

# What is new in treatment and diagnostics guidelines

# HIV, Viral Hepatitis and Sexually Transmitted Infections

Marco Vitoria WHO/UCN/HHS Geneva, Switzerland

05 Dec 2024

Hybrid Joint Meetin







# HIV what's new

2 December 2024 Implementing WHO evidence-based interventions for adolescents and young	7 November 2024 Preventing HIV misdiagnosis: E	october 2024 Iminating HIV, viral repatitis, sexually transmitted infections and tuberculosis as public health	A Cotober 2024 Optimization of second-line and third-line antiretroviral therapy for people living with HIV Download Read More
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# What's new in HIV testing guidance ?





## **Expanding self-testing**

### Self-testing is safe, effective and empowering

- Recommended across conditions and diseases including HIV, hepatitis C and syphilis including dual HIV/syphilis self-tests
- Affordable and WHO prequalified self-tests increasingly available (\$1) and in the pipeline
- ST used in facilities, communities, pharmacies and through partners, peers and networks in +100 countries
- Check out the new self-testing tool kit for more resources: <u>https://www.who.int/tools/self-testing-implementation-toolkit-for-hiv-hcv-and-syphilis</u> (<u>launched October 2024</u>)

### HIVST now recommended more broadly in facilities (New recommendation)

- Increases coverage when needed
- Replaces risk-based screening tools which miss too many undiagnosed PLHIV

### HIVST now recommended for expanding prevention access (New recommendation)

- PEP delivery at start and completion
- Initiation, re-initiation and continuation of PrEP (oral & ring w/ ongoing research needed for LA-PrEP)
- Greater access, many benefits, lower costs
- No risks of increasing drug resistance at population-level
- Oral and blood-based ST both acceptable









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3

# What's new in HIV testing guidance ?



## **Prioritize network-based testing services**

### Partner services (New and updated recommendation)

- New recommendation on STI partner services
- Provider-assisted partner services should be encouraged as still most effective strategy
- Provide options based on client needs (partner referral, provider-assisted, expedited partner therapy\*)
- Services must always be voluntary

## Social network testing now for all with risk (New and updated recommendation)

- ST, community-led, multiple rounds, virtual or in-person
- Do not need incentives or in-depth training
- More opportunities and work to optimize with AI

### **Prioritize and integrate services**

- Prioritize and integrate based on capacity and resources
- Strategic opportunities with ANC, male partners, KP
- Consider dual HIV/syphilis RDT/ST and HBV within family and household outreach
- WHO tool kit on network-based testing planned for Q1 2025



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What are network-based testing services?

Range of approaches (Partner services, social network, family/household testing) that extend testing by supporting individuals to disclose to, refer for testing, and/or distribute self-tests to partners, families, and other members of their social networks.

Recommended across HIV, viral hepatitis and STIs

\*EPT is only an option for curable STIs



# What's new in HIV testing guidance ?





Deprioritize recency testing in routine HTS programmes

WHO guidance recommends **<u>against</u>** recency testing in routine HTS

### Findings from evidence review:

- No study showed evidence of effectiveness or clinical benefit
- Variable acceptability, with many finding intervention unacceptable
- Effects on social harm were uncertain.
  - Concerns about social harms such as stigma, conflict among community members, dissatisfaction with services and increased intimate partner violence were reported by providers and clients.
- Need to prioritize limited HTS resources toward impactful approaches
  - Very limited feasibility due to requirements for substantial resources, time, planning, training and monitoring.
  - High costs as does not replace diagnostic testing and requires additional tests and service costs (test kits, VL, implementation).
  - Concerns about reduced equity due to diversion of funds

### What is recency testing?

Assay used within an algorithm to estimate if HIV infection occurred in past 1-year

No WHO PQ recency assays

Guidance on recency for surveillance still supported and guidance unchanged



# 6

# What's coming in 2025 on HIV testing and diagnostics?

- Multiplex and integrated testing services in primary and self care models
  - WHO policy brief on integration in development for 2025
  - WHO guidelines expected for late 2025/early 2026
- Simplified and multi-disease quality management systems for testing in non-lab settings to capacitate countries and enable future programme sustainability
  - WHO tool kit launch for Q1 2025
  - WHO & Global Fund Next Gen SI to support global quality and market strategy for sustainability
  - Important to leverage emerging financing to move on QA for local production as part of this
- WHO promoting universal design principles to make testing accessible to all users
  - Addressing lack of accessibility among people with disabilities end users and providers
  - And contribute to the broader mandate for the WHA Diagnostics Resolution
- What to expect market-wise for 2025-2026?
  - More self-testing and self-care diagnostics in the space
  - More multiplex product demand and introduction
  - More integration, coordination and push toward sustainability and affordability to the market



is done at level 0 or 1 (health centres & community) RDTs (including self-tests) are <u>most commonly used</u> for HIV and an increasingly important for STIs





