

Mini-Lecture Series

Immunizations for Persons with HIV: Recent Updates

David H. Spach, MD Editor-in-Chief, National HIV Curriculum Professor of Medicine Division of Allergy and Infectious Diseases University of Washington

Last Updated: December 9, 2022

National HIV Curriculum www.hiv.uw.edu



Disclaimer

Funding for this presentation was made possible by U1OHA32104 from the Human Resources and Services Administration HIV/AIDS Bureau. The views expressed do not necessarily reflect the official policies of the Department of Health and Human Services nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government. Any trade/brand names for products mentioned during this presentation are for training and identification purposes only.





Dr. Spach has no financial conflicts of interest or disclosures.



New Immunization Recommendations for Persons with HIV





Hepatitis B Virus (HBV)



Herpes zoster (shingles)





Pneumococcal Immunization



Pneumococcal Vaccines

Polysaccharide Vaccine

Conjugate Vaccines



PPSV23 (Pneumovax 23)

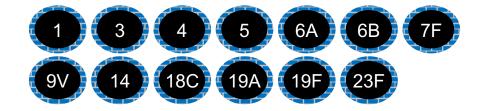


PCV13 (*Prevnar*-13) PCV15 (Vaxneuvance) PCV20 (*Prevnar*-20)

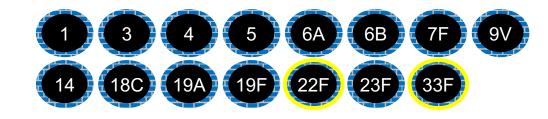


Pneumococcal Conjugate Vaccine (PCV-13)

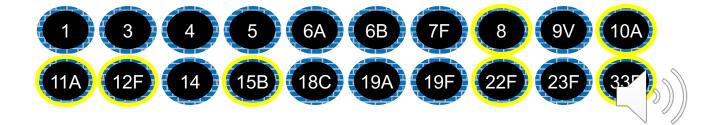
PCV13 Serotypes



PCV15 Serotypes



PCV20 Serotypes



Jational HI

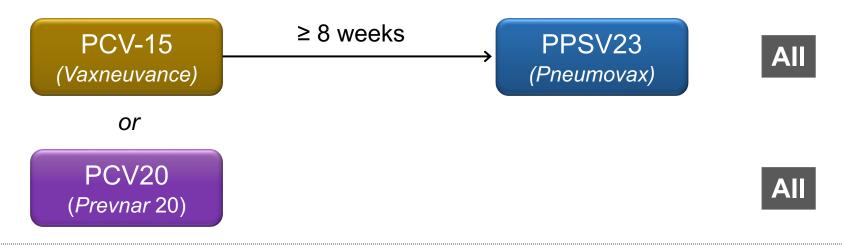
Pneumococcal Immunization Recommendations for Pneumococcal Vaccine-Naïve Adults with HIV



Adult Opportunistic Infections Guidelines Pneumococcal Immunization in Adults with HIV

New

Pneumococcal Vaccine-Naïve Adults



Administer PCV (15 or 20) to PWH, on ART with CD4 count >50 cells/mm³.



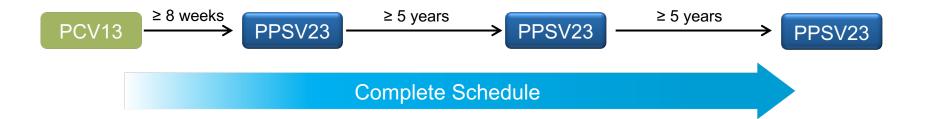
What do you do if you have already started the pneumococcal vaccine series with PCV13?



