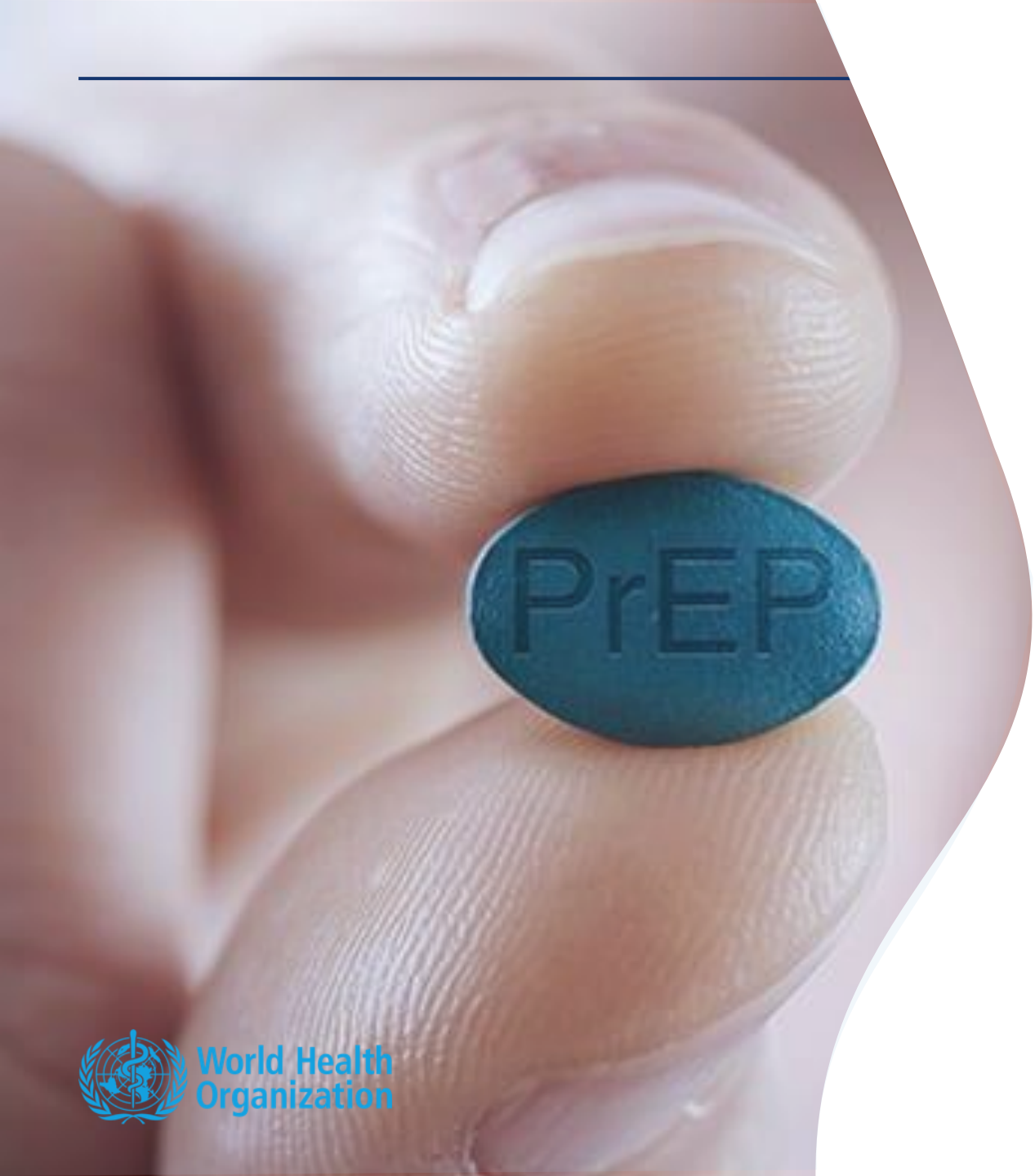
2017



WHO recommends the dapivirine vaginal ring as a new choice for HIV prevention for women at substantial risk of HIV infection



Guidelines



Updated guidance on oral PrEP

WHO Guidance for Simplified & Differentiated PrEP - 2022

1. PrEP and kidney function
2. PrEP and hepatitis B and C
3. HIV self-testing (HIVST) for PrEP
4. Starting, using, and stopping oral PrEP
5. Differentiated PrEP service delivery: WHEN, WHERE, WHO and WHAT to deliver

