Recommended Immunization Schedules for Persons Aged 0 Through 18 Years UNITED STATES, 2016

This schedule includes recommendations in effect as of January 1, 2016. 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/hcp/acip-recs/index.html. Clinically significant adverse events that follow vaccination should be reported to the Vaccine Adverse Event Reporting System (VAERS) online (http://www.vaers.hhs.gov) or by telephone (800-822-7967).

The Recommended Immunization Schedules for Persons Aged 0 Through 18 Years are approved by the

Advisory Committee on Immunization Practices (http://www.cdc.gov/vaccines/acip)

> American Academy of Pediatrics (http://www.aap.org)

American Academy of Family Physicians (http://www.aafp.org)

American College of Obstetricians and Gynecologists (http://www.acog.org)



U.S. Department of Health and Human Services

Centers for Disease Control and Prevention

(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 shaded.

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)	1 st dose	< 2 nd	dose>		<		3 rd dose		>							
Rotavirus ² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		P	 4 th	dose>			5 th dose				
Haemophilus influenzae type b⁵ (Hib)			1 st dose	2 nd dose	See footnote 5		See for	th dose,> otnote 5								
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th	dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	<		3 rd dose		>			4 th dose				
Influenza ^s (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination (IIV only) 1 or	2 doses			ccination (LA I or 2 doses	IV or		ination (LAIV dose only	or IIV)
Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	< 1 st (lose>				2 nd dose				
Varicella ¹⁰ (VAR)							< 1 st (lose>				2 nd dose				
Hepatitis A ¹¹ (HepA)							<mark><2</mark> -	dose series, S	ee footnote	11 >						
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	tnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide⁵ (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children			f recommen n-up immuni			Range of r for certain	ecommende high-risk gi	ed ages oups		groups that	commended may receive inical decisic	vaccine, sub			No recom	mendatior

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Hepatitis B [†] (HepB)	1 st dose	≺ 2 nd	dose>				3 rd dose		>							
Rotavirus² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose			 4 th	dose>			5 th dose				
Haemophilus influenzae type b ^s (Hib)			1 st dose	2 nd dose	See footnote 5		See for	th dose,> otnote 5					ſ	I		
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th (dose>						1		
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	∢		3 rd dose					4 th dose		1		
Influenza [®] (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination (IIV only) 1 or	2 doses			ccination (LA I or 2 doses	IV or		ination (LAIV dose only	or IIV)
Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	≺ 1 st (dose>		ι		2 nd dose		I.		
Varicella ¹⁰ (VAR)							< 1 st (dose>				2 nd dose				
Hepatitis A ¹¹ (HepA)							<mark><2</mark> -	-dose series, s	See footnote	<mark>11></mark>						
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	otnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide ⁶ (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children			f recommen n-up immuni			Range of r for certain	ecommende high-risk gi	ed ages roups		Range of rec groups that individual cl	may receive	vaccine, sub			No recom	mendatio

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Hepatitis B [†] (HepB)	1 st dose	≺ 2 nd	dose>				3 rd dose		>							
Rotavirus² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose			 4 th	dose>			5 th dose				
Haemophilus influenzae type b ^s (Hib)			1 st dose	2 nd dose	See footnote 5		See for	th dose,> otnote 5								
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th	dose>						1		
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	<		3 rd dose					4 th dose				
Influenza [®] (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination (IIV only) 1 or	2 doses			cination (LA or 2 doses	IV or		ination (LAIV dose only	or IIV)
Measles, mumps, rubella ⁹ (MMR)					See foo	otnote 9	≺ 1 st (lose>		ι		2 nd dose		I		
Varicella ¹⁰ (VAR)							 1 st (lose>				2 nd dose				
Hepatitis A ¹¹ (HepA)							<mark><2</mark> -	dose series, S	ee footnote	<mark>11></mark>						
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	tnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide⁵ (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children			f recommen 1-up immuni			Range of r for certain	ecommende high-risk gi	ed ages oups		Range of rec groups that individual cl	may receive	vaccine, sub			No recom	mendatio

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Hepatitis B [†] (HepB)	1 st dose	< 2 nd	dose>		≺		3 rd dose		>							
Rotavirus² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		1	 4 th	dose>			5 th dose				
Haemophilus influenzae type b ^s (Hib)			1 st dose	2 nd dose	See footnote 5		 ✓ 3rd or 4 See for 	th dose,> otnote 5								
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th (dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	<		3 rd dose					4 th dose				
Influenza [®] (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination (IIV only) 1 or	2 doses		Annual vao IIV) 1	ccination (LA or 2 doses	Vor	Annual vacc 1 c	ination (LAIV dose only	or IIV)
Measles, mumps, rubella ^g (MMR)					See foo	tnote 9	< 1 st c	lose>				2 nd dose				
Varicella ¹⁰ (VAR)							≺ 1 st c	lose>							1	
Hepatitis A ¹¹ (HepA)							< 2-	dose series, s	ee footnote	<mark>11></mark>			🗌 which ca	recommer tch-up is er igh-risk gro	nded ages d ncouraged a	uring and for
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	tnote 13						certainti	ign-risk gro		
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)												7 /		(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)							×							(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide ⁶ (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children		Range o for catch	f recommen n-up immuni	ded ages zation		Range of r for certain	ecommende high-risk gr	ed ages roups		Range of rec groups that i individual cli	may receive	vaccine, sub			No recom	mendatio

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Hepatitis B [†] (HepB)	1 st dose	< 2 nd	dose>		≺		3 rd dose		>							
Rotavirus² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose			 4 th	dose>			5 th dose				
Haemophilus influenzae type b ^s (Hib)			1 st dose	2 nd dose	See footnote 5		 ✓ <u>3rd or 4</u> See for 	th dose,> otnote 5							I	
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		≺ 4 th (dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	<		3 rd dose					4 th dose				
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Measles, mumps, rubella ^g (MMR)					See foo	tnote 9	< 1 st c	lose>				2 nd dose				
Varicella ¹⁰ (VAR)							≺ 1 st o	lose>								
Hepatitis A ¹¹ (HepA)							< 2-	dose series, s	See footnote	<mark>11></mark>			Range which e	igh-risk gro	souraged a	uring and for
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	tnote 13									
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)												/		(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
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Hepatitis B [†] (HepB)	1 st dose	< 2 nd	dose>				3 rd dose		>							
Rotavirus ² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		1	 4 th	dose>			5 th dose				
Haemophilus influenzae type b⁵ (Hib)			1 st dose	2 nd dose	See footnote 5		See for	th dose,> otnote 5								
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th	dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	∢		3 rd dose					4 th dose				
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Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	≺ 1 st (dose>				2 nd dose				
Varicella ¹⁰ (VAR)							≺ 1 st (dose>		1		2 nd dose				
Hepatitis A ¹¹ (HepA)							<mark><2</mark>	-dose series, S	See footnote	<mark>11></mark>						
Meningococcal ^{†3} (Hib-MenCY ≥ 6 weeks; MenACWY-D≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	otnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide⁵ (PPSV23)													See foo	otnote 6		
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Hepatitis B ¹ (HepB)	1 st dose	< 2 nd	dose>				3 rd dose		>							
Rotavirus² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		I	 4 th	dose>			5 th dose				
Haemophilus influenzae type b ^s (Hib)			1 st dose	2 nd dose	See footnote 5		 ✓ 3rd or 4 See for 	th dose,> otnote 5					[1	1	
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th (dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	-		3 rd dose		>			4 th dose			1	
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Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	≺ 1 st (dose>				2 nd dose				
Varicella ¹⁰ (VAR)							≺ 1 st c	dose>				2 nd dose			1	
Hepatitis A ¹¹ (HepA)							<mark>∢2</mark> -	-dose series, S	ee footnote	11>			Г		r	
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	tnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Fiaman papillomavirus ¹² (FFV2) females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children		Range o for catch	f recommen -up immuni	ded ages zation		Range of r for certain	ecommende high-risk gi	ed ages roups		groups that	commended may receive inical decisio	vaccine, sub	n-high-risk oject to		No recom	mendation

