Launch of WHO operational guide on priorities in planning person-centred hepatitis B and C testing services

Global HIV, Hepatitis and STIs Programmes World Health Organization, Headquarters

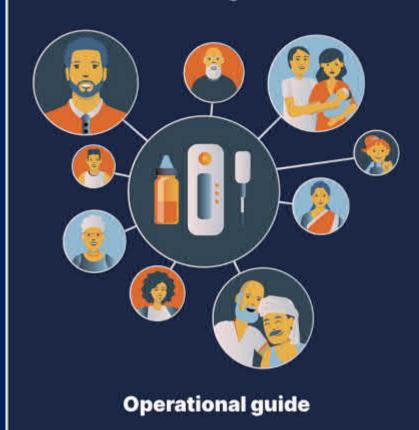
Global webinar | 05 December 2024







Priorities in planning person-centred hepatitis B and C testing services



Welcome by Co-chairs



Funmi LesiTeam Lead, Global Hepatitis Programme,
Department of Global HIV, Hepatitis and

STIs Programmes, WHO HQ

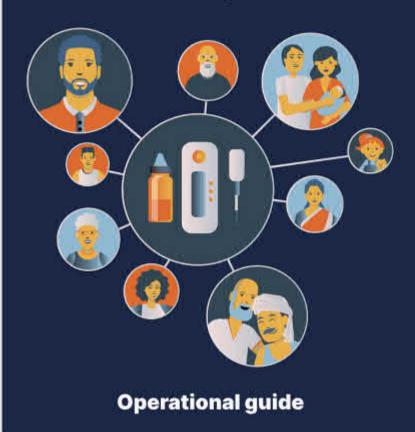


Oriel FernandesSenior Director, Viral Hepatitis,
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Priorities in planning person-centred hepatitis B and C testing services



Date: Thursday, 5 December 2024, Time: 10:00 – 11:30 AM (Central European Time)

The webinar will be held in English, with simultaneous interpretation in French.

Co-chairs

Funmi Lesi (Global HIV, Hepatitis and STIs Programmes, WHO Headquarters)
Oriel Fernandes (Clinton Health Access Initiative)

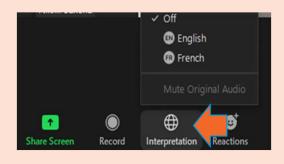
Opening remarks	Meg Doherty (HHS, WHO HQ)
Community perspective on successful implementation of differentiated hepatitis B and C testing approaches	Danjuma Adda (World Hepatitis Alliance, Nigeria)
Launch: Operational guide on priorities in planning person-centred hepatitis B and C testing services	Niklas Luhmann (HHS, WHO HQ)
Panel discussion: Country examples showcasing strategic approaches to hepatitis B and C testing services	Muhammad Shahid Jamil (WHO EMRO) Mugagga Kaggwa (WHO CO, Uganda)
Scaling hepatitis C testing though a mix of testing approaches in Morocco: integration and decentralisation	lbtissam Khoudri (Ministry of Health, Morocco)
Finding the missing cases: Opt-out testing for hepatitis B, C and HIV in emergency departments in England, United Kingdom	lan Jackson (NHS England, United Kingdom)
General population hepatitis B testing in high HBV prevalence setting through geographical prioritisation: Scaling up testing in Uganda	Miriam Ajambo (Ministry of Health, Uganda)
HCV elimination through a nationwide general population hepatitis C testing in Georgia: integration, decentralisation and simplification of testing strategies	Maia Tsereteli (Ministry of Health, Georgia)
Civil society perspective	Humberto Silva (Rotary Action Group for Hepatitis Eradication)

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Opening Remarks

Meg Doherty Director, Department of Global HIV, Hepatitis and STIs Programmes, WHO HQ







Shaibu's story: One Man's Dream of a Hepatitis-free Tanzania





Community perspective on successful hepatitis testing services

Danjuma AddaWorld Hepatitis Alliance, Nigeria







Community Perspective on Successful Implementation of Differentiated Hepatitis B and C Testing Approaches

Danjuma Adda
Past President, World Hepatitis Alliance
Chair African Viral Hepatitis Action Group
05/12/2024





Why a Person Centred Approach to Hepatitis B and C testing

A person centered Hepatitis B and C testing PRIORITIZES INDIVIDUAL NEEDS, PREFERENCES AND BARRIERS TO TESTING, ensuring equitable and effective care.

- Reduces Stigma: Many individuals avoid testing due to fear of stigma or discrimination: this approach builds trust and ensures privacy
- Improves Access: focus on marginalized populations (PWID, refugees, migrants and people with limited healthcare access.
- Enhances Engagement: Involves patients in decision-making: respects cultural and personal values.
- Accessibility: offering diverse testing options: clinic-based, community-based, self-testing
- Affordability: Provide free or subsidized testing



Why a Person Centred Approach to Hepatitis B and C testing

- Cultural sensitivity: tailor hepatitis communication to diverse linguistic adn cultural differences: Ensure community leaders are engaged to address cultural barriers
- Comprehensive Support: Testing MUST combine Counseling, Education and Linkage to Care
- Must support Patients through the treatment and follow-up process
- Person centered testing empowers individuals and leaves no one behind



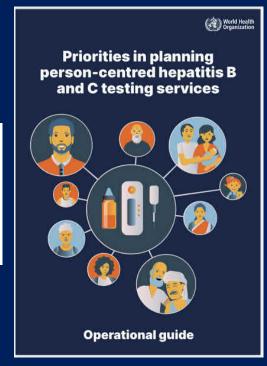
THANK YOU



Launch Presentation: Operational guide on priorities in planning person-centred hepatitis B and C testing services



Niklas Luhmann
Technical Officer,
Global HIV, Hepatitis and STIs Programmes, WHO HQ





Sahar BajisConsultant,
Global HIV, Hepatitis and STIs Programmes, WHO HQ





https://www.who.int/publications/i/item/9789240104082

Overview

- Rationale
- About the guide
- The framework
- Key enablers in implementing effective testing services
- Takeaway messages

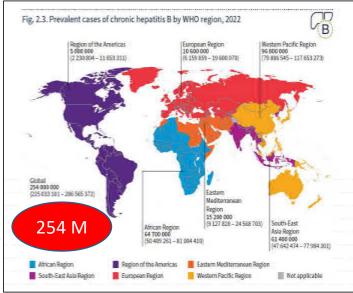


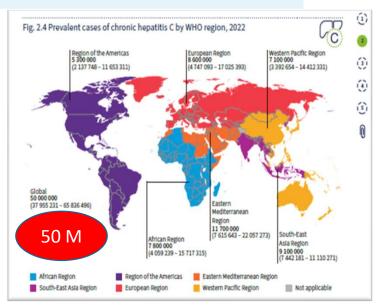


In 2022 viral hepatitis is the second leading cause of death among communicable diseases

Viral hepatitis is the only communicable disease for which mortality is increasing: 1.3 million people died from viral hepatitis in 2022, up from 1.1 million deaths in 2019.













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Most people with chronic hepatitis B and C remain undiagnosed and untreated – far below targets

 Global targets

 Path to elimination
 Diagnosed
 Treated

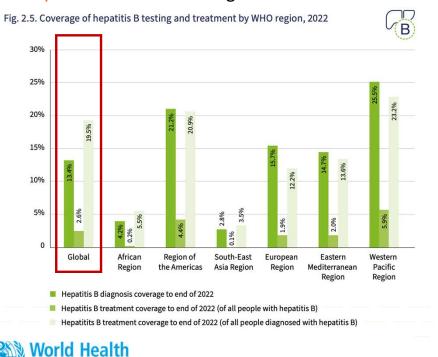
 Elimination
 90%
 80%

 Gold
 80%
 70%

 Silver
 70%
 60%

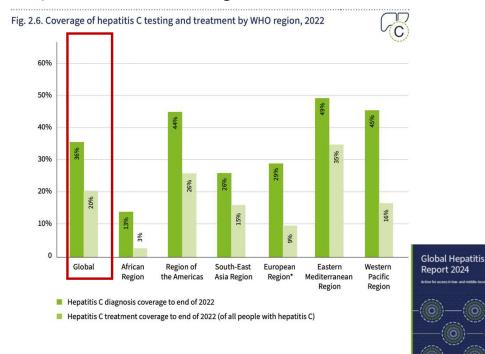
 Bronze
 60%
 50%

In 2022, **13% of the 254 million** people with hepatitis B have been diagnosed



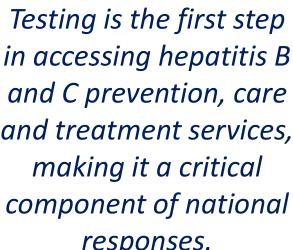
Organization

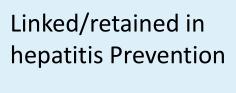
In 2022, 36% of the 50 million people with hepatitis C have been diagnosed



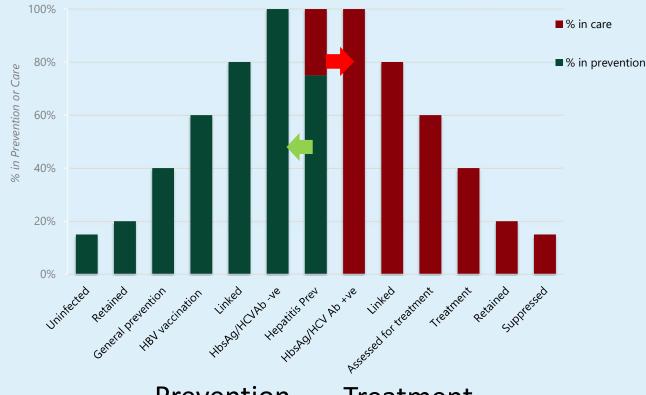
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and C prevention, care and treatment services, making it a critical responses.





