Centers for Disease Control and Prevention

National Center for Immunization and Respiratory Diseases



Recommendations from the Combined Immunization Schedule WG for the 2024 Immunization Schedules for Children/Adolescents and Adults

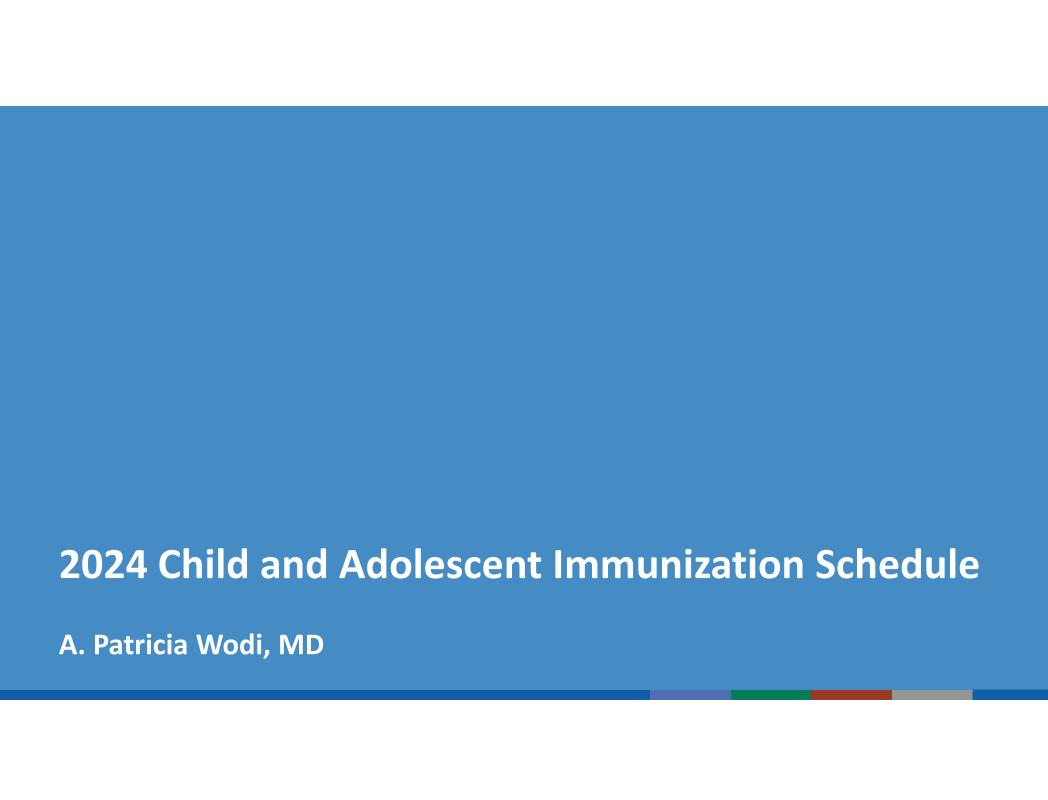
Sybil Cineas, MD, FAAP, FACP (ACIP Combined Immunization WG Chair)

A. Patricia Wodi, MD (CDC Co-Lead)

Neil Murthy, MD, MPH, MSJ (CDC Co-Lead)

ACIP Meeting October 26, 2023

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Proposed Updates to the 2024 Child/Adolescent Immunization Schedule

Changes to Tables

- Cover Page
- Table 1
- Table 2
- Table 3

Changes to Vaccination Notes

- COVID-19
- DTaP
- HPV
- Influenza
- MMR
- Meningococcal
- Mpox
- Pneumococcal
- Polio
- RSV monoclonal antibody
- RSV vaccine

Changes to Appendix Addendum (new)

- COVID-19
- DT
- Hib
- Meningococcal
- Mpox
- RSV monoclonal antibody
- RSV vaccine

Cover Page

UNITED STATES

Vaccines and Other Immunizing Agents in the Child and Adolescent Immunization Schedule*

Monocional antibody	Abbreviation(s)	Trade name(s)
Respiratory syncytial virus monoclonal antibody (Nirsevimab)	RSV-mAb	Beyfortus™
Vaccine	Abbreviation(s)	Trade name(s)
COVID-19	1vCOV-mRNA	Comirnaty*/Pfizer- BioNTech COVID-19 Vaccine SPIKEVAX*/Moderna COVID-19 Vaccine
	1vCOV-aPS	Novavax COVID-19 Vaccine
Dengue vaccine	DEN4CYD	Dengvaxia ^o
Diphtheria, tetanus, and acellular pertussis vaccine	DTaP	Daptacel ^o Infanrix ^o
Haemophilus influenzae type b vaccine	Hib (PRP-T)	ActHIB ^e Hiberix ^e
	Hib (PRP-OMP)	PedvaxHIB*
Hepatitis A vaccine	НерА	Havrix ^e Vaqta ^e
Hepatitis B vaccine	НерВ	Engerix-B° Recombivax HB°
Human papillomavirus vaccine	HPV	Gardasil 9°
nfluenza vaccine (inactivated)	IIV4	Multiple
nfluenza vaccine (live, attenuated)	LAIV4	FluMist® Quadrivalen
Measles, mumps, and rubella vaccine	MMR	M-M-R II ^a Priorix ^a
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-CRM	Menveo*
	MenACWY-TT	MenQuadfi*
Meningococcal serogroup B vaccine	MenB-4C	Bexsero*
	MenB-FHbp	Trumenba®
Meningococcal serogroup A, B, C, W, Y vaccine	MenACWY-TT/ MenB-FHbp	Penbraya™
Mpox vaccine	Mpox	Jynneos*
Pneumococcal conjugate vaccine	PCV15	Vaxneuvance™
	PCV20	Prevnar 20°
Pneumococcal polysaccharide vaccine	PPSV23	Pneumovax 23°
Poliovirus vaccine (inactivated)	IPV	IPOL®
Respiratory syncytial virus vaccine	RSV	Abrysvo™
Rotavirus vaccine	RV1 RV5	Rotarix
Fatania dialah kanja and analis dan aratania analis	The state of the s	RotaTeq® Adacel®
Fetanus, diphtheria, and acellular pertussis vaccine	Tdap	Boostrix ^e
Fetanus and diphtheria vaccine	Td	Tenivac° Tdvax™
Varicella vaccine	VAR	Varivax*
Combination vaccines (use combination vaccines instead of separate inje		0.0000000000000000000000000000000000000
OTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix ^e
DTaP, inactivated poliovirus, and Haemophilus influenzae type b vaccine		Pentacel*
DTaP and inactivated poliovirus vaccine	DTaP-IPV	Kinrix ^e Quadracel ^e
DTaP, inactivated poliovirus, <i>Haemophilus influenzae</i> type b, and hepatitis B vaccine	DTaP-IPV-Hib- HepB	Vaxelis*
	MMRV	ProQuad ^o

extended intervals between doses. When a vaccine is not administered at the recommended age, administer at a subsequent visit. The use of trade names is for identification purposes only and does not imply endorsement by the AGP or CDC.

