

# CDC PNEUMOCOCCAL VACCINATION RECOMMENDATIONS



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**CDC PNEUMOCOCCAL VACCINATION RECOMMENDATIONS**  
**HIGH RISK ADULTS 19-64 YEARS OLD**

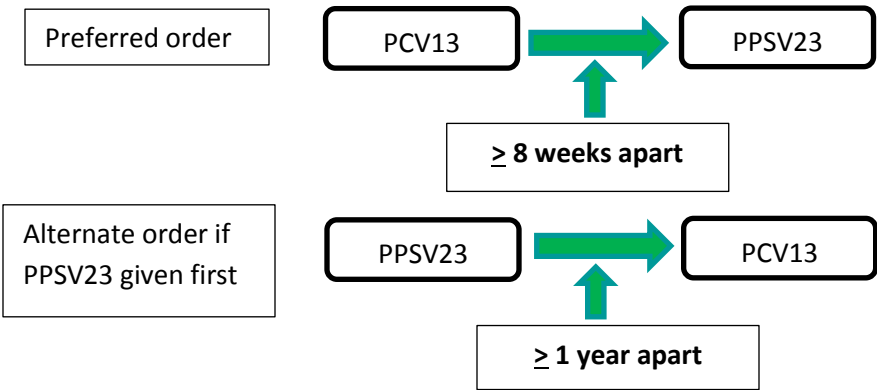
**Need One Dose of PPSV23, if Not Previously Received. Do Not Need PCV13.**

Risk groups: Chronic heart disease excluding hypertension; chronic lung disease including chronic obstructive pulmonary disease, emphysema, and asthma; diabetes mellitus; alcoholism; chronic liver disease; cirrhosis; cigarette smoking.



**Need Both PCV13 and PPSV23 if Not Previously Received.**

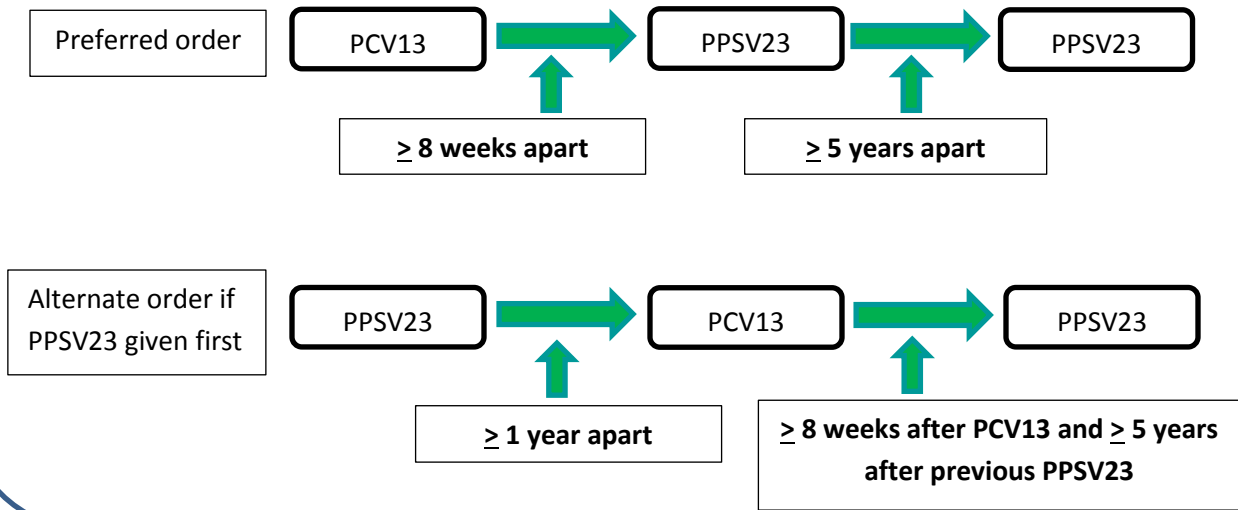
Risk groups: Cerebrospinal fluid leak, cochlear implant.



