Figure 1. Recommended immunization schedule for persons aged 0 through 18 years – 2013. (FOR THOSE WHO FALL BEHIND OR START LATE, SEE THE CATCH-UP SCHEDULE (FIGURE 2]).

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.

Vaccines	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)	1 [#] dose	≺ ····· 2 nd o	lose ·····>		≺		···· 3 rd dose ··		>							
Rotavirus ² (RV) RV-1 (2-dose series); RV-5 (3-dose series)			1ª dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 ^ª dose	2 nd dose	3 rd dose			4 th c	lose>			5 th dose				
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Haemophilus influenzae type b ^s (Hib)			1ª dose	2 nd dose	See footnote 5		✓ 3 rd or 4 see foo	th dose, tnote 5 ····>		1						
Pneumococcal conjugate ^{6a,c} (PCV13)			1ª dose	2 nd dose	3 rd dose		4 th o	lose>		1					r	
Pneumococcal polysaccharide ^{60,c} (PPSV23)																
Inactivated Poliovirus ⁷ (IPV) (<18years)			1 ^ª dose	2 nd dose			3 rd dose		>			4 th dose		1		
Influenza ⁸ (IIV; LAIV) 2 doses for some : see footnote 8							Annual vaccin	ation (IIV only)			Ar	nnual vaccina	tion (IIV or LAI	V)	
Measles, mumps, rubella ⁹ (MMR)							≺ 1ªo	lose>		1		2 nd dose		1		
Varicella ¹⁰ (VAR)							≺ 1¤c	lose>		I		2 nd dose		1		
Hepatitis A ¹¹ (HepA)							<	- 2 dose series, s	ee footnote 11-	~		[
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal ¹³ (Hib-MenCY \geq 6 weeks; MCV4- D \geq 9 mos; MCV4-CRM \geq 2 yrs.)				r	see footnote 13						r		1ª dose		booster	
Range of recommended ages Ra							Range of rec up is encour	commended ages during which catch- uraged and for certain high-risk groups				No	t routinely commended			

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 http://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 (http://www.aers.hhs.gov) or by telephone (800-822-976). 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 (http://www.cdc.gov/vaccines) or by telephone (800-222-4636]).

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

NOTE: The above recommendations must be read along with the footnotes of this schedule.

FIGURE 2. Catch-up immunization schedule for persons aged 4 months through 18 years who start late or who are more than 1 month behind — United States, 2013

The figure below provides catch-up schedules and minimum intervals between doses for children whose vaccinations have been delayed. A vaccine series does not need to be restarted, regardless of the time that has elapsed between doses. Use the section appropriate for the child's age. Always use this table in conjunction with Figure 1 and the footnotes that follow.

