1. In order to do pneumonia vaccination we need a record of the previous vaccinations patients have received.
2. Prevnar 13 vaccine is only given once in life time of the patient
3. PPSV23 vaccine can be given as many as 3 times in the life of the patient
4. Prevnar 13 vaccine cannot be given up to a year after receiving PPSV23 vaccine. As such this vaccine should be given first if possible.
5. PPSV23 can be given as early as 8 weeks after giving Prevnar 13.
6. PPSV23 is re-administered 5 years after giving first dose in patients less than 65 year of age and then again after age of 65, assuming at least 5 years elapsed since the last dose.
7. After age 65, only one dose of PPSV23 is necessary.

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**Pneumonia vaccination**

1. Never has received PCV13 or PPSV23
   - Administer PCV13
   - After 8 weeks administer PPSV23

2. Has received PCV13 but not PPSV23 in the past
   - Administer PPSV23 (8 weeks after PCV13 administration)

3. Has received PCV13, Last PPSV23 was > 5 years ago, Patient was < 65 years of age
   - Administer PPSV23 (8 weeks after PCV13 administration)

4. Has received PCV13, Last PPSV23 was > 65 years of age
   - No more vaccination needed

5. Has received PCV13, Last PPSV23 was < 5 years ago. Patient < 65 years of age at time of PPSV23
   - Wait until it is 5 years after last PPSV23 and then re-administer

6. Has not received PCV13, Last PPSV23 was < 1 year ago
   - Wait until it is 1 year since PPSV23, then administer PCV13, PPSV23 as per 3,4,5

7. Has not received PCV13, Last PPSV23 was >1 year ago
   - Administer PCV13, PPSV23 as per 3,4,5