

Vaccines & Immunizations

WHEC Practice Bulletin and Clinical Management Guidelines for healthcare providers. Educational grant provided by Women’s Health and Education Center (WHEC).

The Advisory Committee on Immunization Practices (ACIP) recently issued the 2011 Recommended Adult Immunization Schedule¹. The schedule includes a recommendation in effect as of December 21, 2010. 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. Considerations should include provider assessment, patient preference, and the potential for adverse events. Each schedule must be read with foot-notes regarding dosage and other important information, which can be found at the CDC website (link has been provided below). The language in several foot-notes is changed to clarify previous wording.

Figures reproduced from: Centers for Disease Control and Prevention. Recommended adult immunization schedule – United States, 2011, *MMWR* 2011;60(4):

Recommended adult immunization schedule, by vaccine and age group – United States, 2011

Vaccine ▼ Age Group ►	19-26 years	27-49 years	50-59 years	60-64 years	>65 years
Influenza*	1 dose annually				
Tetanus, diphtheria, pertussis (Td/Tdap)*	Substitute 1-time dose of Tdap for Td booster; with Td every 10 years				Td booster every 10 years
Varicella*	2 doses				
Human papillomavirus (HPV)*	3 doses (females)				
Zoster				1 dose	
Measles, mumps, rubella (MMR)*	1 or 2 doses		1 dose		
Pneumococcal (polysaccharide)	1 or 2 doses				1 dose
Meningococcal*	1 or more doses				
Hepatitis A*	2 doses				
Hepatitis B*	3 doses				

Vaccines that might be indicated for adults, based on medical and other indications – United States, 2011

Indication ▶ Vaccine ▼	P R E G N A N C Y	Immuno- compromising condition (excluding HIV)	HIV infection CD4+T lymphocyte Count		Diabetes, heart disease, chronic lung disease, chronic alcoholism	Asplenia (including elective splenectomy) and persistent complement component deficiencies	Ch. L I V E R D I S E A S E	Kidney failure, end- stage renal disease, receipt of hemodialysis	Health -care P E R S O N N E L
			< 200 cells/ µL	>200 cells/ µL					
Influenza*			1 dose TIV annually						1 dose TIV or LAIV annually
Tetanus, diphtheria, pertussis (Td/Tdap)*	Td		Substitute 1-time dose to Tdap for Td booster; then boost with Td every 10 years						
Varicella*		Contraindicated	2 doses						
Human papillomavirus (HPV)*			3 doses through age 26 years						
Zoster		Contraindicated		1 dose					
Measles, mumps, rubella*		Contraindicated	1 or 2 doses						
Pneumococcal (polysaccharide)			1 or 2 doses						
Meningococcal*			1 or more doses						
Hepatitis A*			2 doses						
Hepatitis B*					3 doses				

* Covered by the Vaccine Injury Compensation Program



For all persons in this category who meet the age requirements and who lack evidence of immunity (e.g., lack documentation of vaccination or have no evidence of previous infection).



Recommended if some other risk factor is present (e.g., on the basis of medical, occupational, lifestyle, or other indications).



No recommendation.

Clinically significant adverse events that follow immunization should be reported to the Vaccine Adverse Event Reporting System (VAERS) at <http://www.cdc.gov/vaccines/pubs/acip-list.htm> or by telephone, 800-822-7967. The Recommended Immunization Schedules for Persons Aged 0 Through 18 are approved by the Advisory Committee on Immunization Practices (ACIP), the American Academy of Pediatrics (<http://www.aap.org>), and the American Academy of Family Physicians.

Several changes are noted in the new schedule. Among these are:

- The influenza vaccine is recommended for all adults;
- Either quadrivalent or bivalent human papillomavirus (HPV) vaccine is acceptable for females;
- Td/Tdap vaccination is recommended for persons older than 65 who have close contact with infants up to age 1;
- One-time revaccination with pneumococcal polysaccharide vaccine applies only to adults ages 19 to 64 who have the specified chronic conditions;
- The meningococcal conjugate vaccine may be given as 1 or 2 doses, depending on specific medical conditions of the patient;
- Persons with sickle cell disease, leukemia, or HIV infection, or those who have had a splenectomy, may be considered for *Haemophilus influenzae* type B vaccine.

Suggested Reading

Centers for Disease Control and Prevention
Vaccines & Immunizations

<http://www.cdc.gov/vaccines/recs/schedules/default.htm>

References

1. Advisory Committee on Immunization Practices. Recommended adult immunization schedule: United States, 2011. *Ann Intern Med* 2011;154(3):168-173

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