**Guidelines and** guidance for HIV prevention through the use of antiretrovirals: **PrEP and PEP** 

## Pre-exposure prophylaxis (PrEP)

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## **Post-exposure prophylaxis (PEP)**

**2016**: Use of 3-antiretroviral regimens (TDF/XTC/DTG) to prevent HIV acquisition following potential exposure.

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**2024**: Updated guidelines for the implementation of PEP in community settings - **NEW** 



Scan the QR codes to access the documents!

## WHO next steps with Lenacapavir

Lenacapavir, a new long-acting PrEP product, was included in the Expression of Interest (EOI) for **WHO Pre-qualification list of medicines** in November 2024, which invites product applications from manufacturers.

WHO is convening a **Guideline Development Group** on LEN for HIV prevention, 28-30 January 2025, with guidelines launched by July 2025 at the latest.

WHO is participating in the **EMA Medicines4All mechanism** to obtain a positive opinion for lenacapavir, enabling a streamlined assessment under WHO PQ.

WHO, alongside Global Fund, PEPFAR, UNAIDS and Unitaid, are conveners for <u>Coalition to Accelerate</u> <u>Access to Long-Acting PrEP</u>



### Long-acting injectable lenacapavir continues to show promising results for HIV prevention

#### 6 September 2024 | Departmental update |Reading time: 2 min (586 words

WHO welcomes the latest findings from the PURPOSE-2 trial on long-acting injectable lenacapavir (LEN) for HIV prevention. An interim analysis, announced on 12 September 2024, demonstrated the drug's remarkable efficacy in preventing HIV. LEN, an HIV-1 capsid inhibitor delivered by subcutaneous injection twice a year, was shown to be highly effective in preventing HIV among cisgender men, transgender men, transgender women,

#### Related

Pre-exposure prophylaxis (PrEP)

Global HIV Programme



# Future Trends in Global HIV Treatment: Key Messages unicef



WHO Treatment policy	Current status	Future trends/expected changes
Use of DRV/r	For those failing to 1 <sub>st</sub> line DTG containing regimen, boosted PI containing regimens are recommended, with ATV/r and LPV/r as preferred PI options. DRV/r is an alternative 2 <sup>nd</sup> line option, preferred in third-line regimens.	For those failing to 1 <sub>st</sub> line DTG-containing regimen, DRV/r is expected to be the preferred PI option for either 2 <sub>nd</sub> or 3 <sub>rd</sub> line regimens (generic coformulation available) Considerations on dosing of DRV/r in PW (OD vs BD)
Recycling tenofovir/abacavir and use of TAF	If tenofovir was used in the failing first-line regimen, it is recommended to switch to AZT in the second-line regimen, and vice versa (box 4.3) No recommendation on abacavir recycling TAF recommended as an alternative option in children and could be used in certain clinical circumstances in adults (limited safety data at the time of the guidelines review)	<ul> <li>Tenofovir (TDF or TAF) or abacavir ( in children), can be recycled in 2nd line regimens, even if part of the failed 1st line treatment (NADIA , CHAPAS 4, ODISSEY)</li> <li>Choice between TDF and TAF should consider clinical and programmatic parameters (expanding use of TAF as an alternative option to mitigate TDF renal /bone effects but need to balance with TAF cardiometabolic &amp; weight gain effects). Considerations on peds dosing</li> <li>If tenofovir is combined with a boosted-PI, renal function should be monitored more frequently. For patients using TAF and boosted PIs, TAF dosage should be adjusted</li> </ul>
Use of dual therapies as simplification strategy	No recommendation	Use of dual regimens (oral and injecting) can be considered in special circumstances, as simplification for PLHIV stable on ART or for those with severe adherence challenges with standard oral daily regimens

# Potential strategies to manage TLD failure we need evidence





11

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# **Viral Hepatitis** what's new







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# **2024 Global Hepatitis report:**

Increasing mortality and slow decline in incidence of viral hepatitis

# Need to increase coverage of prevention, diagnosis and treatment through a public health approach

Global hepatitis report 2024

Action for access in low- and middle-income countrie



Major gaps in testing and treatment of hepatitis B and C

Without expansion in access, the world will face increasing cases of liver cancer in the next generation, with associated increasing care costs and hepatitisrelated deaths

