

BACKGROUND

- HBV and HIV co-infection is associated with high morbidity and mortality
- Guidelines and recommendations for vaccination and postvaccination monitoring vary

2013 IDSA Recommendations > Check anti-HBs concentrations 1-2 months after completion of the vaccine series



- > If <10 mIU/mL, administer either:
- Another 3-dose series (standard or high dose)
- **1 dose followed by repeat anti-HBs is** testing

STUDY AIM

Evaluate current HBV screening, vaccination, and monitoring practices of physicians who care for patients living with HIV

METHODS

- Web-based survey consisting of demographic questions and two sets of case-based questions
- **Distributed to:**
 - **UCSD ID division**
 - **IDSA** members
 - **Twitter and Facebook social** networks



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Physicians who care for patients living with HIV have varied approaches to hepatitis B virus screening, vaccination, antibody monitoring, and management of isolated core antibody.

	n ART 8 (78%)	
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Postpone vaccination until HIV VL is suppressed 14		
	(19%)	
Defer vaccination since the patient is on ART 1 ((1%)	
Other 1 ((1%)	
Preferred initial HBV vaccination series for susceptible individuals living with HIV		
Energix-B or Recombivax HB 21	(29%)	
Heplisav-B 31	(42%)	
Any of the above 21	(29%)	
Preferred dose & schedule if using Engerix-B or Recombivax HB for initial vaccine series		
Standard dose at 0, 1, and 6 months 62	(90%)	
Double dose at 0, 1, and 6 months 7 ((10%)	
Standard or double dose at 0, 1, 2, and 6 months 0 ((0%)	
Preferred intervention if patient does not seroconvert after first vaccination series		
No further intervention 4 ((6%)	
Repeat with Engerix-B or Recombivax-HB at standard dose at 0, 1, and 6 months 15	5 (22%)	
Repeat with Engerix-B or Recombivax-HB at double dose at 0, 1, and 6 months19	(28%)	
Repeat with Engerix-B or Recombivax-HB at standard dose at 0, 1, 2, and 6 months 2 ((3%)	
Repeat with Engerix-B or Recombivax-HB at double dose at 0, 1, 2, and 6 months0 ((0%)	
Repeat with Heplisav-B 29	(42%)	
Preferred hepatitis B immunity monitoring after successful vaccination with seroconversion		
No further monitoring 57	(83%)	
Check HBsAb yearly, and repeat series if titer drops below 10mIU/mL 12	2 (17%)	
Preferred management of positive isolated hepatitis B core antibody		
No further intervention 16	6 (22%)	
Initiate hepatitis B vaccination 18	3 (24%)	
Give a single dose of Engerix-B or Recombivax HB with HBsAb titer check 1 month later 7 ((9%)	
Check HBV DNA level 33	6 (45%)	

Hepatitis B Virus Screening and Vaccination in Patients with HIV: A Survey of Physicians' Current Clinical Practice

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Standard HBV vaccination and antibody monitoring recommendations informed by efficacy and cost-effectiveness data could be beneficial in the care of patients living with HIV

FUTURE RESEARCH TOPIC IDEAS Chart review of actual vaccine and monitoring practices Outcomes of patients with isolated hepatitis B core antibody **Evaluation of safety and efficacy** of Heplisav-B in patients living with HIV

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ULTS

4 clinicians from 26 states articipated 2% would use Heplisav-B over Ider HBV vaccine formulations lajority would repeat a accination series if the patient oes not seroconvert 7% would monitor HBsAb early

SOLATED HEPATITIS B CORE ANTIBODY Majority (45%) would check an HBV DNA level 24% would initiate a vaccination series 22% would not pursue further intervention

CONCLUSION