		Pers	sons aged 4 months through 6 years									
Vaccine	Minimum Age	Minimum Interval Between Doses										
	for Dose 1	Dose 1 to dose 2	Dose 2 to dose 3	Dose 3 to dose 4	Dose 4 to dose 5							
Hepatitis B ¹	Birth	4 weeks	8 weeks and at least 16 weeks after first dose; minimum age for the final dose is 24 weeks									
Rotavirus ²	6 weeks	4 weeks	4 weeks ²									
Diphtheria, tetanus, pertussis ³	6 weeks	4 weeks	4 weeks	6 months	6 months ³							
Haemophilus influenzae type b ⁵	6 weeks	4 weeks if first dose administered at younger than age 12 months 8 weeks (as final dose) if first dose administered at age 12–14 months No further doses needed if first dose administered at age 15 months or older	4 weeks ⁵ If current age is younger than 12 months 8 weeks (as final dose) ²⁴ (forurent age is 12 months or older and first dose administered at younger than age 12 months and second dose administered at younger than 15 months No further doses needed if previous dose administered at age 15 months or older	8 weeks (as final dose) This dose only necessary for children aged 12 through 59 months who received 3 doses before age 12 months								
Pneumococcal ⁶	6 weeks	4 weeks if first dose administered at younger than age 12 months 8 weeks (as final dose for healthy children) if first dose administered at age 12 months or older or current age 24 through 59 months No further doses needed for healthy children if first dose administered at age 24 months or older	4 weeks if current age is younger than 12 months 8 weeks (as final dose for healthy children if rcurrent age is 12 months or older No further doses needed for healthy children if previous dose administered at age 24 months or older	8 weeks (as final dose) This dose only necessary for children aged 12 through 59 months who received 3 doses before age 12 months or for children at high risk who received 3 doses at any age								
Inactivated poliovirus ⁷	6 weeks	4 weeks	4 weeks	6 months ⁷ minimum age 4 years for final dose								
Meningococcal ¹³	6 weeks	8 weeks ¹³	see footnote 13	see footnote 13								
Measles, mumps, rubella9	12 months	4 weeks										
Varicella ¹⁰	12 months	3 months										
Hepatitis A ¹¹	12 months	6 months										
Persons aged 7 through 18 years												
Tetanus, diphtheria; tetanus, diphtheria, pertussis ⁴	7 years ⁴	4 weeks	4 weeks if first dose administered at younger than age 12 months 6 months if first dose administered at 12 months or older	6 months if first dose administered at younger than age 12 months								
Human papillomavirus ¹²	9 years	Routine dosing intervals are recommended ¹²										
Hepatitis A ¹¹	12 months	6 months										
Hepatitis B ¹	Birth	4 weeks	8 weeks (and at least 16 weeks after first dose)									
Inactivated poliovirus ⁷	6 weeks	4 weeks	4 weeks ⁷	6 months ⁷								
Meningococcal ¹³	6 weeks	8 weeks ¹³										
Measles, mumps, rubella9	12 months	4 weeks										
Varicella ¹⁰	12 months	3 months if person is younger than age 13 years 4 weeks if person is aged 13 years or older										

NOTE: The above recommendations must be read along with the footnotes of this schedule.

Footnotes — Recommended immunization schedule for persons aged 0 through 18 years—United States, 2013

For further guidance on the use of the vaccines mentioned below, see: http://www.cdc.gov/vaccines/pubs/acip-list.htm

1. Hepatitis B (HepB) vaccine. (Minimum age: birth)

Routine vaccination: At birth

- Administer monovalent HepB vaccine to all newborns before hospital discharge. For infants born to hepatitis B surface antigen (HBsAg)–positive mothers, administer HepB vaccine and 0.5 mL of hepatitis B immune globulin (HBIG) within 12 hours of birth. These infants should be tested for HBsAg and antibody to HBsAg (anti-HBs)
- 1 to 2 months after completion of the HepB series, at age 9 through 18 months (preferably at the next well-child visit). tpreteraby at the treat wein-clinic visit, If mother's HBsAg status is unknown, within 12 hours of birth administer HepB vaccine to all infants regardless of birth weight. For infants weighing <2,000 grams, administer HBIG in addition to HepB within 12 hours of birth. Determine mother's HBsAg status as soon as possible and, if she is HBsAg-positive, also administer HBIG
- for infants weighing ≥2,000 grams (no later than age 1 week).
- Doses following the birth dose The second dose should be administered at age 1 or 2 months. Monovalent HepB vaccine should be used for doses administered before age 6 weeks. Infants who did not receive a birth dose should receive 3 doses of a HepB-containing
- vaccine on a schedule of 0, 1 to 2 months, and 6 months starting as soon as feasible. See Figure 2.
- The minimum interval between dose 1 and dose 2 is 4 weeks and between dose 2 and 3 is 8 weeks. The final (third or fourth) dose in the HepB vaccine series should be administered no earlier than age 24 weeks, and at least 16 weeks after the first dose
- Administration of a total of 4 doses of HepB vaccine is recommended when a combination vaccine containing HepB is administered after the birth dose. Catch-up vaccination:
- Unvaccinated persons should complete a 3-dose series.
 A 2-dose series (doses separated by at least 4 months) of adult formulation Recombivax HB is licensed for use in children aged 11 through 15 years. For other catch-up issues, see Figure 2.
- Rotavirus (RV) vaccines. (Minimum age: 6 weeks for both RV-1 [Rotarix] and 2. RV-5 [RotaTeg]).
 - Routine vaccination: Administer a series of RV vaccine to all infants as follows:

 - 1. If RV-1 is used, administer a 2-dose series at 2 and 4 months of age. 2. If RV-5 is used, administer a 3-dose series at ages 2, 4, and 6 months. 3. If any dose in series was RV-5 or vaccine product is unknown for any dose in the series, a total of 3 doses of RV vaccine should be administered.