How to use the child and adolescent immunization schedule

Determine recommended vaccine by age (Table 1)

Determine recommended interval for catch- recommended up vaccination vaccines by medical

(Table 2)

Assess need Raviow for additional condition or other indication situations (Table 3) (Notes)

Review contraindication vaccine types. frequencies, and precaution intervals, and for vaccine type considerations (Appendix) for special

6 Review new or s updated ACIP guidance (Addendum)

Recommended by the Advisory Committee on Immunization Practices (www.cdc.gov/vaccines/acip) and approved by the Centers for Disease Control and Prevention (www.cdc.gov), American Academy of Pediatrics (www.aap.org), American Academy of Family Physicians (www.aafp.org), American College of Obstetricians and Gynecologists (www.acog.org), American College of Nurse-Midwives (www.midwife.org), American Academy of Physician Associates (www.aapa.org), and National Association of Pediatric Nurse Practitioners (www.napnap.org).

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	1vCOV-aPS	Novavax COVID-19 Vaccine
Dengue vaccine Dengue vaccine	DEN4CYD	Dengvaxia*
Diphtheria, tetanus, and acellular pertussis vaccine	DTaP	Daptacel® Infanrix®
Haemophilus influenzae type b vaccine	Hib (PRP-T)	ActHIB ^o Hiberix ^o
	Hib (PRP-OMP)	PedvaxHIB*
Hepatitis A vaccine	НерА	Havrix ^e Vaqta ^e
Hepatitis B vaccine	НерВ	Engerix-B° Recombivax HB°
Human papillomavirus vaccine	HPV	Gardasil 9°
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Influenza vaccine (live, attenuated)	LAIV4	FluMist® Quadrivaler
Measles, mumps, and rubella vaccine	MMR	M-M-R II ^a Priorix ^a
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-CRM	Menveo ^e
	MenACWY-TT	MenQuadfi*
Meningococcal serogroup B vaccine	MenB-4C	Bexsero*
	MenB-FHbp	Trumenba®
Meningococcal serogroup A, B, C, W, Y vaccine	MenACWY-TT/ MenB-FHbp	Penbraya™
Mpox vaccine	Mpox	Jynneos*
Pneumococcal conjugate vaccine	PCV15 PCV20	Vaxneuvance™ Prevnar 20°
Pneumococcal polysaccharide vaccine	PPSV23	Pneumovax 23°
Poliovirus vaccine (inactivated)	IPV	IPOL®
Respiratory syncytial virus vaccine	RSV	Abrysvo™
Rotavirus vaccine	RV1 RV5	Rotarix® RotaTeq®
Tetanus, diphtheria, and acellular pertussis vaccine	Tdap	Adacel [®] Boostrix [®]
Tetanus and diphtheria vaccine	Td	Tenivac° Tdvax™
Varicella vaccine	VAR	Varivax*
Combination vaccines (use combination vaccines instead of separate injec		1 - Crashovalara
DTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix ^e
DTaP, inactivated poliovirus, and Haemophilus influenzae type b vaccine	DTaP-IPV/Hib	Pentacel*
DTaP and inactivated poliovirus vaccine	DTaP-IPV	Kinrix ^e Quadracel ^e
DTaP, inactivated poliovirus, Haemophilus influenzae type b, and hepatitis B vaccine	DTaP-IPV-Hib- HepB	Vaxelis*
Measles, mumps, rubella, and varicella vaccine	MMRV	ProQuad ^o

^{*}Administer recommended vaccines if immunization history is incomplete or unknown. Do not restart or add doses to vaccine series for extended intervals between doses. When a vaccine is not administered at the recommended age, administer at a subsequent visit. The use of trade names is for identification purposes only and does not imply endorsement by the AGP or CDC.

How to use the child and adolescent immunization schedule

Determine recommended vaccine by age (Table 1)

Determine recommended interval for catch- recommended up vaccination (Table 2)

Assess need for additional vaccines by medical condition or other indication situations (Table 3)

Raviow vaccine types. frequencies, intervals, and considerations for special (Notes)

6

Review

(Appendix)

Review new or contraindications updated ACIP and precautions guidance for vaccine types (Addendum)

Recommended by the Advisory Committee on Immunization Practices (www.cdc.gov/vaccines/acip) and approved by the Centers for Disease Control and Prevention (www.cdc.gov), American Academy of Pediatrics (www.aap.org), American Academy of Family Physicians (www.aafp.org), American College of Obstetricians and Gynecologists (www.acog.org), American College of Nurse-Midwives (www.midwife.org), American Academy of Physician Associates (www.aapa.org), and National Association of Pediatric Nurse Practitioners (www.napnap.org).

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Dengue vaccine	DEN4CYD	Dengvaxia*
Diphtheria, tetanus, and acellular pertussis vaccine	DTaP	Daptacel ^e Infanrix ^e
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Pneumococcal polysaccharide vaccine	PPSV23	Pneumovax 23°
Policying vaccine (inactivated)	INV	IPOL®
Respiratory syncytial virus vaccine	RSV	Abrysvo™
ROCAVITUS VACCINE	KV1	Kotanx*
	RV5	RotaTeq*
Tetanus, diphtheria, and acellular pertussis vaccine	Tdap	Adacel ^o Boostrix ^o
Tetanus and diphtheria vaccine	Td	Tenivac° Tdvax™
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Combination vaccines (use combination vaccines instead of separate in		
DTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix ^e
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Measles, mumps, rubella, and varicella vaccine	MMRV	ProOuad*

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Determine

(Table 2)

Assess need recommended for additional interval for catch- recommended up vaccination vaccines by medical condition or

(Table 3)

Raviaw vaccine types. frequencies, intervals, and considerations for special other indication situations (Notes)

6 Review contraindications updated ACIP and precautions guidance

(Appendix)

Review new or for vaccine types (Addendum)

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Fetanus, diphtheria, and acellular pertussis vaccine	Tdap	Adacel ^o Boostrix ^o
Fetanus and diphtheria vaccine	Td	Tenivac° Tdvax™
/aricella vaccine	VAR	Varivax*
Combination vaccines (use combination vaccines instead of separate injec	ctions when appropriate)	NAME OF TAXABLE PARTY.
OTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix ^e
DTaP, inactivated poliovirus, and Haemophilus influenzae type b vaccine	DTaP-IPV/Hib	Pentacel*
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	MenB-FHbp	
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neumococcar conjugate vaccine	PCVID	vaxrieuvarice
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Combination vaccines (use combination vaccines instead of separate in		Varivax
DTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix ^e
DTaP, inactivated poliovirus, and Haemophilus influenzae type b vaccine		Pentacel*
DTaP and inactivated policyirus vaccine	DTaP-IPV	Kinrix ^e
and an annual section of the section		Quadracel®
DTaP, inactivated poliovirus, Haemophilus influenzae type b, and	DTaP-IPV-Hib- HepB	Vaxelis*
hepatitis B vaccine		

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Vaccines and Other Immunizing Agents in the Ch	ild and Adalaccent Immunication Cabadula*