Focus of the technical brief is oral PrEP, with considerations for DVR and CAB-LA

Differentiated and simplified pre-exposure prophylaxis for HIV prevention

Update to WHO implementation guidance
TECHNICAL BRIEF



Oral PrEP and Kidney Function

Population	Initiation	Follow-up
Individuals <30 years with no kidney-related comorbidities	Optional	If no test at initiation or Cr CL \geq 90 mL/min, follow-up is optional. If baseline test result is <90 mL/min, conduct follow-up screening every 6 to 12 months, if available.
Individuals 30–49 years with no kidney-related comorbidities	Optional/ Conduct once within 1 - 3 months of oral PrEP initiation, if available.	If baseline test Cr Cl \geq 90 mL/min, further screening is optional until age 50 or kidney-related comorbidities develop. If the baseline test result is <90 mL/min, conduct follow-up screening every 6 - 12 months, if available.
Individuals 50 years and older -OR- Individuals of any age with kidney-related comorbidities -OR- Individuals with previous creatinine screening of <90 mL/min	Conduct once within one to three months of oral PrEP initiation, if available.	Conduct follow-up screening every six to 12 months, if available.

Waiting for kidney function test results should not delay starting PrEP

Oral PrEP and Viral Hepatitis B and C

- PrEP services provide a unique opportunity to screen for hepatitis B and hepatitis C infection and address public health issues
- **TDF-based daily or ED PrEP and the Dapivirine vaginal ring can be safely offered to persons with HBV or HCV infection.**
- **HBV and HCV testing should not be a barrier to PrEP initiation or use. Not a requirement for PrEP use.**
- **Hepatitis B:** Testing oral PrEP users for Hepatitis B once, at or within 1-3 months of PrEP initiation, is strongly encouraged where feasible.
 - If the test is positive, referral for management and treatment of hepatitis B
 - If the test is negative, complete the vaccination schedule
- **Hepatitis C:** A diagnostic test for HCV is strongly encouraged at or within 3 months of PrEP initiation and every 12 months thereafter where PrEP services are provided to those at high risk of HCV infection.
 - If the test is positive should be referred for further assessment and treatment for hepatitis C infection.

**CAB-LA should not be initiated in people with advanced liver disease or acute viral hepatitis
It should be discontinued if hepatotoxicity is confirmed.**

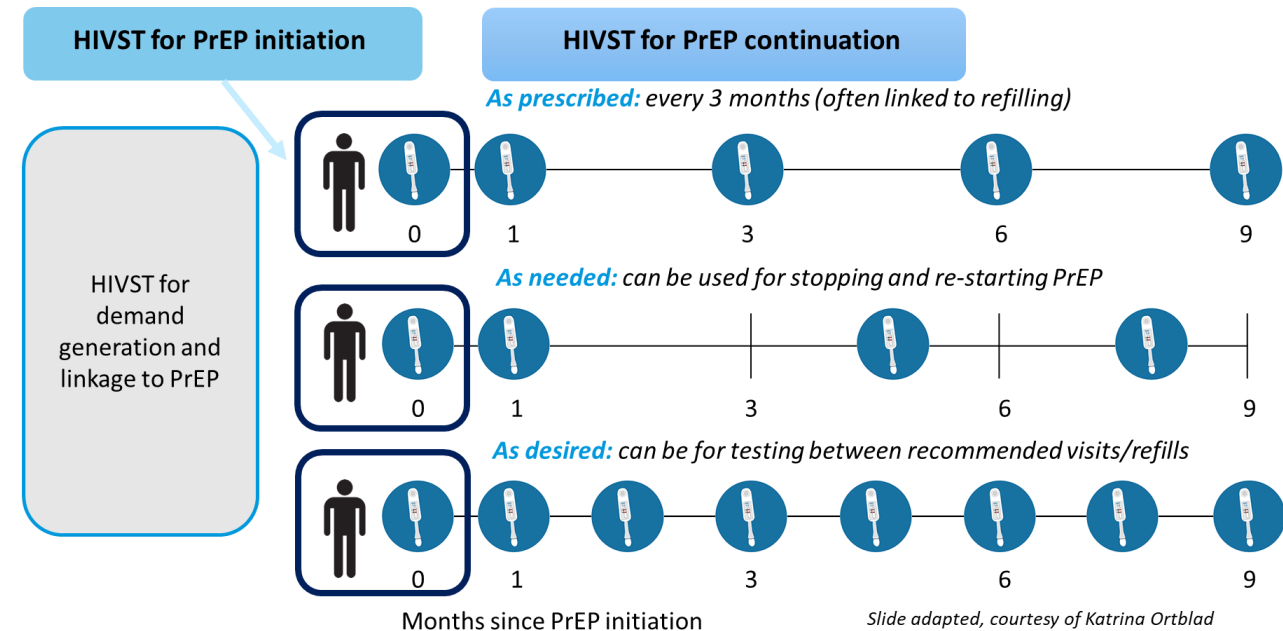
WHO recommends HIVST may be used for PrEP initiation, re-initiation and continuation

