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Community-Based Services to Improve Hepatitis B Testing and Linkage to Care Among Hard-to-Reach Populations

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Hep B United Webinar

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Global Hepatitis B Virus Surface Antigen Prevalence in Adults, 1957--2013



Burden of Chronic Hepatitis B Infection, United States

Prevalence: About 1 million chronic infections

- 65% unaware of infection status
- 70% are non-U.S.-born

1 million immigrants enter the US annually

- >60% from intermediate-high HBV endemic countries
- Top 5: China, Philippines, Vietnam, Korea, India

	<u>Imported</u>	<u>U.S Acquired</u>
Cases / year	54,000	3,800
Mortality	24%	15%
Deaths / year	13,000	570 Based on NHANES, Mitchell et al. PLoS One 2011:6(12

Chronic Hepatitis B Care Continuum, USA, 2011



Purpose of Hepatitis B Testing and Care Program

- To improve the capacity of healthcare providers and other stakeholders to serve populations of persons born in countries with intermediate-high HBV prevalence
- Goals:
 - Increase testing of non-US-born persons for hepatitis B
 - Increase vaccination of susceptible persons
 - Increase linkage to ongoing, high quality HBV-directed care for persons identified with chronic hepatitis B

Community-based Hepatitis B Programs – Test and Link to Care

Interventions through Partnerships



Hepatitis B Linkage to Care Continuum, Three U.S. sites, October 2014–September 2017



Unadjusted Odds Ratios for Selected Characteristics among Persons Participating in Three US Programs

Factor	HBsAg-Positive	Linkage to Care	Antiviral Rx
Male	413 (55)	N.S.	1.6 (1.1–2.4)
>50 years old	239 (32)	0.5 (0.3–0.7)	2.0 (1.4–3.0)
Race, Asian	602 (80%)	N.S.	N.S.
No Health Insurance	121 (16)	0.3 (0.2–0.4)	N.S.
Liver cirrhosis	18 (2%)	N.S.	13.1 (4.2–40.6)
HCC*	9 (1)	N.S.	24.6 (3–202)

N.S.: Not statistically significant *HCC: Hepatocellular Carcinoma

Hepatitis B Testing and Vaccination of 273 Household or Sexual Contacts of HBsAg+ Persons

Household or sexual contacts	n (%)
Testing Results	273 (100)
HBsAg+	39 (14)
Anti-HBc+/anti-HBs+	71 (26)
Anti-HBs+/antiHBc-	101 (37)
Anti-HBc+ only	12 (4)
Susceptible (negative to 3 HBV markers)	50 (18)
Hepatitis B Vaccination Results	50 (100)
HepB dose 1	37 (74)
HepB dose 2	32 (64)
HepB dose 3	25 (50)

Best Practice Implementation Strategies

- Educational curricula
- Training protocols
- Patient navigation services
- Community outreach
- Screening events
- HBV testing voucher coupons
- Clinical decision support tools in EMR

Conclusion

- Hepatitis B testing and linkage to care can be achieved among hard-to-reach populations through partnerships:
 - Community organizations
 - Health centers
 - Public Health Departments
- Household and sexual contacts of HBsAg+ persons should be tested and linked to care or vaccinated
- Patient navigators were critical for sustained linkage to care

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