Vaccine	Abbreviation(s)	Trade name(s)
COVID-19*	1vCOV-mRNA	Comirnaty*/Pfizer- BIONTech COVID-19 Vaccine SPIKEVAX*/Moderna COVID-19 Vaccine
	2vCOV-mRNA	Pfizer-BloNTech COVID-19 Vaccine, Bivalent
		Moderna COVID-19 Vaccine, Bivalent
	1vCOV-aPS	Novavax COVID-19 Vaccine
Dengue vaccine	DEN4CYD	Dengvaxia*
Diphtheria, tetanus, and acellular pertussis vaccine	DTaP	Daptacel* Infantix*
Diphtheria, tetanus vaccine	DT	No trade name
Haemophilus influenzae type b vaccine	HIb (PRP-T)	ActHIB* Hibertc*
	HIb (PRP-OMP)	PedvaxHIB*
Hepatitis A vaccine	НерА	Havrbr [®] Vaqta [®]
Hepatitis B vaccine	НерВ	Engertx-B° Recombivax HB°
Human papillomavirus vaccine	HPV	Gardasil 9°
Influenza vaccine (inactivated)†	IIV4	Multiple
Influenza vaccine (live, attenuated)†	LAIV4	FluMist® Quadrivalen
Measles, mumps, and rubella vaccine	MMR	M-M-R II* Priorbx*
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-D	Menactra*
	MenACWY-CRM	Menveo*
	MenACWY-TT	MenQuadfi ^o
Meningococcal serogroup B vaccine	MenB-4C	Bexsero®
	MenB-FHbp	Trumenba*
Pneumococcal conjugate vaccine [†]	PCV12 PCV15	Prevnar 12° Vaxneuvance™
Pneumococcal polysaccharide vaccine [†]	PPSV23	Pneumovax 23°
Poliovirus vaccine (inactivated)†	IPV	IPOL®
Rotavirus vaccine	RV1	Rotartx*
	RV5	RotaTeq*
Tetanus, diphtheria, and a cellular pertussis vaccine	Tdap	Adacel* Boostrix*
Tetanus and diphtheria vaccine	Td	Tenivac* Tdvax™
Varicella vaccine	VAR	Varivax®
Combination vaccines (use combination vaccines instead of separate injection	ons when appropriate)	
DTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix*
DTaP, inactivated poliovirus, and Haemophilus influenzaetype b vaccine	DTaP-IPV/HIb	Pentacel*
DTaP and inactivated policyirus vaccine	DTaP-IPV	Kinrte* Quadracel*
DTaP, inactivated poliovirus, Haemophilus influenzae type b, and hepatitis B vaccine	DTaP-IPV-HIb-HepB	Vaxelis*
Measles, mumps, rubella, and varicella vaccine	MMRV	ProQuad*
	ince February 2023 (See A	
New Vaccines and Other Immunizing Agents added to the Schedule si RSV monoclonal antibody (Nirsevimab)	RSV-mAb	Beyfortus™

extended intervals between doses. When a vaccine is not administered at the recommended age, administer at a subsequent visit.

The use of trade names is for identification purposes only and dose not imply endors mement by the ACIP or CDC.

15 OND-19 This hours is the revex and Preumonomal services have new or undated ACIP recommendations. Please see Addendum for more detailed.

How to use the child and adolescent immunization schedule

Determine recommended vaccine by age (Table 1)

ded r age in

Determine recommended interval for catch- up vaccination (Table 2) Assess need for additional recommended vaccines by medical condition or

Assess need for additional recommended vaccine types, frequencies, vaccines ondition or other indication situations situations situations (Table 3) (Notes)

Review
pes, contraindica
es, and precauti
nd forvaccine ty
ions (Appendix)

Review contraindications and precautions for vaccine types (Adjendum)

Recommended by the Advisory Committee on Immunization Practices (www.cdc.gov/vaccines/adp) and approved by the Centers for Disease Control and Prevention (www.cdc.gov), American Academy of Pediatrics (www.aap.org), American Academy of Fediatrics (www.aap.org), American College of Obstetricians and Gynecologists (www.acog.org), American College of Nurse-Midwives (www.midwife.org), American Academy of Physician Associates (www.aapa.org), and National Association of Pediatric Nurse Practitioners (www.naprap.org).

Report

- Suspected cases of reportable vaccine-preventable diseases or outbreaks to your state or local health department
- Clinically significant adverse events to the Vaccine Adverse Event Reporting System (VAERS) at www.vaers.hhs.gov or 800-822-7967

Questions or comments

Contact www.cdc.gov/cdc-info or 800-CDC-INFO (800-232-4636), in English or Spanish, 8 a.m.-8 p.m.ET, Monday through Friday, excluding holidays



Download the CDCVaccine Schedules app for providers at www.cdc.gov/vaccines/schedules/hcp/schedule-app.html

Helpful information

- Complete Advisory Committee on Immunization Practices (ACIP) recommendations: www.cdc.gov/vaccines/hcp/acip-recs/index.html
- General Best Practice Guidelines for Immunization (including contraindications and precautions): www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html
- Vaccine information statements:
- www.cdc.gov/vaccines/hcp/vis/index.html
- Manual for the Surveillance of Vaccine-Preventable Diseases (including case identification and outbreak response):
- (including case identification and outbreak response): www.cdc.gov/vaccines/pubs/surv-manual
- ACIP Shared Clinical Decision-Making Recommendations www.cdc.gov/vaccines/acip/acip-scdm-fags.html



U.S. Department of Health and Human Services Centers for Disease Control and Prevention Scan QR code for access to online schedule

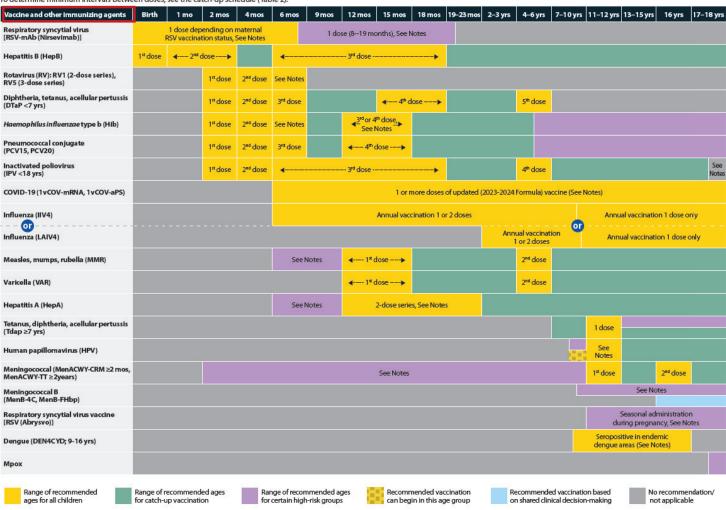


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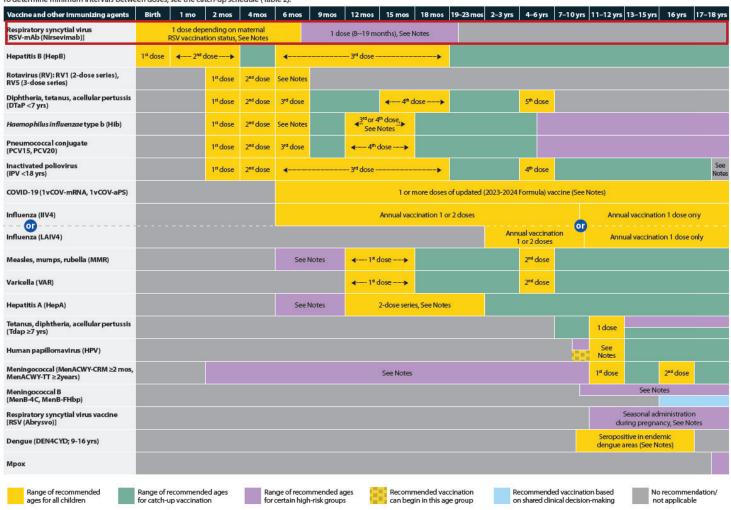
COMD-19, Poliovirus, Influenza, and Prieumoco coal vaccines have new or updated ACIP recommendations. Please see Addendum for more details.