HIV testing is required prior to starting or restarting PrEP and should be conducted regularly (e.g., every 3 months) during PrEP use.

New recommendation:

HIV self-testing may be used to deliver pre-exposure prophylaxis, including for initiation, re-initiation and continuation (conditional recommendation, low certainty evidence)

- HIVST: additional testing choice, that can **complement existing HIV testing strategies** for **oral PrEP and DVR**, and may:
 - **reduce clinic visits**
 - be preferred for **convenience, privacy, self-managed care**
 - Improve uptake, persistence, and effective use of PrEP
- **Role of HIVST with CAB-LA is currently unclear.**
- Programmes can consider HIVST for oral PrEP and DVR users
 - **Clear and concise messaging**
- Where HIVST-supported PrEP delivery models reduce clinic visits, important that **comprehensive services** to address the diverse needs of PrEP users still provided
- HIVST can be used to increase confidence in oral PrEP by showing that your HIV status remains negative during PrEP use.
- **Operational research on HIVST-supported PrEP delivery, e.g. optimizing delivery, understanding impact, and costs.**



Role for HIVST with CAB-LA currently unclear

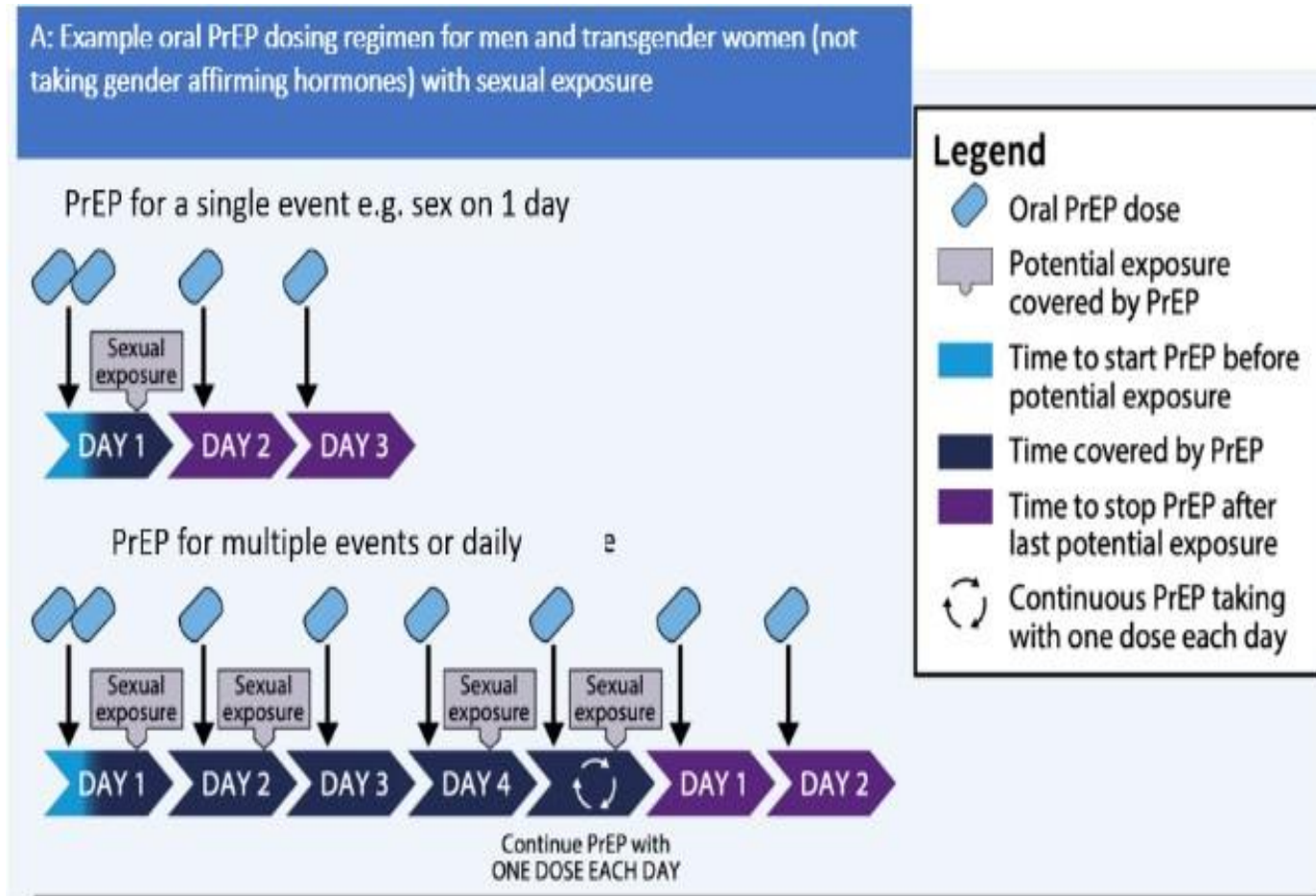
Oral PrEP dosing regimen: All men* and transgender women not taking gender-affirming hormones

