# Pneumococcal 13-valent conjugate vaccine (PCV13) CDC recommendations- tabular CDSS rules (optimal)

Updated on 2024-05-03

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| **Vaccine** | **#** | **Age1** | **Age2** | **SpecialCondition** | **Immunization record** | | | **MedIndication1** | **MedIndication2** | **MedIndication3** | **Todo1** | **Todo2** | **Todo3** | **Todo4** | **Todo5** | **Note-display** | **Note** |
|  |  |  |  |  | **Y/N** | **Dose** | **Adm date** |  |  |  |  |  |  |  |  |  |  |
| **Pneumococcal 13-valent conjugate vaccine (PCV13)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Minimal age: 6 wks (PCV13); 2 yrs (PPSV23) |
| **Regular and catch-up schedule** | | | | | | | | | | | | | | | | | |
|  | 1 | =2 mon |  |  | N |  |  |  |  |  | Admin 1st dose | Schedule 2nd dose at the age of 4 mon | Schedule 3rd dose at the age of 6 mon | Schedule 4th dose at age of 12-`5 mon |  |  |  |
|  | 2 | >= 2 mon | <= 6 mon |  | N |  |  |  |  |  | Admin 1st dose | Schedule 2nd dose >= 8 wks from 1st dose | Schedule 3rd dose >= 8 wks from 2nd dose | Schedule 4th dose at the age between 12-15 mon |  |  |  |
|  | 3 | >= 2 mon | <= 6 mon |  | Y | 1 |  |  |  |  | Admin 2nd dose | Schedule 3rd dose >= 8 wks from prior dose | Schedule 4th dose at age 12 – 15 mon |  |  |  |  |
|  | 4 | >= 2 mon | <= 6 mon |  | Y | 2 |  |  |  |  | Admin 3rd dose >= 8 wks from prior dose | Schedule 4th dose at age 12 - 15 mon |  |  |  |  |  |
|  | 5 | >= 7 mon | <= 11 mon |  | N |  |  |  |  |  | Admin 1st dose | Schedule 2nd dose >= 8 wks from prior dose | Schedule 3rd dose at age of 12 - 15 mon |  |  |  |  |
|  | 6 | >= 7 mon | <= 11 mon |  | Y | 1 | Admin before age of <7 mon |  |  |  | Admin 1 dose at age 7-11 mon AND >= 4 wks from prior dose | Schedule another dose at age of 12-15 mon AND >= 8 wks from prior dose |  |  |  |  |  |
|  | 7 | >= 7 mon | <= 11 mon |  | Y | 2 | Admin before age of <7 mon |  |  |  | Admin 1 dose at age 7-11 mon AND >= 4 wks from prior dose | Schedule another dose at age of 12-15 mon AND >= 8 wks from the prior dose |  |  |  |  |  |
|  | 8 | >= 12 mon | <= 23 mon |  | N |  |  |  |  |  | Admin 1st dose | Schedule 2nd dose >= 8 wks from now |  |  |  |  |  |
|  | 9 | >= 12 mon | <= 23 mon |  | Y | 1 | Admin before age of <12 mon |  |  |  | Admin 1st dose >= 4 wks from prior dose | Schedule 2nd dose >= 8 wks from now |  |  |  |  |  |
|  | 10 | >= 12 mon | <= 23 mon |  | Y | 1 | Admin at age >= 12 mon |  |  |  | Admin 1 dose >= 8 wks from prior dose |  |  |  |  |  |  |
|  | 11 | >= 12 mon | <= 23 mon |  | Y | 2 | Admin before age <12 mon |  |  |  | Admin 1 dose >= 8 wks from prior dose |  |  |  |  |  |  |
|  | 12 | >= 12 mon | <= 23 mon |  | Y | 3 | Admin before age <12 mon |  |  |  | Admin 1 dose >= 8 wks from prior dose |  |  |  |  |  |  |
|  | 13 | >= 12 mon | <= 23 mon | Or complete vaccination of PCV7 | Y | 4 doses of PCV7 |  |  |  |  | Admin 1 dose of PCV13 >= 8 wks from prior dose |  |  |  |  |  |  |
|  | 14 | >= 24 mon | <= 59 mon | Healthy children | N |  |  |  |  |  | Admin 1st dose | No further dose is needed for healthy children |  |  |  |  |  |
|  | 15 | >= 24 mon | <= 59 mon | Healthy children; or complete vaccination of PCV7 | Y | 4 doses of PCV7 |  |  |  |  | Admin 1 dose of PCV13 >= 8 wks from prior dose |  |  |  |  |  |  |