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(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 shaded.

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 [†] (HepB)	1 st dose	< 2 nd	dose>				3 rd dose		>							
Rotavirus ² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		1	 4 th	dose>			5 th dose				
Haemophilus influenzae type b ^s (Hib)			1 st dose	2 nd dose	See footnote 5		See for	th dose,> otnote 5								
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th	dose>						1		
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	∢		3 rd dose					4 th dose		1		
Influenza ⁸ (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination (IIV only) 1 or	2 doses			ccination (LA I or 2 doses	IV or		ination (LAIV dose only	or IIV)
Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	≺ 1 st (dose>				2 nd dose				
Varicella ¹⁰ (VAR)							 1 st (dose>				2 nd dose		1		
Hepatitis A ¹¹ (HepA)							<mark><2</mark>	-dose series, S	ee footnote	<mark>11></mark>						
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	otnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³									~					See	footnote 13	
Pneumococcal polysaccharide ⁶ (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children			f recommen n-up immuni			Range of r for certain	ecommende high-risk g	ed ages roups		groups that	commended may receive inical decisic	vaccine, sub			No recom	mendatior

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Hepatitis B [†] (HepB)	1 st dose	< 2 nd	dose>		<		3 rd dose		>							
Rotavirus² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		1	 4 th	dose>			5 th dose				
Haemophilus influenzae type b ⁵ (Hib)			1 st dose	2 nd dose	See footnote 5			th dose,> otnote 5					[I	1	
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th	dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	<		3 rd dose					4 th dose				
Influenza [®] (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination (IIV only) 1 or	2 doses		Annual vao IIV) 1	ccination (LA I or 2 doses	IV or	Annual vacc	ination (LAIV dose only	or IIV)
Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	≺ 1 st (dose>				2 nd dose			1	
Varicella ¹⁰ (VAR)							 1 st (dose>				2 nd dose			1	
Hepatitis A ¹¹ (HepA)							<mark><2</mark>	-dose series, :	See footnote	<mark>11></mark>					1	
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	otnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide ⁶ (PPSV23)													See foo	otnote 6	1	
Range of recommended ages for all children			f recommen n-up immuni			Range of r for certain	recommende high-risk g	ed ages roups		Range of rec groups that individual cl	may receive	vaccine, sub			No recom	mendatio

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Hepatitis B ¹ (HepB)	1 st dose	< 2 nd	dose>		<		3 rd dose		>							
Rotavirus ² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		1	 4 th	dose>			5 th dose				
Haemophilus influenzae type b⁵ (Hib)			1 st dose	2 nd dose	See footnote 5			4 th dose,> otnote 5					[I	1	
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th	dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	◀		3 rd dose					4 th dose			1	
Influenza ⁸ (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination ((IIV only) 1 or	2 doses		Annual vao IIV) 1	ccination (LA I or 2 doses	IV or	Annual vacc	ination (LAIV dose only	or IIV)
Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	≺ 1 st (dose>				2 nd dose			1	
Varicella ¹⁰ (VAR)							< 1 st (dose>				2 nd dose			1	
Hepatitis A ¹¹ (HepA)							<mark><2</mark>	-dose series, S	See footnote	<mark>11></mark>					1	
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	otnote 13	-						1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide ⁶ (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children			f recommen n-up immuni			Range of r for certain	recommende high-risk g	ed ages roups		Range of rec groups that individual cl	may receive	vaccine, sub			No recom	mendatio

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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)	1 st dose	< 2 nd	dose>				3 rd dose		>							
Rotavirus ² (RV) RV1 (2-dose series); RV5 (3-dose series)			1 st dose	2 nd dose	See footnote 2											
Diphtheria, tetanus, & acellular pertussis³ (DTaP: <7 yrs)			1 st dose	2 nd dose	3 rd dose		1	 4 th	dose>			5 th dose				
Haemophilus influenzae type b⁵ (Hib)			1 st dose	2 nd dose	See footnote 5		See for	th dose,> otnote 5								
Pneumococcal conjugate ⁶ (PCV13)			1 st dose	2 nd dose	3 rd dose		 4 th	dose>								
Inactivated poliovirus ⁷ (IPV: <18 yrs)			1 st dose	2 nd dose	<		3 rd dose		>			4 th dose				
Influenza ^s (IIV; LAIV) 2 doses for some: See footnote 8						Annual	vaccination (IIV only) 1 or	2 doses			ccination (LA I or 2 doses	IV or		ination (LAIV dose only	or IIV)
Measles, mumps, rubella ⁹ (MMR)					See foo	tnote 9	< 1 st (lose>				2 nd dose				
Varicella ¹⁰ (VAR)							< 1 st (lose>				2 nd dose				
Hepatitis A ¹¹ (HepA)							<mark><2</mark> -	dose series, S	ee footnote	11 >						
Meningococcal ¹³ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥9 mos; MenACWY-CRM ≥ 2 mos)						See foo	tnote 13							1 st dose		Booster
Tetanus, diphtheria, & acellular pertussis⁴ (Tdap: ≥7 yrs)														(Tdap)		
Human papillomavirus ¹² (HPV2: females only; HPV4: males and females)														(3-dose series)		
Meningococcal B ¹³														See	footnote 13	
Pneumococcal polysaccharide⁵ (PPSV23)													See foo	otnote 6		
Range of recommended ages for all children			f recommen n-up immuni			Range of r for certain	ecommende high-risk gi	ed ages oups		groups that	commended may receive inical decisic	vaccine, sub			No recom	mendatior

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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, 2016.

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.