Adult Opportunistic Infections Guidelines Pneumococcal Immunization in Adults with HIV

Prior Receipt of PCV13 without Completing Vaccine Schedule*

≥ Age 65



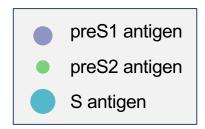


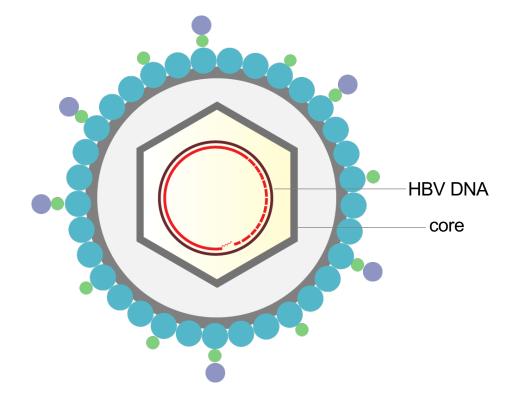


Hepatitis B Immunization



Hepatitis B Virus Surface Proteins







Recombinant Hepatitis B Vaccines

Old (Single Antigen)	Newer (Single Antigen)	New (Triple Antigen)
Aluminum Adjuvant	CpG1018 Adjuvant	Aluminum Adjuvant
S Antigen	S Antigen CpG1018 Adjuvant	S Antigen pre-S1 pre-S2 Antigen Antigen
S	S ssDNA	S preS1 preS2
rHBsAg (<i>Recombivax-HB</i>) rHBsAg (<i>Engerix-B</i>)	HBsAg-CpG1018 (<i>Heplisav-B</i>)	3-AgHB (<i>PreHevbrio</i>)
THDSAY (Engenx-b)		

ΗN

Curriculum



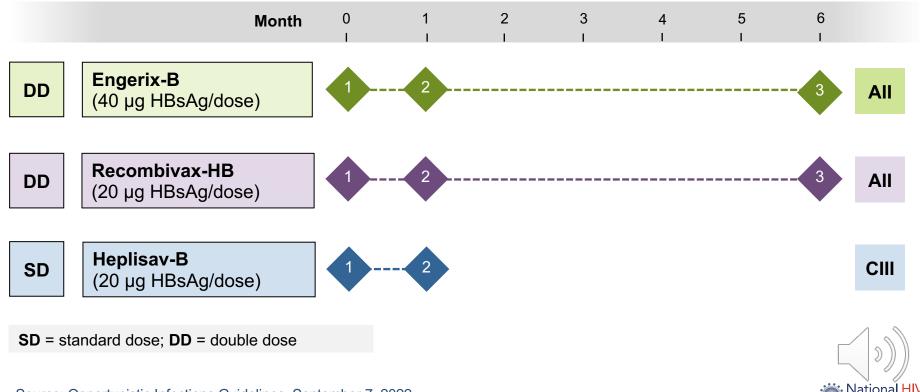
New Hepatitis B Vaccine Recommendations in Persons with HIV



Adult Opportunistic Infections Guidelines Hepatitis B Immunization In Persons with HIV

New

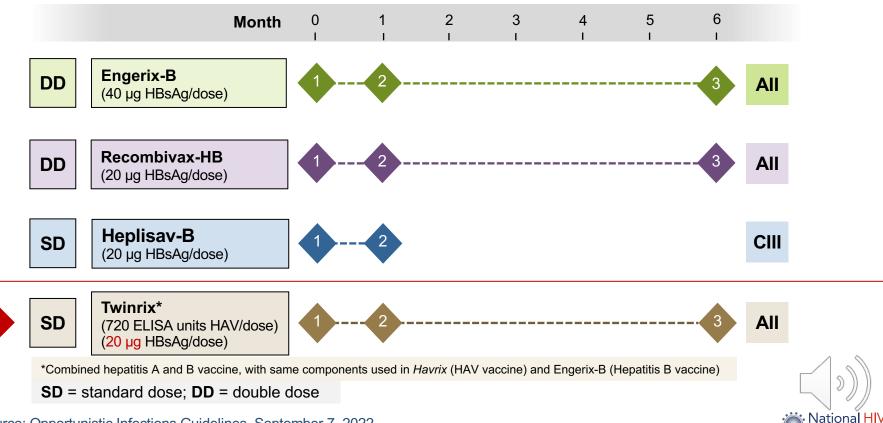
Curriculum



Adult Opportunistic Infections Guidelines Hepatitis B Immunization In Persons with HIV

New

Curriculum





Should you defer starting the series in persons with HIV and a low CD4 cell count?