Catch-up vaccination:

- The maximum age for the first dose in the series is 14 weeks, 6 days.
 Vaccination should not be initiated for infants aged 15 weeks 0 days or older.
 The maximum age for the final dose in the series is 8 months, 0 days. If RV-1(Rotarix) is administered for the first and second doses, a third dose is not
- indicated.
- For other catch-up issues, see Figure 2.
- Diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine. (Minimum age: 6 weeks)

Routine vaccination:

 Administer a 5-dose series of DTaP vaccine at ages 2, 4, 6, 15–18 months, and 4 through 6 years. The fourth dose may be administered as early as age 12 months, provided at least 6 months have elapsed since the third dose.

Catch-up vaccination: • The fifth (booster) dose of DTaP vaccine is not necessary if the fourth dose was administered at age 4 years or older. For other catch-up issues, see Figure 2.

4. Tetanus and diphtheria toxoids and acellular pertussis (Tdap) vaccine. (Minimum age: 10 years for Boostrix, 11 years for Adacel). Routine vaccination:

- Administer 1 dose of Tdap vaccine to all adolescents aged 11 through 12 years.
 Tdap can be administered regardless of the interval since the last tetanus and
- diphtheria toxoid-containing vaccine. Administer one dose of Tdap vaccine to pregnant adolescents during each preg-
- nancy (preferred during 27 through 36 weeks gestation) regardless of number of years from prior Td or Tdap vaccination.

Catch-up vaccination:

- Persons aged 7 through 10 years who are not fully immunized with the childhood DTaP vaccine series, should receive Tdap vaccine as the first dose in the catch-up series; if additional doses are needed, use Td vaccine. For these children, an adoles
- Persons aged 11 through 18 years who have not received Tdap vaccine should not be given.
 Persons aged 11 through 18 years who have not received Tdap vaccine should receive a dose followed by tetanus and diphtheria toxoids (Td) booster doses every 10 years thereafter. • An inadvertent dose of DTaP vaccine administered to children aged 7 through 10
- years can count as part of the catch-up series. This dose can count as the adolescent Tdap dose, or the child can later receive a Tdap booster dose at age 11–12 years.

For other catch-up issues, see Figure 2. Haemophilus influenzae type b (Hib) conjugate vaccine. (Minimum age: 6 weeks)

Routine vaccination:

- Administer a Hib vaccine primary series and a booster dose to all infants. The primary series doses should be administered at 2, 4, and 6 months of age; however, if PRP-OMP (PedvaxHib or Comvax) is administered at 2 and 4 months of age, a dose at age 6 months is not indicated. One booster dose should be administered at age 12 through15 months.
- Hiberix (PRP-T) should only be used for the booster (final) dose in children aged 12 months through 4 years, who have received at least 1 dose of Hib.

Catch-up vaccination:

- If dose 1 was administered at ages 12-14 months, administer booster (as final dose) at least 8 weeks after dose 1
- If the first 2 doses were PRP-OMP (PedvaxHIB or Comvax), and were administered at age 11 months or younger, the third (and final) dose should be administered at age 12 through 15 months and at least 8 weeks after the second dose.
- If the first dose was administered at age 7 through 11 months, administer the second dose at least 4 weeks later and a final dose at age 12 through 15 months, regardless of Hib vaccine (PRP-T or PRP-OMP) used for first dose.
- For unvaccinated children aged 15 months or older, administer only 1 dose.
 For other catch-up issues, see Figure 2.



