Pneumococcal Vaccination

**19-64:**

No previous pneumococcal vaccine with CSF leaks or cochlear implants:

1. PCV13 followed by PPSV23, at least 8 weeks apart

No previous pneumococcal vaccine with immunocompromising condition:

* Sickle cell disease or other hemoglobinopathies
* Anatomic or functional asplenia
* Congenital or acquired immunodeficiency
* HIV infection
* Chronic renal failure or nephrotic syndrome
* Leukemia or lymphoma
* Hodgkin disease
* Generalized and metastatic malignancies
* Iatrogenic immunosuppression, including radiation therapy
* Solid organ transplant
* Multiple myeloma
1. Give 1 dose of PCV13 and 2 doses of PPSV23. PCV13🡪At least 8 weeks PPSV23🡪5 years PPSV23

No previous pneumococcal vaccine and active smoker:

1. Give 1 dose of PPSV23

No previous pneumococcal vaccine with high-risk comorbidities:

* Alcoholism
* Chronic heart disease
* Chronic liver disease
* Chronic lung disease, including chronic obstructive pulmonary disease, emphysema, and asthma
* Diabetes mellitus
1. Give 1 dose of PPSV3

**>65 years of age**

Without immunocompromising condition, cochlear implant or CSF leak:

1. 1 dose of PPSV23
	1. Anyone who received a dose before age 65 should received 1 final dose at age 65 or older, administered at least 5 years after prior dose
2. Should consider discuss PCV13 with adult patients who have never received PCV13 before, for patients at risk of exposure to PCV13 and risk of pneumococcal disease for individual based on underlying medical conditions\*
	1. Administer 1 dose of PCV13 first then give 1 dose of PPSV23 at least 1 year later
		1. Anyone who received any doses of PPSV23 before age 65 should receive 1 final dose of the vaccine at age 65 or older. Administer this last dose at least 5 years after prior PPSV23 dose
		2. If the patient already received PPSV23, give the dose of PCV13 at least 1 year after they received the most recent dose
	2. Considerations for PCV13 among >65 years
		1. High risk individuals include:
			1. Persons in nursing homes or other LTC
			2. Persons in settings with low pediatric PCV13 uptake
			3. Persons traveling to settings with no pediatric PCV13 program
			4. Increasing age with:
				1. Chronic heart, lung, or liver disease
				2. Diabetes
				3. Alcoholism
				4. Smoke cigarettes
				5. More than one chronic medical condition

With immunocompromising condition, cochlear implant, or CSF leak:

* Cerebrospinal fluid leaks
* Cochlear implant(s)
* Sickle cell disease or other hemoglobinopathies
* Anatomic or functional asplenia
* Congenital or acquired immunodeficiency
* HIV infection
* Chronic renal failure or nephrotic syndrome
* Leukemia or lymphoma
* Hodgkin disease
* Generalized and metastatic malignancies
* Iatrogenic immunosuppression, including radiation therapy)
* Solid organ transplant
* Multiple myeloma
1. One dose of PCV13 first
2. One dose of PPSV23 at least 8 weeks after any prior PCV13 dose and at least 5 years after any prior PPSV23 dose
	1. Anyone who received any doses of PPSV23 before age 65 should receive 1 final dose of the vaccine at age 65 or older