Routine Immunization Schedule

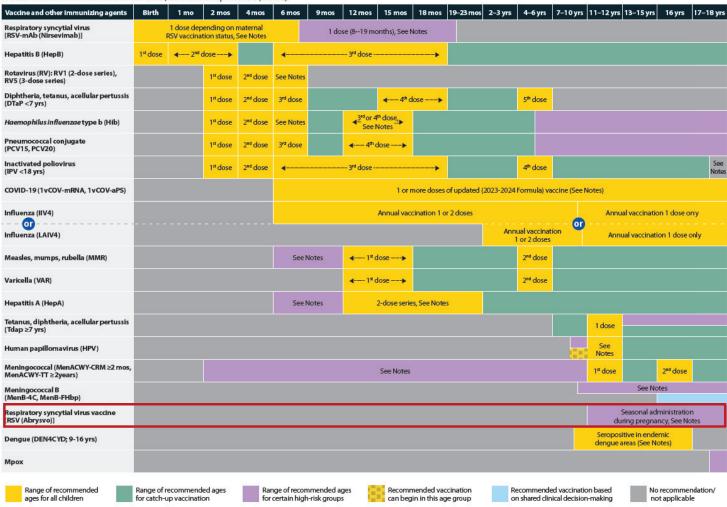
Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024



Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024



Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024



Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

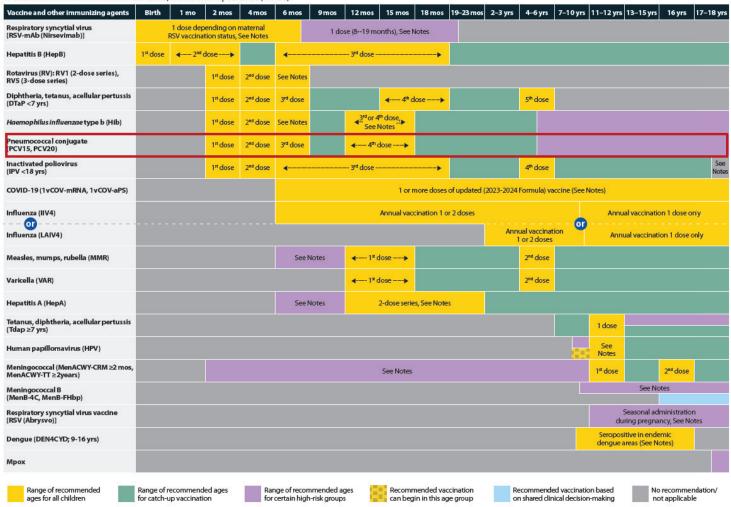
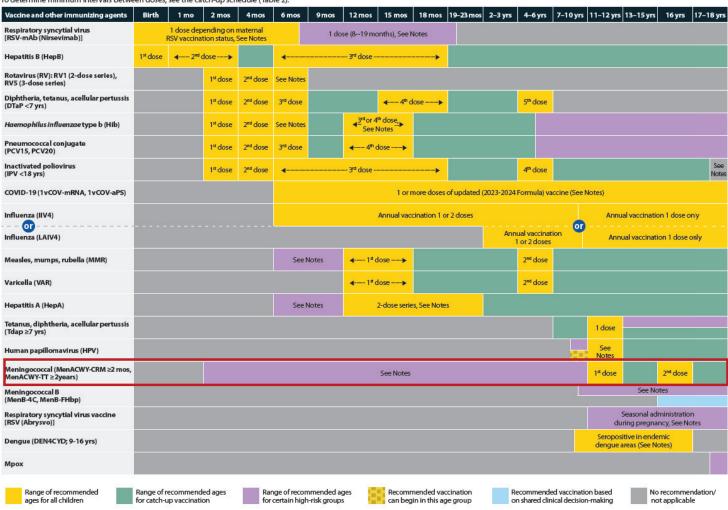


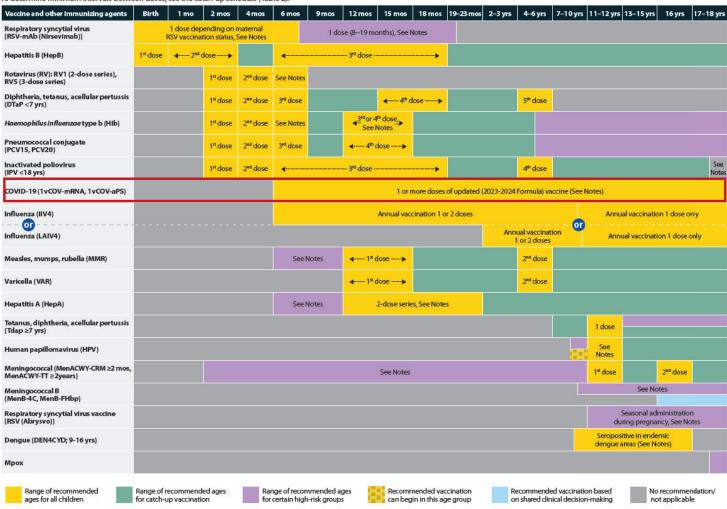
Table 1 Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

To determine minimum intervals bety	ween dose:	s, see the c	atch-up sc	hedule (Ta	ble 2).												
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 yrs 17-	-18 yrs
Hepatitis B (HepB)	1ª dose	∢ 2 nd	dose▶		4		3 rd dose										
Rotavirus (RV): RV1 (2-dose series), RV5 (3-dose series)			1 st dose	2 nd close	See Notes												
Diphtheria, tetanus, acellular pertussis (DTaP <7 yrs)			1ª dose	2 nd close	3 rd dose			∢ 4* d	ose▶			5th dose					
Haemophilus influenzae type b (Hib)			1 st dose	2 nd close	See Notes		43 ^d or 4 ^d See N	dose _u lotes									
Pneumococcal conjugate (PCV13, PCV15)			1ª dose	2 nd close	3 rd dose		4 4 th d	ose▶									
Inactivated poliovirus (IPV <18 yrs)			1 ^{rt} dose	2 nd close	4		3 rd dose					4 th dose					See Notes
COVID-19 (1vCOV-mRNA, 2vCOV-mRNA, 1vCOV-aPS)									2- or 3-	dose primar	y series and	booster (Se	e Notes)				
Influenza (IIV4)								Annual vac	cination 1 o	r 2 doses				Annua	al vaccination	1 dose only	
Influenza (LAIV4)												ial vaccinat or 2 doses	ion or	Annu		n 1 dose only	
Measles, mumps, rubella (MMR)					See f	Notes	∢ 1ª d	ose				2 nd dose					
Varicella (VAR)							∢ 1ª d	ose >				2 nd close					
Hepatitis A (HepA)					See f	Notes	2	-dose serie	s, See Note	5							
Tetanus, diphtheria, acellular pertussis (Tdap ≥7 yrs)														1 dose			
Human papillomavirus (HPV)														See Notes			
MenIngococcal (MenACWY-D ≥9 mos, MenACWY-CRM ≥2 mos, MenACWY-TT ≥2years)								See Notes						1ª dose		2 nd dose	
Meningococcal B (MenB-4C, MenB-FHbp)															See Not	ස	
Pneumococcal polysaccharide (PPSV23)														See Notes			
Dengue (DEN4CYD; 9-16 yrs)															tive in ender reas (See No		
Range of recommended ages for all children		ecommend up vaccinati			nge of recon certain high				nended vac in in this ag				ed vaccinatio ical decision			recommendat applicable	ion/