			Children age 4 months through 6 years		
Manina	Minimum Age for		Minimum Interval Between Doses		
Vaccine	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, and acel- lular pertussis ³	6 weeks	4 weeks	4 weeks	6 months	6 months ³
Haemophilus influenzae type b ³	6 weeks	4 weeks if first dose was administered before the 1 st birthday. 8 weeks (as final dose) if first dose was administered at age 12 through 14 months. No further doses needed if first dose was administered at age 15 months or older.	 4 weeks⁵ if current age is younger than 12 months and first dose was administer younger than age 7 months, and at least 1 previous dose was PRP-T (Ac Pentacel) or unknown. 8 weeks and age 12 through 59 months (as final dose for healthy children)⁵ if current age is younger than 12 months and first dose was administered at age 7 through 11 months; OR if current age is 12 through 59 months and first dose was administered before the 1st birthday, and secon administered at younger than 15 months; OR if both doses were PRP-OMP (PedvaxHIB; Comvax) and were administered before the 1st birthday. No further doses needed if previous dose was administered at age 15 months or older. 	CtHib, 8 weeks (as final dose) This dose only necessary for children age 12 through 59 months who received 3 doses before the 1 st birthday.	
Pneumococcal ⁶	6 weeks	4 weeks if first dose administered before the 1 st birthday. 8 weeks (as final dose for healthy children) if first dose was administered at the 1 st birthday or after. 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 and previous dose given at <7mo old. 8 weeks (as final dose for healthy children) if previous dose given between 7-11 months (wait until at least 12 mon <u>OR</u> if current age is 12 months or older and at least 1 dose was given befor 12 months. No further doses needed for healthy children if previous dose administ 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 ⁷	4 weeks ⁷	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, rubella ⁹	12 months	4 weeks	Г		
Varicella ¹⁰	12 months	3 months			
Hepatitis A ¹¹	12 months	6 months		4 weeks	
Tetanus, diphtheria; tetanus, diphtheria, and acellular pertussis ^f	7 years⁴	4 weeks	Children and adolescents age 7 through 18 years 4 weeks if first dose of DTaP/DT was administered before the 1 st birthday. 6 months (as final dose) if first dose of DTaP/DT or Tdap/Td was administ. 1 at or after the 1	if first dose of DTaP/DT was administered before the 1 st birthday.	
Human papillomavirus ¹²	9 years		Routine dosing intervals	6 months (as final dose)	
Hepatitis A ¹¹	Not applicable (N/A)	6 months		if first dose of DTaP/DT or Tdap/Td war administered at or after the 1 st birthda	
Hepatitis B ¹	N/A	4 weeks	8 weeks and at least 16 weeks after first dose.		·
Inactivated poliovirus ⁷	N/A	4 weeks	4 weeks ⁷		
Meningococcal ¹³	N/A	8 weeks ¹³			
Measles, mumps, rubella ⁹	N/A	4 weeks			
Varicella ¹⁰	N/A	3 months if younger than age 13 years. 4 weeks if age 13 years or older.			

Footnotes — Recommended immunization schedule for persons aged 0 through 18 years—United States, 2016 For further guidance on the use of the vaccines mentioned below, see: http://www.cdc.gov/vaccines/hcp/acip-recs/index.html. For vaccine recommendations for persons 19 years of age and older, see the Adult Immunization Schedule. **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 statement available online at http://www.cdc.gov/vaccines/hcp/acip-recs/index.html. • For purposes of calculating intervals between doses, 4 weeks = 28 days. Intervals of 4 months or greater are determined by calendar months. • Vaccine doses administered 4 days or less before the minimum interval are considered valid. Doses of any vaccine administered ≥5 days earlier than the minimum interval or minimum age should not be counted as valid doses and should be repeated as age-appropriate. The repeat dose should be spaced after the invalid dose by the recommended minimum interval. For further details, see MMWR, General Recommendations on Immunization and Reports / Vol. 60 / No. 2; Table 1. Recommended and minimum ages and intervals between vaccine doses available online at http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf. Information on travel vaccine requirements and recommendations is available at http://wwwnc.cdc.gov/travel/destinations/list. • 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 http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf; 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 Information ises. 29th ed. Elk Grove Village, IL: American Academy of Pediatrics. Hepatitis B (HepB) vaccine. (Minimum age: birth) Diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine (cont'd) 1. 3. Routine vaccination: Catch-up vaccination: At bi age 4 years or older. Ac • Fo he. (Minimum 0. For vaccination of persons with primary and secondary immunodeficiencies, see Table 13, "Vaccination of fo persons with primary and secondary immunodeficiencies," in General Recommendations on Immunization heria toxoid-(ACIP), available at http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf.; and American Academy of Pediatrics. w 12 al: 7 (preferred during 27 "Immunization in Special Clinical Circumstances," in Pickering LK, Baker CJ, Kimberlin DW, Brady MT, Jackson MA, Long SS eds. Red Book: 20152 report of the Committee on Infectious Diseases. 3029th ed. Elk Grove Dose Id receive Tdap • Th Village, IL: American Academy of Pediatrics. eeded, use Td us ch-up series, an In d. Td should be SC Ad e a dose followed by the time dose acreased weeks after the second dose first acrease to weeks after the most tetanus and diphtheria toxoid (1d) booster doses every 10 years thereafter. (third or fourth) dose in the HepB vaccine series should be administered no earlier than age 24 weeks. Inadvertent doses of DTaP vaccine: · Administration of a total of 4 doses of HepB vaccine is permitted when a combination vaccine containing - If administered inadvertently to a child aged 7 through 10 years may count as part of the catch-up HepB is administered after the birth dose. series. This dose may count as the adolescent Tdap dose, or the child can later receive a Tdap booster Catch-up vaccination: dose at age 11 through 12 years. Unvaccinated persons should complete a 3-dose series. If administered inadvertently to an adolescent aged 11 through 18 years, the dose should be counted A 2-dose series (doses separated by at least 4 months) of adult formulation Recombivax HB is licensed for as the adolescent Tdap booster. use in children aged 11 through 15 years. For other catch-up guidance, see Figure 2. For other catch-up guidance, see Figure 2. 5. Haemophilus influenzae type b (Hib) conjugate vaccine. (Minimum age: 6 weeks Rotavirus (RV) vaccines. (Minimum age: 6 weeks for both RV1 [Rotarix] and 2. for PRP-T [ACTHIB, DTaP-IPV/Hib (Pentacel) and Hib-MenCY (MenHibrix)], PRP-OMP RV5 [RotaTeg]) [PedvaxHIB or COMVAX], 12 months for PRP-T [Hiberix]) **Routine vaccination: Routine vaccination:** Administer a series of RV vaccine to all infants as follows: Administer a 2- or 3-dose Hib vaccine primary series and a booster dose (dose 3 or 4 depending on 1. If Rotarix is used, administer a 2-dose series at 2 and 4 months of age. vaccine used in primary series) at age 12 through 15 months to complete a full Hib vaccine series. 2. If RotaTeg is used, administer a 3-dose series at ages 2, 4, and 6 months. The primary series with ActHIB, MenHibrix, or Pentacel consists of 3 doses and should be administered at 3. If any dose in the series was RotaTeg or vaccine product is unknown for any dose in the series, a total of 2, 4, and 6 months of age. The primary series with PedvaxHib or COMVAX consists of 2 doses and should 3 doses of RV vaccine should be administered. be administered at 2 and 4 months of age; a dose at age 6 months is not indicated. Catch-up vaccination: • One booster dose (dose 3 or 4 depending on vaccine used in primary series) of any Hib vaccine should • The maximum age for the first dose in the series is 14 weeks, 6 days; vaccination should not be initiated be administered at age 12 through 15 months. An exception is Hiberix vaccine. Hiberix should only be for infants aged 15 weeks, 0 days or older. used for the booster (final) dose in children aged 12 months through 4 years who have received at least 1 The maximum age for the final dose in the series is 8 months, 0 days. prior dose of Hib-containing vaccine. For other catch-up guidance, see Figure 2. For recommendations on the use of MenHibrix in patients at increased risk for meningococcal disease, 3. Diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine. (Minimum please refer to the meningococcal vaccine footnotes and also to MMWR February 28, 2014 / 63(RR01):1age: 6 weeks. Exception: DTaP-IPV [Kinrix]: 4 years) 13, available at http://www.cdc.gov/mmwr/PDF/rr/rr6301.pdf. Routine vaccination: • Administer a 5-dose series of DTaP vaccine at ages 2, 4, 6, 15 through 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. However, the fourth dose of DTaP need not be repeated if it was administered at least 4 months after the third dose of DTaP.