Linked/retained in Hepatitis care and treatment



Prevention

Treatment



About the operational guide: 5 reasons to use this guide

Supports countries operationalizing WHO recommendations for hepatitis B and C testing

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, community involvement and differentiated service delivery models

Country case examples from England, Georgia, Morocco and Uganda demonstrating key enablers and good practices

Annexes of consolidated recommendations and diagnostic products





https://www.who.int/publications/i/item/9789240104082

WHO hepatitis B and C testing recommendations including:

Who, where, how and simplified service delivery strategies to enhance testing and linkage to care and treatment

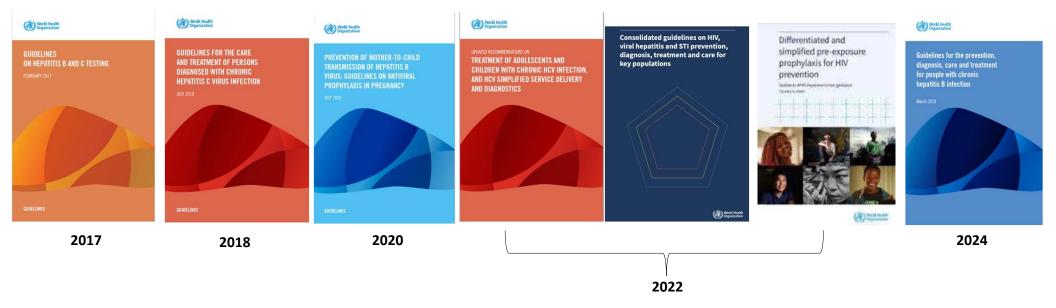




Table 2. Summary of WHO recommendations and guidance on "who to test" for hepatitis B and C infection

Testing among general population	Hepatitis B	Hepatitis C
General population testing in intermediate or high seroprevalence settings $(\geq\!2\%)^1$	In settings with a $\ge 2\%$ HBsAg seroprevalence in the general population, it is recommended that all adults and adolescents have routine access to and be offered HBsAg serological testing.	In settings with a ≥2% HCV antibody (anti-HCV) seroprevalence in the general population, it is recommended that all adults and adolescents have routine access to and be offered anti-HCV serological testing.
Birth-cohort testing for specific age groups known to have higher HCV prevalence than the general population		All adults in a specific identified birth-cohort of older persons (or above a certain age) with higher HCV infection risk ² than the overall general population may be offered anti-HCV serological testing.
Routine testing among specific populations	Hepatitis B	Hepatitis C
Pregnant women	All pregnant women should be tested for HIV, syphilis and HBsAg at least once and as early as possible during pregnancy.	While there is no specific recommendation for HCV testing in pregnant women, it may be considered in settings of ≥2% HCV antibody seroprevalence as part of general population testing. ³
Blood donors	In all settings screening of all blood donors for HBsAg and HCV antibodies should be m	andatory (10).
Adults, adolescents and children with a clinical suspicion of chronic viral hepatitis	In all settings adults, adolescents and children with a clinical suspicion of chronic vanti–HCV serological testing.	iral hepatitis (symptoms, signs, laboratory markers) ⁴ should be offered HBsAg and
Health care workers	In all settings it is recommended that HBsAg serological testing be offered and hepatitis B vaccination given to all health care workers not previously vaccinated.	
Focused testing among most affected populations	Hepatitis B	Hepatitis C
Key populations	In all settings adults and adolescents from key populations (men who have sex with men, sex workers, people who inject drugs, trans and gender-diverse people, people in prison and other closed settings) should be offered HBsAg and anti-HCV serological testing.	
	Testing PrEP users for HBsAg once, at or within one to three months of PrEP initiation (or later if not available around initiation), is strongly encouraged, particularly in highly endemic countries (11).	HCV antibody testing is strongly encouraged at or within one to three months of PrEP initiation (or later if not available around initiation), and every 12 months thereafter, where PrEP services are provided to populations at high risk of HCV infection (11).
		People at ongoing risk and a history of treatment-induced or spontaneous clearance of HCV infection may be offered 3–6 monthly testing for presence of HCV viraemia.
Sexual partners, children and other family members and close household contacts of those with HBV infection	In all settings it is recommended that HBsAg serological testing be offered to sexual partners, children and other family members and to close household contacts of those with HBV infection. ⁵	Children of mothers with chronic hepatitis C (especially if HIV-coinfected) may be offered anti-HCV serological testing. 7
	Infants born to mothers with presence of HBsAg should be tested for HBsAg between 6 and 12 months of age to screen for evidence of hepatitis B infection. ⁶	
Certain mobile or migrant adult and adolescent populations from $\ge\!2\%$ HBV or HCV seroprevalence countries 1	In all settings adults and adolescents from key populations (men who have sex with men prison and other closed settings) should be offered HBsAg and anti-HCV serological test	
Adults and adolescents from certain indigenous populations	In all settings routine serological testing for HBsAg and/or anti-HCV should be offered to it general population.	ndigenous populations identified as having higher HBV or HCV seroprevalence than
Adults and adolescent living with HIV, other STIs and TB	In all settings adults and adolescents living with HIV, TB or STIs should be offered HBsA	g and HCV serological testing.
Persons exposed in health care settings (for example, patients with thalassaemia, haemophilia, haemodialysis, history of multiple blood transfusions or recurrent intensive care, surgical procedures or other health care exposure risks).	In all settings adults and adolescents with increased HBV or HCV risks and history of he	alth care exposure should be offered HBsAg and anti–HCV serological testing.
Persons exposed outside the health care system via invasive procedures with transmission risk via contaminated equipment (for example, unsafe tattooing, body piercing, circumcision or other unsafe cultural practices such as scarification).	In all settings adults and adolescents with increased HBV or HCV risks and history of exp HBsAg and anti-HCV serological testing.	posure via invasive procedures outside of the health care system should be offered

Annex 1

Consolidated WHO hepatitis B and D testing recommendations

Who to test (testing approach)

- General population testing (where HBV seroprevalence ≥2%)¹
- . Focused testing in most-affected populations 2
- Routine testing of pregnant women; blood donors; people with clinical signs of chronic viral hepatitis; 3 health care workers 4
- Among people testing HBsAg positive for hepatitis B.5

Where to test (service delivery approaches)

Facility-based and community-based testing

- . Integration of hepatitis testing, care and treatment with other services (such as HIV services and primary care) to increase the efficiency and reach of hepatitis services;
- . Task-sharing with trained non-specialist doctors and nurses to expand access to diagnosis, care and treatment;
- Decentralizing testing and treatment services at primary health facilities or HIV and ART clinics to promote access to care.

How to test

General note: All assays should meet minimum quality, safety and performance standards (regarding both analytical and clinical sensitivity and specificity) 6

Serological testing

Choice of assay:

For the diagnosis of chronic HBV in adults, adolescents and children (>12 months of age) 7, a serological assay (in either RDT or laboratory-based immunoassay format) 8 is recommended to detect HBsAg.

- In settings where laboratory testing is already available and accessible, laboratory-based immunoassays are recommended as the preferred assay format.
- · In settings where there is limited access to laboratory testing and/or in populations where access to rapid testing would facilitate linkage to care and treatment, use of RDTs is recommended to improve access.

Serological testing strategies:

- In settings or populations with an HBsAg seroprevalence of ≥0.4%,9 a single serological assay for detection of HBsAg is recommended.
- In settings or populations with a HBsAg seroprevalence of <0.4%,9 confirmation of HBsAg positivity on the same immunoassay with a neutralization step or a second, different RDT assay for detection of HBsAg may be considered.

People with chronic hepatitis B (HBsAq positive) may be diagnosed with hepatitis D by using a serological assay to detect total anti-HDV, followed by an NAT to detect HDV RNA and active (viraemic) infection among those who are anti-HDV-positive. 10

- Laboratory-based HBV DNA assays: Directly following a positive HBsAg serological test result, the use of HBV DNA nucleic acid testing (NAT) (quantitative or qualitative) is recommended as the preferred strategy to assess viral load level for treatment eligibility and to monitor treatment response.
- Point-of-care HBV DNA assays: Point-of-care HBV DNA nucleic acid test (NAT) assays may be used as an alternative approach to laboratory-based HBV DNA testing to assess HBV DNA level for treatment eligibility and to monitor treatment response.

Strategies promoting testing uptake and linkage to care

- 1. Use of DBS specimens for HBsAg serology testing may be considered in settings where:
- . there are no facilities or expertise to take venous whole blood specimens; or
- . RDTs are not available or their use is not feasible; or
- . there are persons with poor venous access (for example, in drug treatment programmes, prisons).
- 2. Clinician reminders to prompt provider-initiated, facility-based HBV serological testing in settings that have electronic records or analogous reminder systems.
- 3. Peer and lay health worker support in community-based settings.

Reflex testing for anti-HDV antibody testing following a positive HBsAg test result, and also for HDV RNA testing (where available) following a positive anti-HDV antibody test result, may be used as an additional strategy to promote diagnosis.

1. HBV DNA reflex testing: Where available, HBV DNA testing for those testing positive for HBsAg may be used as an additional strategy to promote linkage to care and treatment.

This can be achieved either through laboratory-based reflex HBV DNA testing using a sample already held in the laboratory or through clinicbased reflex testing in a health care facility with immediate sample collection following a positive HBsAg RDT.

- 2. The use of DBS specimens to test for HBV DNA for diagnosis of HBV viraemia may be considered in settings where:
- there is a lack of access to sites or nearby laboratory facilities for NAT or of timely delivery of specimens to a laboratory; or
- · there are persons with poor venous access (for example, in drug treatment programmes, prisons).

Hepatitis D testing among those HBsAg-positive

Measuring HBV DNA to uide treatment eligibility and monitor response

About the operational guide: 5 reasons to use this guide

Supports countries operationalizing WHO recommendations for hepatitis B and C testing

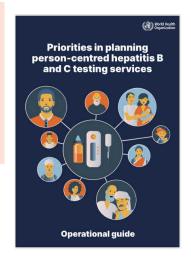
Provides a 5-step framework for planning person-centred hepatitis B and C testing approaches that consider national priorities, contextual factors and differentiated service delivery

Emphasizes integration, community involvement and additional key enablers

Country case examples from England, Georgia, Morocco and Uganda demonstrating key enablers and good practices

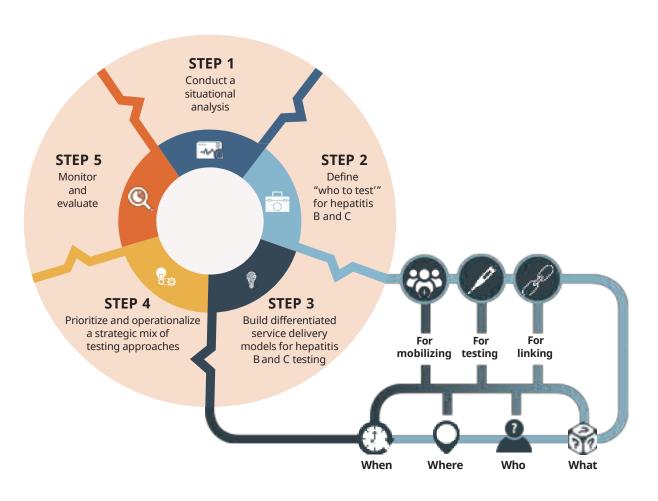
Annexes of consolidated recommendations and diagnostic products





https://www.who.int/publications/i/item/9789240104082

Framework for planning hepatitis B and C testing services



Step 1: Conduct situational analysis

The selection and mix of hepatitis B and C testing approaches with the greatest public health impact must be based on a situational analysis

Analyze the HBV and HCV epidemiology in the general population and specific populations

Assess programmatic response and gaps

Assess the health care system structure and capacity and identify opportunities for integration

