

Figure 1. Recommended Immunization Schedule for Persons Ages 0 through 18 Years, United States, 2013

These recommendations must be read with the footnotes that follow. For those who fall behind or start late, provide catch-up vaccination at the earliest opportunity as indicated by the green bars in Figure 1. To determine minimum intervals between doses, see the catch-up schedule (Figure 2). School entry and adolescent vaccine age groups are in bold.

Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19–23 mos	2–3 yrs	4–6 yrs	7–10 yrs	11–12 yrs	13–15 yrs	16–18 yrs
Hepatitis B ¹ (HepB)	1st dose	2nd dose		3rd dose												
Rotavirus ² (RV) RV1 (2-dose series); RV5 (3-dose series)			1st dose	2nd dose	See footnote 2											
Diphtheria, tetanus & acellular pertussis ³ (DTaP: <7 yrs)			1st dose	2nd dose	3rd dose	4th dose					5th dose					
Tetanus, diphtheria & acellular pertussis ⁴ (Tdap: ≥7 yrs)														(Tdap)		
<i>Haemophilus influenzae</i> type b ⁵ (Hib)			1st dose	2nd dose	See footnote 5	3rd or 4th dose (see footnote 5)										
Pneumococcal conj ^{6a,c} (PCV13)			1st dose	2nd dose	3rd dose	4th dose										
Pneumococcal poly ^{6b,c} (PPSV23)																
Poliovirus ⁷ (IPV)			1st dose	2nd dose	3rd dose						4th dose					
Influenza ⁸ (IIV; LAIV) 2 doses for some: see footnote 8					Annual vaccination (IIV only)						Annual vaccination (IIV or LAIV)					
Measles, mumps, rubella ⁹ (MMR)							1st dose					2nd dose				
Varicella ¹⁰ (VAR)							1st dose					2nd dose				
Hepatitis A ¹¹ (HepA)							2-dose series, see footnote 11									
Human Papillomavirus ¹² (HPV) (HPV2: females only; HPV4: males and females)															(3-dose series)	
Meningococcal ¹³ (HibMenCY: ≥6 wks; MCV4-D ≥9 mos; MCV4-CRM: ≥2 yrs)			See footnote 13											1st dose		Booster

Range of recommended ages for all children
 Range of recommended ages for catch-up immunization
 Range of recommended ages for certain high-risk groups
 Range of recommended ages during which catch-up is encouraged and for certain high-risk groups
 Not routinely recommended

This schedule includes recommendations in effect as of January 1, 2013. Any dose not administered at the recommended age should be administered at a subsequent visit, when indicated and feasible. The use of a combination vaccine generally is preferred over separate injections of its equivalent component vaccines. Vaccination providers should consult the relevant Advisory Committee on Immunization Practices (ACIP) statement for detailed recommendations, available online at www.cdc.gov/vaccines/pubs/acip-list.htm. Clinically significant adverse events

that follow vaccination should be reported to the Vaccine Adverse Event Reporting System (VAERS) online (www.vaers.hhs.gov) or by telephone (800-822-7967). Suspected cases of vaccine-preventable diseases should be reported to the state or local health department. Additional information, including precautions and contraindications for vaccination, is available from CDC online (www.cdc.gov/vaccines) or by telephone (800-CDC-INFO [800-232-4636]).

Additional Vaccine Information

- For contraindications and precautions to use of a vaccine and for additional information regarding that vaccine, vaccination providers should consult the relevant Advisory Committee on Immunization Practices (ACIP) statement available online at www.cdc.gov/vaccines/pubs/acip-list.htm.
- For the purposes of calculating intervals between doses, 4 weeks = 28 days. Intervals of 4 months or greater are determined by calendar months.
- Information on travel vaccine requirements and recommendations is available at wwwnc.cdc.gov/travel/page/vaccinations htm.
- For vaccination of persons with primary and secondary immunodeficiencies, see Table 13, "Vaccination of persons with primary and secondary immunodeficiencies," in "General Recommendations on Immunization (ACIP)," available at www.cdc.gov/mmwr/preview/mmwrhtml/rr6002a1.htm; and American Academy of Pediatrics. Immunization in Special Clinical Circumstances. In: Pickering LK, Baker CJ, Kimberlin DW, Long SS, eds. *Red Book: 2012 Report of the Committee on Infectious Disease*. 29th ed. Elk Grove Village, IL: American Academy of Pediatrics.

This schedule is approved by the Advisory Committee on Immunization Practices (www.cdc.gov/vaccines/acip/index.html), the American Academy of Pediatrics (www.aap.org), the American Academy of Family Physicians (www.aafp.org), and the American College of Obstetricians and Gynecologists (www.acog.org).