

routinely indicated because meningococcal disease in these countries is generally not caused by serogroup B.

- Military recruits should receive 1 dose of MenACWY and revaccinate every 5 years if the increased risk for infection remains.
- First-year college students age 21 years or younger who live in residence halls should receive 1 dose of MenACWY vaccine if they have not received MenACWY vaccine at age 16 years or older.
- Young adults ages 16 through 23 years (preferred age range is 16 through 18 years) who are healthy and not at increased risk for serogroup B meningococcal disease (described above) may receive either a 2-dose series of MenB-4C at least 1 month apart or a 2-dose series of MenB-FHbp at 0 and 6 months for short-term protection against most strains of serogroup B meningococcal disease.
- For adults age 56 years or older who have not previously received serogroups A, C, W, and Y meningococcal vaccine and need only 1 dose, meningococcal polysaccharide serogroups A, C, W, and Y vaccine (MPSV4) is preferred. For adults who previously received MenACWY or anticipate receiving multiple doses of serogroups A, C, W, and Y meningococcal vaccine, MenACWY is preferred.

- Notes: MenB-4C and MenB-FHbp are not interchangeable (i.e., the same vaccine should be used for all doses to complete the series). There is no recommendation for MenB revaccination at this time. MenB may be administered at the same time as MenACWY but at a different anatomic site, if feasible.

11. *Haemophilus influenzae* type b vaccination

Special populations

- Adults who have anatomical or functional asplenia or sickle cell disease, or are undergoing elective splenectomy should receive 1 dose of *Haemophilus influenzae* type b conjugate vaccine (Hib) if they have not previously received Hib vaccine. Hib should be administered at least 14 days before splenectomy.
- Adults with a hematopoietic stem cell transplant (HSCT) should receive 3 doses of Hib vaccine in at least 4 week intervals 6–12 months after a transplant regardless of their Hib history.
- Notes: Hib is not routinely recommended for adults with human immunodeficiency virus infection because their risk for *Haemophilus influenzae* type B infection is low.

The following acronyms are used for vaccines recommended for adults:

HepA	hepatitis A vaccine	MMR	measles, mumps, and rubella vaccine
HepA-HepB	hepatitis A and hepatitis B vaccines	MPSV4	serogroups A, C, W, and Y meningococcal polysaccharide vaccine
HepB	hepatitis B vaccine	PCV13	13-valent pneumococcal conjugate vaccine
Hib	<i>Haemophilus influenzae</i> type b conjugate vaccine	PPSV23	23-valent pneumococcal polysaccharide vaccine
HPV vaccine	human papillomavirus vaccine	RIV	recombinant influenza vaccine
HZV	herpes zoster vaccine	Td	tetanus and diphtheria toxoids
IIV	inactivated influenza vaccine	Tdap	tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis vaccine
LAIV	live attenuated influenza vaccine	VAR	varicella vaccine
MenACWY	serogroups A, C, W, and Y meningococcal conjugate vaccine		
MenB	serogroup B meningococcal vaccine		

Details on vaccines recommended for adults and complete ACIP statements are available at www.cdc.gov/vaccines/hcp/acip-recs/index.html. Additional CDC resources include:

- A summary of information on vaccination recommendations, vaccination of persons with immunodeficiencies, preventing and managing adverse reactions, vaccination contraindications and precautions, and other information can be found in *General Recommendations on Immunization* at www.cdc.gov/mmwr/preview/mmwrhtml/rr60021.htm.
- Vaccine information Statements that explain benefits and risks of vaccines are available at www.cdc.gov/vaccines/hcp/vis/index.html.
- Information and resources regarding vaccination of pregnant women are available at www.cdc.gov/vaccines/adults/rec-vac/pregnant.html
- Information on travel vaccine requirements and recommendations is available at wwwnc.cdc.gov/travel/destinations/list.
- CDC Vaccine Schedules App for clinicians and other immunization service providers to download is available at www.cdc.gov/vaccines/schedules/hcp/schedule-app.html.
- Recommended Immunization Schedule for Children and Adolescents Aged 18 Years or Younger is available at www.cdc.gov/vaccines/schedules/hcp/index.html.

Report suspected cases of reportable vaccine-preventable disease to the local or state health department.

Report all clinically significant postvaccination reactions to the Vaccine Adverse Event Reporting System at www.vaers.hhs.gov or by telephone, 800-822-7967. All vaccines included in the 2017 adult immunization schedule, except herpes zoster and 23-valent pneumococcal polysaccharide vaccines are covered by the Vaccine Injury Compensation Program. Information on how to file a vaccine injury claim is available at www.hrsa.gov/vaccinecompensation or by telephone, 800-338-2382.

Submit questions and comments regarding the 2017 adult immunization schedule to CDC through www.cdc.gov/cdc-info or by telephone, 800-CDC-INFO (800-232-4636), in English and Spanish, 8:00 a.m. – 8:00 p.m. ET, Monday – Friday, excluding holidays.