|  | 16 | >= 24 mon | <= 59 mon | Healthy children | Y | Incomplete PCV13 series |  |  |  |  | Admin 1 dose >= 8 wks from prior dose |  |  |  |  |  |  |
|  | 17 | >= 24 mon |  | Healthy children | Y | 1 | Admin at age of >= 24 mon |  |  |  | Do not admin |  |  |  |  |  |  |
|  | 18 | >= 12 mon | <= 59 mon |  | Y | 3 | Admin 3rd dose before age 12 mon |  |  |  | Admin 4th dose >= 8 wks from 3rd dose |  |  |  |  |  |  |
| **Special situations (when PCV13 and PPSV23 are indicated, admin PCV13 first; PCV13 and PPSV23 should not be administered during the same visit)** | | | | | | | | | | | | | | | | | |
|  | 19 |  |  | Children at high risk | Y | 3 |  |  |  |  | Admin 4th dose >= 8 wks from 3rd dose |  |  |  |  |  |  |
| Chronic heart disease (particularly cyanotic congenital heart disease and cardiac failure); chronic lung disease (including asthma treated with high-dose, oral corticosteroids); diabetes mellitus | | | | | | | | | | | | | | | | | |
| PCV13 | 20 | >= 24 mon | <= 71 mon |  | N |  |  |  |  |  | Admin 1st dose of PCV13 >= 8 wks from prior dose | Schedule 2nd dose >= 8 wks from 1st dose |  |  |  |  |  |
| PCV13 | 21 | >= 24 mon | <= 71 mon |  | Y | 2 | Incomplete vaccine |  |  |  | Admin a dose of PCV13 >= 8 wks from prior dose | Schedule another dose >= 8 wks from prior dose |  |  |  |  |  |
| PCV13 | 22 | >= 24 mon | <= 71 mon |  | Y | 1 | Incomplete vaccine |  |  |  | Admin a dose of PCV13 >= 8 wks from prior dose | Schedule another dose >= 8 wks from prior dose |  |  |  |  |  |
| PCV13 | 23 | >= 24 mon | <= 71 mon |  | Y | 3 | Incomplete vaccine |  |  |  | Admin a dose of PCV13 >= 8 wks from the prior dose |  |  |  |  |  |  |
| PCV13 | 24 | >= 24 mon | <= 71 mon |  | Y | 4 doses of PCV7 |  |  |  |  | Admin a dose of PCV13 >= 8 wks from the prior dose |  |  |  |  |  |  |
| PPSV23 | 25 | >= 24 Month | <= 71 mon |  | No history of PPSV23 |  |  |  |  |  | A dose PPSV23 >= 8 wks competing all recommender PCV13 doses |  |  |  |  |  |  |
| PPSV23 | 26 | >= 6 yrs | <= 18 yrs |  | No history of PPSV23 |  |  |  |  |  | A dose of PPSV23 >= 8 wks completing all recommender PCV13 doses |  |  |  |  |  |  |
| Cerebrospinal fluid leak, cochlear implant | | | | | | | | | | | | | | | | | |
| PCV13 | 27 | >= 24 mon | <= 71 mon |  | Y | 3 |  |  |  |  | Admin 1 dose of PCV13 >= 8 wks from prior dose of PCV13 |  |  |  |  |  |  |
| PCV13 | 28 | >= 24 mon | <= 71 mon |  | Y | 2 |  |  |  |  | Admin a dose of PCV13 = 8 wks from prior PCV13 dose | Schedule another dose of PCV13 = 8 wks from prior PCV13 dose |  |  |  |  |  |
| PCV13 | 29 | >= 24 mon | <= 71 mon |  | Y | 1 |  |  |  |  | Admin a dose of PCV13 = 8 wks from prior PCV13 dose | Schedule another dose of PCV13 = 8 wks from prior PCV13 dose |  |  |  |  |  |
| PPSV23 | 30 | >= 24 mon | <= 71 mon |  | No history of PPSV23 |  |  |  |  |  | Admin 1 dose of PPSV23 >= 8 wks from prior PCV13 dose |  |  |  |  |  |  |
| PCV13 or PPSV23 | 31 | >= 6 yrs | <= 18 yrs |  | No history of PCV13 or PPSV23 |  |  |  |  |  | Admin 1 dose of PCV13 | Schedule a dose of PPSV23 >= 8 wks from now |  |  |  |  |  |
| PCV13 or PPSV23 | 32 | >= 6 yrs | <= 18 yrs |  | Any PCV13 and no PPSV23 |  |  |  |  |  | Admin 1 dose of PPSV23 >= 8 wks from most recent PCV13 |  |  |  |  |  |  |