Footnotes — Recommended immunization schedule for persons aged 0 through 18 years—United States, 2016

For further guidance on the use of the vaccines mentioned below, see: http://www.cdc.gov/vaccines/hcp/acip-recs/index.html. For vaccine recommendations for persons 19 years of age and older, see the Adult Immunization Schedule.

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 statement available online at http://www.cdc.gov/vaccines/hcp/acip-recs/index.html.
- For purposes of calculating intervals between doses, 4 weeks = 28 days. Intervals of 4 months or greater are determined by calendar months.
- Vaccine doses administered 4 days or less before the minimum interval are considered valid. Doses of any vaccine administered ≥5 days earlier than the minimum interval or minimum age should not be counted as valid doses and should be repeated as age-appropriate. The repeat dose should be spaced after the invalid dose by the recommended minimum interval. For further details, see MMWR. General Recommendations on Immunization and Reports / Vol. 60 / No. 2; Table 1. Recommended and minimum ages and intervals between vaccine doses available online at http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf.
- Information on travel vaccine requirements and recommendations is available at http://wwwnc.cdc.gov/travel/destinations/list.
- 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 http://www.cdc.gov/mmwr/pdf/rr/rr6002.pdf; 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.

Hepatitis B (HepB) vaccine. (Minimum age: birth) 1. 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).
- If mother's HBsAg status is unknown, within 12 hours of birth administer HepB vaccine regardless of birth weight. For infants weighing less than 2,000 grams, administer HBIG in addition to HepB vaccine within 12 hours of birth. Determine mother's HBsAg status as soon as possible and, if mother is HBsAg-positive, also administer HBIG for infants weighing 2,000 grams or more as soon as possible, but no later than age 7 days.

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.
- Administer the second dose 1 to 2 months after the first dose (minimum interval of 4 weeks), administer the third dose at least 8 weeks after the second dose AND at least 16 weeks after the first dose. The final (third or fourth) dose in the HepB vaccine series should be administered no earlier than age 24 weeks.
- · Administration of a total of 4 doses of HepB vaccine is permitted 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 guidance, see Figure 2.
- Rotavirus (RV) vaccines. (Minimum age: 6 weeks for both RV1 [Rotarix] and 2. RV5 [RotaTeg])

Routine vaccination:

- Administer a series of RV vaccine to all infants as follows:
 - 1. If Rotarix is used, administer a 2-dose series at 2 and 4 months of age.
- 2. If RotaTeg is used, administer a 3-dose series at ages 2, 4, and 6 months.
- 3. If any dose in the series was RotaTeg or vaccine product is unknown for any dose in t 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; vaccional series is 14 weeks. for infants aged 15 weeks, 0 days or older.
- The maximum age for the final dose in the series is 8 months, 0 data
- For other catch-up guidance, see Figure 2.
- 3. Diphtheria and tetanus toxoids and acellular age: 6 weeks. Exception: DTaP-IPV [Kinrix]: 4 years) Routine vaccination:
 - Administer a 5-dose series of DTaP vaccine at ages 2, 4, 6, 15 through 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. However, the fourth dose of DTaP need not be repeated if it was administered at least 4 months after the third dose of DTaP.

- 3. Diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine (cont'd) Catch-up vaccination:
 - The fifth dose of DTaP vaccine is not necessary if the fourth dose was administered at age 4 years or older. • For other catch-up guidance, see Figure 2.
- 4. Tetanus and diphtheria toxoids and acellular pertussis (Tdap) vaccine. (Minimum age: 10 years for both Boostrix and Adacel) Routine vaccination:
 - Administer 1 dose of Tdap vaccine to all adolescents aged 11 through 12 years.
 - Tdap may be administered regardless of the interval since the last tetanus and diphtheria toxoidcontaining vaccine.

Diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccine. (Minimum age: 6 weeks. Exception: DTaP-IPV [Kinrix, Quadracel]: 4 years)

Routine vaccination:

- Administer a 5-dose series of DTaP vaccine at ages 2, 4, 6, 15 through 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. However, the fourth dose of DTaP need not be repeated if it was administered at least 4 months after the third dose of DTaP.
- Inadvertent doses of DTaP vaccine:
 - If the fourth dose of DTaP was administered at least 4 months, but less than 6 months, after the third dose of DTaP, it need not be repeated. The 4 day grace period may not be used for a fourth dose given less than 6 months after the third dose of DTaP.

וס, available at http://www.cuc.gov/mmwi/PDF/mmoour.pui.

For further guidance on the use of the vaccines mentioned below, see: http://www.cdc.gov/vaccines/hcp/acip-recs/index.html.

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 and at least 6 months after the previous dose.
- 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.
- If only OPV were administered, and all doses were given prior to 4 years of age, one dose of IPV should be given at 4 years or older, at least 4 weeks after the last OPV dose.
- For other catch-up guidance, see Figure 2.

* Patients who have not received a primary series and booster dose or at least 1 dose of Hib vaccine after 14 months of age are considered unimmunized.

- 6. Pneumococcal vaccines. (Minimum age: 6 weeks for PCV13, 2 years for PPSV23) Routine vaccination with PCV13:
 - Administer a 4-dose series of PCV13 vaccine at ages 2, 4, and 6 months and 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 with PCV13:

- 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 guidance, see Figure 2.