- **How do you take it?**

- **Starting:** Two doses 2–24 hours before potential exposure
- **Using:** Continue to take **one dose** per day while having potential exposures
- **Stopping:** Stop using **two days** after the last potential exposure

- **What else?**

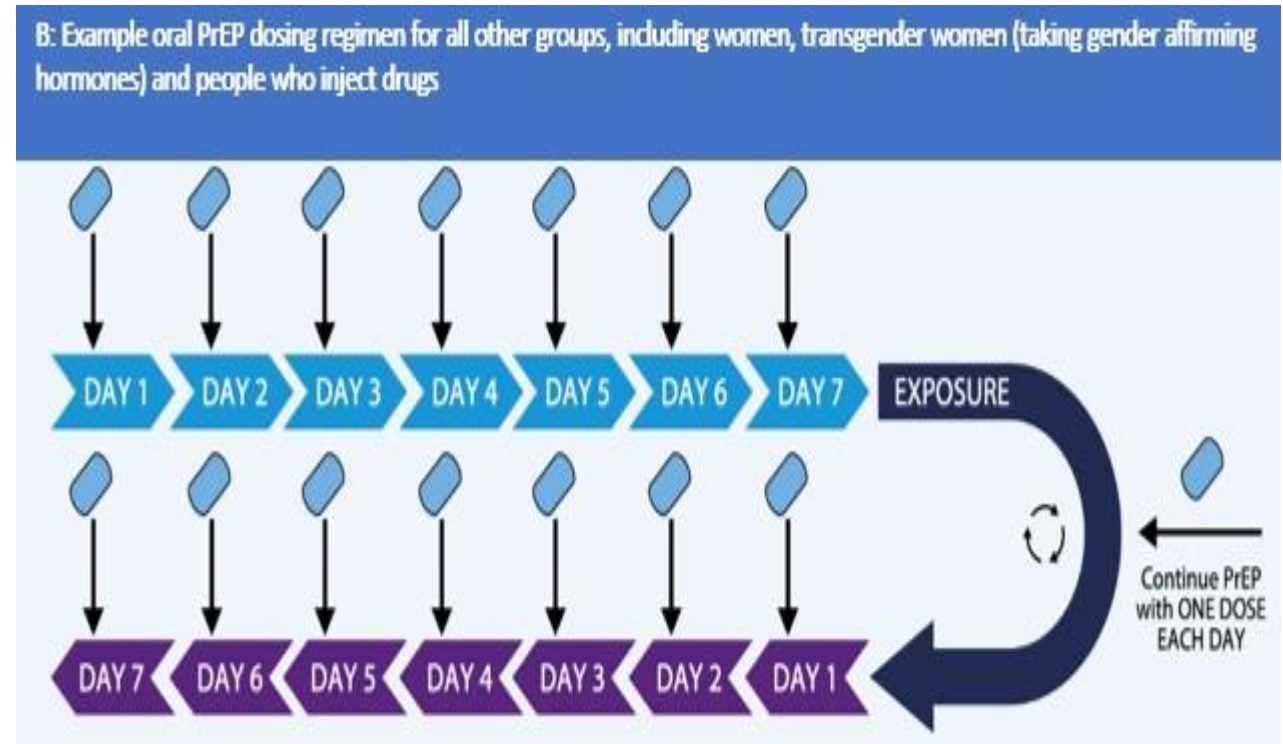
- This dosing is **only** effective for sexual exposure
- This is **only** for TDF based PrEP
- Hepatitis B infection is **not** a contraindication
- Can be used for one event **or** continued use



