



Linking Knowledge to Action: Empowering HCPs in Screening and Treatment of Patients Across the Viral Spectrum

Actionable Strategies to Engage with High-Risk Patient Populations in HBV, HCV, and HDV Care

This activity is supported by an independent educational grant from Gilead Sciences, Inc.



LEARNING OBJECTIVE

Develop tailored strategies that address barriers to effective engagement with high-risk populations, including people who inject drugs (PWID) and other underserved groups, as part of the care continuum for HBV, HCV, and HDV

Key Highlights from AASLD 2025



- **New AASLD/IDSA Hepatitis B Guidelines** were released, emphasizing broader HBV screening – particularly one-time screening for all adults – along with simplified treatment initiation criteria and clearer recommendations for monitoring special populations
- Data presented highlight **promising progress toward an HBV functional cure**, with combination regimens such as siRNA- and capsid-inhibitor-based approaches, showing deeper and more sustained HBsAg declines than monotherapy. While still investigational, these regimens point toward a future of finite treatment courses
- For hepatitis C, updated studies of **ultra-short and long-acting DAA therapies showed SVR rates above 95%**, offering potential game-changers for difficult-to-reach populations, including individuals without stable housing and people who inject drugs
- **Real-world data for bulevirtide in HDV** demonstrated continued improvements in viral suppression and liver inflammation, reinforcing its role as a foundational HDV therapy

Faculty Introductions



WHO Target for Viral Hepatitis Elimination

- By 2030 (compared to 2015 rates):
 - 90% reduction in new infections
 - 65% reduction in viral hepatitis-related deaths
 - Focus on five core areas:
 1. ↑ HBV vaccination coverage
 2. Prevent mother-to-child transmission of HBV
 3. Ensure blood and injection safety
 4. Implement harm reduction measures
 5. Expand testing and treatment



People Who Inject Drugs (PWID)



PWID remain underserved

Marginalized in different settings

Immigrants & refugees from Ukraine (includes PWID) in Germany, Europe

Limited resources in Germany for treating addiction

France relatively active in treating underlying addiction

Stigma significant problem for PWID

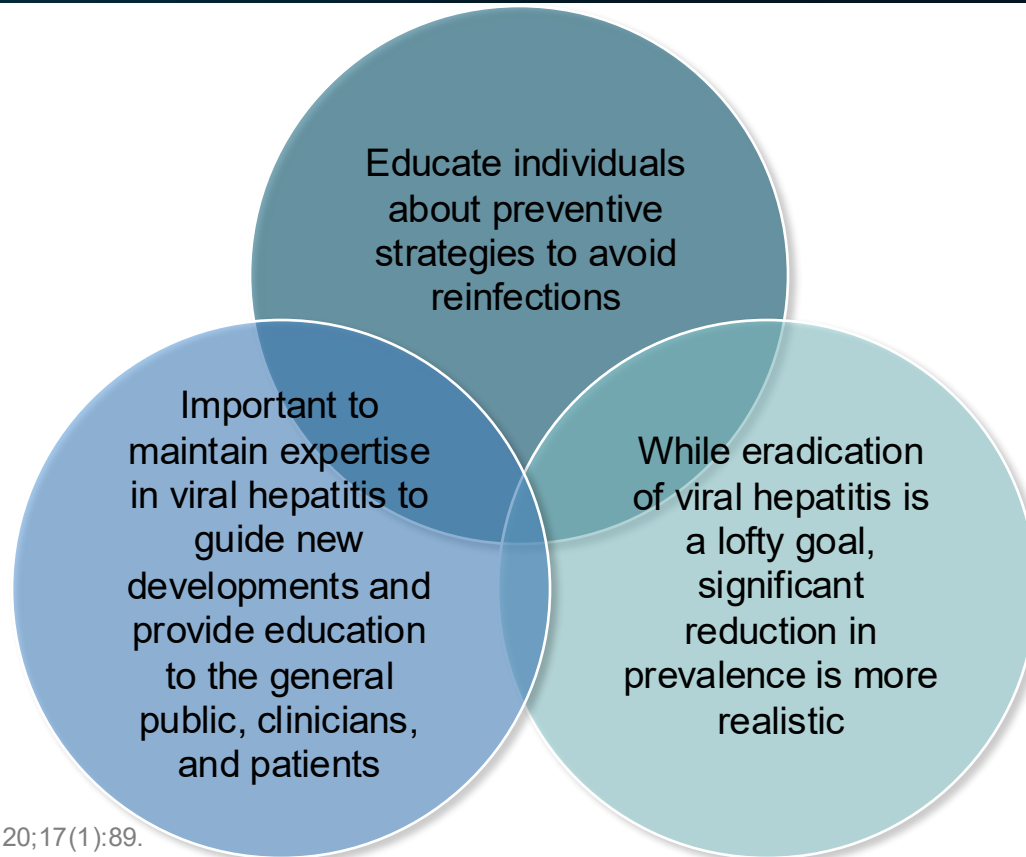
PWID often marginalized for other reasons beyond drug use