Vaccination of persons with high-risk conditions with PCV13 and PPSV23:

- All recommended PCV13 doses should be administered prior to PPSV23 vaccination if possible.
- For children 2 through 5 years of age with any of the following conditions: 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 leak; cochlear implant; sickle cell disease and other hemoglobinopathies; anatomic or functional asplenia; HIV infection; chronic renal failure; nephrotic syndrome; diseases associated with treatment with immunosuppressive drugs or radiation therapy, including malignant neoplasms, leukemias, lymphomas, and Hodgkin's disease; solid organ transplantation; or congenital immunodeficiency:
 - Administer 1 dose of PCV13 if any incomplete schedule of 3 doses of PCV (PCV7 and/or PCV13) were received previously.
 - Administer 2 doses of PCV13 at least 8 weeks apart if unvaccinated or any incomplete schedule of fewer than 3 doses of PCV (PCV7 and/or PCV13) were received previously.
 - Administer 1 supplemental dose of PCV13 if 4 doses of PCV7 or other age-appropriate complete PCV7 series was received previously.
 - 4. The minimum interval between doses of PCV (PCV7 or PCV13) is 8 weeks.
 - For children with no history of PPSV23 vaccination, administer PPSV23 at least 8 weeks after the most recent dose of PCV13.

Pneumococcal vaccines (cont'd)

- For children aged 6 through 18 years who have cerebrospinal fluid leak; cochlear implant; sickle cell
 disease and other hemoglobinopathies; anatomic or functional asplenia; congenital or acquired
 immunodeficiencies; HIV infection; chronic renal failure; nephrotic syndrome; diseases associated
 with treatment with immunosuppressive drugs or radiation therapy, including malignant neoplasms,
 leukemias, lymphomas, and Hodgkin's disease; generalized malignancy; solid organ transplantation; or
 multiple myeloma:
 - 1. If neither PCV13 nor PPSV23 has been received previously, administer 1 dose of PCV13 now and 1 dose of PPSV23 at least 8 weeks later.
 - 2. If PCV13 has been received previously but PPSV23 has not, administer 1 dose of PPSV23 at least 8 weeks after the most recent dose of PCV13.
 - 3. If PPSV23 has been received but PCV13 has not, administer 1 dose of PCV13 at least 8 weeks after the most recent dose of PPSV23.
- For children aged 6 through 18 years 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, alcoholism, or chronic liver disease, who have not received PPSV23, administer 1 dose of PPSV23. If PCV13 has been received previously, then PPSV23 should be administered at least 8 weeks after any prior PCV13 dose.
- A single revaccination with PPSV23 should be administered 5 years after the first dose to children with sickle cell disease or other hemoglobinopathies; anatomic or functional asplenia; congenital or acquired immunodeficiencies; HIV infection; chronic renal failure; nephrotic syndrome; diseases associated with treatment with immunosuppressive drugs or radiation therapy, including malignant neoplasms, leukemias, lymphomas, and Hodgkin's disease; generalized malignancy; solid organ transplantation; or multiple myeloma.

activated poliovirus vaccine (IPV). (Minimum age: 6 weeks) tine vaccination:

ninister a 4-dose series of IPV at ages 2, 4, 6 through 18 months, and 4 through 6 years. The final dose in the should be administered on or after the fourth birthday and at least 6 months after the previous dose. **vaccination:**

In the first 6 months of life, minimum age and minimum intervals are only recommended if the person is at risk
of 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 and at least 6 months after the previous dose.

- 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 guidance, see Figure 2.
- Influenza vaccines. (Minimum age: 6 months for inactivated influenza vaccine [IIV], 2 years for live, attenuated influenza vaccine [LAIV]) Routine vaccination:
 - 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 be used. However, LAIV should NOT be administered to some persons, including 1) persons who have experienced severe allergic reactions to LAIV, any of its components, or to a previous dose of any other influenza vaccine; 2) children 2 through 17 years receiving aspirin or aspirin-containing products; 3) persons who are allergic to eggs; 4) pregnant women; 5) immunosuppressed persons; 6) children 2 through 4 years of age with asthma or who had wheezing in the past 12 months; or 7) persons who have taken influenza antiviral medications in the previous 48 hours. For all other contraindications and precautions to use of LAIV, see *MMWR* August 15, 2014 / 63(32);691-697 [40 pages] available at

http://www.cdc.gov/mmwr/pdf/wk/mm6332.pdf.

For children aged 6 months through 8 years:

- For the 2014-15 season, administer 2 doses (separated by at least 4 weeks) to children who are receiving
 influenza vaccine for the first time. Some children in this age group who have been vaccinated previously
 will also need 2 doses. For additional guidance, follow dosing guidelines in the 2014-15 ACIP influenza
 vaccine recommendations, MMWR August 15, 2014 / 63(32);691-697 [40 pages] available at http://www.
 cdc.gov/mmwr/pdf/wk/mm6332.pdf.
- For the 2015–16 season, follow dosing guidelines in the 2015 ACIP influenza vaccine recommendations. For persons aged 9 years and older:
- Administer 1 dose.

8. Influenza vaccines. (Minimum age: 6 months for inactivated influenza vaccine [IIV], 2 years for live, attenuated influenza vaccine [LAIV])

Routine vaccination:

 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 be used. However, LAIV should NOT be administered to some persons, including 1) persons who have experienced severe allergic reactions to LAIV, any of its components, or to a previous dose of any other influenza vaccine; 2) children 2 through 17 years receiving aspirin or aspirin-containing products; 3) persons who are allergic to eggs; 4) pregnant women; 5) immunosuppressed persons; 6) children 2 through 4 years of age with asthma or who had wheezing in the past 12 months; or 7) persons who have taken influenza antiviral medications in the previous 48 hours. For all other contraindications and precautions to use of LAIV, see MMWR August 15, 2014 / 63(32);691-697 [40 pages] available at http://www.cdc.gov/mmwr/pdf/wk/mm6332.pdf August 7, 2015 / 64(30):818-25 available at http://www.cdc.gov/mmwr/pdf/wk/mm6430.pdf.

For children aged 6 months through 8 years:

- For the 2014-15 season, administer 2 doses (separated by at least 4 weeks) to children who are receiving influenza vaccine for the first time. Some children in this age group who have been vaccinated previously will also need 2 doses. For additional guidance, follow dosing guidelines in the 2015-164-<u>15</u> ACIP influenza vaccine recommendations, MMWR August 15, 2014 / 63(32);691-697 [40 pages] available at http://www.cdc.gov/mmwr/pdf/wk/mm6332.pdf August 7, 2015 / 64(30):818-25, available at http://www.cdc.gov/mmwr/pdf/wk/mm6430.pdf.
- For the 2016-175-16 season, follow dosing guidelines in the 20165 ACIP influenza vaccine recommendations.

For persons aged 9 years and older:

• Administer 1 dose.