Oral PrEP dosing regimen: Everyone else

(e.g. women**, transgender men, transgender women using gender affirming hormones, people who use drugs, and people who do not gender identify)

- **How do you take it?**
 - **Starting:** One dose per day for **7 days** before potential exposure
 - **Using:** Continue to take **one dose** per day while having potential exposures
 - **Stopping:** One dose per day for **7 days** after last potential exposure
- **What else?**
 - Is effective for sexual exposure and exposure through injecting drug use █



Initiation, continuation & stopping of oral PrEP among different populations

Population	Starting oral PrEP	Using oral PrEP	Stopping oral PrEP
Cisgender men (includes MSM, MSW) and transgender women who are not taking estradiol-based (gender-affirming) hormones (Hepatitis B is not a contraindication)	Take a double dose 2–24 hours before potential sexual exposure (ideally closer to 24 hours before potential exposure)	One tablet daily	Take one dose per day until two days after the day of the last potential sexual exposure
Cisgender women (includes Female Sex Workers), transgender men and transgender women taking estradiol-based hormone	Take one dose daily for seven days before potential exposure	One tablet daily	Take one dose daily for seven days after the last potential sexual exposure
Persons using oral PrEP to prevent HIV acquisition from injecting drug use (PWID)			

Differentiated services for PrEP support scale-up, access & acceptability

Differentiated PrEP services:

- Person- and community-centred (i.e. adapted to needs & preferences)
- Support making services more accessible and acceptable
- May improve uptake, persistence, effective use, and health system efficiency
- **Task sharing/shifting** makes the best use of available human resources
- **Supported by:**
 - Appropriate clinical oversight and referral pathways
 - Logistics systems
 - Adequate infrastructure
 - Integrated data systems

Building block	PrEP initiation, initial follow-up (0–3 months), and re-initiation			PrEP continuation (3+ months)	
	Initiation	Initial follow-up (0–3 months) (if required)	Re-initiation after discontinuation	PrEP refill	Follow-up
Where: Service location (e.g., primary health care facility, community setting, virtual setting)	Locations for PrEP assessment and initiation	Locations for initial follow-up	Locations for PrEP re-initiation	Locations where PrEP refills can be collected	Locations where follow-up services will be provided
Who: Service provider (e.g., physician, nurse, pharmacist, peer)	Service provider/s authorized to assess for and initiate PrEP	Service providers who can carry out initial follow-up visit/s	Service provider/s authorized to re-initiate PrEP	Service provider/s who can dispense PrEP refills	Service provider/s who conduct follow-up
When: Service frequency (e.g., monthly, every 3 months)	Timing of PrEP assessment and initiation	Timing of initial follow-up	Timing of PrEP re-initiation	Frequency of PrEP refill visits (length of supply)	Frequency of follow-up services
What: Service package (including HIV testing, clinical monitoring, PrEP prescription and dispensing, and comprehensive services)	Service package for PrEP assessment and initiation	Service package at initial follow-up	Service package for PrEP re-initiation	Service package with PrEP refill	Service package with follow-up

