

## Schedules Unchanged From Mid-2004

The U.S. Recommended Childhood and Adolescent Immunization Schedule for 2005 is unchanged from the one published in mid-2004, when the influenza vaccine was recommended for all 6- to 23-month-olds and for household contacts and out-of-home caregivers for all children aged 0-23 months (PEDIATRIC NEWS, June 2004, p. 6).

Also unchanged is the catch-up immunization schedule for children and adolescents who start late or are more than 1 month behind. Both the routine and catch-up schedules for 2005 have been approved by the Centers for Disease Control and Prevention's Advisory Committee on Immunization Practices (ACIP), the American Academy of Family Physicians (AAFP), and the American Academy of Pediatrics (AAP).

The National Childhood Vaccine Injury Act requires that parents be provided with copies of Vaccine Information Statements before administering each dose of the vaccines listed in the schedule. Additional information is available from state health departments and at [www.cdc.gov/nip/publications/vis](http://www.cdc.gov/nip/publications/vis).

Detailed recommendations for using vaccines are available from the manufacturers' package inserts, the AAP's 2003 Red Book, and ACIP statements on specific vaccines, which can be viewed, downloaded, and printed from the CDC's National Immunization Program Web site, [www.cdc.gov/nip/publications/vis/vis-instructions.pdf](http://www.cdc.gov/nip/publications/vis/vis-instructions.pdf).

Guidance on how to obtain and complete a Vaccine Adverse Event Reporting System form is available at [www.vaers.org](http://www.vaers.org) or by telephone, 1-800-822-7976.

## Recommended Childhood and Adolescent Immunization Schedule UNITED STATES • 2005

Vaccine ▼	Age ▶	Birth	1 month	2 months	4 months	6 months	12 months	15 months	18 months	24 months	4-6 years	11-12 years	13-18 years
Hepatitis B <sup>1</sup>		HepB #1		HepB #2			HepB #3				HepB Series		
Diphtheria, Tetanus, Pertussis <sup>2</sup>				DTaP	DTaP	DTaP		DTaP			DTaP	Td	Td
<i>Haemophilus influenzae</i> type b <sup>3</sup>				Hib	Hib	Hib		Hib					
Inactivated Poliovirus				IPV	IPV		IPV				IPV		
Measles, Mumps, Rubella <sup>4</sup>							MMR #1				MMR #2	MMR #2	
Varicella <sup>5</sup>							Varicella			Varicella			
Pneumococcal <sup>6</sup>				PCV	PCV	PCV	PCV			PCV	PPV		
Influenza <sup>7</sup>							Influenza (Yearly)			Influenza (Yearly)			
Hepatitis A <sup>8</sup>										Hepatitis A Series			

This schedule indicates the recommended ages for routine administration of currently licensed childhood vaccines, as of December 1, 2004, for children through age 18 years. Any dose not given at the recommended age should be given at any subsequent visit when indicated and feasible.

■ Indicates age groups that warrant special effort to administer those vaccines not previously given. Additional vaccines may be licensed and recommended during the year. Licensed combination vaccines may be used whenever any components of the combination are indicated and the vaccine's other components are not

contraindicated. Providers should consult the manufacturers' package inserts for detailed recommendations. Clinically significant adverse events that follow immunization should be reported to the Vaccine Adverse Event Reporting System (VAERS). Guidance about how to obtain and complete a VAERS form can be found on the Internet: [www.vaers.org](http://www.vaers.org) or by calling 800-822-7967.

■ Range of recommended ages

■ Preadolescent assessment

■ Only if mother HBsAg(-)

■ Catch-up immunization



DEPARTMENT OF HEALTH AND HUMAN SERVICES  
CENTERS FOR DISEASE CONTROL AND PREVENTION



The Childhood and Adolescent Immunization Schedule is approved by:  
Advisory Committee on Immunization Practices [www.cdc.gov/nip/acip](http://www.cdc.gov/nip/acip)  
American Academy of Pediatrics [www.aap.org](http://www.aap.org)  
American Academy of Family Physicians [www.aafp.org](http://www.aafp.org)

### Footnotes

#### Recommended Childhood and Adolescent Immunization Schedule UNITED STATES • 2005

**1. Hepatitis B (HepB) vaccine.** All infants should receive the first dose of hepatitis B vaccine soon after birth and before hospital discharge; the first dose may also be given by age 2 months if the infant's mother is hepatitis B surface antigen (HBsAg) negative. Only monovalent HepB can be used for the birth dose. Monovalent or combination vaccine containing HepB may be used to complete the series. Four doses of vaccine may be administered when a birth dose is given. The second dose should be given at least 4 weeks after the first dose, except for combination vaccines which cannot be administered before age 6 weeks. The third dose should be given at least 16 weeks after the first dose and at least 8 weeks after the second dose. The last dose in the vaccination series (third or fourth dose) should not be administered before age 24 weeks.