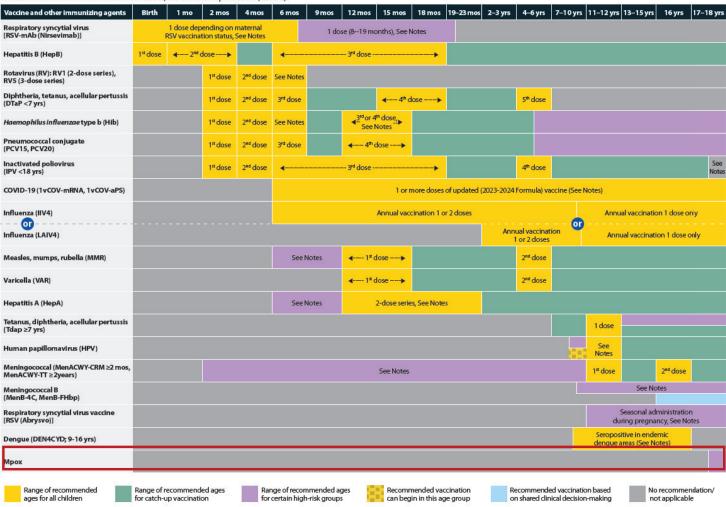
Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024



Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024



Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024



Catch-up Immunization Schedule

Recommended Catch-up Immunization Schedule for Children and Adolescents Who Start Late or Who Are More than 1 Month Behind, United States, 2024 The table 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 Table 1 and the Notes that follow.

coetta.	No. all and		Children age 4 months through 6 years		
Vaccine	Minimum Age for		Minimum Interval Between Doses		
	Dose 1	Dose 1 to Dose 2	Dose 2 to Dose 3	Dose 3 to Dose 4	Dose 4 to Dose 5
lepatitis B	Birth	4 weeks	8 weeks and at least 16 weeks after first dose minimum age for the final dose is 24 weeks		
lotavirus	6 weeks Maximum age for first dose is 14 weeks, 6 days.	4 weeks	4 weeks maximum age for final dose is 8 months, 0 days		
Diphtheria, tetanus, and scellular pertussis	6 weeks	4 weaks	4 weeks	6 months	6 months A fifth dose is not necessary if the fourth dose was administered at age 4 years or older and at least 6 mont after dose 3
Haemophilus influenzae type b	6 weeks	No further doses needed in the state of the	No further doses needed if previous dose was administered at age 15 months or older 4 weeks if current age is younger than 12 months and first dose was administered at younger than age 7 months and at least 1 previous dose was PRPT (ActHib*, Pentacel*, Hiberis*), Vaxelis* or unknown 8 weeks and age 12 through 59 months (as final dose) 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 1* birthday and second dose was administered at younger than 15 months; OR if both doses were Pedvak Hilb* and were administered before the 1st birthday	8 weeks (as final dose) This dose only necessary for children age 12 through 59 months who received 3 doses before the 1° birthday.	
Pneumococcal conjugate	6 weeks	No further doses needed for healthy children if first dose was administered at age 24 months or older 4 weaks if first dose was administered before the 1 st birthday 8 weaks (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 previous dose was administered at age 24 months or older 4 weeks if current age is younger than 12 months and previous dose was administered at <7 months old 8 weeks (as final dose for healthy children) if previous dose was administered at <7 months old if previous dose was administered between 7-11 months (wait until at least 12 months old); OR if current age is 12 months or older and at least 1 dose was administered before age 12 months	8 weeks (as final dose) this dose is only necessary for children aged 12 through 59 months regardless of risk, or age 60 through 71 months with any risk, who received 3 doses before age 12 months.	
nactivated poliovirus	6 weeks	4 weeks	4 weeks if current age is -04 years 6 months (as final dose) if current age is 4 years or older	6 months (minimum age 4 years for final dose)	
leasles, mumps, rubella	12 months	4 weeks			
nicella	12 months	3 months			
epatitis A	12 months	6 months			
Meningococcal ACWY	2 months MenACWY-CRM 2 years MenACWY-TT		See Notes	See Notes	
	,		Children and adolescents age 7 through 18 years		
leningococcal ACWY	Not applicable (N/A)	8 weeks			
etanus, diphtheria; etanus, diphtheria, and cellular pertussis	7 years	4 weeks	4 weeks if first dose of DTaP/DT was administered before the 1st birthday 6 months (as final dose) if first dose of DTaP/DT or Tdap/Td was administered at or after the 1st birthday	6 months if first dose of DTaP/DT was administered before the 1st birthday	
luman papillomavirus	9 years	Routine dosing intervals are recommended.			
epatitis A	N/A	6 months			
epatitis B	N/A	4 weeks	8 weeks and at least 16 weeks after first dose		
activated poliovirus	N/A	4 weeks	6 months 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.	A fourth dose of IPV is indicated if all previous doses were administered at <4 years or if the third dose was administered <6 months after the second dose.	
Measles, mumps, rubella	N/A	4 weeks			
aricella	N/A	3 months if younger than age 13 years. 4 weeks if age 13 years or older			
engue	9 years	6 months	6 months		
-	,				

Recommended Catch-up Immunization Schedule for Children and Adolescents Who Start Late or Who Are More than 1 Month Behind, United States, 2024 The table 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 Table 1 and the Notes that follow.

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Pneumococcal conjugate	6 weeks	No further doses needed for healthy children if first dose was administered at age 24 months or older 4 weaks if first dose was administered before the 1 st birthday 8 weaks (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 previous dose was administered at age 24 months or older 4 weeks if current age is younger than 12 months and previous dose was administered at <7 months old 8 weeks (as final dose for healthy children) if previous dose was administered at <7 months old if previous dose was administered between 7-11 months (wait until at least 12 months old); OR if current age is 12 months or older and at least 1 dose was administered before age 12 months	8 weeks (as final dose) this dose is only necessary for children aged 12 through 59 months regardless of risk, or age 60 through 71 months with any risk, who received 3 doses before age 12 months.	
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nicella	12 months	3 months			
epatitis A	12 months	6 months			
leningococcal ACWY	2 months MenACWY-CRM 2 years MenACWY-TT	200100	See Notes	See Notes	
			Children and adolescents age 7 through 18 years		
leningococcal ACWY	Not applicable (N/A)	8 weeks		17	
etanus, diphtheria; etanus, diphtheria, and cellular pertussis	7 years	4 weeks	4 weeks if first dose of DTaP/DT was administered before the 1st birthday 6 months (as final dose) if first dose of DTaP/DT or Tdap/Td was administered at or after the 1st birthday	6 months if first dose of DTaP/DT was administered before the 1st birthday	
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Measles, mumps, rubella	N/A	4 weeks			
aricella	N/A	3 months if younger than age 13 years. 4 weeks if age 13 years or older			
engue	9 years	6 months	6 months		
	-,				

Immunization by Medical Indication

UNITED STATES

Vaccines and Other Immunizing Agents in the Child and Adolescent Immunization Schedule*