Integration of STI and PrEP services: an opportunity

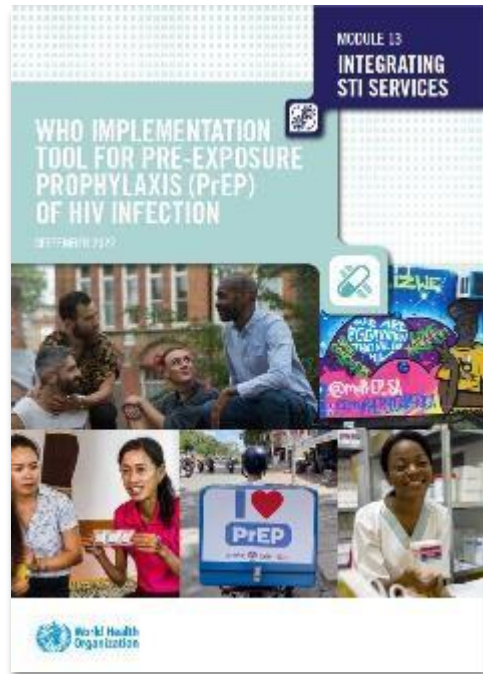
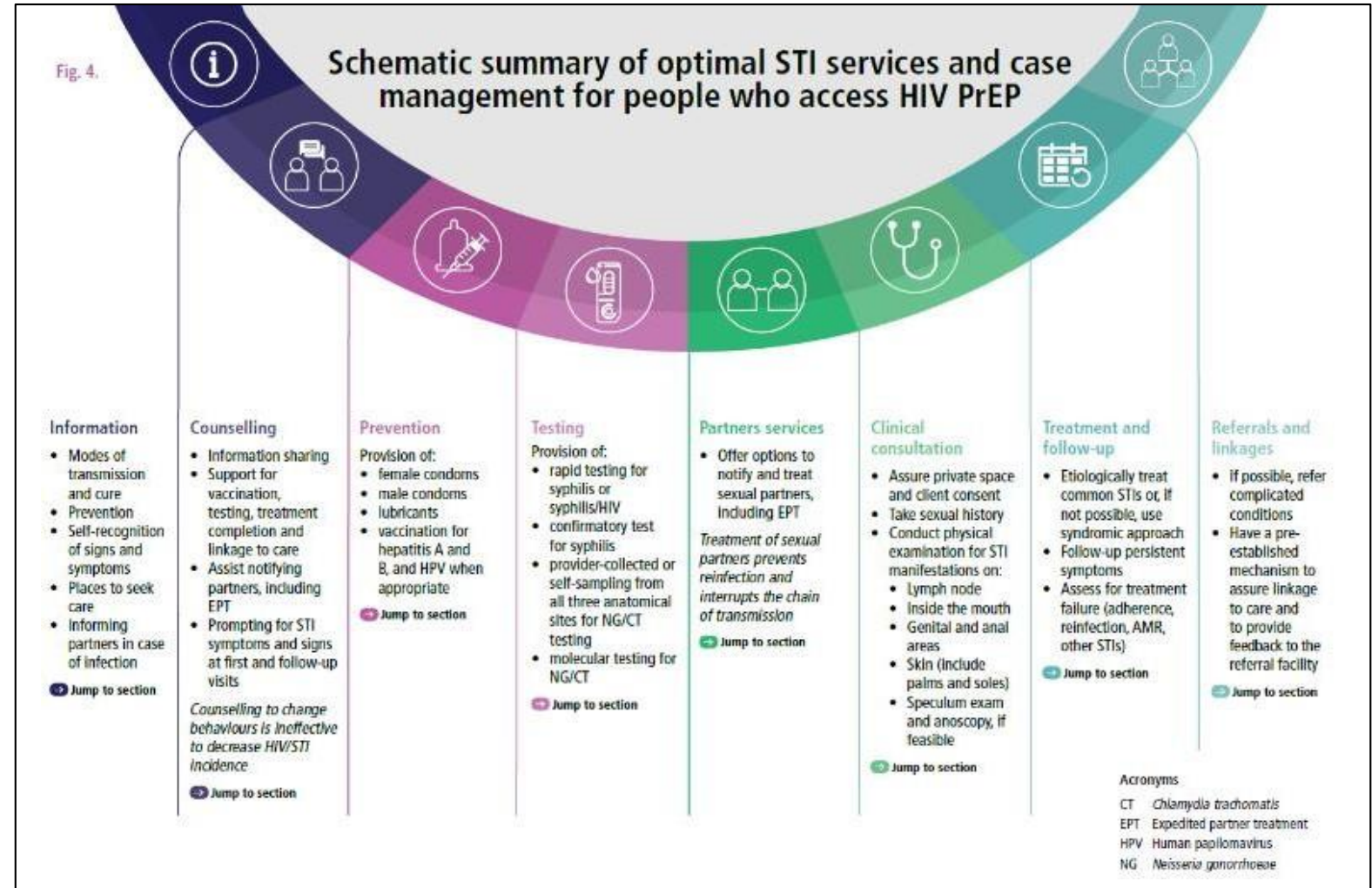


Fig. 4.