Timing of Hepatitis B Vaccination

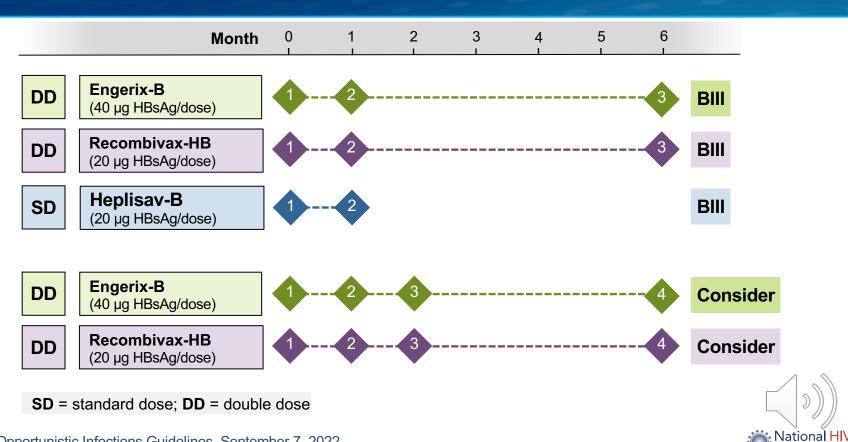
Although vaccine response is better in patients with CD4 >350 cells/mm³, vaccination **should not be deferred** in patients with a lower CD4 count because some people with CD4 <350 cells/mm³ do respond to vaccination (All).



How to Manage HBV Vaccine Non-Responders?



Adult Opportunistic Infections Guidelines Recommendations for Hepatitis B Vaccine Non-Responders In Persons with HIV



