

Recommended Adult Immunization Schedule – United States, 2017

Note: These recommendations **must** be read with the footnotes that follow containing number of doses, intervals between doses, and other important information.

Figure 1. Recommended immunization schedule for adults ages 19 years or older by age group

Vaccine	19–21 years	22–26 years	27–59 years	60–64 years	≥65 years
Influenza ¹	1 dose annually				
Tetanus, diphtheria, pertussis (Td/Tdap) ²	Substitute Tdap for Td once, then Td booster every 10 yrs				
Measles, mumps, rubella (MMR) ³	1 or 2 doses depending on indication				
Varicella (VAR) ⁴	2 doses				
Herpes zoster (HZV) ⁵				1 dose	
Human papillomavirus (HPV) Female ⁶	3 doses				
Human papillomavirus (HPV) Male ⁶	3 doses				
Pneumococcal 13-valent conjugate (PCV13) ⁷	1 dose				
Pneumococcal polysaccharide (PPSV23) ⁷	1 or 2 doses depending on indication				1 dose
Hepatitis A ⁸	2 or 3 doses depending on vaccine				
Hepatitis B ⁹	3 doses				
Meningococcal 4-valent conjugate (MenACWY) or polysaccharide (MPSV4) ¹⁰	1 or more doses depending on indication				
Meningococcal B (MenB) ¹⁰	2 or 3 doses depending on vaccine				
<i>Haemophilus influenzae</i> type b (Hib) ¹¹	1 or 3 doses depending on indication				

Figure 2. Recommended immunization schedule for adults ages 19 years or older by medical and other indications

Indication ▶ Vaccine ▼	Pregnancy 1-6,9	Immuno-compromised (excluding HIV infection) ^{3-7,9-11}	HIV infection CD4+ count (cells/μL) ^{3-7,9-11}		Asplenia, persistent complement deficiencies ^{7,10,11}	Kidney failure, end-stage renal disease, on hemodialysis ^{7,9}	Heart or lung disease, chronic alcoholism ⁷	Chronic liver disease ⁷⁻⁹	Diabetes ^{7,9}	Healthcare personnel ^{3,4,9}	Men who have sex with men ^{6,8,9}	
			<200	≥200								
Influenza ¹												1 dose annually
Td/Tdap ²	1 dose Tdap each pregnancy											Substitute Tdap for Td once, then Td booster every 10 yrs
MMR ³		Contraindicated										1 or 2 doses depending on indication
Varicella ⁴		Contraindicated										2 doses
Zoster ⁵		Contraindicated										1 dose
HPV–Female ⁶												3 doses through age 26 yrs
HPV–Male ⁶			3 doses through age 26 yrs									3 doses through age 21 yrs
PCV13 ⁷												1 dose
PPSV23 ⁷												1, 2, or 3 doses depending on indication
Hepatitis A ⁸												2 or 3 doses depending on vaccine
Hepatitis B ⁹												3 doses
MenACWY or MPSV4 ¹⁰												1 or more doses depending on indication
MenB ¹⁰												2 or 3 doses depending on vaccine
Hib ¹¹			3 doses post-HSCT recipients only									1 dose

Recommended for adults who meet the age requirement, lack documentation of vaccination, or lack evidence of past infection

 Recommended for adults with additional medical conditions or other indications

 Contraindicated

 No recommendation

Consider the following information when reviewing the above schedules:

- When indicated, administer recommended vaccines to adults whose vaccination history is incomplete or unknown.
- Increased interval between doses of a multi-dose vaccine does not diminish vaccine effectiveness; therefore, it is not necessary to

restart the vaccine series or add doses to the series because of an extended interval between doses.

- Adults with immunocompromising conditions should generally avoid live vaccines (e.g., measles, mumps, and rubella vaccine). Inactivated vaccines (e.g., pneumococcal or inactivated influenza vaccines) are generally acceptable.

• Combination vaccines may be used when any component of the combination is indicated and when the other components of the combination vaccine are not contraindicated.

• The use of trade names in the adult immunization schedule is for identification purposes only and does not imply endorsement by the ACIP or CDC.