New PrEP products:
DVR and CAB-LA

Dapivirine vaginal ring (DVR)

Important to have choices

Recommendations (2021)

The dapivirine vaginal ring may be offered as an additional prevention choice for women^a at substantial risk of HIV infection as part of combination prevention approaches (*conditional recommendation, moderate-certainty evidence*).

^aFor the recommendation on the dapivirine vaginal ring, the term women applies to cisgender women, meaning women assigned female at birth. There is no research at this time to support the dapivirine vaginal ring for other populations.

Source: *Guidelines: updated recommendations on HIV prevention, infant diagnosis, antiretroviral initiation and monitoring (12)*.

- **Women-initiated, easy-to-use, silicone vaginal ring** containing dapivirine (NNRTI)
- Dapivirine is released slowly into the vagina over 1 month (continuous protection if left in situ)
- **The risk of HIV-1 infection is reduced 24 hours after ring insertion**
- Current evidence suggests that oral daily PrEP, when taken as prescribed, has greater efficacy for HIV prevention than DVR
 - High safety, rare adverse effects and no interactions with contraceptives
 - Phase III trials demonstrate safety and efficacy (~30%)
 - Open-label studies suggest higher efficacy (~50 – 70%)
 - Safety and efficacy during pregnancy and lactation
- Regulatory approval or import authorization in 11 several African countries
- Acceptability and feasibility assessment underway in 4 Asia-Pacific countries (UNAIDS, funded by DFAT)
- This is only for cisgender women



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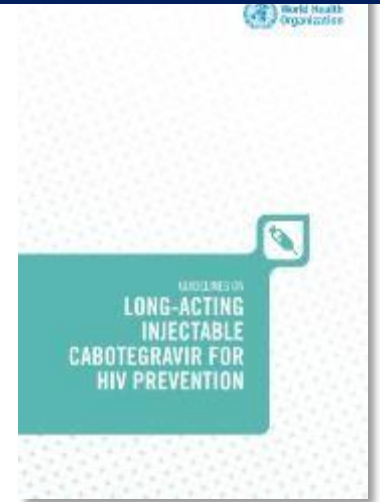
WHO recommends the dapivirine vaginal ring as a new choice for HIV prevention for women at substantial risk of HIV infection

Long-acting injectable cabotegravir (CAB-LA)

Important to have choices

Long-acting injectable cabotegravir may be offered as an additional prevention choice for people at substantial risk of HIV infection, as part of combination prevention approaches (*conditional recommendation; moderate certainty of evidence*).

- Intramuscular injection every 8 weeks (with first two, 4 weeks apart)
- Phase III trials (HPTN 083 and 084) showed high efficacy
- Values and preferences from potential users show CAB-LA provides an opportunity to address adherence related challenges of oral PrEP
- Regulatory approval in 13 countries* including Philippines and Malaysia
- Voluntary license agreement with Medicine Patent Pool for generic manufacturing



Outstanding critical issues

- Drug resistance
- Safety during pregnancy and breastfeeding
- HIV testing strategies, frequency
- Limited representation of some KP (TGM, SW)





Post-exposure prophylaxis (PEP)

Post-exposure prophylaxis (PEP)

Recommendations (2016)

Overall

An HIV PEP regimen with two ARV drugs is effective, but three drugs are preferred (conditional recommendation, low-certainty evidence).^a

Adults and adolescents

TDF + 3TC (or FTC) is recommended as the preferred backbone regimen for HIV PEP (strong recommendation, low-certainty evidence).^a

DTG is recommended as the preferred third drug for HIV PEP (strong recommendation, low-certainty evidence).

When available, ATV/r, DRV/r, LPV/r and RAL may be considered as alternative third drug options for PEP (conditional recommendation, low-certainty evidence).