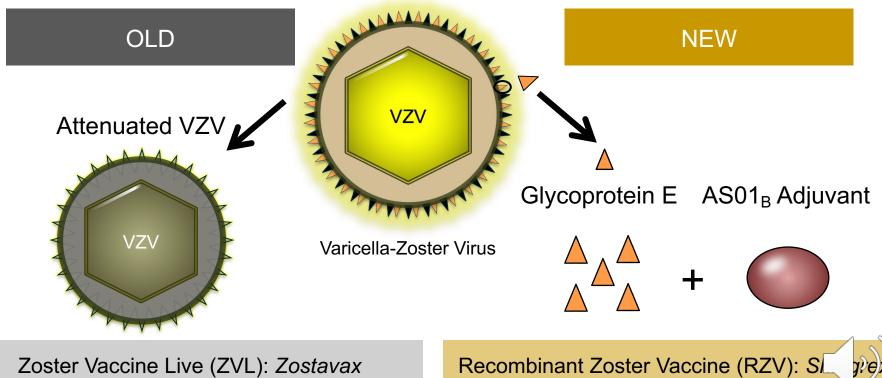
Curriculum



Varicella Zoster Immunization



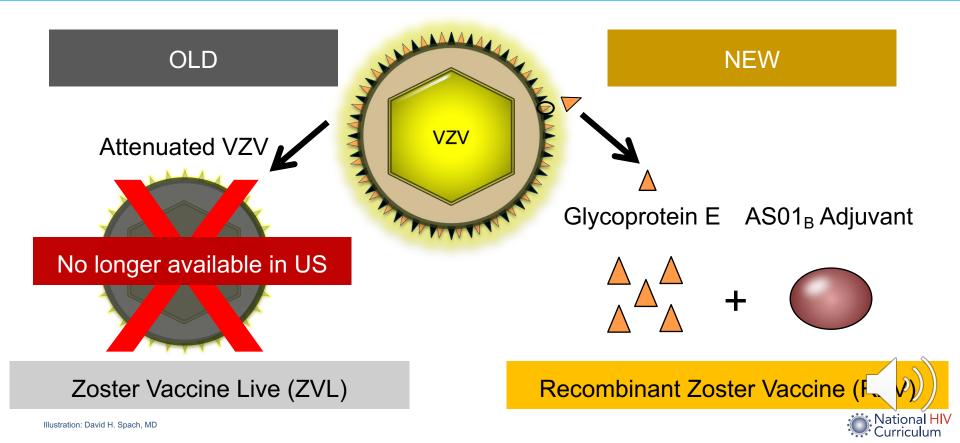
Zoster Vaccines



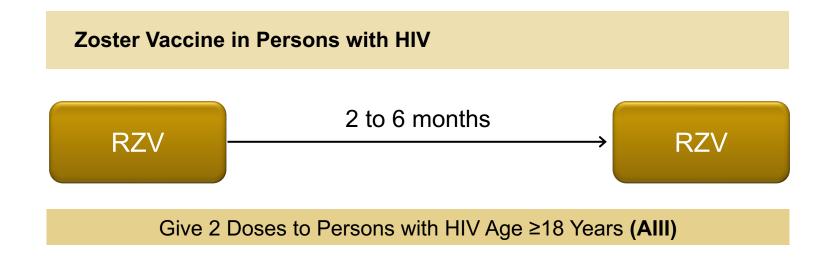
Zoster Vaccine Live (ZVL): Zostavax

Illustration: David H. Spach, MD

Zoster Vaccines



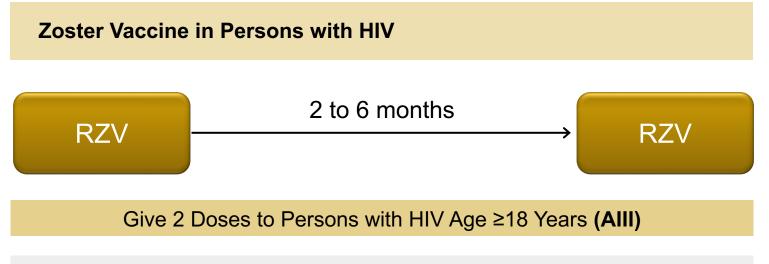
HHS Opportunistic Infections Guidelines Recombinant Zoster Vaccine (RZV) in Persons with HIV





New

HHS Opportunistic Infections Guidelines Recombinant Zoster Vaccine (RZV) in Persons with HIV



There are no CD4 restrictions for giving RZV but consider delaying vaccination until the patient is virologically suppressed on ART (CIII) or until the CD4 count >200 cells/mm³ to ensure a robust vaccine response (CIII).



New



Should you give zoster vaccine if a person has shingles?



HHS Opportunistic Infections Guidelines Recombinant Zoster Vaccine (RZV) in Persons with HIV



"Do not give RZV (Shingrix) during an acute episode of herpes zoster" (AIII).

Opportunistic Infections Guidelines. September 7, 2022.



Photographs from David H. Spach, MD



Should you give the RZV vaccine if a person previously received ZVL?



HHS Opportunistic Infections Guidelines Recombinant Zoster Vaccine (RZV) in Persons with HIV



"Those who previously received ZVL should be revaccinated with RZV."



Immunizations for Persons with HIV: Key Updates

- New simplified pneumococcal vaccine schedule (1 and done or 1 +1)
- New HBV vaccine recommendation (double-dose, 3 doses)
- Administer zoster vaccine for all adults ≥18 years of age



Acknowledgments

The production of this **National HIV Curriculum** Mini-Lecture was supported by Grant U1OHA32104 from the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS). Its contents are solely the responsibility of University of Washington IDEA Program and do not necessarily represent the official views of HRSA or HHS.