Monoclonal antibody	Abbreviation(s)	Trade name(s)
Respiratory syncytial virus monoclonal antibody (Nirsevimab)	RSV-mAb	Beyfortus™
Vaccine	Abbreviation(s)	Trade name(s)
COVID-19	1vCOV-mRNA	Comirnaty*/Pfizer- BioNTech COVID-19 Vaccine SPIKEVAX*/Moderna COVID-19 Vaccine
	1vCOV-aPS	Novavax COVID-19 Vaccine
Dengue vaccine	DEN4CYD	Dengvaxia*
Diphtheria, tetanus, and acellular pertussis vaccine	DTaP	Daptacel® Infanrix®
Haemophilus influenzae type b vaccine	Hib (PRP-T)	ActHIB° Hiberix°
	HIb (PRP-OMP)	PedvaxHIB*
Hepatitis A vaccine	HepA	Havrix ^e Vaqta ^e
Hepatitis B vaccine	НерВ	Engerix-B° Recombivax HB°
Human papillomavirus vaccine	HPV	Gardasil 9°
Influenza vaccine (inactivated)	IIV4	Multiple
Influenza vaccine (live, attenuated)	LAIV4	FluMist® Quadrivalen
Measles, mumps, and rubella vaccine	MMR	M-M-R II* Priorix*
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-CRM	Menveo ^o
	MenACWY-TT	MenQuadfi*
Meningococcal serogroup B vaccine	MenB-4C	Bexsero*
	MenB-FHbp	Trumenba®
Meningococcal serogroup A, B, C, W, Y vaccine	MenACWY-TT/ MenB-FHbp	Penbraya™
Mpox vaccine	Мрох	Jynneos*
Pneumococcal conjugate vaccine	PCV15 PCV20	Vaxneuvance™ Prevnar 20°
Pneumococcal polysaccharide vaccine	PPSV23	Pneumovax 23°
Poliovirus vaccine (inactivated)	IPV	IPOL®
Respiratory syncytial virus vaccine	RSV	Abrysvo™
Rotavirus vaccine	RV1 RV5	Rotarix ^o RotaTeg ^o
Tetanus, diphtheria, and acellular pertussis vaccine	Tdap	Adacel ^o Boostrix ^o
Tetanus and diphtheria vaccine	Td	Tenivac° Tdvax™
Varicella vaccine	VAR	Varivax*
Combination vaccines (use combination vaccines instead of separate inje	ections when appropriate)	
DTaP, hepatitis B, and inactivated poliovirus vaccine	DTaP-HepB-IPV	Pediarix ^e
DTaP, inactivated poliovirus, and Haemophilus influenzae type b vaccine	DTaP-IPV/Hib	Pentacel*
DTaP and inactivated poliovirus vaccine	DTaP-IPV	Kinrix ^e
		Quadracel®
DTaP, inactivated poliovirus, <i>Haemophilus influenzae</i> type b, and hepatitis B vaccine	DTaP-IPV-Hib- HepB	Vaxelis*
Measles, mumps, rubella, and varicella vaccine	MMRV	ProQuad ^o

^{*}Administer recommended vaccines if immunization history is incomplete or unknown. Do not restart or add doses to vaccine series for extended intervals between doses. When a vaccine is not administered at the recommended age, administer at a subsequent visit. The use of trade names is for identification purposes only and does not imply endorsement by the AQP or CDC.

How to use the child and adolescent immunization schedule

Determine recommended vaccine by age (Table 1)

Determine Assess need for additional recommended interval for cate recommended up vaccination (Table 2) vaccines by medical condition or other indication

(Table 3)

vaccine types. frequencies, intervals, and considerations for special situations (Notes)

Review (Appendix)

Review new or contraindications updated ACIP and precautions guidance for vaccine types (Addendum)

Recommended by the Advisory Committee on Immunization Practices (www.cdc.gov/vaccines/acip) and approved by the Centers for Disease Control and Prevention (www.cdc.gov), American Academy of Pediatrics (www.aap.org), American Academy of Family Physicians (www.aafp.org), American College of Obstetricians and Gynecologists (www.acog.org), American College of Nurse-Midwives (www.midwife.org), American Academy of Physician Associates (www.aapa.org), and National Association of Pediatric Nurse Practitioners (www.napnap.org).

Report

- Suspected cases of reportable vaccine-preventable diseases or outbreaks to your state or local health
- Clinically significant adverse events to the Vaccine Adverse Event Reporting System (VAERS) at www.vaers.hhs.gov or 800-822-7967

Questions or comments

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Download the CDC Vaccine Schedules app for providers at www.cdc.gov/vaccines/schedules/hcp/schedule-app.html

Helpful information

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- ACIP Shared Clinical Decision-Making Recommendations www.cdc.gov/vaccines/acip/acip-scdm-faqs.html
- General Best Practice Guidelines for Immunization (including contraindications and precautions): www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html
- Vaccine information statements:
- www.cdc.gov/vaccines/hcp/vis/index.html
- Manual for the Surveillance of Vaccine-Preventable Diseases (including case identification and outbreak response): www.cdc.gov/vaccines/pubs/surv-manual



U.S. Department of **Health and Human Services** Centers for Disease Control and Prevention



Table 3: Immunization by medical indication

- Revised the legend definitions to improve clarity of the recommendations
- Harmonized changes with the adult schedule

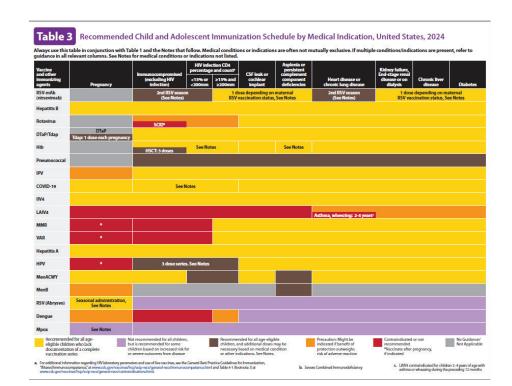


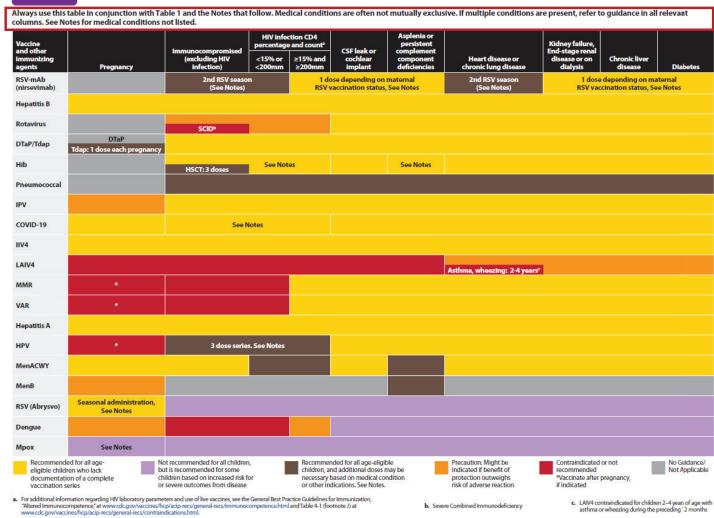
Table 3: New Legend Definitions

Recommended for all ageeligible children who lack documentation of a complete vaccination series Not recommended for all children, but is recommended for some children based on increased risk for or severe outcomes from disease Recommended for all age-eligible children, and additional doses may be necessary based on medical condition or other indications. See Notes.