- PEP should be offered and initiated as early as possible for all individuals with exposure that has the potential for HIV transmission, preferably within 72 hours

Issues with use of PEP in HIV prevention

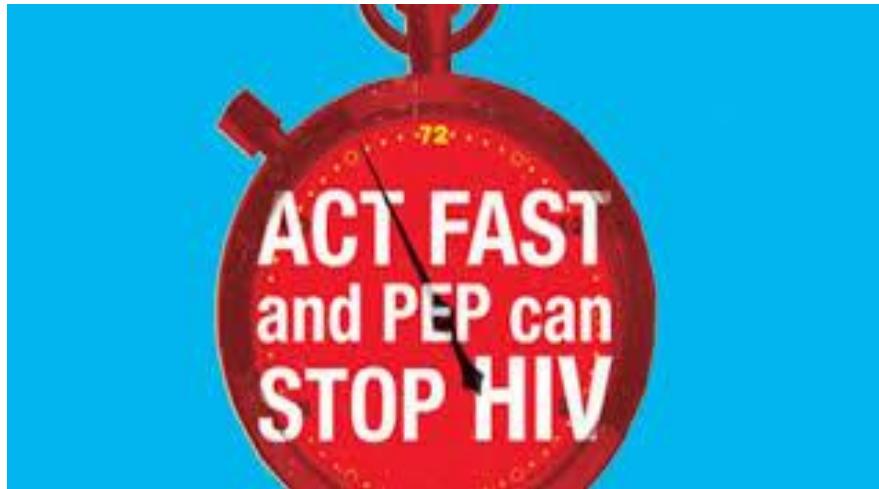
- Knowledge about PEP is low in groups affected by HIV
- Limited and medicalized access
- PEP is under-utilized
- PEP is often started late
- Completion rate is sub-optimal

To improve the completion rate

- Adherence support and a full 28-day course of medication during the first clinic visit should be provided

When thinking about PEP

- Think about STIs and emergency contraception
- Using a “PEP contact” to think about longer-term prevention, incl. PEP to PrEP



PEP and PrEP

- Transitioning from PEP to PrEP
 - Some people on PEP may have repeated exposure to HIV
 - Discuss with clients if they may benefit from transitioning to PrEP
 - Clients who complete the 28-day PEP regimen and wish to use PrEP can start PrEP without a gap with a negative HIV test result
 - Eligibility and management remain the same as other PrEP clients
 - Immediate transition to PrEP is preferable for individuals with ongoing exposure to HIV.
- Transitioning from PrEP to PEP
 - Clients who take PrEP as prescribed don't need PEP
 - If PrEP is not used as directed or stopped, there may be a risk of acquiring HIV if exposed, PEP can be an important HIV prevention strategy during these periods.
 - To assess if PEP is needed, consider the type of exposure, timing, time since PrEP was last taken or # the of missed PrEP doses

DSD options for PEP is gaining attention

SUMMARY

What's next?

WHO PrEP guideline updates

- Incorporate all three WHO-recommended PrEP products
- Includes simplified and differentiated PrEP guidance
- Includes simplified testing and dosing
- Includes new recommendations on HIV testing
- Promotes integrated service delivery

PEP: simplified and differentiated guidance

- Under utilized prevention option (difficulties accessing it in many countries)
- Strengthen PEP to PrEP
- Investigating the package and looking at differentiated models

Thank you!

Thanks to the **WHO HHS Testing, Prevention, and Populations** team and **UNAIDS-RST** (Brigitte Quenum) for contributions to this presentation.

Contact the WHO PrEP team for questions or comments:

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- **Sushena Reza-Paul:** rezapauls@unaids.org

WHO's global work on PrEP:

<https://www.who.int/teams/global-hiv-hepatitis-and-stis-programmes/hiv/prevention/pre-exposure-prophylaxis>

WHO Global PrEP Network webinars:

<https://www.who.int/groups/global-prep-network>

- **WHO technical brief on PrEP implementation guidance:**
- <https://www.who.int/publications/i/item/9789240053694>
- **WHO guidelines on CAB-LA:**
- <https://www.who.int/publications/i/item/9789240054097>
- **WHO consolidated key population guidelines:**
- <https://www.who.int/publications/i/item/9789240052390>
- **WHO consolidated HIV guidelines:**
- <https://www.who.int/publications/i/item/9789240031593>
- **WHO PrEP Implementation Tool:**
- <https://www.who.int/tools/prep-implementation-tool>
- **STI module of WHO PrEP Implementation Tool:**
- <https://www.who.int/publications/i/item/9789240057425>
- **Further updates to WHO PrEP Implementation Tool expected in 2024** (starting with provider module)
- **Updated PEP Guideline in 2024**