Pneumococcal vaccines (cont'd)

- For children aged 6 through 18 years who have cerebrospinal fluid leak; cochlear implant; sickle cell
 disease and other hemoglobinopathies; anatomic or functional asplenia; congenital or acquired
 immunodeficiencies; HIV infection; chronic renal failure; nephrotic syndrome; diseases associated
 with treatment with immunosuppressive drugs or radiation therapy, including malignant neoplasms,
 leukemias, lymphomas, and Hodgkin's disease; generalized malignancy; solid organ transplantation; or
 multiple myeloma:
 - 1. If neither PCV13 nor PPSV23 has been received previously, administer 1 dose of PCV13 now and 1 dose of PPSV23 at least 8 weeks later.
 - 2. If PCV13 has been received previously but PPSV23 has not, administer 1 dose of PPSV23 at least 8 weeks after the most recent dose of PCV13.
 - 3. If PPSV23 has been received but PCV13 has not, administer 1 dose of PCV13 at least 8 weeks after the most recent dose of PPSV23.
- For children aged 6 through 18 years 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, alcoholism, or chronic liver disease, who have not received PPSV23, administer 1 dose of PPSV23. If PCV13 has been received previously, then PPSV23 should be administered at least 8 weeks after any prior PCV13 dose.
- A single revaccination with PPSV23 should be administered 5 years after the first dose to children with
 sickle cell disease or other hemoglobinopathies; anatomic or functional asplenia; congenital or acquired
 immunodeficiencies; HIV infection; chronic renal failure; nephrotic syndrome; diseases associated
 with treatment with immunosuppressive drugs or radiation therapy, including malignant neoplasms,
 leukemias, lymphomas, and Hodgkin's disease; generalized malignancy; solid organ transplantation; or
 multiple myeloma.

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

- Administer a 4-dose series of IPV at ages 2, 4, 6 through 18 months, and 4 through 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 of 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 and at least 6 months after the previous dose.
- 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 guidance, see Figure 2.

vaccines. (Minimum age: 6 months for inactivated influenza vaccine [IIV], or live, attenuated influenza vaccine [LAIV]) accination:

ister influenza vaccine annually to all children beginning at age 6 months. For most healthy, regnant persons aged 2 through 49 years, either LAIV or IIV may be used. However, LAIV should NOT dministered to some persons, including 1) persons who have experienced severe allergic reactions LAIV, any of its components, or to a previous dose of any other influenza vaccine; 2) children 2 through years receiving aspirin or aspirin-containing products; 3) persons who are allergic to eggs; 4) pregnant romen; 5) immunosuppressed persons; 6) children 2 through 4 years of age with asthma or who had wheezing in the past 12 months; or 7) persons who have taken influenza antiviral medications in the previous 48 hours. For all other contraindications and precautions to use of LAIV, see *MMWR* August 15, 2014 / 63(32);691-697 [40 pages] available at

http://www.cdc.gov/mmwr/pdf/wk/mm6332.pdf.

For children aged 6 months through 8 years:

- For the 2014-15 season, administer 2 doses (separated by at least 4 weeks) to children who are receiving influenza vaccine for the first time. Some children in this age group who have been vaccinated previously will also need 2 doses. For additional guidance, follow dosing guidelines in the 2014-15 ACIP influenza vaccine recommendations, *MMWR* August 15, 2014 / 63(32);691-697 [40 pages] available at http://www. cdc.gov/mmwr/pdf/wk/mm6332.pdf.
- For the 2015–16 season, follow dosing guidelines in the 2015 ACIP influenza vaccine recommendations. For persons aged 9 years and older:
- Administer 1 dose.

For further guidance on the use of the vaccines mentioned below, see: http://v

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

Routine vaccination:

- Administer a 2-dose series of MMR vaccine at ages 12 through 15 months and 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.
- 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 a 2-dose series of VAR vaccine at ages 12 through 15 months and 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:

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/rr5604.pdf) have 2 doses of varicella vaccine. For children aged 7 through 12 years, the recommended minimum interval between doses is 3 months (if the second dose 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 (HepA) vaccine. (Minimum age: 12 months)

Routine vaccination:

- Initiate the 2-dose HepA vaccine series at 12 through 23 months; separate the 2 doses by 6 to 18
- Children who have received 1 dose of HepA vaccine before age 24 months should receive a see 6 to 18 months after the first dose.
- For any person aged 2 years and older who has not already received the HepA vaccine seri HepA vaccine separated by 6 to 18 months may be administered if immunity against he infection is desired.

Catch-up vaccination:

• The minimum interval between the two doses is 6 months.

Special populations:

 Administer 2 doses of HepA vaccine at least 6 months apart to previously uny who live in areas where vaccination programs target older children, or who are a or infection. This includes persons traveling to or working in countries that have high e endemicity of infection; men having sex with men; users of injection and non-injection ; persons who work with HAV-infected primates or with HAV in a research laboratory; per ciotting-factor disorders; persons with chronic liver disease; and persons who anticipate clos al contact (e.g., household or regular babysitting) with an international adoptee during the days after arrival in the United States from a country with high or intermediate endemicity. The st dose should be admir soon as the adoption is planned, ideally 2 or more weeks before the arrival of the adoptee. st dose should be administered as

12. Human papillomavirus (HPV) vaccines. (Minimum age: 9 years for HPV2 [Cervarix] and HPV4 [Gardasil])

Routine vaccination:

- Administer a 3-dose series of HPV vaccine on a schedule of 0, 1-2, and 6 months to all adolescents aged 11 through 12 years. Either HPV4 or HPV2 may be used for females, and only HPV4 may be used for males.
- The vaccine series may be started at age 9 years.
- Administer the second dose 1 to 2 months after the first dose (minimum interval of 4 weeks); administer the third dose 24 weeks after the first dose and 16 weeks after the second dose (minimum interval of 12 weeks).
 Catch-up vaccination:
- Administer the vaccine series to females (either HPV2 or HPV4) and males (HPV4) at age 13 through 18 years if not previously vaccinated.
- · Úse recommended routine dosing intervals (see Routine vaccination above) for vaccine series catch-up.

12. Human papillomavirus (HPV) vaccines. (Minimum age: 9 years for 2vHPV² [Cervarix], 4vHPV4 and 9vHPV [Gardasil and Gardasil 9])

Routine vaccination:

- Administer a 3-dose series of HPV vaccine on a schedule of 0, 1-2, and 6 months to all adolescents aged 11 through 12 years. Either 9vHPV, 4vHPV4 or 2vHPV2 may be used for females;, and only 9vHPV or 4vHPV4 may be used for males.
- The vaccine series may be started at age 9 years.
- Administer the second dose 1 to 2 months after the first dose (minimum interval of 4 weeks); administer the third dose 16 weeks after the second dose (minimum interval of 12 weeks) and 24 weeks after the first dose. administer the third dose 24 weeks after the first dose and 16 weeks after the second dose (minimum interval of 12 weeks).
- Administer HPV vaccination beginning at age 9 years to children and youth with any history of sexual abuse or assault who have not initiated or completed the 3-dose series.

Catch-up vaccination:

- Administer the vaccine series to females (either 2vHPV2 or 4vHPV4 or 9vHPV) and males (4vHPV4 or 9vHPV) at age 13 through 18 years if not previously vaccinated.
- Use recommended routine dosing intervals (see Routine vaccination above) for vaccine series catch-up.

at least 8 weeks apart to ensure protection against serogroups C and Y meningococcal disease.