Assess financial resource availability



Step 2: Define "who to test" for hepatitis B and C

1. ROUTINE TESTING AMONG GENERAL POPULATION

General population testing in HBV or HCV seroprevalence ≥2% settings

Birth-cohort testing for specific age groups known to have high HCV seroprevalence

2. ROUTINE TESTING AMONG SPECIFIC POPULATIONS

Pregnant women for HBV

Blood donors for HBV and HCV

Adults, adolescents, children with clinical suspicion of chronic viral hepatitis

Health care workers for HBV

3. FOCUSED TESTING AMONG MOST AFFECTED POPULATIONS

Key populations and people living with HIV, STI or TB

Sexual partners, children and household members of those with HBV infection

Certain indigenous, migrants and displaced peoples from high prevalence setting

Persons exposed in or outside healthcare settings

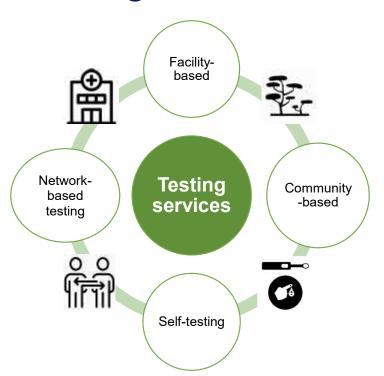


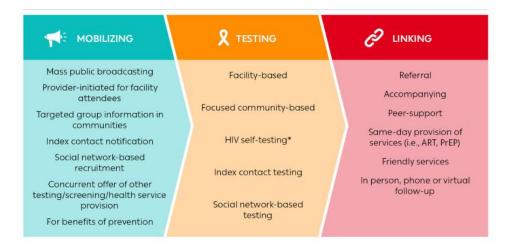


Hepatitis D

- All individuals with positive HBsAg
- When universal anti-HDV testing not feasible, prioritize:
 - people born in **HDV-endemic** countries, regions and areas;
 - people with advanced liver disease, those receiving HBV treatment; and those with features suggesting HDV infection (such as low HBV DNA with high ALT levels);
 - people considered to have increased risk of HDV infection (haemodialysis recipients, people with HCV and/or HIV, PWID, SW, MSM

Step 3: Build differentiated service delivery models for hepatitis B and C testing







Step 3: Build differentiated service delivery models for hepatitis B and C testing

	Mobilizing and creating demand	Testing services	Linkage to care
When	 Frequency and timing continuous mobilization at testing sites intermittent: targeted time for campaigns focused: specific times to reach specific populations (eg outreach) 	 Frequency and timing: frequency: routine testing, one-time test, mass campaign timing: times when specific populations may be reached for testing or re-testing 	 Timing of linkage activities and frequency of follow-up: Immediate link to molecular testing/liver disease assessment following positive serology Schedules test of cure for HCV, periodic HBV monitoring
Where	 Location of mobilization: online, print, radio media community and outreach health facilities (including prisons). 	 Location of testing: health-facilities (including prisons), pharmacies community and outreach self-test. 	 via phone health facilities community/home visits reflex testing.
Who is providing services	 Who does the mobilizing? health care workers lay providers peer workers family members. 	 Who does the testing? health care workers lay providers peer workers self-testing. 	Who supports linkage to prevention or treatment initiation? • health care workers • lay providers • peer workers • family members.
What	 What package of services and demand creation interventions? Information about where and why to test and how to link to prevention and treatment; hepatitis testing alone or with other services. 	 Hepatitis testing alone or integrated with other services? What interventions to promote testing? Integrated with HIV, TB, STI testing, NCD, cancer and other age-specific screening campaigns, where appropriate POC testing, dried blood spot (DBS), reflex testing. 	 What linkage interventions? What interventions to enhance linkage to care? Prevention: harm reduction services, HBV vaccination, condoms, HIV and STI testing Treatment Patient navigation, reflex testing.

Step 3: Build differentiated service delivery models for hepatitis B and C testing

WHO recommendations to promote testing uptake and linkage to care

Box 4: WHO recommendations on strategies to promote testing and diagnosis, and linkage to care and treatment for viral hepatitis

- Decentralization, integration and task sharing: WHO recommends expanding HCV testing and treatment
 services, ideally at the same site, at lower-level facilities through decentralization, integrating them with
 primary care, harm reduction programmes, prison health services and HIV services (6). Task sharing is
 encouraged, allowing trained non-specialist doctors, nurses, peer and lay providers to deliver HCV testing, care
 and treatment. These approaches can be adapted for HBV services (6).
- POC testing: Using POC HBV DNA and HCV RNA assays is recommended as an alternative to laboratory-based
 tests for diagnosing viraemic HBV and HCV infections, respectively, particularly in marginalized populations and
 hard-to-reach communities with limited access to health care (4, 6).
- 3. Reflex testing: Reflex HBV DNA testing for HBsAg-positive individuals and HCV RNA testing for anti-HCV-positive individuals is recommended to promote linkage to care (4, 6). Reflex testing for anti-HDV antibody following a positive HBsAg test result, and also reflex HDV RNA testing (where available) following a positive anti-HDV antibody test result, can streamline the diagnostic process by eliminating the need for extra clinic visits (4). Reflex testing can be laboratory- or clinic-based.1
- 4. Dried blood spot sampling (DBS): DBS for serological and nucleic acid test (NAT) assays for HBV and HCV can enhance testing access in settings with limited facilities, in persons with poor venous access, or when timely delivery of specimens to laboratories is not feasible (3, 6).
- Peer and lay health worker support: Utilize peer and lay health workers to support community-based/led testing efforts (3, 6).
- Clinician reminders: Implement clinician reminders in electronic records or similar systems to prompt facilitybased HCV testing for patients in high-risk birth cohorts or those who report risk behaviours (3). This strategy can also apply to HBV testing.



Step 4: Prioritize and operationalize a strategic mix of testing approaches

Building on:

- situational analysis
- applying the WHO recommendations on "who to test"
- differentiated service delivery models

Countries should develop an optimal mix of testing approaches that are best adapted to their unique context.



- A modular approach serves as a guide to support countries in designing an optimal mix of testing approaches, based on priorities, stage of hepatitis response and established targets
- The modules are not mutually exclusive, and they can overlap at any time during the hepatitis response and during any phase of the response.





Step 4: Prioritize and operationalize a strategic mix of testing approaches

Module 1

IN ALL SETTINGS: Routine testing of pregnant women, blood donors, health care workers and people with clinical suspicion of chronic viral hepatitis

Table 4. Examples of testing locations, demand creation and linkage to care for routine testing in all settings

Who to test	Where to test	Mobilizing and demand creation	Linkage to care
tBV testing of all pregnant women [†]	Routine testing for HBV, HIV and syphilis at prenatal and antenatal clinics, family planning clinics and community-based outreach services.	Facility-based education and awareness-raising initiatives using culturally tailored messaging during consultations and in pamphlets. Community-based education and awareness-raising through outreach by community workers and through reproductive health community groups, community events (for example, faith-based events and baby showers). Partner involvement and couples testing and counselling, based on woman's consent and choice and if safe to do so.	Linkage to further HBV testing, diagnosis and treatment, ideally offered at the same site; can include POC viral load testing or use of DBS and reflex testing. Prevention services, including antiviral for prevention of mother-to-child transmission (PMTCT) of HBV and treatment for mother's own health; testing of sexual partners, children and household members (and HBV vaccination where required); infant HBV vaccination, including timely birth dose. Linkage may be facilitated by community and lay health workers. All relevant HIV and STI testing and prevention services should be offered.
1BV and HCV testing of all blood lonors	Routine testing (preferably onsite) of all blood donors at all facilities and mobile units offering blood donation.	Targeted education and awareness-raising campaigns about the importance of hepatitis testing as part of the blood donation process, safety of the blood supply and the impact of donations on community health. Distribute pamphlets at blood donation facilities explaining hepatitis, bloodborne virus testing procedures and the importance of regular testing for all donors.	Support with coordinated pathways to access both viral load testing and diagnostic services and treatment and care.
ABY and HCV testing of all adults, idolescents and children with clinical uspicion of chronic viral hepatitis that is, signs, symptoms or laboratory narkers)	Routine testing, based on clinical signs for chronic viral hepatitis, at all health facilities including hospitals (inpatient and outpatient departments, emergency department (ED), etc.) and primary care and community-based services.	Tailored education and awareness-raising that address the link between hepatitis infections and liver disease and highlight symptoms of chronic hepatitis and liver cancer. Training of physicians about signs of clinical suspicion of chronic viral hepatitis and liver disease. Collaboration between specialists and general practitioners in primary care to ensure testing for hepatitis and to integrate with liver disease and cancer management.	HCV and HBV testing, diagnosis and treatment services are ideally affered at the same site, at hospitals and primary health care (PHC) clinics (through decentralization and integration) and can include POC viral load testing. Other options include use of DBS and reflex testing. Community and lay health workers can be helpful to support linkage to care. Hepatocellular carcinoma surveillance among people with confirmed chronic viral hepatitis. May consider relevant HIV and STI testing services as well as assessment of other co-morbidities.
HBV testing of all health care workers ²	Routine HBV testing of health care workers, ideally at their workplaces.	Onsite testing and education of all health care workers before they start employment. Regular education and training, for example, seminars/grand rounds, as part of	Hepatitis B vaccination given to all health care workers who are not immune and have not been vaccinated previously.

If indicated, linkage to HBV diagnosis and treatment.

prevention, infection control and blood safety training.



Table 5. Examples of testing locations, demand creation and linkage to care for testing of most affected, priority populations

and household contacts of those with HBV.