## Getting on track to achieve (SDG)

• Requires treating 40 million people with hepatitis B and providing curative treatment to 30 million people with hepatitis C by the end of 2026.

https://www.who.int/publications/i/item/9789240091672



# New WHO HBV guidelines (2024): Transforming the hepatitis B response to a public health response



- When implemented will support earlier treatment and capture (at least 50%) of all HBsAg-positive people versus about 8–15% previously
- Options for those without access to HBV DNA testing,

# Preventing mother to child transmission of HBV using antiviral prophylaxis (new 2024 recommendation)

## **Updated 2020 recommendation**

In settings where HBV DNA or HBeAg testing is available, \*Prophylaxis with TDF is recommended for all HBV-positive (HBsAg-positive) pregnant women with HBV DNA ≥200 000 IU/mL or positive HBeAg

(strong recommendation, moderate-certainty evidence)

# **New 2024 recommendation**

# In settings where neither HBV DNA nor HBeAg testing is available,

\*Prophylaxis with TDF for all HBV-positive (HBsAg-positive) pregnant women may be considered (conditional recommendation, low-certainty evidence)



### Rationale: HBV DNA or HBeAg Available

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TDF prophylaxis for HBsAg-positive pregnant women with high HBV DNA viraemia or positive HBeAg supported by most clinical trials

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### Not available

 Modelling analysis suggested that prophylaxis all strategy would have great impact with about 4.9 million neonatal infections averted (95% CI: 4.7 million–5.1 million)



\*Preferably from the second trimester of pregnancy until at least delivery or completion of the infant HBV vaccination series), to prevent MTCT of HBV. All interventions should be given in addition to at least three doses of hepatitis B vaccination for all infants, including a timely birth dose.

# Simplified service delivery Implementing the public health response for hepatitis C

#### (A) Reti Real

GUIDELINES FOR THE CARE AND TREATMENT OF PERSONS DIAGNOSED WITH CHRONIC HEPATITIS C VIRUS INFECTION



# **Simplified criteria (Who to treat?): HCV treatment for all** infected people above 12 years of age (pregnant women excepted)

**RECOMMENDATIONS** Decentralization, Integration and Task-shifting *Moving treatment and care out of speciality clinics* 

#### Decentralization:

We recommend delivery of HCV testing and treatment at peripheral health or community-based facilities, and ideally at the same site, to increase access to diagnosis, care and treatment.

These facilities may include primary care, harm reduction sites, prisons and HIV/ART clinics as well as communitybased organizations and outreach services.

### Integration:

We recommend integration of HCV **testing** and **treatment** with existing care services at peripheral health facilities. These **services** may include primary care, harm reduction (needle and syringe programme (NSP)/opioid agonist maintenance therapy (OAMT) sites), prison and HIV/ART services.

Strong recommendation/ moderate certainty of evidence (PWID/prisoner) low (general population, PLHIV)

Task-sharing: We recommend delivery of HCV testing, care and treatment by trained non-specialist doctors and nurses to expand access to diagnosis, care and treatment.

Strong recommendation/ moderate certainty of evidence



## Treatment

Without cirrhosis

- Sof/Vel for 12 weeks or
- Sof/Dac for 12 weeks or
- G/P for 8 weeks<sup>2</sup>

With compensated cirrhosis

- Sof/Vel for 12 weeks or
- GI/P for 12 weeks<sup>2</sup> or
- Sof/Dac 24 weeks



# Planning person-centred hepatitis B and C testing services:

Operational guide. Priorities in designing and integrating testing approaches

Coming SOON December 2025



Testing is the critical entry point into hepatitis B and C prevention, care and treatment continuum Linked/retained in hepatitis Prevention Hepatitis care and treatment



### About the guide

To support countries operationalizing WHO recommendations for hepatitis B and C testing by **developing a** strategic mix of testing approaches tailored to each country's unique context Provides a 5-step framework for planning person-centred hepatitis B and C testing approaches that consider national priorities, contextual factors and differentiated service delivery Emphasizes integration and differentiated service delivery models based on 4 building blocks (When, where, by who and what) for:

a) mobilizing and creating demand b) Testing implementation c) linkage to care

Country case studies from England, Georgia, Morocco and Uganda demonstrating key enablers and good practices in implementing testing approaches Annexes (recommendations and products), tools and further guidance



Prevention Treatment

Source: Modified from Frits van Griensven. 2014 Thailand



# Looking ahead Norms and standards



Simplification and consolidation of existing HBV/HCV guidance on prevention, testing, treatment and monitoring