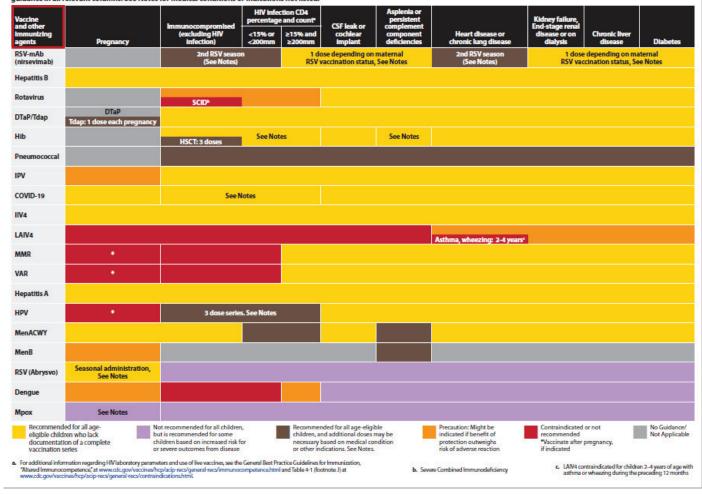
Precaution: Might be indicated if benefit of protection outweighs risk of adverse reaction

Contraindicated or not recommended
*Vaccinate after pregnancy, if indicated

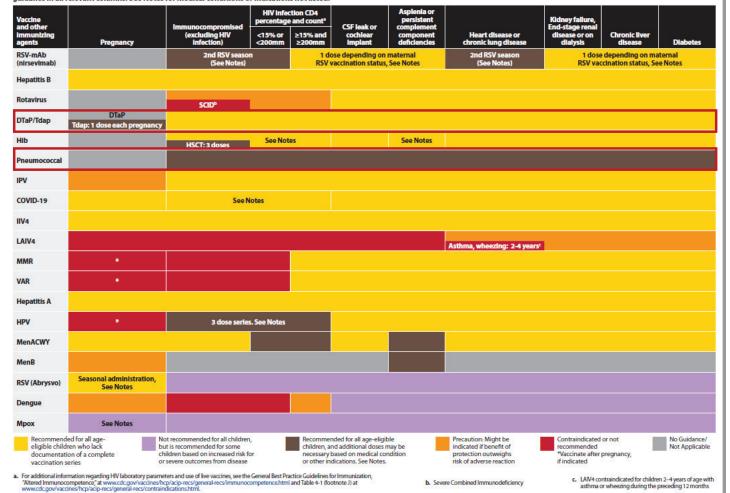
No Guidance/ Not Applicable



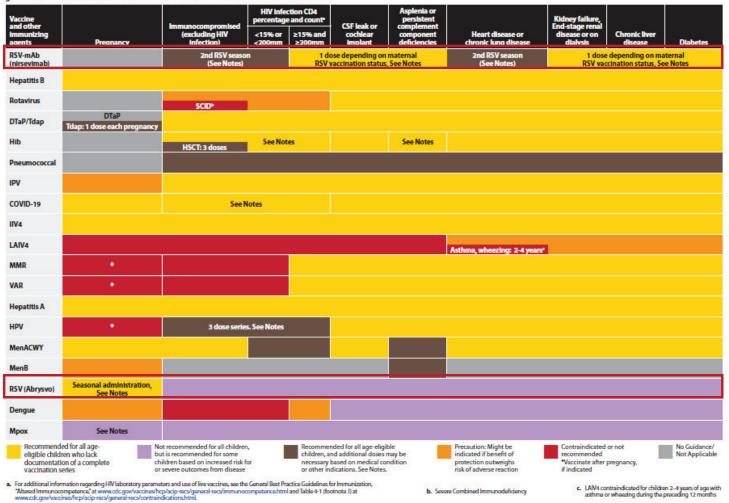
Always use this table in conjunction with Table 1 and the Notes that follow. Medical conditions or indications are often not mutually exclusive. If multiple conditions/indications are present, refer to guidance in all relevant columns. See Notes for medical conditions or indications not listed.



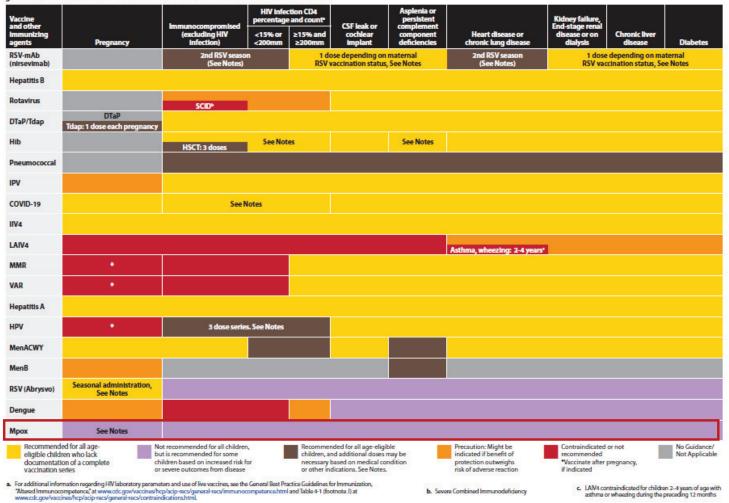
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Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

For vaccination recommendations for persons ages 19 years or older, see the Recommended Adult Immunization Schedule, 2024.

Additional information

- For calculating intervals between doses, 4 weeks = 28 days.
 Intervals of ≥4 months are determined by calendar months.
- Within a number range (e.g., 12–18), a dash (–) should be read as "through."
- Vaccine doses administered ≤4 days before the minimum age or interval are considered valid. Doses of any vaccine administered ≥5 days earlier than the minimum age or minimum interval should not be counted as valid 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 Table 3-2, Recommended and minimum ages and intervals between vaccine doses, in General Best Practice Guidelines for Immunization at www.cdc.gov/vaccines/hcp/ acip-recs/qeneral-recs/timing.html.
- Information on travel vaccination requirements and recommendations is available at www.cdc.qov/travel/.
- For vaccination of persons with immunodeficiencies, see Table 8-1, Vaccination of persons with primary and secondary immunodeficiencies, in General Best Practice Guidelines for Immunization at www.cdc.gov/vaccines/hcp/acip-recs/ general-recs/immunocompetence.html, and Immunization in Special Clinical Circumstances (In: Kimberlin DW, Barnett ED, Lynfield Ruth, Sawyer MH, eds. Red Book: 2021–2024 Report of the Committee on Infectious Diseases. 32nd ed. Itasca, IL: American Academy of Pediatrics; 2021:72–86).
- For information about vaccination in the setting of a vaccine-preventable disease outbreak, contact your state or local health department.
- The National Vaccine Injury Compensation Program (VICP) is a no-fault alternative to the traditional legal system for resolving vaccine injury claims. All vaccines included in the child and adolescent vaccine schedule are covered by VICP except dengue, PPSV23, RSV, and COVID-19 vaccines that are authorized or approved by the FDA are covered by the Countermeasures injury Compensation Program (CICP). For more information, see www.hrsa.gov/vaccinecompensation or www.hrsa.gov/cicp.