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	Who to test	Where to test	Mobilizing and demand creation	Linkage to care
	Key populations: (men who have sex with men, sex workers, people who inject drugs, trans and gender-diverse people, people in prison and other closed settings) and people living with HIV, people living with TS, people with STIs diagnoses	Routine testing at hospitals and primary care facilities and community-based services serving key populations (for example, antiretroviral HIV treatment (ART) clinics, pre-exposure prophylaxis (PTEP) programmes, TB clinics, STI clinics, drug treatment and harm reduction services, prisons, drop-in centres), as well as homeless centres, other peer-led services and by outreach. Additionally, HCV self-testing can be offered in all settings. Secondary distribution of HCV self-tests to partners and injecting network. Clinician reminders in electronic records or similar systems to prompt facility-based HBV and HCV testing.	Communication campaigns using digital media, social media, radio/ television/print, dating apps addressing specific key populations (with, for example, infographics, videos and testimonials). Mobile and outreach awareness-raising and testing in areas frequented by members of key populations, such as nightlife districts, community centres, drop-in centres. Health awareness days (for example, World Hepatitis Day (28 July). Peer-led education and testing, including integrated with PrEP and with other STI/HIV testing services.	Linkage to further HBV and HCV testing, diagnosis and treatment, ideally offered at the same site; can include POC viral load testing. Other options include use of DBS or reflex testing. Where this is not possible, strong linkage between different levels of the health care system are required. Peer workers support linkage to care. Members of key populations who self-test need specific and well-coordinated pathways to diagnosis services. HIV and STI testing services including family planning, prevention services (for example, condom and lubricant distribution, PrEP). Hepatitis B vaccination; link or continue harm reduction services for people who inject drugs.
Pe se or (fc ha	Indigenous populations and migrants and mobile people from high prevalence countries	Testing at health facilities and community-based services, including indigenous-led/controlled clinics and culturally appropriate services trusted by communities. Testing may be integrated with health promotion and targeted screening initiatives for communicable diseases and NCDs (for example, hypertension, diabetes). Additionally, HCV self-testing can be offered. Clinician reminders in electronic records or similar systems to prompt facility-based HBV and HCV testing.	Culturally appropriate education and awareness-raising initiatives in local languages, imagery and stories to convey the importance of hepatitis testing. Dissemination can take place on digital and social media, television, radio, newspaper and at community gatherings. For both indigenous and migrant or mobile populations, involve community leaders in awareness-raising and testing initiatives (for example, workshops and community gatherings to tackle stigma and discrimination). Community-based and peer-led education and mobile testing services to reach remote and underserved communities.	Linkage to further HBV and HCV testing, diagnosis and treatment, ideally at the same indigenous-led or culturally appropriate site for migrant and mobile people. Can include POC viral load testing. Other options include use of DBS or reflex testing. Peer and community workers support and coordinate and link to care, treatment and prevention. HIV and STI testing services, including family planning, prevention services (for example, condom and lubricant distribution, PrEP); hepatitis B vaccination.
	People exposed in health care settings or via invasive medical or traditional procedures (for example, thalassaemia, haemophilia and receiving multiple transfusions, haemodialysis, in intensive care, tattooing, cutting)	Routine testing in all health care facilities providing these services. Clinician reminders in electronic records or similar systems to prompt facility-based HBV and HCV testing.	Tailored education via mass media or at health facilities: Use of television, radio, print media, digital platforms, social media to disseminate information at clinics about the importance of hepatitis testing for people with history of potential exposure. Health awareness days: Using health awareness days (for example, World Thalassaemia Day (8 May), World Hepatitis Day (28 July) to highlight testing campaigns. Community events: Using health fairs, workshops and local events at community centres to provide information and offer on-site testing.	Linkage to further HBV and HCV testing, diagnosis and treatment. Linkage to all relevant prevention services, including HBV vaccination where indicated.
	Sexual partners, children and other family members, and close household contacts of those with HBV	HBV testing and partner services at prenatal and antenatal clinics, family planning clinics, primary care clinics and community-based outreach services. Clinician reminders in electronic records or similar systems to prompt facility-based HBV testing of partners, children	Education and awareness through community support groups for families and networks of people living with HBV. Promote HBV testing during routine health care visits. Community discussions to reduce stigma associated with HBV testing (for example, paragraphs, conversations about HBV in family settings)	Linkage to further HBV testing, diagnosis and treatment, ideally offered at the same site; can include POC viral load testing. Other options include use of DBS or reflex testing. Where this is not possible, strong linkages between different levels of health care system are required.

example, normalize conversations about HBV in family settings).

Peer workers and community groups support linkage to care.

All HBV prevention (including hepatitis B vaccination) services as appropriate. All HIV and STI testing services as relevant to context.



Table 6. Examples of testing locations, demand creation and linkage to care for testing of in general population

Module 3

Priorities in general population testing

Who to test	Where to test	Mobilizing and demand creation	Linkage to care
General populations	Routine HBV and HCV testing by general practitioners	Mass and social media – for example, television,	HCV and HBV testing, diagnosis and treatment
Prioritization	in primary-care facilities	radio, print and social media – disseminate	services are ideally
an be based	during routine health visits and in hospitals as part of	information about the	offered at the same site, at hospital or PHC level
on specific birth	standard protocols, including	importance of hepatitis	(through decentralization
ohort and/or	in outpatient communicable	testing, success stories/	and integration). Services
geographical	and NCD clinics, liver or sexual	benefits of early detection	can include POC viral load
area with higher	health clinics, inpatient wards	and instructions on how	testing as well as reflex
HBV or HCV prevalence.	and emergency departments.	and where to get tested.	testing. Other options include use of DBS.
	Integrated HBV and HCV	Health awareness days	
	testing in age-specific	such as World Hepatitis	Community and lay health
	screening and prevention	Day highlight age-based	worker can support linkage
	programmes for NCDs, such	testing campaigns.	to care.
	as hypertension; diabetes;	Include HBV and HCV	
	breast, cervical, prostate and	testing in national or	People who are self-testing
	colorectal cancers. This may	regional health awareness	need specific and well-
	include national or regional	campaigns for other	coordinated pathways to
	health campaigns offering	diseases.	confirmatory testing and
	mass testing in facilities and by		diagnosis services.
	mobile outreach.	Integrate with and partner	
		in community events	
	Outreach mobile testing	(for example, health	
	in community centres,	fairs, workshops, faith-	
	pharmacies.	based events) to provide	
		information and on-site	
	HCV self-testing may be offered additionally. Secondary	mobile testing.	
	distribution to partners and	Train doctors, nurses,	
	social networks may be	pharmacists and other	
	considered.	health care professionals	
		to discuss the importance	
	Clinician reminders in electronic	of testing during	
	records or similar systems to	routine visits and to	
	prompt HBV or HCV testing	provide personalized	
	for patients in high-risk birth	recommendations.	
	cohorts.		



Step 5: Monitor and evaluate

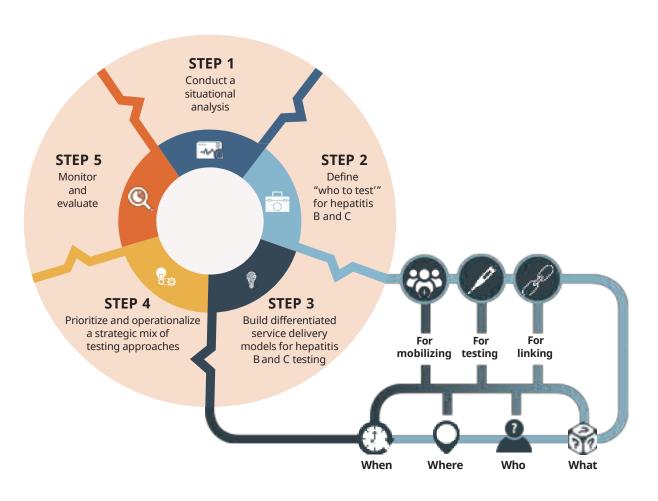


Ensuring that hepatitis testing programmes are reaching their intended populations and identifying previously undiagnosed persons requires continuous monitoring and evaluation

- Data and a robust evidencebase should guide the response, but lack of this information is not a reason to stop or not initiate a response
- Available data should be used, and burden and cascade of care data should be strengthened.



Framework for planning hepatitis B and C testing services



About the operational guide: 5 reasons to use this guide

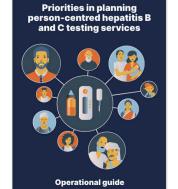
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Provides a 5-step framework for planning person-centred hepatitis B and C testing approaches that consider national priorities, contextual factors and differentiated service delivery

Emphasizes integration, community involvement and additional key enablers

Country case examples from England, Georgia, Morocco and Uganda demonstrating key enablers and good practices

Annexes of consolidated recommendations and diagnostic products





https://www.who.int/publications/i/item/9789240104082

Key enablers in implementing viral hepatitis testing

- Political commitment
- Enabling policy, legal and regulatory environment
- · Data-driven decision-making
- Community engagement and awareness-raising
- Integrated workforce education
- Access to quality-assured products
- Establishment of quality management systems at testing sites
- Hepatitis B and C testing services integrated with existing services and other disease programmes





Opportunities for integrating hepatitis testing services



- Integrate health promotion and demonstration of self-test for HCV, HIV and syphilis
- Integrate self-test distribution & network-based testing for partner, family/household, social network

- Facility-based services for KPs, ANC: e.g. ART//harm reduction, outreach
- General populations: NCDs (hypertension, diabetes, cancer screening), in PHC, outpatient and emergency departments



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Community-based onsite POC HIV, HCV, HBV testing

Combined "Test and Trent" Campaigns for Human Immunodescinecy Vinss, Heparitis B, and Hepatitis C. A. Systematic Revises to Provide Evidence to Support World Health Organization Treatment Geldefines

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For every HIV case detected, integrated triple HIV/HBV/HCV testing could identify 5 HBV and 3 HCV additional cases

Integrate HIV, HCV, HBV rapid testing in mobile PrEP clinics

Community engagement, awareness-raising and stigma elimination

- Delivery of viral hepatitis services depends on empowered individuals, families and communities as advocates of policies that promote enhanced and equitable access to testing and treatment
- Participatory approaches ensure the incorporation of community experiences and promote ownership and accountability
- Community involvement should continue throughout planning, implementation and evaluation.





-44 77

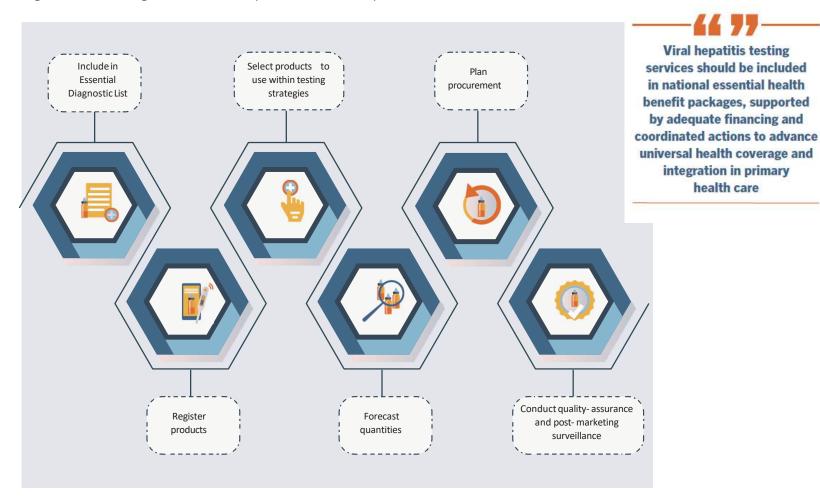
Every person we diagnose with hepatitis is not just someone we need to treat; they are also advocates and partners in advancing our hepatitis response

Box 5: Reducing stigma and discrimination and creating an enabling environment

The implementation of testing must be accompanied by efforts to address the stigma and discrimination that discourage many people from accessing essential services (2):

- Actively involve and empower people with hepatitis B, C, and D and civil society organizations to raise
 awareness and promote equitable access to hepatitis testing services.
- Reform restrictive laws and policies to remove barriers to health services, particularly for vulnerable
 populations, and foster supportive community and health care environments.
- Educate health care workers regularly to eliminate stigma and discrimination, ensuring that patients
 receive respectful and compassionate care. Protect workers with safety programmes and vaccinations
 to prevent hepatitis transmission.
- In health campaigns integrate messages promoting a society free from stigma and discrimination.
- Generate data on how stigma and discrimination impact the populations affected by viral hepatitis.
 Use these data to argue for law and policy reforms.