3. Menactra

- o Children 9 through 23 months: Administer 2 primary doses at least 12 weeks apart.
- o Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
- For children who travel to or reside in countries in which meningococcal disease is hyperendemic or epidemic, including countries in the African meningitis belt or the Hajj, administer an age-appropriate formulation and series of Menactra or Menveo for protection against serogroups A and W meningococcal disease. Prior receipt of MenHibrix is not sufficient for children traveling to the meningitis belt or the Hajj because it does not contain serogroups A or W.
- For children at risk during a community outbreak attributable to a vaccine serogroup, administer or complete an age- and formulation-appropriate series of MenHibrix, Menactra, or Menveo.
- For booster doses among persons with high-risk conditions, refer to MMWR 2013 / 62(RR02);1-22, available at http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6202a1.htm.

13. Meningococcal conjugate vaccines. (Minimum age: 6 weeks for Hib-MenCY [MenHibrix], 9 months for MenACWY-D [Menactra], 2 months for MenACWY-CRM [Menveo], 10 years for serogroup meningococcal B [MenB] vaccines [Bexsero (MenB-4C) and Trumenba (MenB-FHbp)])

Routine vaccination:

- Administer a single dose of Menactra or Menveo vaccine at age 11 through 12 years, with a booster dose at age 16 years.
- Young adults aged 16–23 years (preferred age range is 16– 18 years): May be vaccinated with either a 2-dose series of MenB-4C or a 3-dose series of MenB-FHbp vaccine to provide short-term protection against most strains of serogroup B meningococcal disease.
- Adolescents aged 11 through 18 years with human immunodeficiency virus (HIV) infection should receive a 2dose primary series of Menactra or Menveo with at least 8 weeks between doses.
- For children aged 2 months through 18 years with high-risk conditions, see below.

Catch-up vaccination:

- Administer Menactra or Menveo 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 weeks between doses.
- If the first dose is administered at age 16 years or older, a booster dose is not needed.
- For other catch-up guidance, see Figure 2. Clinical Discretion
- Young adults aged 16–23 years (preferred age range is 16– 18 years) may be vaccinated with either a 2-dose series of Bexsero or a 3-dose series of Trumenba vaccine to provide short-term protection against most strains of serogroup B meningococcal disease. The two MenB vaccines are not interchangeable; the same vaccine product must be used for all doses.

//www.cdc.gov/vaccines/hcp/acip-recs/index.html.

13. Mening ococcal conjugate vaccines. (Minimum age: 6 weeks for Hib-MenCY [Men' Ibrix], 9 months for MenACWY-D [Menactra], 2 months for MenACWY-CRM [M eo])

e vaccination:

ninister a single dose of Menactra or Menveo vaccine at age 11 through 12 years, with a booster dose age 16 years.

lolescents aged 11 through 18 years with human immunodeficiency virus (HIV) infection should ceive a 2-dose primary series of Menactra or Menveo with at least 8 weeks between doses. or children aged 2 months through 18 years with high-risk conditions, see below. tch-up vaccination:

Administer Menactra or Menveo 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 weeks between doses.

- If the first dose is administered at age 16 years or older, a booster dose is not needed.
- For other catch-up guidance, see Figure 2.
- Vaccination of persons with high-risk conditions and other persons at increased risk of disease:
- Children with anatomic or functional asplenia (including sickle cell disease):
- 1. Menveo
 - o Children who initiate vaccination at 8 weeks through 6 months: Administer doses at 2,4,6, and 12 months of age.
 - o Unvaccinated children 7 through 23 months: Administer 2 doses, with the second dose at least 12 weeks after the first dose AND after the first birthday.
 - o Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
- 2. MenHibrix
 - o Children 6 weeks through 18 months: Administer doses at 2, 4, 6, and 12 through 15 months of age.
 - If the first dose of MenHibrix is given at or after 12 months of age, a total of 2 doses should be given at least 8 weeks apart to ensure protection against serogroups C and Y meningococcal disease.
- 3. Menactra

Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart. If Menactra is administered to a child with asplenia (including sickle cell disease), do not administer Menactra until 2 years of age and at least 4 weeks after the completion of all PCV13 doses.

- Children with persistent complement component deficiency:
 - 1. Menveo
 - o Children who initiate vaccination at 8 weeks through 6 months: Administer doses at 2, 4, 6, and 12 months of age.
 - o Unvaccinated children 7 through 23 months: Administer 2 doses, with the second dose at least 12 weeks after the first dose AND after the first birthday.
 - o Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
 - 2. MenHibrix
 - o Children 6 weeks through 18 months: Administer doses at 2, 4, 6, and 12 through 15 months of age.
 - If the first dose of MenHibrix is given at or after 12 months of age, a total of 2 doses should be given at least 8 weeks apart to ensure protection against serogroups C and Y meningococcal disease.
 - 3. Menactra
 - o Children 9 through 23 months: Administer 2 primary doses at least 12 weeks apart.
 - Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
- For children who travel to or reside in countries in which meningococcal disease is hyperendemic or
 epidemic, including countries in the African meningitis belt or the Hajj, administer an age-appropriate
 formulation and series of Menactra or Menveo for protection against serogroups A and W meningococcal
 disease. Prior receipt of MenHibrix is not sufficient for children traveling to the meningitis belt or the Hajj
 because it does not contain serogroups A or W.
- For children at risk during a community outbreak attributable to a vaccine serogroup, administer or complete an age- and formulation-appropriate series of MenHibrix, Menactra, or Menveo.
- For booster doses among persons with high-risk conditions, refer to MMWR 2013 / 62(RR02);1-22, available at http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6202a1.htm.

Meningococcal B vaccines:

- 1. Bexsero or Trumenba
 - Persons 10 years or older who have not received a complete series: Administer either a 2 -dose series of Bexsero, at least 1 month apart or a 3-dose series of Trumenba, with the second dose at least 2 months after the first and the third dose at least 6 months after the first. The two MenB vaccines are not interchangeable; the same vaccine product must be used for all doses.
- Children with persistent complement component deficiency (includes persons with inherited or chronic deficiencies in C3, C5-9, properidin, factor D, factor H, or taking eculizumab (Soliris®):

Meningococcal conjugate ACWY vaccines:

- 1. Menveo
 - Children who initiate vaccination at 8 weeks through 6 months: Administer doses at 2, 4, 6, and 12 months of age.
 - Unvaccinated children 7 through 23 months: Administer 2 doses, with the second dose at least 12 weeks after the first dose AND after the first birthday.
 - Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.

2. MenHibrix

- Children 6 weeks through 18 months: Administer doses at 2, 4, 6, and 12 through 15 months of age.
- If the first dose of MenHibrix is given at or after 12 months of age, a total of 2 doses should be given at least 8 weeks apart to ensure protection against serogroups C and Y meningococcal disease..

3. Menactra

- Children 9 through 23 months: Administer 2 primary doses at least 12 weeks apart.
- Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.

://www.cdc.gov/vaccines/hcp/acip-recs/index.html.

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

Routine vaccination:

- Administer a single dose of Menactra or Menveo vaccine at age 11 through 12 years, with a booster dose at age 16 years.
- Adolescents aged 11 through 18 years with human immunodeficiency virus (HIV) infection should receive a 2-dose primary series of Menactra or Menveo with at least 8 weeks between doses.
- For children aged 2 months through 18 years with high-risk conditions, see below.