| PCV13 or PPSV23 | 33 | >= 6 yrs | <= 18 yrs |  | PPSV23 , no PCV13 |  |  |  |  |  | Admin 1 dose of PCV13 >= 8 wks from most recent PPSV23 dose |  |  |  |  |  |  |
| Sickle cell disease and other hemoglobinopathies; anatomic or functional asplenia; congenital or acquired immunodeficiency; HIV infection; chronic renal failure; nephrotic syndrome; malignant neoplasms, leukemias, lymphomas, Hodgkin disease, and other diseases associated with treatment with immunosuppressive drugs or radiation therapy; solid organ transplantation multiple myeloma | | | | | | | | | | | | | | | | | |
| PCV13 | 34 | >= 24 mon | <= 71 mon |  | N |  |  |  |  |  | Admin 1st dose of PCV13 | Schedule 2nd dose >= 8 wks from 1st dose |  |  |  |  |  |
| PCV13 | 35 | >= 24 mon | <= 71 mon |  | Y | 3 |  |  |  |  | Admin 1 dose of PCV13 >= 8 wks from prior PCV13 dose |  |  |  |  |  |  |
| PCV13 | 36 | >= 24 mon | <= 71 mon |  | Y | 2 |  |  |  |  | Admin a dose of PCV13 = 8 wks from prior PCV13 dose | Schedule another PCV13 dose = 8 wks from last PCV13 dose |  |  |  |  |  |
| PCV13 | 37 | >= 24 mon | <= 71 mon |  | Y | 1 |  |  |  |  | Admin a dose of PCV13 = 8 wks from prior PCV13 dose | Schedule another PCV13 dose = 8 wks from last PCV13 dose |  |  |  |  |  |
| PPSV23 | 38 | >= 24 mon | <= 71 mon |  | No history of PPSV23 |  |  |  |  |  | Admin 1 dose of PPSV23 >= 8 wks from prior PCV13 dose | Schedule another dose of PPSV23 after = 5 yrs of prior PPSV23 dose |  |  |  |  |  |
| PCV13 or PPSV23 | 39 | >= 6 yrs | <= 18 yrs |  | No history of PCV13 or PPSV23 |  |  |  |  |  | Admin 1 dose of PCV13 | Schedule 1st dose of PPSV23 = 8 wks from PCV13 dose | Schedule 2nd dose of PPSV23 >= 5 yrs of 1st dose of PPSV23 |  |  |  |  |
| PCV13 or PPSV23 | 40 | >=6 yrs | <= 18 yrs |  | Any PCV13, no PPSV23 |  |  |  |  |  | Admin 1st dose of PPSV23 = 8 wkd from prior PCV13 dose | Schedule 2nd dose of PPSV23 >= 5 yrs of 1st dose of PPSV23 |  |  |  |  |  |
| PCV13 or PPSV23 | 41 | >= 6 yrs | <= 18 yrs |  | PPSV23, no PCV13 |  |  |  |  |  | Admin 1 dose of PCV13 = 8 wks from PPSV23 dose | Schedule 2nd dose of PPSV23 = 5 yrs of prior dose of PPSV23 AND >= 8 wks from prior PCV13 dose |  |  |  |  |  |
| Chronic liver disease, alcoholism | | | | | | | | | | | | | | | | | |
| PPSV23 | 42 | >= 6 yrs | <= 18 yrs |  | No history of PPSV23 |  |  |  |  |  | Admin 1 dose of PPSV23 >= 8 wks from prior PCV13 dose |  |  |  |  |  |  |
| **Contraindications and precautions** | | | | | | | | | | | | | | | | | |
| PCV13 | 43 |  |  |  |  |  |  | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or a vaccine component |  |  | Do not admin |  |  |  |  |  | Contraindication |
| PCV13 | 44 |  |  |  |  |  |  | Severe allergic reaction (e.g., anaphylaxis) to any diphtheria-toxoid-containing vaccine or its component |  |  | Do not admin |  |  |  |  |  | Contraindication |
| PCV13 or PPSV23 | 45 |  |  |  |  |  |  | Moderate or severe acute illness with or without fever |  |  | Admin only if benefits outweigh risks to an adverse reaction |  |  |  |  |  | Precaution |
| PPSV23 | 46 |  |  |  |  |  |  | Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component |  |  | Do not admin |  |  |  |  |  | Contraindication |