Figure 2. Planning selection and procurement of products



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https://www.who.int/publications/i/item/9789240104082

4. Country case examples



Health promoters from the Union of Centers, Residents' Associations of Heliopolis and Region (UNAS) facilitate prevention activities of the "Heliopolis Investing in Life" project, aimed at promoting and disseminating information on HIV prevention and other STIs in the Heliopolis region in Sao Paulo, Serial Communication on HIV prevention and other STIs in the Heliopolis region in Sao Paulo, Serial Communication on HIV prevention and other STIs in the Heliopolis region in Sao Paulo, Serial Communication of the Province of

Morocco

Low HCV seroprevalence (0.5% in 2019) (30); country population: 37.7 million in 2023 (31)

Mix of age-specific and focused HCV testing approaches delivered through decentralization and integration

Who to test

Adults ≥40 years of age plus most-affected priority populations (including key populations and people living with HIV)¹

How to test and linkage to care

HCV antibody RDT, followed by POC HCV ribonucleic acid (RNA) confirmatory test

Where to test

Diverse facility-based and community-based settings: primary health care centres (targeting individuals over 40), public hospitals (regional and provincial), public and private laboratories, prisons, addiction centres, community/ NGO-led services, HIV clinics, mobile clinics, antenatal clinics, haemodialysis centres, blood donor centres and military centres

Key implementation enablers

- Data-driven decision-making: first national viral hepatitis seroprevalence survey in 2019, generating reliable prevalence estimates to quide viral hepatitis programme priorities.
- Based on new prevalence estimates, investment case developed and served as an advocacy tool at ministerial level.
- 3. Integrated and decentralized service delivery models: Leverage established models for people living with HIV and key populations by expanding HCV testing and diagnostics in health facilities and through outreach to vulnerable groups. Use existing resources such as HIV testing workforces and diagnostic platforms (for example, Xpert for HCV RNA testing) in laboratories and hospitals. Provincial hepatitis focal points ensure monitoring and accountability, focusing on a person-centred approach to provide comprehensive services at the same time and place.
- Two nationwide, policy-led HCV testing and awareness campaigns held on World Hepatitis Day in 2022 and 2023.
- Integrated national monitoring and evaluation database using DHIS2.
- Domestic financing of HCV testing and pangenotypic direct-acting antiretroviral (DAA) treatment.

Situational analysis

In 2019 Morocco's estimated seroprevalence for HBV was 0.7% and for HCV was 0.5% (30). The HCV epidemic affects primarily populations with previous exposures to unsafe health care practices and procedures, particularly prior to introduction of blood donation screening in 1995, as well as invasive traditional practices (bloodletting), and injection drug use (30). The national serosurvey indicated that HCV prevalence was over 1% among individuals ages 40 and older, reflecting the impact of these past practices (30). The survey estimates HCV seroprevalence is 5% to

20% among people living with HIV (32), 63% among people who inject drugs, 0.3% among men who have sex with men, and no cases were detected in sex workers (Morocco Ministry of Health, 2022/2023 Integrated Biological and Behavioural Surveillance assessments, unpublished data, 2024). As of the end of 2022, 24% (32 664/135 145) of people living with chronic hepatitis C in Morocco were diagnosed, and 31% of those were treated between 2015 and 2022 (33).

Health and community system: Morocco's health system consists of a public sector serving a considerable proportion of the population and a growing private sector (30). The public health infrastructure comprises 12 regional directorates, 82 health provinces and 986 health districts organized into primary care, hospitals, emergency services and social medical establishments. Human resources are concentrated in urban centres (30). The public health system is undergoing reforms aimed at achieving universal health coverage, enhancing quality and equity in service delivery and integrating electronic health information systems. Since December 2022, 22 million Moroccans have benefited from compulsory health insurance (30).

Testing approach and strategies

Target populations for testing include high-risk groups and those ages 40 and older. Onsite HCV antibody RDTs are used, with follow-up RNA testing available in hospitals. Liver disease is assessed using Fibroscan or FIB-4 scoring. Treatment is available free of charge. Measures are in place to ensure adherence and minimize loss to follow-up, including a full three-month course of DAA therapy that can be renewed for another three months where clinically indicated. At least 83 hospital centres provide treatment, and local production of DAAs enhances access. WhatsApp groups for clinicians and pharmacists facilitate case tracking from treatment initiation through to sustained virologic response. Each province has a designated Ministry of Health hepatitis focal point for oversight and monitoring and evaluation along the cascade of care.

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Annex 5

Overview of available hepatitis C IVDs as of October 2024

	Serological testing to screen for HCV antibodies and to aid in diagnosing viraemic HCV infection	Confirming HCV viraemia to initiate treatment and monitor sustained virological response at 12 weeks after the end of treatment				
WHO guidelines (1-3)	RDY Laboratory-based immunoassay Self-testing	HBV viral load Laboratory-based HCV RNA (qualitative or quantitative) NAT Point-of-care HCV RNA NAT HCV core antigen assays				
Assay types listed in WHO Model List	Community settings and health facilities without laboratories					
of Essential In Vitro Diagnostics	Anti-HCV RDT					
	Clinical laboratories					
	Anti-HCV RDT Anti-HCV immunoassay Combined anti-HCV and HCVcAg anti-HCV immunoassay Combined anti-HCV and HCVcAg immunoassay for use in blood screening.	HCVcAg immunoassay Qualitative or quantitative HCV NAT.				
Products with WHO pre-qualification ¹	Anti-HCV RDT Bioline HCV (Abbott Diagnostics Korea Inc.) OraQuick HCV Rapid Antibody Test Kit (OraSure Technologies, Inc.) Rapid Anti-HCV Test (InTec Products, Inc.) STANDARD Q HCV AD Test (SD Biosensor, Inc.) First Response HCV Card Test (Premier Medical Corporation Pvt Ltd) HCV Hepatitis C Virus Rapid Test Device (ABON Biopharm). Anti-HCV Immunoassay INNO-LIA HCV Sore (Fujirebio Europe NV) INNOTEST HCV Ab IV (Fujirebio Europe NV) Monolisa HCV Ag-Ab ULTRA VZ (Bio-Rad).	HCV viral load NAT Abbott RealTime HCV (Abbott Molecular Inc.) Alinity in HCV (Abbott Molecular Inc.) Cobas HCV (quantitative NAT for use on Cobas 5800/6800/8800 systems) (Roche Diagnostics GmbH). Point-of-care HCV RNA NAT Xpert HCV Viral Load (Cepheid AB) + Xpert HCV VI. Fingerstick (Cepheid AB) — the only prequalified assay that can be used at or near point-of-care. HCVCAG ARCHITECT HCV Ag assay (Denka Seiken Co., Ltd, Kagamida Factory).				
HCV self-test product with WHO pre-qualification ¹	OraQuick HCV Rapid Antibody Test Kit for self-test (OraSure Technologies, Inc.)					
Benchmark prices	HCV RDT prices paid by countries: US\$ 0.21 to US\$ 2.42 per test	HCV viral load test prices paid by countries: US\$ 6.12 to US\$ 56.40 per test				
	Benchmark price: US\$ 0.80-1.10 per test ex works (Global Fund Pooled Procurement Mechanism).	Benchmark price: Several HCV viral load test suppliers offer global access pricing at US\$ 8-15 per test.				
Products on the Global Fund list that are not WHO prequalified ¹	Anti-HCV RDT INSTI HCV Antibody Test (bioLytical® Laboratories Inc. France) OnSite HCV Ab Plus Combo Rapid Test (CTK Biotech Inc, USA) Anti-HCV Immunoassay Murex anti-HCV Version 4 (DiaSorin, South Africa) Elecsys® Anti-HCV II (Roche Diagnostics GmbH) Anti HCV Antibody to Hepatitis C Virus (Shenzhen Mindray Bio-Medical Electronics Co., Ltd, China)	Genedrive HCV ID Kit (Genedrive Diagnostics Ltd., United Kingdom) Aptima HCV Quant Dx Assay Kit (Hologic, Inc. USA) ExiStation Universal Molecular Diagnostic System (Bioneer Corporation, Republic of Korea).				

Key messages





In 2022, viral hepatitis was one of the leading causes of death among communicable diseases globally, with deaths rising from 1.1 million in 2019 to 1.3 million.

Testing is the critical first step in accessing hepatitis B and C prevention, care and treatment services.



Countries should develop policies that define a strategic mix of hepatitis B and C testing approaches, based on their unique country situation and priorities.



Most people with hepatitis B and C remain undiagnosed and untreated. By the end of 2022, only 13% of the estimated 254 million people living with hepatitis B had been diagnosed, and less than 3% had received antiviral treatment. Of the estimated 50 million people living with hepatitis C, 36% had been diagnosed between 2015 and 2022, and 20% had received curative treatment.



Key enablers in implementing hepatitis B and C testing services

- political commitment
- enabling policy, regulatory and legal environment
- data-driven decision-making
- · community engagement and awareness raising
- access to quality-assured products and establishment of quality management systems at testing sites
- decentralization and integration of HBV and HCV testing with existing services and other disease programmes
- · integrated education and training of the health workforce.

A five-step framework for planning person-centred

hepatitis B and C testing approaches

Conducting a situational analysis to enable the development of testing approaches according to a country's epidemiological situation, programmatic response and gaps, health system and availability of resources.

Defining "who to test" based on country's epidemiology and priority populations and on WHO recommendations on routine testing of certain populations, general population testing approaches and focused testing of most-affected populations.

Building differentiated models for hepatitis B and C testing based on four building blocks – "when, where, who is providing services, and what" – for implementing testing services, mobilizing and creating demand, and linkage to care

Prioritizing and operationalizing a strategic mix of testing approaches using information from the situational analysis, building differentiated models of testing services and defining priority populations.

Monitor and evaluate key indicators:
Use existing data and strengthen
hepatitis B and C surveillance to
monitor testing approaches and results
and to adapt them over time.

- a. In all settings: routinely test pregnant women and health care workers for HBV and routinely test blood donors and those with clinical suspicion of chronic viral hapatitis for HBV and HCV.
- b. In all settings: Test most-affected populations through focused testing as a priority (key populations; sexual partners, children and household contacts of those with HBV infection; certain indigenous populations and migrant and mobile population groups from ≥2% HBV or HCV prevalence countries; people living with HIV, TB or STIs; populations exposed to HBV or HCV in health care settings or outside the health care system).
- c. General population testing: i) Birth cohorts with higher prevalence of HCV may be tested as a priority. ii) Geographical areas with higher HBV or HCV prevalence than the general population could be prioritized in all settings, before expanding to other areas through a stepwise approach. iii) All adults and adolescents should be offered HBV and/or HCV serological testing in settings with ≥2% HBV and/or HCV seroprevalence.