Catch-up vaccination:

- Administer Menactra or Menveo 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 weeks between doses.
- If the first dose is administered at age 16 years or older, a booster dose is not needed.
- For other catch-up guidance, see Figure 2.

Vaccination of persons with high-risk conditions and other persons at increased risk of disease:

- Children with anatomic or functional asplenia (including sickle cell disease):
- 1. Menveo
 - o Children who initiate vaccination at 8 weeks through 6 months: Administer doses at 2,4,6, and 12 months of age.
 - o Unvaccinated children 7 through 23 months: Administer 2 doses, with the second dose at least 12 weeks after the first dose AND after the first birthday.
 - o Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
- 2. MenHibrix
 - o Children 6 weeks through 18 months: Administer doses at 2, 4, 6, and 12 through 15 months of age.
 - If the first dose of MenHibrix is given at or after 12 months of age, a total of 2 doses should be given at least 8 weeks apart to ensure protection against serogroups C and Y meningococcal disease.
- 3. Menactra

Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart. If Menactra is administered to a child with asplenia (including sickle cell disease), do not administer Menactra until 2 years of age and at least 4 weeks after the completion of all PCV13 doses.

- children with persistent complement component deficiency:
- 1. Menveo
- Children who initiate vaccination at 8 weeks through 6 months: Administer doses at 2, 4, 6, and 12 months
 of age.
- o Unvaccinated children 7 through 23 months: Administer 2 doses, with the second dose at least 12 weeks after the first dose AND after the first birthday.
- o Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
- 2. MenHibrix
 - o Children 6 weeks through 18 months: Administer doses at 2, 4, 6, and 12 through 15 months of age.
 - If the first dose of MenHibrix is given at or after 12 months of age, a total of 2 doses should be given at least 8 weeks apart to ensure protection against serogroups C and Y meningococcal disease.
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 - o Children 9 through 23 months: Administer 2 primary doses at least 12 weeks apart.
 - o Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
- For children who travel to or reside in countries in which meningococcal disease is hyperendemic or epidemic, including countries in the African meningitis belt or the Hajj, administer an age-appropriate formulation and series of Menactra or Menveo for protection against serogroups A and W meningococcal disease. Prior receipt of MenHibrix is not sufficient for children traveling to the meningitis belt or the Hajj because it does not contain serogroups A or W.
- For children at risk during a community outbreak attributable to a vaccine serogroup, administer or complete an age- and formulation-appropriate series of MenHibrix, Menactra, or Menveo.
- For booster doses among persons with high-risk conditions, refer to MMWR 2013 / 62(RR02);1-22, available at http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6202a1.htm.

Meningococcal B vaccines:

1. Bexsero or Trumenba

- Persons 10 years or older who have not received a complete series: Administer either a 2 -dose series of Bexsero, at least 1 month apart or a 3-dose series of Trumenba, with the second dose at least 2 months after the first and the third dose at least 6 months after the first. The two MenB vaccines are not interchangeable; the same vaccine product must be used for all doses.
- For children who travel to or reside in countries in which meningococcal disease is hyperendemic or epidemic, including countries in the African meningitis belt or the Hajj, administer an age-appropriate formulation and series of Menactra or Menveo for protection against serogroups A and W meningococcal disease. Prior receipt of MenHibrix is not sufficient for children traveling to the meningitis belt or the Hajj because it does not contain serogroups A or W.
- For children at risk during a community outbreak attributable to a vaccine serogroup, administer or complete an age- and formulation-appropriate series of MenHibrix, Menactra, or Menveo, Bexsero or Trumenba.
- For booster doses among persons with high-risk conditions, refer to MMWR 2013 / 62(RR02);1-22, available at http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6202a1.htm.

For other catch-up recommendations for these persons, and complete information on use of meningococcal vaccines, including guidance related to vaccination of persons at increased risk of infection, see MMWR March 22, 2013 / 62(RR02);1-22, and [Men B vaccines' policy notes – to be added] available at http://www.cdc.gov/mmwr/pdf/rr/rr6202.pdf and http://www.cdc.gov/xxxxxxxxx.

Catch-up vaccination:

- Administer the vaccine series to females (either HPV2 or HPV4) and males (HPV4) at age 13 through 18 years if not previously vaccinated.
- Use recommended routine dosing intervals (see Routine vaccination above) for vaccine series catch-up.

://www.cdc.gov/vaccines/hcp/acip-recs/index.html.

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

Routine vaccination:

- Administer a single dose of Menactra or Menveo vaccine at age 11 through 12 years, with a booster dose at age 16 years.
- Adolescents aged 11 through 18 years with human immunodeficiency virus (HIV) infection should receive a 2-dose primary series of Menactra or Menveo with at least 8 weeks between doses.
- For children aged 2 months through 18 years with high-risk conditions, see below.

Catch-up vaccination:

- Administer Menactra or Menveo 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 weeks between doses.
- If the first dose is administered at age 16 years or older, a booster dose is not needed.
- For other catch-up guidance, see Figure 2.
- Vaccination of persons with high-risk conditions and other persons at increased risk of disease:
- Children with anatomic or functional asplenia (including sickle cell disease):
- 1. Menveo
 - o Children who initiate vaccination at 8 weeks through 6 months: Administer doses at 2,4,6, and 12 months of age.
 - o Unvaccinated children 7 through 23 months: Administer 2 doses, with the second dose at least 12 weeks after the first dose AND after the first birthday.
 - o Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart.
- 2. MenHibrix
 - o Children 6 weeks through 18 months: Administer doses at 2, 4, 6, and 12 through 15 months of age.
 - If the first dose of MenHibrix is given at or after 12 months of age, a total of 2 doses should be given at least 8 weeks apart to ensure protection against serogroups C and Y meningococcal disease.
- 3. Menactra

Children 24 months and older who have not received a complete series: Administer 2 primary doses at least 8 weeks apart. If Menactra is administered to a child with asplenia (including sickle cell disease), do not administer Menactra until 2 years of age and at least 4 weeks after the completion of all PCV13 doses.

- Children with persistent complement component deficiency:
 - 1. Menveo
 - Children who initiate vaccination at 8 weeks through 6 months: Administer doses at 2, 4, 6, and 12 months
 of age.
 - o Unvaccinated children 7 through 23 months: Administer 2 doses, with the second dose at least 12 weeks after the first dose AND after the first birthday.
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- For children at risk during a community outbreak attributable to a vaccine serogroup, administer or complete an age- and formulation-appropriate series of MenHibrix, Menactra, or Menveo.
- For booster doses among persons with high-risk conditions, refer to MMWR 2013 / 62(RR02);1-22, available at http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6202a1.htm.

2016 Childhood Immunization Schedules, Next Steps

- Revisions as necessary from ACIP, CDC
- Submission of cleared, edited copy to AAP, AAFP, and ACOG by January 1, 2016
- Publication by CDC on website January/February 2015

 Publication in Pediatrics and American Family Physician in February 2016

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