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Vaccination of persons with high-risk conditions:

 Hib vaccine is not routinely recommended for patients older than 5 years of age. However one dose of Hib vaccine should be administered to unvaccinated or partially vaccinated persons aged 5 years or older who have leukemia, malignant neoplasms, anatomic or functional asplenia (including sickle cell disease), human

immunodeficiency virus (HIV) infection, or other immunocompromising conditions. 6a. Pneumococcal conjugate vaccine (PCV). (Minimum age: 6 weeks)

Routine vaccination:

- Administer a series of PCV13 vaccine at ages 2, 4, 6 months with a booster at age 12 through 15 months. For children aged 14 through 59 months who have received an age-appropriate
- series of 7-valent PCV (PCV7), administer a single supplemental dose of 13-valent PCV (PCV13).
- Catch-up vaccination:
- Administer 1 dose of PCV13 to all healthy children aged 24 through 59 months who are not completely vaccinated for their age.
- For other catch-up issues, see Figure 2.
 Vaccination of persons with high-risk conditions:
 For children aged 24 through 71 months with certain underlying medical conditions (see footnote (c), administer 1 dose of PCV13 if 3 doses of PCV were received previously, or administer 2 doses of PCV13 at least 8 weeks apart if fewer than 3 doses of PCV were received previously.
- · A single dose of PCV13 may be administered to previously unvaccinated children aged 6 through 18 years who have anatomic or functional asplenia (including sickle cell disease), HIV infection or an immunocompromising condition, cochlear implant or cerebrospinal fluid leak. See MIWR 2010;59 (No. RR-11), available at http://www. cdc.gov/mmwr/pdf/rr/rr5911.pdf.
- Administer PPSV23 at least 8 weeks after the last dose of PCV to children aged 2 years or older with certain underlying medical conditions (see footnotes 6b and 6c).

6b. Pneumococcal polysaccharide vaccine (PPSV23). (Minimum age: 2 years) Vaccination of persons with high-risk conditions: • Administer PPSV23 at least 8 weeks after the last dose of PCV to children aged 2 years or older with certain underlying medical conditions (see footnote 6c). A single revac cination with PPSV should be administered after 5 years to children with anatomic or functional asplenia (including sickle cell disease) or an immunocompromising condition.

6c. Medical conditions for which PPSV23 is indicated in children aged 2 years and older and for which use of PCV13 is indicated in children aged 24 through 71 months:

- Immunocompetent children with chronic heart disease (particularly cyanotic congenital heart disease and cardiac failure); chronic lung disease (including asthma if treated with high-dose oral corticosteroid therapy), diabetes mellitus; cerebrospinal fluid leaks; or cochlear implant.
- Children with anatomic or functional asplenia (including sickle cell disease and other
- Children with an advinte or indicational aspena including scale equilibrium of the menoglobinopathies, congenital or acquired asplenia, or splenic dysfunction);
 Children with immunocompromising conditions: HIV infection, chronic renal failure and nephrotic syndrome, diseases associated with treatment with immunosuppressive drugs or radiation therapy, including malignant neoplasms, leukemias, lymphomas and Hodgkin disease; or solid organ transplantation, congenital immunodeficiency.

7. Inactivated poliovirus vaccine (IPV). (Minimum age: 6 weeks)

- Routine vaccination:
- Administer a series of IPV at ages 2, 4, 6–18 months, with a booster at age 4–6 years. The final dose in the series should be administered on or after the fourth birthday and at least 6 months after the previous dose.

- Catch-up vaccination: In the first 6 months of life, minimum age and minimum intervals are only recommended if the person is at risk for imminent exposure to circulating poliovirus (i.e., travel to a polio-endemic region or during an outbreak).
- If 4 or more doses are administered before age 4 years, an additional dose should be administered at age 4 through 6 years.
- A fourth dose is not necessary if the third dose was administered at age 4 years or older and at least 6 months after the previous dose.
- If both OPV and IPV were administered as part of a series, a total of 4 doses should be administered, regardless of the child's current age.
- IPV is not routinely recommended for U.S. residents aged 18 years or older For other catch-up issues, see Figure 2.
- Influenza vaccines. (Minimum age: 6 months for inactivated influenza vaccine [IIV]; 2 years for live, attenuated influenza vaccine [LAIV]) 8.