**Infants born to HBsAg-positive mothers** should receive HepB and 0.5 mL of Hepatitis B Immune Globulin (HBIG) within 12 hours of birth at separate sites. The second dose is recommended at age 1-2 months. The last dose in the immunization series should not be administered before age 24 weeks. These infants should be tested for HBsAg and antibody to HBsAg (anti-HBs) at age 9-15 months.

**Infants born to mothers whose HBsAg status is unknown** should receive the first dose of the HepB series within 12 hours of birth. Maternal blood should be drawn as soon as possible to determine the mother's HBsAg status; if the HBsAg test is positive, the infant should receive HBIG as soon as possible (no later than age 1 week). The second dose is recommended at age 1-2 months. The last dose in the immunization series should not be administered before age 24 weeks.

**2. Diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine.** The fourth dose of DTaP may be administered as early as age 12 months, provided 6 months have elapsed since the third dose and the child is unlikely to return at age 15-18 months. The final dose in the series should be given at age ≥4 years. **Tetanus and diphtheria toxoids (Td)** is recommended at age 11-12 years if at least 5 years have elapsed since the last dose of tetanus and diphtheria toxoid-containing vaccine. Subsequent routine Td boosters are recommended every 10 years.

**3. Haemophilus influenzae type b (Hib) conjugate vaccine.** Three Hib conjugate vaccines are licensed for infant use. If PRP-OMP (PedvaxHIB or ComVax [Merck]) is administered at ages 2 and 4 months, a dose at age 6 months is not required. DTaP/Hib combination products should not be used for primary immunization in infants at ages 2, 4 or 6 months but can be used as boosters following any Hib vaccine. The final dose in the series should be given at age ≥12 months.

**4. Measles, mumps, and rubella vaccine (MMR).** The second dose of MMR is recommended routinely at age 4-6 years but may be administered during any visit, provided at least 4 weeks have elapsed since the first dose and both doses are administered beginning at or after age 12 months. Those who have not previously received the second dose should complete the schedule by the visit at age 11-12 years.

**5. Varicella vaccine.** Varicella vaccine is recommended at any visit at or after age 12 months for susceptible children (i.e., those who lack a reliable history of chickenpox). Susceptible persons aged ≥13 years should receive 2 doses, given at least 4 weeks apart.

**6. Pneumococcal vaccine.** The heptavalent pneumococcal conjugate vaccine (PCV) is recommended for all children aged 2-23 months. It is also recommended for certain children aged 24-59 months. The final dose in the series should be given at age ≥12 months. **Pneumococcal polysaccharide vaccine (PPV)** is recommended in addition to PCV for certain high-risk groups. See *MMWR* 2000;49(RR-9):1-35.

**7. Influenza vaccine.** Influenza vaccine is recommended annually for children aged ≥6 months with certain risk factors (including but not limited to asthma, cardiac disease, sickle cell disease, HIV, and diabetes), healthcare workers, and other persons (including household members) in close contact with persons in groups at high risk (see *MMWR* 2004;53(RR-6):1-40) and can be administered to all others wishing to obtain immunity. In addition, healthy children aged 6-23 months and close contacts of healthy children aged 0-23 months are recommended to receive influenza vaccine, because children in this age group are at substantially increased risk for influenza-related hospitalizations. For healthy persons aged 5-49 years, the intranasally administered live, attenuated influenza vaccine (LAIV) is an acceptable alternative to the intramuscular trivalent inactivated influenza vaccine (TIV). See *MMWR* 2004;53(RR-6):1-40. Children receiving TIV should be administered a dosage appropriate for their age (0.25 mL if 6-35 months or 0.5 mL if ≥3 years). Children aged ≤8 years who are receiving influenza vaccine for the first time should receive 2 doses (separated by at least 4 weeks for TIV and at least 6 weeks for LAIV).

**8. Hepatitis A vaccine.** Hepatitis A vaccine is recommended for children and adolescents in selected states and regions and for certain high-risk groups; consult your local public health authority. Children and adolescents in these states, regions, and high-risk groups who have not been immunized against hepatitis A can begin the hepatitis A immunization series during any visit. The 2 doses in the series should be administered at least 6 months apart. See *MMWR* 1999;48(RR-12):1-37.