**Immune Compromised\* or Asplenic\*\* Adults 19-64 Years Old Need PCV13 and PPSV23 with PPSV23 Revaccination after 5 Years, if Not Previously Received.**

\*Including chronic renal failure and nephrotic syndrome

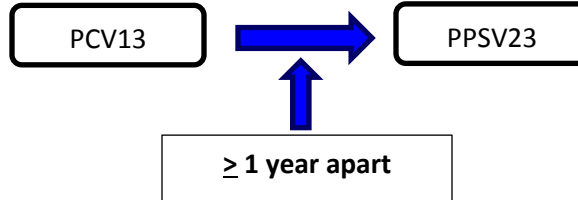
\*\*Sickle cell disease or other hemaglobinopathies, congenital or acquired asplenia



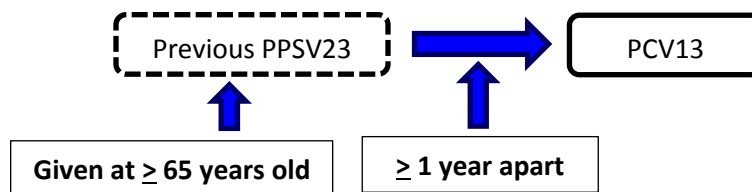
**Note:** PCV13 is not needed for high-risk 19-64 year old if there is documentation of receipt of appropriate dose(s) of PCV13 in childhood. When PPSV23 is given at < 65 years old, a final dose of PPSV23 is needed once ≥ 65 years old and ≥ 5 years from the last PPSV23 dose.

**CDC PNEUMOCOCCAL VACCINATION RECOMMENDATIONS**  
***IMMUNE COMPETENT<sup>†</sup> ADULTS ≥ 65 YEARS OLD***

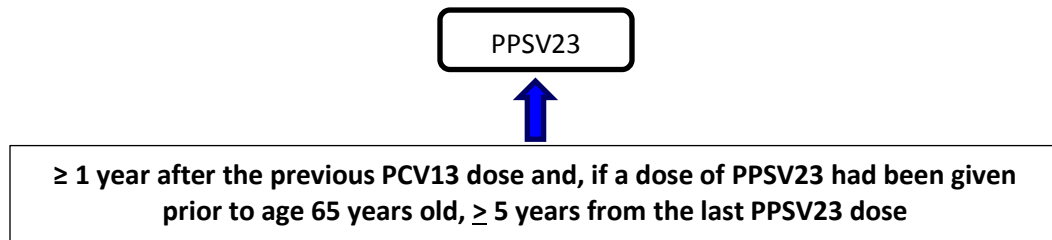
**Never Received Either PCV13 or PPSV23**



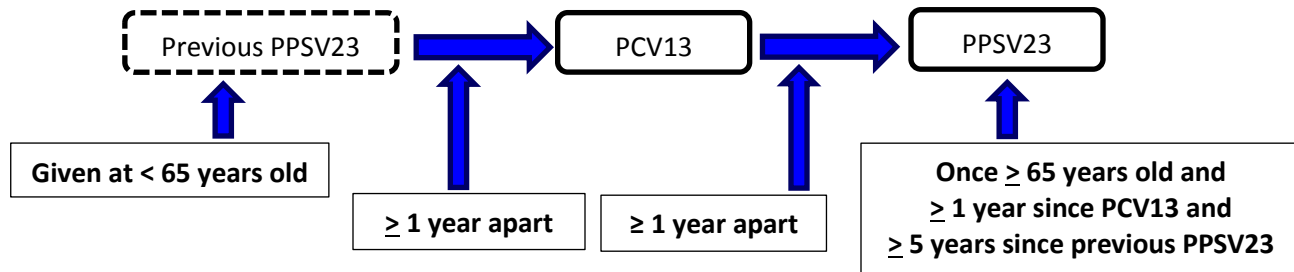
**Previously Vaccinated with PPSV23 at or after 65 Years Old and Never Vaccinated with PCV13**