Routine vaccination:

9.

- Administer influenza vaccine annually to all children beginning at age 6 months. For most healthy, nonpregnant persons aged 2 through 49 years, either LAIV or IIV may In borneardy, including the born age 22 in logging by gens, genine that with it may be used. However, LAW should NOT be administered to some persons, including 1) those with asthma, 2) children 2 through 4 years who had wheezing in the past 12 months, or 3) those who have any other underlying medical conditions that predispose them to influenza complications. For all other contraindications to use of LAIV see MMWR 2010; 59 (No. RR-8), available at http://www.cdc.gov/mmwr/ pdf/rr/rr5908.pdf
- Administer 1 dose to persons aged 9 years and older.
- For children aged 6 months through 8 years: For the 2012–13 season, administer 2 doses (separated by at least 4 weeks) to children who are receiving influenza vaccine for the first time. For additional guidance, follow dosing guidelines in the 2012 ACP influenza vaccine recommendations, MMWR 2012; 61: 613–618, available at http://www.cdc.gov/mmwr/pdf/wk/ mm6132.pdf.
- For the 2013–14 season, follow dosing guidelines in the 2013 ACIP influenza vaccine recommendations

Measles, mumps, and rubella (MMR) vaccine. (Minimum age: 12 months for routine vaccination) Routine vaccination

 Administer the first dose of MMR vaccine at age 12 through 15 months, and the second dose at age 4 through 6 years. The second dose may be administered before age 4 years, provided at least 4 weeks have elapsed since the first dose.

Additional information

For contraindications and precautions to use of a vaccine and for additional information regarding that vaccine, vaccination providers should consult the relevant ACIP

cdc.gov/vaccines/pubs/acip-list.htm#mening.

mm6040.pdf

or MCV4.

- statement available online at http://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 http://wwwn.cdc.gov/travel/page/vaccinations.htm Forvaccination of persons with primary and secondary immunodeficiencies, see Table 13, "Vaccination of persons with primary and secondary immunodeficiencies," General Recommendations on Immunization (ACIP), available at http://www.cdc.gov/mww/preview/mmwr/html/r6002a1.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 Diseases. 29th ed. Elk Grove Village, IL: American Academy of Pediatrics.

- Administer 1 dose of MMR vaccine to infants aged 6 through 11 months before departure from the United States for international travel. These children should be revaccinated with 2 doses of MMR vaccine, the first at age 12 through 15 months (12 months if the child remains in an area where disease risk is high), and the second dose at least 4 weeks later
- Administer 2 doses of MMR vaccine to children aged 12 months and older, before departure from the United States for international travel. The first dose should be administered on or after age 12 months and the second dose at least 4 weeks later. Catch-up vaccination:

Ensure that all school-aged children and adolescents have had 2 doses of MMR

vaccine; the minimum interval between the 2 doses is 4 weeks. 10. Varicella (VAR) vaccine. (Minimum age: 12 months)

Routine vaccination:

 Administer the first dose of VAR vaccine at age 12 through 15 months, and the second dose at age 4 through 6 years. The second dose may be administered before age 4 years, provided at least 3 months have elapsed since the first dose. If the second dose was administered at least 4 weeks after the first dose, it can be accepted as valid.

Catch-up vaccination:

Routine vaccination:

Catch-up vaccination:

Special populations:

(Minimum age: 9 years)

and only HPV4 may be used for males.

gov/mmwr/pdf/wk/mm6030 pdf

For other catch-up issues, see Figure 2.

Vaccination of persons with high-risk conditions:

Routine vaccination:

Catch-up vaccination:

Catch-up vaccination:

weeks between doses.

and 12-15 months.

