

Updates to Recommendations for Vaccines in People with HIV

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Disclosures

No conflicts of interest to disclose



Question:

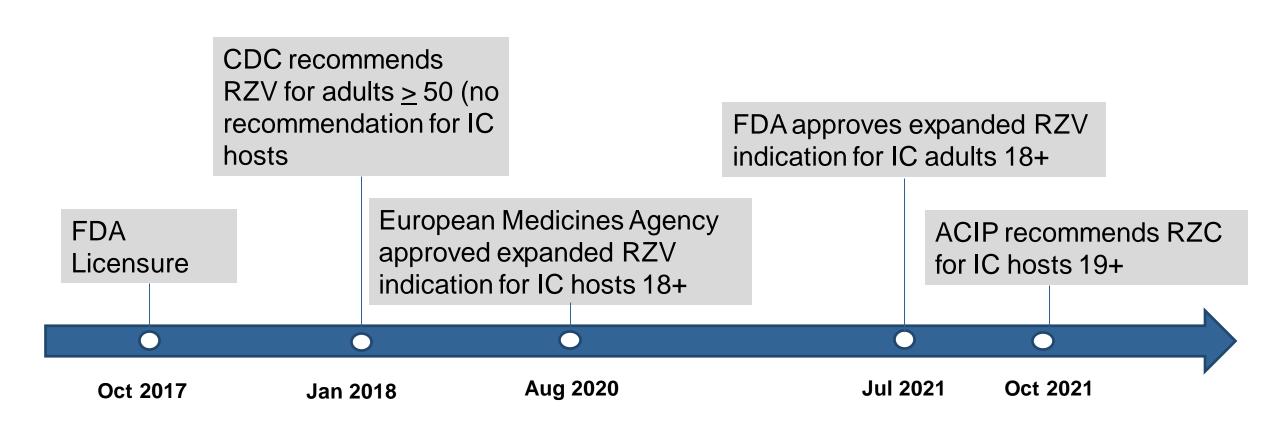
A 40 year old man with HIV (CD4 count 450, HIV RNA UD, on DTG + F/TAF)
presents for routine visit. He would like to know which vaccines are needed. He
notes that he had an episode of shingles at the time of diagnosis of HIV 10 years
ago.

Which of the following is true regarding zoster vaccine?

- 1. He does not need zoster vaccine as he has had zoster
- 2. You may give live zoster vaccine today
- 3. You may give recombinant zoster vaccine today and again in 2 months
- 4. He is not eligible for zoster vaccine as he is under 50

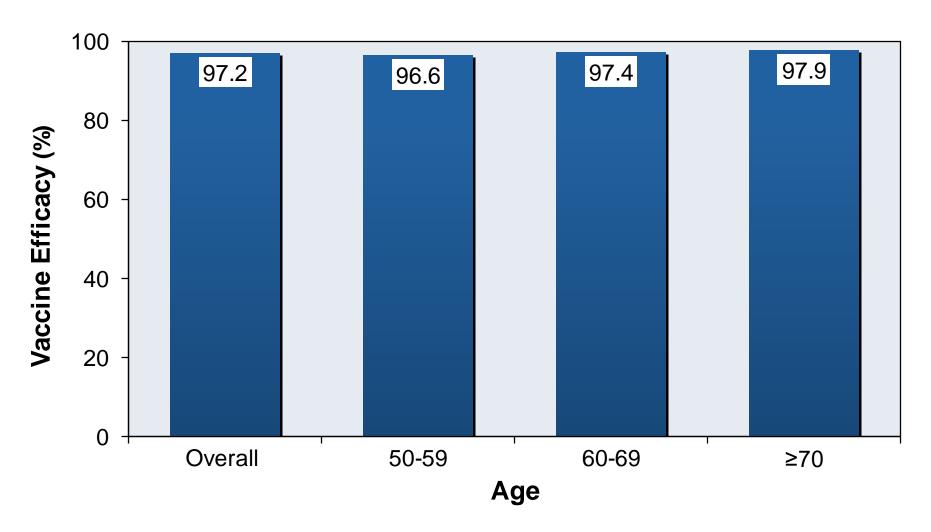


Recombinant Zoster Vaccine (RZV, Shingrix®)





