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Indications for the administration of the 13-valent pneumococcal conjugate vaccine (PCV13) and the 23-valent pneumococcal polysaccharide vaccine (PPSV23) for adults in the United States

Risk group	Underlying condition	PCV13 Recommended	PPSV23	
			Recommended	Revaccination
Immunocompetent persons	Chronic heart disease*		X.	
	Chronic lung disease •	S Miller - N - Miller - N - Miller - Mi	X	
	Diabetes mellitus		X	e to the profession time. Necession of Administration of the contract of the c
	Cerebrospinal fluid leak	X	X	
	Cochlear implant	Х	X	
	Alcoholism	- very thrested and a substitutional state and an extensive Association and all and a substitution as the state association and a substitution as the state association and association as the state	X	okina magandara sasa dikaringai yarancasa anda nagansahasi yasarancana anda sand
	Chronic liver disease, cirrhosis	- Color	X	
	Cigarette smoking		X	
	Age ≥65	X	X	V
Persons with functional or anatomic asplenia	Sickle cell disease/other hemaglobinopathy	X	X	X¢
	Congenital or acquired asplenia	X	X	Χ 💠 .
Immunocompromised persons	Congenital or acquired immunodeficiency [§]	X	X	Χ¢
	Human immunodeficiency virus infection	X	X	X¢
	Chronic renal failure	X	X	X 💠
	Nephrotic syndrome	X	X	X¢
	Leukemia	X	X	X \$
	Lymphoma	X	X	X¢
	Hodgkin disease	Χ	X	Χ¢

	Generalized malignancy	Х	Х	x ¢
	Iatrogenic immunosuppression [¥]	X	X	X [♦]
	Solid organ transplant	X	X	X¢
	Multiple myeloma	X	X	Χ¢

- * Including congestive heart failure and cardiomyopathies, excluding hypertension.
- Including chronic obstructive pulmonary disease, emphysema, and asthma.

 Δ All adults aged \geq 65 years should receive a dose of PPSV23 even if they were vaccinated when they were less than 65 years of age; however, a minimum interval of five years between PPSV23 doses should be maintained. Those who are receiving PPSV23 for the first time at or after age 65 should receive only a single dose (and do not require revaccination).

- Patients <65 years of age who have functional or anatomic asplenia or who are immunocompromised should be revaccinated one time five years after the initial dose, and again at or after age 65 (and at least five years after the previous dose).
- § Includes B- (humoral) or T-lymphocyte deficiency, complement deficiencies (particularly C1, C2, C3, and C4 deficiencies), and phagocytic disorders (excluding chronic granulomatous disease).
- ¥ Diseases requiring treatment with immunosuppressive drugs, including long-term systemic glucocorticoids and radiation therapy.

Adapted from:

- 1. Tomczyk S, Bennett NM, Stoecker C, et al. Use of 13-valent pneumococcal conjugate vaccine and 23-valent pneumococcal polysaccharide vaccine among adults aged ≥65 years: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR Morb Mortal Wkly Rep 2014; 63:822.
- 2. Centers for Disease Control and Prevention. Use of 13-valent pneumococcal conjugate vaccine and 23-valent pneumococcal polysaccharide vaccine for adults with immunocompromising conditions: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR Morb Mortal Wkly Rep 2012; 61:816.
- 3. Centers for Disease Control and Prevention (CDC), Advisory Committee on Immunization Practices.

 Updated recommendations for prevention of invasive pneumococcal disease among adults using the 23valent pneumococcal polysaccharide vaccine (PPSV23). MMWR Morb Mortal Wkly Rep 2010; 59:1102.
- 4. Tomblyn M, Chiller T, Einsele H, et al. Guidelines for preventing infectious complications among hematopoietic cell transplantation recipients: a global perspective. Biol Blood Marrow Transplant 2009: 15:1143.

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