**Previously Vaccinated with ≥ 1 dose of PCV13 at Any Age but No PPSV23 at ≥ 65 Years Old**



**Previously Vaccinated with ≥ 1 dose of PPSV23 before 65 Years Old but Never Vaccinated with PCV13**

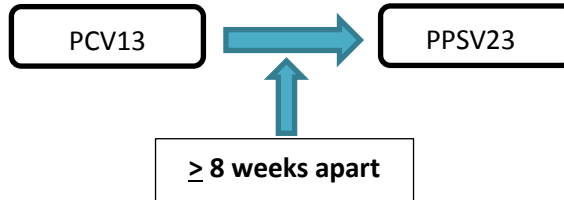


<sup>†</sup>Excluding patients with cerebrospinal fluid leak, cochlear implant, or with functional or anatomic asplenia

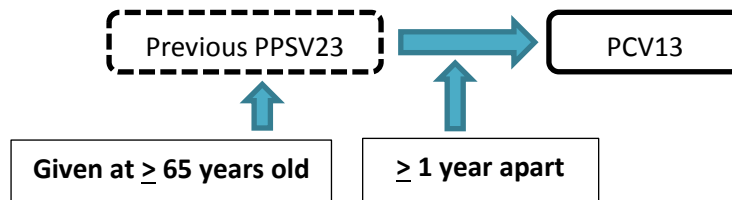
**[ - - - ]**: Denotes previously given vaccine.

**CDC PNEUMOCOCCAL VACCINATION RECOMMENDATIONS**  
**IMMUNE COMPROMISED<sup>‡</sup> ADULTS ≥ 65 YEARS OLD**

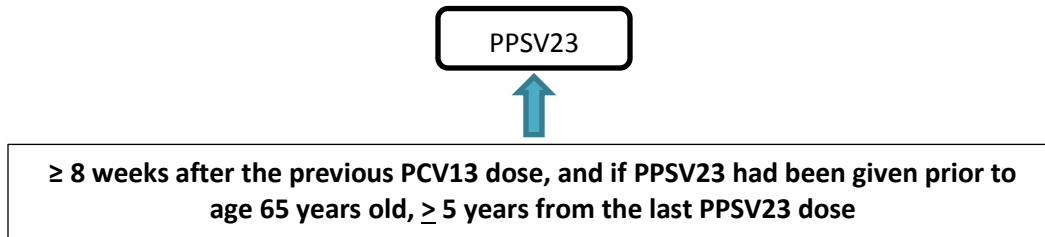
**Never Received Either PCV13 or PPSV23**



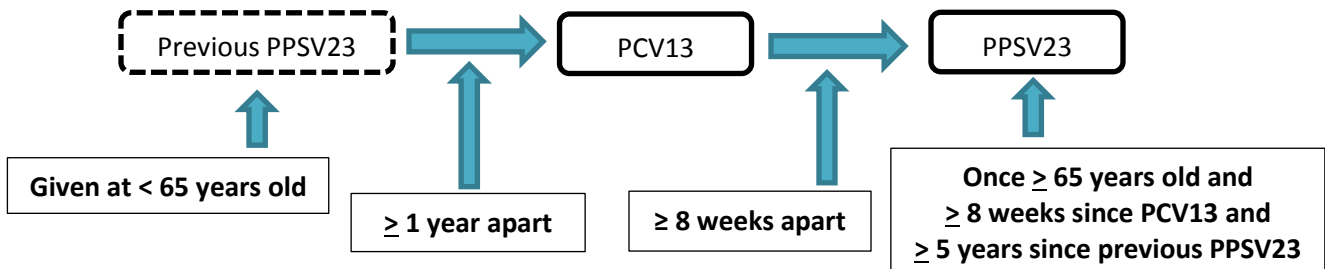
**Previously Vaccinated with PPSV23 at or after 65 Years Old and Never Vaccinated with PCV13**



**Previously Vaccinated with ≥ 1 dose of PCV13 but Lacking PPSV23 at ≥ 65 Years Old**



**Previously Vaccinated with ≥ 1 dose PPSV23 before 65 Years Old but Never Vaccinated with PCV13**



<sup>‡</sup>Includes patients with chronic renal failure, nephrotic syndrome, cerebrospinal fluid leak, cochlear implant, or with functional or anatomic asplenia