Efficacy of RZV (Shingrix®) for Prevention of 1st Episode Zoster in Immunocompetent Patients ≥ 50



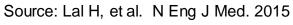
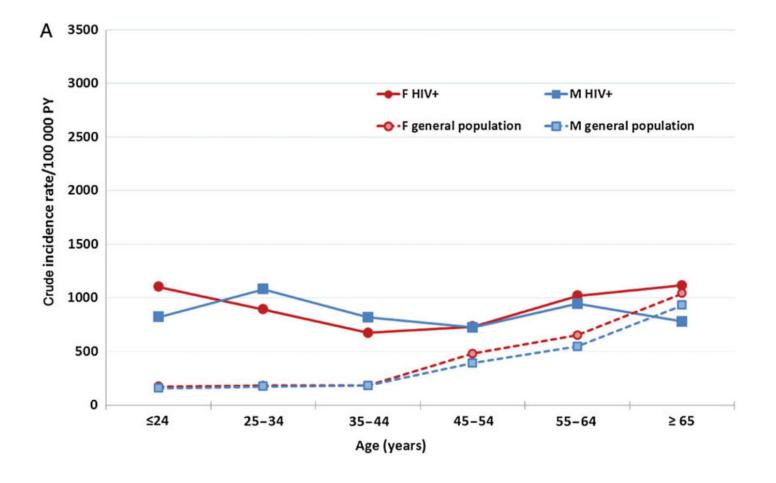


Figure modified from David Spach



Are people with HIV at increased risk for herpes zoster (HZ)?

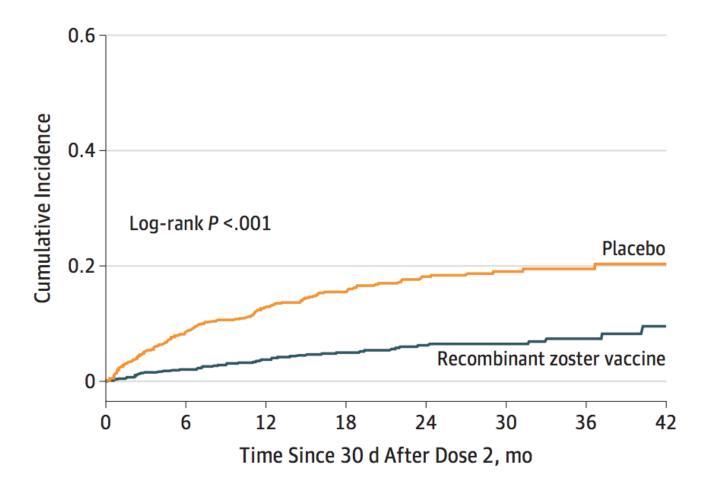
Incidence of HZ higher in people with HIV





Data in IC Hosts Often After Approval and Initial Recommendations

Efficacy of RZV in Preventing Incident Herpes Zoster in Patients Who Had Undergone HSCT





Source: Bastidas et al. JAMA 2019.

October 2021 - CDC ACIP voted to recommended RZV to adults \geq 19 who are or will be immunosuppressed due to disease or therapy

				HIV infection CD4 count		Asplenia,		Heart or lung				Men who		
	Vaccine	Pregnancy	Immuno-compromised (excluding HIV infection)	<200 ³	≥200³	complement deficiencies	End-stage renal disease; or on hemodialysis	disease, alcoholism ¹	Chronic liver disease	Diabetes	Health care personnel ²	have sex with men		
RZ	<u>v</u>					2 doses at age ≥50 yrs								



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RZV 📵		2 doses at age ≥ 19 yrs				2 doses at age ≥50 yrs									

Source: CDC ACIP



Other questions

- What is the optimal timing?
 - Consider waiting until on ART and suppressed
 - RZV can be given to people on antivirals (i.e. acyclovir)
 - Wait until after no active zoster lesions to give vaccine
- Should I check varicella titers first?
 - RZV is not indicated for primary varicella infection
 - Sensitivity and specificity of IgG assays can vary
 - Safety data regarding use of RZV in VZV naïve persons is limited



Question:

• A 40 year old man with HIV (CD4 count 450, HIV RNA UD, on DTG + F/TAF) presents for routine visit. He has never received a pneumococcal vaccine.