 Ensure that all persons aged 7 through 18 years without evidence of immunity (see MMWR 2007;56 [No. RR-4], available at http://www.cdc.gov/mmwr/pdf/rr/ (rectant of the second of the was administered at least 4 weeks after the first dose, it can be accepted as valid); for persons aged 13 years and older, the minimum interval between doses is 4 weeks. 11. Hepatitis A vaccine (HepA). (Minimum age: 12 months)

Initiate the 2-dose HepA vaccine series for children aged 12 through 23 months;

separate the 2 doses by 6 to 18 months.
 Children who have received 1 dose of HepA vaccine before age 24 months, should

receive a second dose 6 to 18 months after the first dose. • For any person aged 2 years and older who has not already received the HepA

administered if immunity against hepatitis A virus infection is desired.

The minimum interval between the two doses is 6 months.

vaccine series, 2 doses of HepA vaccine separated by 6 to 18 months may be

Administer 2 doses of Hep A vaccine at least 6 months apart to previously unvac-

or who are at increased risk for infection. 12. Human papillomavirus (HPV) vaccines. (HPV4 [Gardasil] and HPV2 [Cervarix]).

cinated persons who live in areas where vaccination programs target older children,

Administer a 3-dose series of HPV vaccine on a schedule of 0, 1-2, and 6 months

to all adolescents aged 11-12 years. Either HPV4 or HPV2 may be used for females,

The vaccine series can be started beginning at age 9 years.
Administer the second dose 1 to 2 months after the <u>first</u> dose and the third dose 6

Administer the vaccine series to females (either HPV2 or HPV4) and males (HPV4)

Use recommended routine dosing intervals (see above) for vaccine series catch-up.

 Routine vaccination:
 Administer MCV4 vaccine at age 11–12 years, with a booster dose at age 16 years. Adolescent aged 11 through 18 years with human immunodeficiency virus (HU) infection should receive a 2-dose primary series of MCV4, with at least 8 weeks between doses. See MIWIR 2011; (6:1018–1019 available at: http://www.cdc.

For children aged 2 months through 10 years with high-risk conditions, see below

Administer MCV4 vaccine at age 13 through 18 years if not previously vaccinated.

If the first dose is administered at age 13 through 15 years, a booster dose should be administered at age 16 through 18 years with a minimum interval of at least 8

If the first dose is administered at age 16 years or older, a booster dose is not needed.

For children younger than 19 months of age with anatomic or functional asplenia (including sickle cell disease), administer an infant series of Hib-MenCY at 2, 4, 6,

For children aged 2 through 18 months with persistent complement component deficiency, administer either an infant series of Hib-MenCY at 2, 4, 6, and 12 through

United the dy, and minister terms and the distribution of the dist

apart. • For children aged 24 months and older with persistent complement component

deficiency or anatomic or functional asplenia (including sickle cell disease), who

have not received a complete series of Hib-MenCY or MCV4-D, administer 2 primary doses of either MCV4-D or MCV4-CRM. If MCV4-D (Menactra) is administered to a

child with asplenia (including sickle cell disease), do not administer MCV4-D until 2 years of age and at least 4 weeks after the completion of all PCV13 doses. See MIWUR 2011;66:1391–2, available at http://www.cdc.gov/mwwr.pdf/wk/mm6040.pdf. • For children aged 9 months and older who are residents of or travelers to countries in

the African meningitis belt or to the Hajj, administer an age appropriate formulation and series of MCV4 for protection against serogroups A and W-135. Prior receipt of

Hib-MenCY is not sufficient for children traveling to the meningitis belt or the Hajj

See MMWR 2011;60:1391-2, available at http://www.cdc.gov/mmwr/pdf/wk/

For children who are present during outbreaks caused by a vaccine serogroup, administer or complete an age and formulation-appropriate series of Hib-MenCY

For booster doses among persons with high-risk conditions refer to http://www.

Meningococcal conjugate vaccines (MCV). (Minimum age: 6 weeks for Hib-MenCY, 9 months for Menactra [MCV4-D], 2 years for Menveo [MCV4-CRM]).

months after the first dose (at least 24 weeks after the first dose).

at age 13 through 18 years if not previously vaccinated