Country case examples

From England (United Kingdom), Georgia, Morocco and Uganda offer compelling examples of how testing approaches and strategies were developed and implemented. These cases highlight the use of various key enablers, a phased implementation and integration to achieve scale-up and the ongoing challenges that need to be addressed.

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Panel discussion: Country examples showcasing strategic approaches to hepatitis B and C testing services

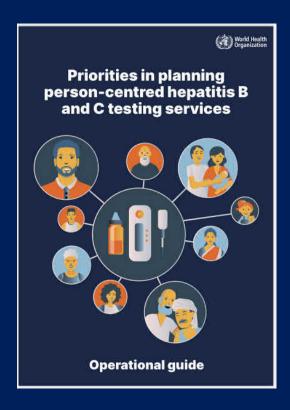


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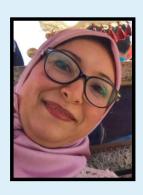




Morocco

Scaling up hepatitis C testing through a strategic mix of testing approaches: integration and decentralization

Ibtissam Khoudri
Ministry of Health, Morocco







Panel discussion: Country examples showcasing strategic approaches to hepatitis B and C testing services

ROYAUME DU MAROC

Ministère de la Santé et de la Protection Sociale

DIRECTION DE L'EPIDEMIOLOGIE ET DE LUTTE CONTRE LES MALADIES



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Webinar: Lancement du nouveau guide opérationnel de l'OMS sur les priorités en matière de planification des services de dépistage des hépatites B et C, le

Extension du dépistage de l'hépatite C grâce à une combinaison d'approches de dépistage au Maroc, intégration et décentralisation

jeudi 5 décembre 2024

Ibtissam KHOUDRI, MD, MPH, PhD

Responsable du programme national contre l'hépatite virale

Ministère de la Santé/Maroc

Prévalence de l'HVC au Maroc

	Population Générale : 0,5%
	Groupes à haut risque:
V	PID: 23-79%
1	Hemodialysés: 35% -76%
	Groupes à risque intermédiaire:0,8 -20%
	* PVVIH: 5-20%
	* IST: 3%
	* Barbiers: 1-5%
	* patients hospitalisés: 0,8–5%
	* Prisoniers: 2%

* PS/HSH/Migrants: études IBBS en cours

	O PLOS	ОМВ				
Cool Mark Crossess			The Epidemiology of Hepatitis C Virus in the Maghreb Region: Systematic Review and Meta-Analyses Fullma A, Faultula ^{1,56} , Yousra A, Mohamoud ¹⁶ , Olfina R, Mumba ¹ , Lalih J, Alius Hoddod ^{1,5,46} 1. Intectional Disease By Information of Young Well Connell Medical College, Calar, Cornel University, Calar Foundation, Floridation Olfin, Onlin, Calar, 2 Confequent Medical College, Calar, Cornel University, Calar Foundation, Floridation Olfin, Onlin, Calar, 2 Confequent Medical College, Calar, Cornel University, Calar Foundation, Floridation of America, 3 Department of Headings Follows and Medical College, Carnell Medical College, Calar, Cornel University, Calar Foundation, Calar Conference Confedence Confedence College, Carnell Calar College, Calar, Calar Cal			
MOROCCO						
High Risk						
HIV Integrated Behavioral and Biological Surveillance Survey,12 [35]	2011–2012		CS	People who inject	274	79.2%
Boulaajaj,05 [<u>36</u>]	1983-2002	Hospital	CS (Retrospective)	Dialysis patients	126	76%
Sekkat,08 [37]	2003-2004	Dialysis units	CS	Dialysis Patients	303	68.3%
Amar,05 [38]		Dialysis units	CS	Dialysis patients	85	54.12%
HIV Integrated Behavioral and Biological Surveillance Survey,12 [35]	2010-2011		CS	People who inject drugs	261	45.6%
Benjelloun,96 [39]		Hemophilia treatment cent	CS er	Hemophiliacs	118	42.4%
Bousfiha,99 [40]	1999	Hemophilia treatment cent	CS er	Hemophiliacs (children)	39	41%
Benjelloun,96 [39]		Dialysis units	CS	Dialysis patients	114	35.1%
HIV Integrated Behavioral and Biological Surveillance Survey,12 [35]	2010-2011		cs	People who inject drugs	22	31.8%
HIV Integrated Behavioral and Biological Surveillance Survey,12 [35]	2011–2012		cs	People who inject drugs	83	22.9%
El Khorassani,10 [41]	1981–2006	Hospital	CS (Retrospective)	Hemophiliacs	262	2,29%
Intermediate Risk						
Benjelloun,96[39]		STD center	cs	HIV patients	116	19.8%

Stratégie de dépistage de l'HVC



MODALITES DE DEPISTAGE					
Méthode (COMMENT ?)	Dépistage passif	Dépistage actif			
	Population générale consentante	Groupes à haut risque (UDI,			
Population cible	présentant un comportement à	<mark>hémodialysés, PS, HSH, mi</mark> gra <mark>nt</mark> s,			
(QUI ?)	risque pour le VHC et âgée de plus	détenus)			
	de 40 ans				
		*sections des ONG, CIDAGetc			
Lieu du dépistage	*ESSP (extension, projet PMS)	*centres d'hémodialyse			
(OU%)	*CHP/CHR/CHU	*centres d'addictologie			
*Centres référents VIH		*Les établissements pénitentiaires			
Outil de dépistage	*TROD	*TROD			
(PAR QUOI ?)					



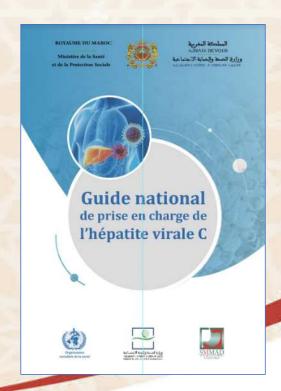
* Groupes à haut risque :

- ✓ Les PIDs ;
- ✓ Les patients hémodialysés ;
- ✓ Les professionnels du sexe ;
- ✓ Les Hommes ayant des rapports sexuels avec les hommes (HSH);
- ✓ Les personnes vivant avec le VIH (PVVIH);
- ✓ Les migrants;
- ✓ Les détenus.

Autres groupes à risque :

- ✓ Les sujets ayant eu des actes invasifs (endoscopie, intervention chirurgicale sans transfusion, etc.) avant que soient rendues obligatoires les mesures de désinfection universelle en 1996 ou dans des conditions d'asepsie douteuse (soins dentaires, etc);
- ✓ Les sujets ayant été exposés à des gestes traditionnels ou cosmétiques avec effraction cutanée avec du matériel non à usage unique (tatouage ou piercing ou mésothérapie ou acupuncture ou toute autre procédure de scarification);
- ✓ Les sujets ayant utilisé au moins une fois dans leur vie des drogues par voie intraveineuse ou intra-nasale, quelle que soit la date d'utilisation. De plus, les toxicomanes qui restent actifs doivent être dépistés régulièrement;
- ✓ Les sujets ayant été incarcérés ;
- ✓ Les enfants nés de mère séropositive pour le VHC;
- ✓ Les sujets découverts séropositifs pour le VHB;
- ✓ Les partenaires sexuels des sujets contaminés par le VHC;
- ✓ Les porteurs d'Infections Sexuellement Transmissibles (ISTs);
- Les professionnels de santé exposés au risque d'accidents d'exposition au sang (AES). Le dépistage de l'HVC doit se faire systématiquement en cas d'AES;
- Les membres de l'entourage familial des patients contaminés, du fait du risque d'exposition au VHC par le partage d'objets souillés de sang (objets de toilette notamment);
- ✓ Les personnes âgées de 40 ans et plus.

GROUPES CIBLES DU DEPISTAGE



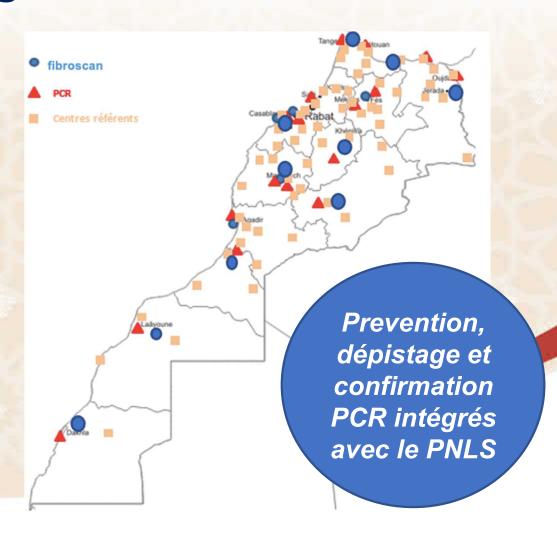
Offre de dépistage et de PEC de l'HVC

Offre de dépistage

2 000 centres de dépistage (ESSP, ONG, établissements pénitentiaires, centres d'addictologie)

Offre de prise en charge

83 Centres de prise en charge 160 gastro-entérologues 28 laboratoires (Genexperts, etc) 14 fibroscans)



PERSPECTIVES

- Maintenir les acquis et pérenniser le PNLHV
- Concrétiser la micro-élimination de l'HVC chez les hémodialysés et les PID
- Vaccination des populations clés pour le VHB
- Intensifier le dépistage (autotest pour l'HVC)
- Intégration de l'HVB dans le dispositif de dépistage et de prise en charge (dans le cadre du nouveau PSN intégré VIH/IST/HV 2024-2030)
- Lancer la triple élimination du VIH/HVB/Syphilis de la mère à l'enfant avec la DP
- Implication du secteur privé dans la stratégie nationale d'élimination de l'HVB/HVC

England (United Kingdom of Great Britain and Northern Ireland)

Finding the missing cases: Opt-out testing for hepatitis B and C and HIV in emergency departments in England

Ian Jackson
NHS England, United Kingdom







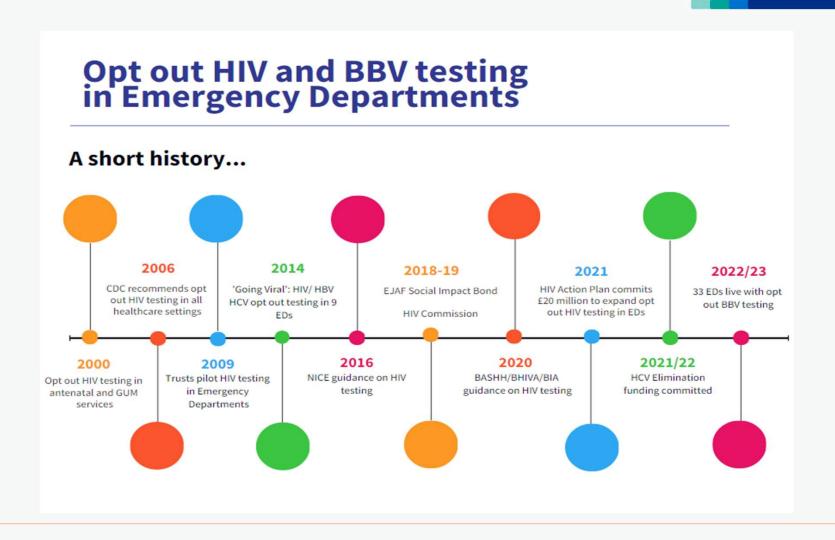
Panel discussion: Country examples showcasing strategic approaches to hepatitis B and C testing services



Opt-out Blood Borne Virus (BBV) testing in Emergency Departments

WHO Webinar Launch of Operational Guidance 5th December 2024

lan Jackson, National Adviser, Opt-out testing, NHS England.