Which of the following is true regarding pneumococcal vaccination?

- 1. He should receive PCV20 today followed by PPSV23 in 8 weeks and again in 5 years
- 2. He should receive PCV20 today and does not need PPSV23
- 3. He should receive PCV13 today followed by PPSV23 in 8 weeks and again in 5 years
- 4. He should receive PCV15 today followed by PPSV23 in 8 weeks



Pneumococcal Vaccination in PWH

- CDC ACIP recommended PCV20 or PCV15 to all individuals ≥ 65 years who
 have not received PCV before or if unknown
- For PWH, individuals with asplenia and others at increased risk, give PCV20 or PCV15 at age 19-64
 - If PCV15 given, then give PPSV23



Why the change?

- Potential waning of immunity later for those 65+
- Cost-saving in cost-effectiveness analyses
- New recommendations provide opportunity for higher PCV coverage to prevent more disease and address equity concerns
- Simplify recommendations



Differences between coverage of serotypes

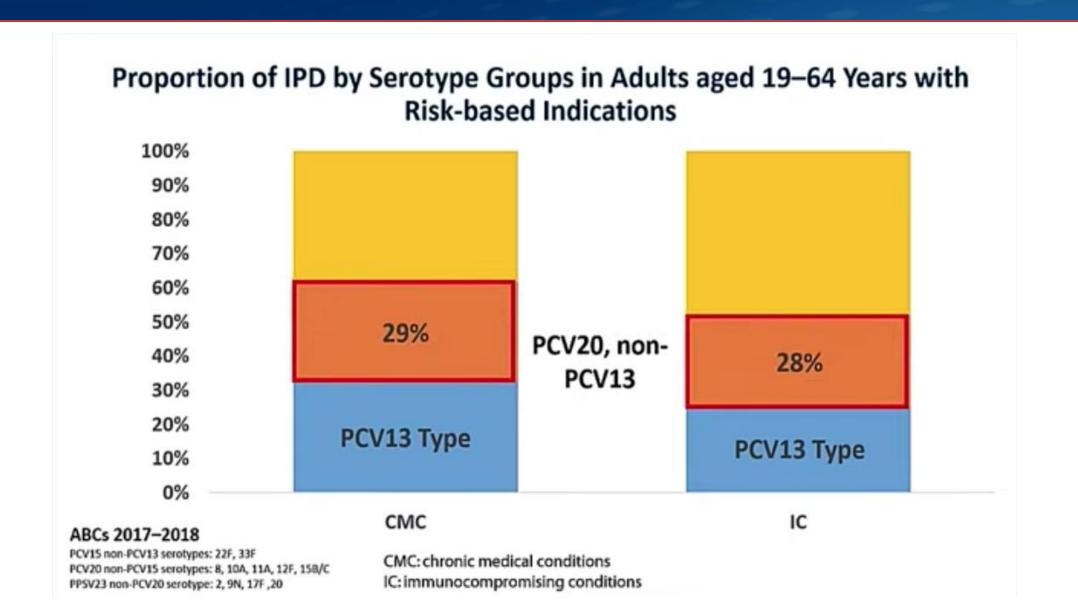
Serotypes Contained in Current and New Pneumococcal Vaccines

	1	3	4	5	6A	68	7 F	9V	14	18 C	19 A	19 F	23 F	22 F	33 F	8	10 A	11 A	12 F	15 B	2	9N	17 F	20
PCV13										П	П				Г									
PCV15																								
PCV20																								
PPSV23																								

- PCV15 non-PCV13: includes serotypes 22F and 33F
- PCV20 non-PCV13: includes serotypes 22F, 33F, 8, 10A, 11A, 12F, and 15B
- PPSV23 non-PCV20: includes serotypes 2, 9N, 17F, and 20



Invasive Pneumococcal Disease in IC Hosts





Final Thoughts

- Official recommendations will be issued in MMWR, likely January 2022 and will be published in new immunization schedules February 2022 as well
- Zoster vaccine for all adult PWH!
- Easier to remember pneumococcal vaccination schedule (yay!)

Questions?



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