

Lifespan Cardiovascular Institute

Rhode Island Hospital • The Miriam Hospital Newport Hospital

Delivering health with care.®

By: Michael Caetano PharmD Candidate 2015 Reviewed by: Aisha G. Ashraf PharmD



Adapted from the CDC Morbidity and Mortality Weekly Report September 19, 2014; Accessed on November 4th at http://www.cdc.gov/mmwr/pdf/wk/mm6337.pdf



- 2010 Approval of PCV13 for children
- 2010 Approval of PPSV23 for adults ≥
- 2011 Approval of PCV13 for adults aged ≥ 50
- 2012 Approval of PCV13 for adults aged ≥ 19 who are immunocompromised, have functional or anatomic asplenia, cerebrospinal fluid (CSF) leak, or cochlear implants
- 2013 Benefit of PCV13 is observed



Compared to data in 2010, by 2013, the incidence of invasive pneumococcal disease (IPD) caused by strains specific to PCV13 had declined by 50% in adults aged ≥ 65.

Nevertheless, 13,500 cases of IPD occurred in 2013, and 20% to 25% were caused by strains found in PCV13. This showed we need even MORE coverage.

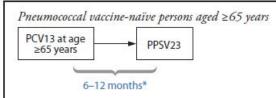
In June 2014, PCV13 use in 85,000 adults aged ≥ 65 showed a benefit of 45.6% in strains specific to PCV13 for pneumonia, 45% against non-blood related infections, and 75% of IPD (CAPiTA Trial).



PPSV23 has 11 additional strains as compared to PCV13, which only has 13.

With the current evidence showing an effective decrease in pneumococcal infections, the following guideline was created:

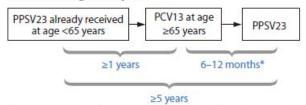
BOX. Sequential administration and recommended intervals for PCV13 and PPSV23 for adults aged ≥65 years — Advisory Committee on Immunization Practices, United States



Persons who previously received PPSV23 at age ≥65 years



Persons who previously received PPSV23 before age 65 years who are now aged ≥65 years



Abbreviations: PCV13 = 13-valent pneumococcal conjugate vaccine; PPSV23 = 23-valent pneumococcal polysaccharide vaccine.

*Minimum interval between sequential administration of PCV13 and PPSV23 is 8 weeks; PPSV23 can be given later than 6–12 months after PCV13 if this window is missed.

P 13