The programme

- The government's HIV Action Plan 2021 sets out a programme to achieve the government's commitment: by 2030 we will have achieved zero HIV transmissions in England. The government have committed to a new HIV Action Plan by Summer 2025
- December 2021 NHSE announced £20m for all EDs in areas with very high HIV diagnosed prevalence, to include a test for HIV, Hepatitis B (HBV) and Hepatitis C (HCV), when blood is drawn, unless a patient opts out.
- In partnership with NHSE Hepatitis C Elimination team, project expanded to test HBV and HCV
- 34 Type 1 EDs included: all 28 EDs in London, 4 in Manchester/Salford, Brighton and Blackpool.
- Opt out testing confirmed to be effective both in identifying and linking to care those people living with HIV who were unaware of their diagnosis or previously diagnosed but not in care.
- Vulnerable people disproportionately attend EDs opt out testing at scale in EDs is a key intervention to meet this need.
- December 2023 programme expanded to EDs in high HIV prevalence areas, committing £20m to a NIHR funded research project to examine impact of expansion of ED testing.
- 46 sites are in scope 15 have now gone live, with a further 5 starting before Christmas.
- Significant political interest and support mentioned by Prime Minister specifically 28th November 2024



Everyone aged 16 and older who has their blood tested in a London Emergency Department (A&E) now has it tested for HIV, hepatitis B and hepatitis C.

It's important to get diagnosed early as treatment is life-saving and free from the NHS.

Your results are confidential.



ED BBV testing: All Sites April 2022 – September 2023 (18 months)

	Number of tests: HIV, HBV surface antigen, HCV antibody	New diagnoses	Previously diagnosed, not in care	Tests to find one new or re-engaged person	Previously diagnosed, In care
HIV	1,401,866	569	345	1,534	7,656
Hepatitis B	730,137	2,206	388	281	1,574
Hepatitis C current infection (RNA+)	960,328	867	186	912	265
Total	3,092,331	3,642	919	n/a	9,495

^{*}Subject to ongoing UKHSA validation. New defined as new to clinic and not disclosing under care. Numbers are based on attendances not individual patients, may lead to over reporting especially of those previously diagnosed not in care.

Acknowledgements

We are grateful to all those who have worked so hard to make this programme possible and so successful.

The ED BBV Opt out testing project team: Ian Jackson, Rachel Hill-Tout, Stephen Hindle, Nicola Spencer, Georgia Threadgold, Beatrice Emmanouil, Mark Gillyon-Powell, Adam Cooper, Mark Smith, Mohammed Absar, Agnes Webb, Karen Jones, Kim Boyle

NHSE Prevention Team:,

Matthew Fagg, Jeff Featherstone, Masuma Altaf, Niall McDermott

DHSC:

Professor Kevin Fenton, Adam Winter,

Members of the BBV Opt out testing Steering Groups, Community Forum, Data and Evaluation subgroups Trusts who pioneered HIV optout testing in EDs prior to national funding becoming available

Trusts who pioneered opt-out BBV testing in EDs: "Going Viral", "Get Tested LeEDs", GSTT, Manchester, Barts, North Middlesex

The Elton John AIDS
Foundation Zero HIV Social
Impact Bond team and
partners

ICS leads and colleagues in London, Brighton, Greater Manchester and Lancashire and South Cumbria ICBs

HCV ODN Clinical Leads in London, Brighton, Blackpool and Manchester

Expert advisory group: Ann Sullivan, Laura Waters, Nicola Mackie, Tristan Barber, Ian Cormack, John McSorley, Orla McQuillan, Emily Cheserem, Elizabeth Hamlyn, Kathryn Harrop, Larissa Mulka, Clare Van Halsema, David Chadwick, Hannah Alexander, Clare Dewsnap, Matt Phillips, Oliver Mizzi, Emma Young, Laura Hunter, Russell Durkin, Alun Marc Henry, Graham Foster, Patrick Kennedy, Ashley Brown, Kosh Agarwal, Doug Macdonald, Kate Drysdale, Thendral Murugesan, Javier Vilar, Richard Angell, Danny Beales, Stuart Smith, Rachel Halford, Garry Brough, Mel Rattue, Denis Onyango, Deryck Browne, Dee Cunniffe, Lauren Bull, Andrea Cartier, Jacqueline Lindo.

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National AIDS Trust
Terrence Higgins Trust
Elton John AIDS Foundation
The Hepatitis C Trust
George House Trust
The British HIV Association
The British Association for
Sexual Health and HIV
The Fast Track City (London)
team
The All Party Parliamentary

Group on HIV and AIDS
Transformation Partners in
Health and Care
University of Bristol

NHS: All new expansion sites.

Uganda

General population hepatitis B testing in high HBV prevalence setting through geographical prioritization: Scaling up testing in Uganda

Miriam Ajambo
Ministry of Health, Uganda







Panel discussion: Country examples showcasing strategic approaches to hepatitis B and C testing services



Priorities in Planning Person-Centred Viral Hepatitis B and C Testing Services

Dr. Miriam Ajambo(MBCHB, MPH, MMED)

Senior Medical Officer Ministry of Health Uganda

Situational analysis of hepatitis in Uganda

Hepatitis B Burden in Uganda

- The **national prevalence** of Hepatitis B infection among adults is ~4.1% (UPHIA,2016)
- Regional variation: The highest prevalence was reported in the mid-North region (4.6%) and the lowest in the South-Western region (0.8%)

Hepatitis C Burden in Uganda

- Estimated national prevalence of 1% of the population (modelled estimates, CDA Foundation)
- Diagnosis is low- only about 7% of diagnosed
- Annually <1% receive treatment

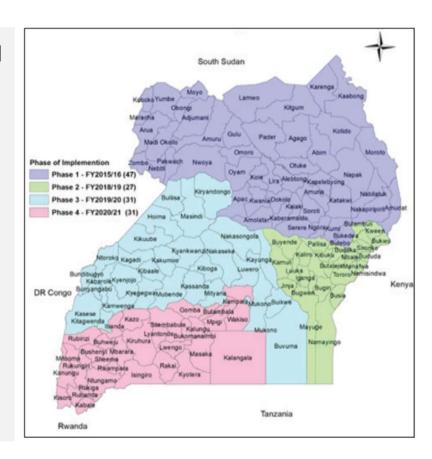
National Response

- Annual budget from the government since 2015 for public facilities
- Funding support from Global Fund and PEPFAR for hepatitis commodities among PLHA and Pregnant women
- · Hepatitis B (HBV) Prevention & Control
 - ✓ Pentavalent vaccine in 2002 as part of the EPI
 - ✓ Hep B birth dose -in 2022 attaining 39% coverage (AHSPR, 2023)
- Progress to HCV prevention and control still lags, with limited focus on PWIDs

Testing approach and strategies

Hepatitis B Burden in Uganda

- Phased mass testing and vaccination campaign launched in 2015. Commodities procured by GoU through NMS
- Testing with hepatitis B surface antigen test
 - ✓ All adolescents and adults born before 2002, Mass vaccination of negatives and plans for linkage to care and treatment positive
 - ✓ All health workers to be vaccinated before assumption of duty
 - ✓ Private facilities referred patients to public facilities
- HBV screening at:
 - √ healthcare facilities
 - ✓ Community-based testing through outreach and during mass gatherings
 - ✓ Private sector testing including in workplaces



Key actions for successful HBV testing

- Targeted number of adolescents and adults born before 2002= 17 million,
 - ✓ 5 million (30%) tested; 326,000 (6%) positive and 4.9 million (94%) tested negative
 - ✓ Vaccination status of the negatives; 77% -1st dose, 51% 2nd dose, and 30% -3rd dose
- Linkage to care; 132,000 (40%) of the total positives
- Community engagement: Active involvement of and strong advocacy by CBOs -raising awareness and promoting testing
- Integration of hepatitis B and C data collection tools (including register of HBsAg positive cases)- if utilised well can support linkage into care

Key challenges and ways forward

Key challenges	Way Forward
 Gaps in linkage to care and treatment for patients diagnosed with HBV 	 Develop pathways for linkage, leveraging on HIV care approach
 Total reliance on the Hub system HBV DNA viral load sample transportation leading to long TAT) Lack of capacity by health facilities to do chemistry and FBC 	 Enhance laboratory capacity to perform POC HBV DNA viral load tests, liver function tests and FBC
 Service delivery gaps for specific population groups, including pregnant women, healthcare workers, health students, individuals living with HIV or other STIs, PWID, MSM, sex workers, prisoners, household contacts of those with chronic hepatitis B, and frequent recipients of blood or blood products. 	 Strengthen continuum of care for improved access to services for pregnant women (Testing and treatment at ANC) for the triple elimination of HIV, HBV, and syphilis More focus on other priority groups
Frequent stock-outs of TDFLimited awareness	 Local manufacture, accurate estimation and forecasting TDF More sensitisation to increase demand

Georgia

HCV elimination through a nationwide general population hepatitis C testing in Georgia: integration, decentralization and simplification of testing strategies

Maia Tsereteli

National Center for Disease Control and Public Health, Georgia.







Panel discussion: Country examples showcasing strategic approaches to hepatitis B and C testing services





HCV elimination through a nationwide general population hepatitis C testing in Georgia:

Integration, decentralization and simplification of testing strategies

Maia Tsereteli MD, PhD
Head of Division HIV/hepatitis/STI/TB
National Centre for Disease Control and Public Health Georgia

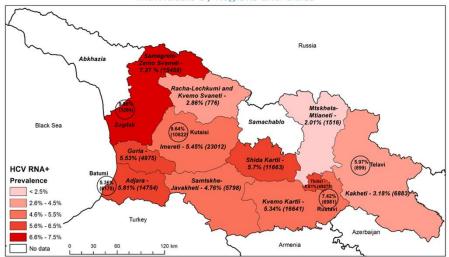
Background:

HCV Seroprevalence Survey, 2015 vs 2021

- Georgia is a country with the population of 3,7 million
- The initial serosurvey on Hepatitis C conducted in Georgia by NCDC with close partnership with the U.S. CDC in 2015 showed a prevalence rate of HCV RNA in 5.4% of the adult population.
- In 2021, repeated nationwide serosurveys on hepatitis B and C demonstrated a prevalence of HCV RNA in 1.8% of population.