- Consolidated treatment recommendations and guidelines
  - □ Existing HBV guidelines 2015→ Revised HBV update 2024,
  - □ Revised HCV update-including service delivery & paeds 2022,
  - □ HBV PMTCT 2020
  - New recommendations on who to treat and patient monitoring
  - Revised cascade of care monitoring for HBV and HCV
- Consolidated testing recommendations and guidelines
  - □ HBV and HCV testing 2017,
  - □ HCV self test 2021 → now HDV testing 2024
  - Priorities in designing and integrating testing approaches
  - Planning person-centered hepatitis B and C testing services
- □ Promote the need to strengthen routine data systems for monitoring trends over time





# STIs what's new





https://www.who.int/publications/i?healthtopics=e1f8d56f-b301-4e60-8fae-1f2c43e798af&publishingoffices

# **Comprehensive STI case management guidelines**

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# **Updated treatment guidelines in STIs**

- N. gonorrhoeae: ceftriaxone 250 mg to ceftriaxone 1 gram → delay the development of resistance to last-line treatment options.
- **C.** *trachomatis*: **Doxycycline 100mg x2/d x7 days**, while reserving azithromycin for emerging infections, such as *Mycoplasma genitalium*.
- **Syphilis: BPG** > alternative treatment regimens, especially to prevent vertical transmission during **pregnancy**.

Additional testing recommendations:

- 1. Offering **syphilis self-testing** to increase testing coverage
- 2. Offering **RDTs for both treponemal and nontreponemal components** to support the differentiation between current/active syphilis and previously treated/cured infection (high-prevalence settings).
- Recommendations for the treatment of other STIs

**Vorld Health** 

Updated recommendations for the treatment of *Neisseria* gonorrhoeae, Chlamydia trachomatis and Treponema pallidum (syphilis), and new recommendations on syphilis testing and partner services



Recommendations for the treatment of *Trichomonas vaginalis*, *Mycoplasma genitalium*, *Candida albicans*, bacterial vaginosis and human papillomavirus (anogenital warts)



Explore the full findings in EGASP's 2023 report.

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Antimicrobial resistance in gonorrhoea, risks turning a treatable infection into a major global health threat, highlighting the urgent need for continuous surveillance.

**EGASP data** is vital for guiding effective treatment strategies and containing the spread of drug-resistant gonorrhoea.



# Management of asymptomatic STIs

## **GRC** approved guidelines

In settings where prevalence is high, and resources and capacity are available, WHO suggests to screen for *N. gonorrhoeae* and/or *C. trachomatis*:

**Pregnant women** accessing health care services for antenatal visits.

Sexually active adolescents and young people (10–24 years) accessing health care services (when balancing resources and benefits of screening, female adolescents may be prioritized).

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Sex workers accessing health care services.

Men who have sex with men accessing health care services.

**Remarks:** Screening with high quality molecular assay or rapid point of care



# **STI partner services**

WHO recommends that **STI partner services** should be offered to people with STIs as a range of options that are based on their needs and preferences and are within a voluntary comprehensive package of STI testing, care and prevention(*strong recommendation, low certainty in evidence*).

### Remarks:

- Human rights: STI partner services must always be voluntary and never mandatory. Coercive or forced testing is never warranted. All consenting clients should have their privacy protected and personal information should be kept confidential.
- **Important to offer options:** There are a range of STI partner services which should be offered based on client preferences, feasibility and resources available.
- **Linkage**: Linkage to STI management services for sexual partners is an essential component of STI services.
- Integration: STI partner services should be based within a broader programme and package of services.



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# Thank you

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- Michelle Rodolph, HHS/TPP



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ines		Guidelines on HIV, vi	ral hepatitis and se	exually transn	nitted infections		
<u>uidelines</u> i <u>nes</u> t <u>is &amp; STIs cross</u> .	cutting quidelines	The Department of Global HIV, Hepatitis and Sexually Transmitted Infections Programmes leads the development of guidelines in the area of <u>HIV</u> , <u>viral hepatitis</u> and <u>sexually transmitted infections (STIs)</u> , as well as guidelines focusing on key aspects of the public health response <u>across the 3</u> <u>infectious disease areas</u> . Recommendations in WHO guidelines are based on sound scientific evidence. Fundamental steps in the process for guideline development include formulating key questions, evidence retrieval and synthesis, and appraisal of the quality of the evidence. But the methods used in these steps were originally conceived for the development of clinical interventions as part of the evidence-based medicine movement. WHO develops guidelines on a broad array of clinical, public health, health system, health promotion and implementation strategies. These interventions are often highly context-specific, with multiple factors that directly and indirectly impact the health and societal outcomes.					
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