**[-----]** : Denotes previously given vaccine.



## CDC PNEUMOCOCCAL VACCINATION RECOMMENDATIONS FOR ADULTS

PCV13 & PPSV23 Key Concepts
<b>PCV13:</b> 13-valent pneumococcal conjugate vaccine; <b>PPSV23:</b> 23-valent pneumococcal polysaccharide vaccine
PCV13 and PPSV23 should not be given at the same time.
PCV13 should be given before PPSV23, when possible, due to a better immunologic response.
Immune <b>competent</b> adults $\geq 65$ years old who receive PCV13 first need a minimum interval of $\geq 1$ year from PCV13 $\rightarrow$ PPSV23. If the dose of PPSV23 is inadvertently given earlier than the recommended interval, the dose does not need to be repeated.
Adults ( $\geq 19$ years old) with immune compromise, CSF leak, cochlear implant, or with functional or anatomic asplenia who receive PCV13 first should receive PPSV23 with a minimum interval of $\geq 8$ weeks from PCV13 $\rightarrow$ PPSV23.
Adults who need both PCV13 and PPSV23 and receive PPSV23 first need a minimum interval of $\geq 1$ year from PPSV23 $\rightarrow$ PCV13.
All Adults $\geq 65$ Years Old
Give 1 dose of PCV13 when $\geq 65$ years old unless a dose of PCV13 was given before age 65 years old.
Give 1 dose of PPSV23 at $\geq 65$ years old. However, if a dose of PPSV23 was given before age 65 years old, give the final PPSV23 dose when age $\geq 65$ years old and $\geq 5$ years after the previous dose of PPSV23. (See algorithms for minimum intervals)
Adults 19-64 Years Old with These Medical Conditions Need One Dose of PPSV23*
Chronic heart disease excluding hypertension; chronic lung disease including chronic obstructive pulmonary disease, emphysema, and asthma; diabetes mellitus; alcoholism; chronic liver disease; cirrhosis; cigarette smoking.
Adults 19-64 Years Old with These Medical Conditions Need Both PCV13 and PPSV23*
Cerebrospinal fluid leak, cochlear implant. (See algorithms for minimum intervals)
Adults 19-64 Years Old with These Medical Conditions Need PCV13 and PPSV23 with PPSV23 Revaccination after 5 Years*
Functional or anatomic asplenia, including sickle cell disease or other hemaglobinopathy. Congenital or acquired immunodeficiency (excluding chronic granulomatous disease), human immunodeficiency virus infection, chronic renal failure, nephrotic syndrome, leukemia, lymphoma, Hodgkin disease, generalized malignancy, iatrogenic immunosuppression, solid organ transplant, multiple myeloma. (See algorithms for minimum intervals)
*If vaccine(s) was/were not previously received.

**Medicare reimbursement may be different from CDC recommendations for immune compromised adults  $\geq 65$  years old. Please check current Medicare billing information.**

### References for PCV13 and PPSV23

Intervals between PCV13 and PPSV23 Vaccines with emphasis on  $\geq 65$  years old.

*Morbidity and Mortality Weekly Report*, September 4, 2015

[http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6434a4.htm?s\\_cid=mm6434a4\\_w](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6434a4.htm?s_cid=mm6434a4_w)

Pneumococcal vaccination for patients  $\geq 65$  years old.

*Morbidity and Mortality Weekly Report*, September 19, 2014

[http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6337a4.htm?s\\_cid=mm6337a4\\_w](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6337a4.htm?s_cid=mm6337a4_w)

Pneumococcal vaccination for high risk patients 19-64 years old.

*Morbidity and Mortality Weekly Report*, October 12, 2012

[http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6140a4.htm?s\\_cid=mm6140a4\\_w](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6140a4.htm?s_cid=mm6140a4_w)

2016 CDC Immunization Schedule for Adults.

See both regular schedule and medical indications schedule.

<http://www.cdc.gov/vaccines/schedules/hcp/adult.html>

Immunization Action Coalition (IAC) Standing Orders for PCV13 and PPSV23 in Adults.

<http://www.immunize.org/catg.d/p3075.pdf>

IAC Pneumococcal Vaccination Recommendations for Children and Adults by Age and/or Risk Factor

<http://www.immunize.org/catg.d/p2019.pdf>