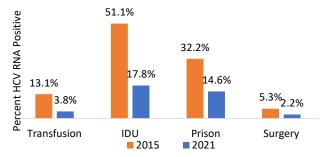
Prevalence of chronic HCV infection has decreased by 67%





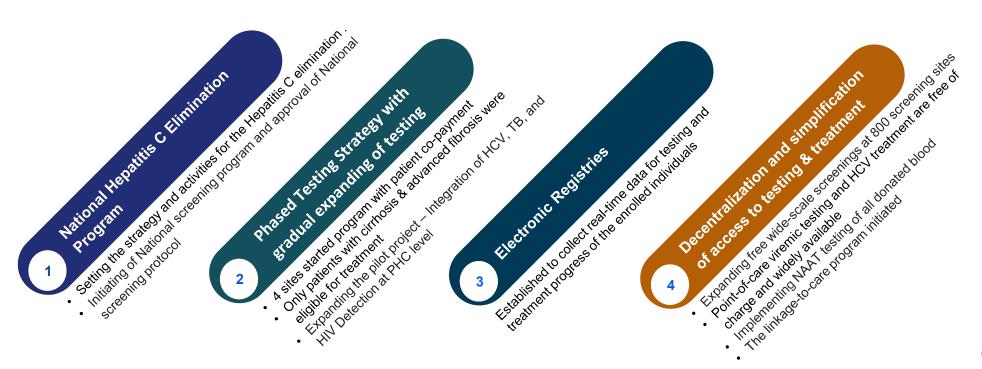
2015 and 2021 National Serosurvey for Hepatitis B and C in Georgia

Characteristics	Adults 2015	Adults 2021	Children 2021
Anti-HCV+	7.7%	6.8%	0%
HCV RNA +	5.4%	1.8%	0%
Anti-HBc+	25.9%	22.6%	0.7%
HBsAg+	2.9%	2.7%	0.03%



Key Actions for

Successful HCV Testing:



Decentralization

Of testing and treatment services

Who to test:

Entire adult population ≥18 years old. People with advanced liver disease prioritised before expanding to rest of population, including focused testing among priority population and agespecific testing. Initial phase began in the capital before expanding to other regions.

How to test:

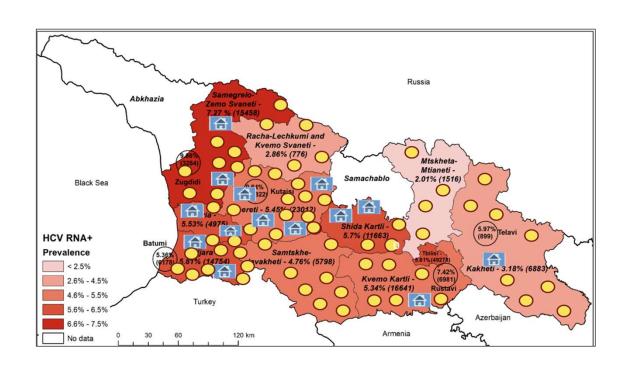
HCV antibody test (RDT or lab-based), followed by HCV RNA (point-of-care and qualitative HCV RNA) or HCV core antigen confirmatory testing.

Where to test:

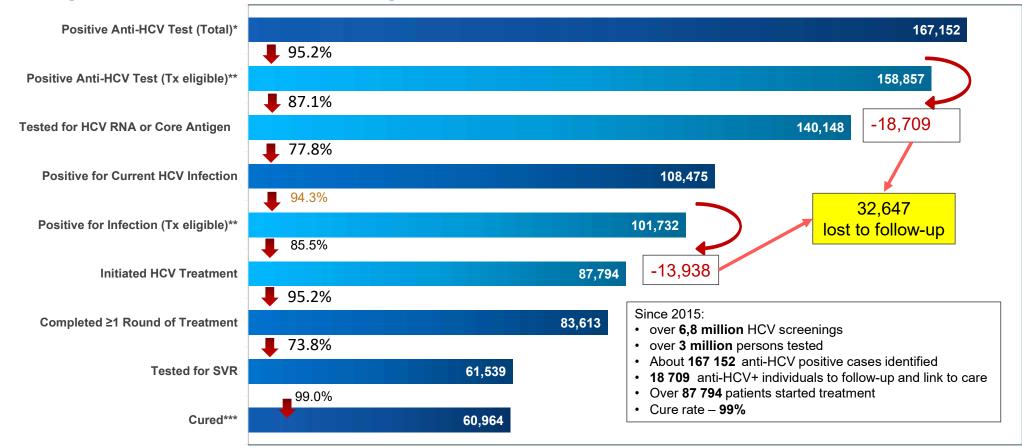
Hospitals (inpatient, outpatients), HIV clinics, PHC, harm reduction sites and community outreach

Objectives of the decentralization were to:

- Increase geographical accessibility
- Increase financial accessibility



Georgia Hepatitis C Elimination Program Care Cascade, 28 April 2015 – 30 June 2024



^{*} Among persons with national ID number. An additional 18,586 screened anti-HCV+ using an anonymized 15-digit code. Thus, their representation in the cascade cannot be confirmed; ** Age ≥12 years with no mortality data prior to progressing in cascade

^{***} Per-protocol, includes retreatments. Among 61,931 persons tested after their 1st round of treatment, 60 058 (97.0%) achieved SVR (Including 82.4% for SOF-based regimens, 98.2% for SOF/LED regimens, and 98.5% for SOF/VEL regimens). 2,482 persons were retreated with a 2nd round of treatment, with 94.3% (1,209/1,375) of those tested achieving SVR. Overall SVR by Intention-to-Treat analysis: 71.8%

Key Challenges and Next Steps:

Scale up testing:

Prioritize testing for high-risk populations, focusing on men over 30, areas with higher HCV RNA prevalence, and other vulnerable groups using a one-time testing approach

Strengthen linkage to care:

Address care cascade gaps by diagnosing the remaining 18,709 individuals and treating 13,938 others through enhanced outreach, awareness campaigns, and the introduction of patient navigators.

Infection control and prevention:

Strengthen preventive measures for both the general population and key risk groups.

Active reinfection surveillance:

Improve surveillance for reinfections and ensure patients are linked to care. While the second HCV RNA test remains out-of-pocket, treatment remains free.

Increase awareness:

Strengthen community awareness of HCV, treatment options, and the national elimination program while providing additional training for primary healthcare workers

Validation of elimination pathway:

Prepare for validating hepatitis C elimination, with a focus on measuring mortality rates.

Acknowledgements



MINISTRY OF INTERNALLY DISPLACED PERSONS FROM THE OCCUPIED TERRITORIES, LABOUR, HEALTH AND SOCIAL AFFAIRS OF GEORGIA





























HCV Elimination Program Providers
TAG Members

Civil society and community perspectives and experiences

Humberto Silva

Rotary Action Group for Hepatitis Eradication







A volunteer encourages people to get tested for hepatitis in São Tomé and Príncipe.

Photos courtesy of Hepatitis Zero

Photo source: https://www.rotary.org/en/brazil-rotary-member-mission-eliminate-hepatitis

I found out I had the virus...



Thanks to that I am alive today



TEST, TEST, TEST THE ONLY WAY TO A CURE











2019 HEPATITIS ZERO CAMPAIGN: 3 MILLION PEOPLE TESTED IN 50 COUNTRIES



FAILURE TO TEST IS A VIOLATION OF HUMAN RIGHTS





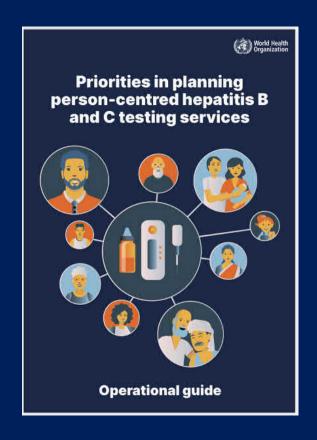


ABPH.

Closing remarks and acknowledgements

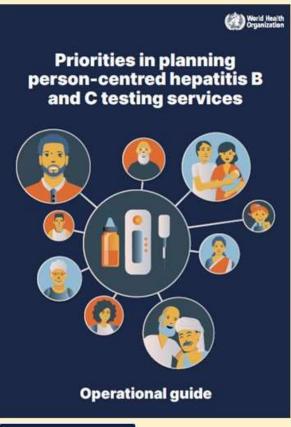
Meg Doherty
Funmi Lesi
Niklas Luhmann
Sahar Bajis
Myat Sandi Min
Jiemei Chan
Diana Faini
Heather Ingold







Thanks for attending our webinar on launching the WHO operational guide on priorities in planning person-centred hepatitis B and C testing services!





Scan QR code or click HERE for registration!

Webinar: Launch of WHO operational guide on priorities in planning person-centred hepatitis B and C testing services



Date: Thursday, 5 December 2024, Time: 10:00 – 11:30 AM (Central European Time)
The webinar will be held in English, with simultaneous interpretation in French.

Co-chairs

Funmi Lesi (Global HIV, Hepatitis and STIs Programmes, WHO Headquarters)
Oriel Fernandes (Clinton Health Access Initiative)

Opening remarks	Meg Doherty (HHS, WHO HQ)		
Community perspective on successful implementation of differentiated hepatitis B and C testing approaches	Danjuma Adda (World Hepatitis Alliance, Nigeria)		
Launch: Operational guide on priorities in planning person-centred hepatitis B and C testing services	Niklas Luhmann (HHS, WHO HQ)		
Panel discussion: Country examples showcasing strategic approaches to hepatitis B and C testing services	Muhammad Shahid Jamil (WHO EMRO) Mugagga Kaggwa (WHO CO, Uganda)		
Scaling hepatitis C testing though a mix of testing approaches in Morocco: integration and decentralisation	Ibtissam Khoudri (Ministry of Health, Morocco)		
Finding the missing cases: Opt-out testing for hepatitis B, C and HIV in emergency departments in England, United Kingdom	lan Jackson (NHS England, United Kingdom)		
General population hepatitis B testing in high HBV prevalence setting through geographical prioritisation: Scaling up testing in Uganda	Miriam Ajambo (Ministry of Health, Uganda)		
HCV elimination through a nationwide general population hepatitis C testing in Georgia: integration, decentralisation and simplification of testing strategies	Maia Tsereteli (Ministry of Health, Georgia)		
Civil society perspective	Humberto Silva (Rotary Action Group for Hepatitis Eradication)		