Initiatives in France

- Partial efficacy
 - Low threshold care harm-reduction models
 - Quasi-unconditional access to services, anonymity, and immediate support (e.g., sterile syringe distribution, overdose prevention kits)
 - Mobile units and outreach teams
 - Peer support, community engagement
 - Digital tools (mobile phones)
 - Simplification and decentralization of treatment
 - Education on prevention and transmission



Treatment is Not Enough



Resistance-Associated Variants (RAVs) vs Resistance-Associated Substitutions (RASs)



- **RAVs:** mutations in the viral genome that can make the drug less susceptible to antiviral drugs
- Variants may exist before treatment begins or may be selected for during therapy

- **RASs:** amino acid changes in a pathogen (e.g., HCV) that confer resistance to antiviral drugs
- Substitutions can pre-exist in a virus population or emerge when the virus mutates under the selective pressure of a drug, leading to treatment failure

Key Questions: Resistance Testing



Do we need genotyping?

Are these resistant-variant substitutions a clinically relevant problem?

Do you still perform resistance testing in distinct individuals?

Increasing Diagnosis in Underserved Patients in Asia



- Viral hepatitis remains underdiagnosed in difficult-to-reach populations in Asia
 - HCV often detected through testing
 - HDV is not frequently seen but certain areas are notably impacted (e.g., Mongolia) – testing should be increased
 - Estimates suggest nearly 60% of HBV-infected individuals are also co-infected with HDV in Mongolia
 - Leads to more aggressive progression of liver disease
 - Controlling HBV may obviate need for HDV testing



Hepatitis C in Underserved Asian Populations

- Varies by region
 - Low prevalence in Hong Kong
 - Significantly high prevalence in northern China
- Complete cure with all-oral, pangenotypic direct-acting antiviral (DAA) regimens
- Liver cancer screening: should continue even after hepatitis C cure to facilitate early detection
 - Depending upon level of fibrosis/cirrhosis early enrollment for transplant may be appropriate – especially in patients at younger age



*In vulnerable populations, is HIV-HCV
coinfection still a concern?*



HCV in the United States: Not “Game Over”

- In the United States, pace of cures is not keeping up with the pace of new infections for hepatitis C
- Significant reductions in HIV-HCV co-infection
 - Testament to integrated care models
 - Sporadic cases still exist



For patients with multiple hepatitis C re-infections, what is your approach?



***Community Outreach: Mobile Van
Testing and Linkage-to-Care Programs***



Mobile Screening Programs in the United States

- Programs throughout the United States
- Opportunities for community screening, counseling, linkage to care
- Example: Behavioral Health Leadership Institute, Baltimore, MD USA



Addressing Underserved and Marginalized Groups in Spain: High-Risk Populations

- Number of PWIDs heterogeneous throughout Europe
- In some eastern European countries, still criminalized
- Portugal and Spain have active harm-reduction programs
 - Needle-exchange programs
 - Opioid substitution therapy clinics
 - Hepatitis B, C screening and treatment



Harm Reduction Programs in Spain: Mobile Health Units

- Mobile health units support community outreach
 - Several units in Madrid
 - Balearic Islands
- Mobile unit services may include substitution meds, screening, vibration-controlled transient elastography [VCTE] (FibroScan)





 Which of the following can be diagnosed using dried blood spot testing?

- A. HBV
- B. HCV
- C. HBV and HCV
- D. HBV, HCV, HDV
- E. I don't know



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Dried Blood Spot Testing (DBS)

- DBS facilitates community-based programs
- Implemented in local Mongolian communities in Spain



DBS Testing in HBV, HCV, and HDV

- Point-of-care (POC) antibody testing provides results in minutes
- If positive, DBS sample used for more definitive viremia test
- Facilitates linkage to care
- For hepatitis D, all positive cases are confirmed at the hospital level



SMART Goals

Specific, Measurable, Attainable, Relevant, Timely

Put information into action! Consider the following goals; then *set a time frame* that fits with your work environment and *a reasonable improvement target* that aligns with your patient population.

- Within 6 months of completing this activity, incorporate at least one harm-reduction-based screening pathway (e.g., offering testing in opioid substitution therapy clinics or needle-exchange programs) to increase viral hepatitis screening uptake among people who inject drugs
- Over the next year, work with at least one community partner (for example, mobile outreach teams, primary care centers) to implement or refine a standardized referral and follow-up process that increases timely linkage to treatment for marginalized populations



Other activities in this series...

- Improving Time to Treatment Initiation for Viral Hepatitis (HBV, HCV, and HDV) through Screening and Diagnosis
- Incorporating Collaborative Care Strategies to Enhance Linkage to Care and Treatment Initiation in Viral Hepatitis
- Shared Decision-Making and Motivational Interviewing in the Care of Patients with HBV, HCV, and/or HDV



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