

Figure 2. Recommended immunization schedule for adults aged 19 years or older by medical condition and other indications, United States, 2018

This figure should be reviewed with the accompanying footnotes. This figure and the footnotes describe indications for which vaccines, if not previously administered, should be administered unless noted otherwise.

Vaccine	Pregnancy ¹⁻⁶	Immuno-compromised (excluding HIV infection) ^{3-7,11}	HIV infection CD4+ count (cells/ μ L) ^{3-7,9-10}		Asplenia, complement deficiencies ^{7,10,11}	End-stage renal disease, on hemodialysis ^{7,9}	Heart or lung disease, alcoholism ⁷	Chronic liver disease ⁷⁻⁹	Diabetes ^{7,9}	Health care personnel ^{3,4,9}	Men who have sex with men ^{6,8,9}	
			<200	\geq 200								
Influenza ¹	1 dose annually											
Tdap ² or Td ²	1 dose Tdap each pregnancy	1 dose Tdap, then Td booster every 10 yrs										
MMR ³	contraindicated			1 or 2 doses depending on indication								
VAR ⁴	contraindicated			2 doses								
RZV ⁵ (preferred) or ZVL ⁵	contraindicated			2 doses RZV at age \geq 50 yrs (preferred) or 1 dose ZVL at age \geq 60 yrs								
HPV-Female ⁶		3 doses through age 26 yrs			2 or 3 doses through age 26 yrs							
HPV-Male ⁶		3 doses through age 26 yrs			2 or 3 doses through age 21 yrs						2 or 3 doses through age 26 yrs	
PCV13 ⁷		1 dose										
PPSV23 ⁷		1, 2, or 3 doses depending on indication										
HepA ⁸	2 or 3 doses depending on vaccine											
HepB ⁹	3 doses											
MenACWY ¹⁰	1 or 2 doses depending on indication , then booster every 5 yrs if risk remains											
MenB ¹⁰	2 or 3 doses depending on vaccine											
Hib ¹¹		3 doses 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 other indications
 Contraindicated
 No recommendation