COVID-19 vandnatler

(minimum age: 6 months [Moderna and Pfizer-BioNTech COVID-19 vaccines], 12 years [Novava: COVID-19 Vaccine])

Routine vaccination

Age 6 months-4 years

- Unvaccinated
- 2-dose series of updated (2023–2024 Formula) Moderna at 0, 4-8 weeks
- 3-dose series of updated (2023–2024 Formula) Pfizel BioNTech at 0, 3-8, 11-16 weeks
- Previously vaccinated with 1 dose of any Moderna: 1 dose of updated (2023–2024 Formula) Moderna 4-8 weeks after the most recent dose
- Previously vaccinated with 2 or more doses of any Moderna: 1 dose of updated (2023–2024 Formula) Moderna at least 8 weeks after the most recent dose.
- Previously vaccinated* with 1 dose of any Pfizer-BIoNTech; 2-dose series of updated (2023–2024 Formula)
 Pfizer-BioNTech at 0, 8 weeks (minimum interval between previous Pfizer-BioNTech and dose 1: 3-8 weeks)
- Previously vaccinated with 2 or more doses of any Pfizer BioNTech: 1 dose of updated (2023–2024 Formula) Pfizer-BioNTech at least 8 weeks after the most recent dose.

Age 5-11 years

- Univaccinated: 1 dose of updated (2023–2024 Formula)
 Moderna or Pfizer-BioNTech vaccine
- Previously vaccinated with 1 or more doses of Moderna

Special situation

Persons who are moderately or severely immunocompromised*

Age 6 months-4 years

- Unvaccinated
- 3-dose series of updated (2023–2024 Formula) Moderna at 0.4.8 weeks
- 3-dose series of updated (2023–2024 Formula) Pfizel BioNTech at 0: 3, 11 weeks.
- Previously vaccinated* with 1 dose of any Moderna: 2-dose series of updated (2023–2024 Formula) Moderna at 0 4 weeks (minimum interval between previous Moderna and dose 1.4 weeks)
- Previously vaccinated: with 2 doses of any Moderna: 1 dose of updated (2023–2024 Formula) Moderna at least 4 weeks after the most recent dose.
- Previously vaccinated* with 3 or more doses of any Moderna: 1 dose of updated (2023–2024 Formula) Moderna at least 8 weeks after the most recent dose.
- Previously vaccinated* with 1 dose of any Pfizer-BioNTech: 2-dose series of updated (2023–2024 Formula)
 Pfizer-BioNTech at 0, 8 weeks (minimum interval between previous Pfizer-BioNTech and dose 1-3 weeks).
- Previously vaccinated* with 2 or more doses of any Pfizer-BioNTech: 1 dose of updated (2023–2024 Formula) Pfizer-BioNTech at least 8 weeks after the most recent dose

Age 5-11 years

- Unvaccinated
- 3-dose series of updated (2023–2024 Formula) Moderna at 0.4. 8 weeks

The National Vaccine Injury Compensation Program (VICP)is a no-fault alternative to the traditional legal system for resolving vaccine injury claims. All vaccines included in the child and adolescent vaccine schedule are covered by VICP except dengue, PPSV23, **RSV**, and COVID-19 vaccines. COVID-19 vaccines that are authorized or approved by the FDA are covered by the Countermeasures Injury Compensation Program (CICP). For more information, see www.hrsa.gov/vaccinecompensation or www.hrsa.gov/cicp.

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United St Special situations

Routine vaccination

Persons **NOT** moderately or severely immunocompromised

Outlines vaccination series by age group and number of previous COVID-19 doses

COVID-19 vaccination

(minimum age: 6 months [Moderna and Pfizer-BioNTech COVID-19 vaccines], 12 years [Novavax COVID-19 Vaccine1)

outine vaccination

Age 6 months-4 years

- Unvaccinated:
- 2-dose series of updated (2023–2024 Formula) Moderna at 0, 4-8 weeks
- 3-dose series of updated (2023-2024 Formula) Pfizer-BioNTech at 0, 3-8, 11-16 weeks
- Previously vaccinated* with 1 dose of any Moderna: 1 dose of updated (2023-2024 Formula) Moderna 4-8 weeks after the most recent dose.
- Previously vaccinated* with 2 or more doses of any Moderna: 1 dose of updated (2023-2024 Formula) Moderna at least 8 weeks after the most recent dose.
- Previously vaccinated* with 1 dose of any Pfizer-BioNTech: 2-dose series of updated (2023-2024 Formula) Pfizer-BioNTech at 0, 8 weeks (minimum interval between previous Pfizer-BioNTech and dose 1: 3-8 weeks).
- Previously vaccinated* with 2 or more doses of any Pfizer-BioNTech: 1 dose of updated (2023-2024 Formula) Pfizer-BioNTech at least 8 weeks after the most recent dose.

- Unvaccinated: 1 dose of updated (2023–2024 Formula) Moderna or Pfizer-BioNTech vaccine.
- Previously vaccinated* with 1 or more doses of Moderna or Pfizer-BioNTech: 1 dose of updated (2023-2024 Formula) Moderna or Pfizer-BioNTech at least 8 weeks after the most recent dose.

Age 12-18 years

- Unvaccinated:
- 1 dose of updated (2023-2024 Formula) Moderna or Pfizer-BioNTech vaccine
- 2-dose series of updated (2023–2024 Formula) Novavax at
- Previously vaccinated* with any COVID-19 vaccine(s): 1 dose of any updated (2023-2024 Formula) COVID-19 vaccine at least 8 weeks after the most recent dose.

Special situations

Persons who are moderate

Age 6 months-4 years

- Unvaccinated:
- 3-dose series of updated (202 0, 4, 8 weeks
- 3-dose series of updated (202 BioNTech at 0, 3, 11 weeks.
- Previously vaccinated* with 2-dose series of updated (2023
- 4 weeks (minimum interval between previous woderna and dose 1: 4 weeks).
- Previously vaccinated* with 2 doses of any Moderna: 1 dose of updated (2023-2024 Formula) Moderna at least 4 weeks after the most recent dose.
- Previously vaccinated* with 3 or more doses of any Moderna: 1 dose of updated (2023-2024 Formula) Moderna at least 8 weeks after the most recent dose.
- Previously vaccinated* with 1 dose of any Pfizer-BioNTech: 2-dose series of updated (2023-2024 Formula) Pfizer-BioNTech at 0, 8 weeks (minimum interval between previous Pfizer-BioNTech and dose 1: 3 weeks).
- Previously vaccinated* with 2 or more doses of any Pfizer-BioNTech: 1 dose of updated (2023-2024 Formula) Pfizer-BioNTech at least 8 weeks after the most recent dose.

Age 5–11 years

Unvaccinated:

- 3-dose series of updated (2023-2024 Formula) Moderna at 0, 4, 8 weeks
- 3-dose series updated (2023–2024 Formula) Pfizer-BioNTech at 0, 3, 7 weeks.
- Previously vaccinated* with 1 dose of any Moderna: 2-dose series of updated (2023-2024 Formula) Moderna at 0, 4 weeks (minimum interval between previous Moderna and
- Previously vaccinated* with 2 doses of any Moderna: 1 dose of updated (2023-2024 Formula) Moderna at least 4 weeks after the most recent dose.
- Previously vaccinated* with 1 dose of any Pfizer-BioNTech: 2-dose series of updated (2023-2024 Formula) Pfizer-BioNTech at 0, 4 weeks (minimum interval between previous Pfizer-BioNTech and dose 1: 3 weeks)
- Previously vaccinated* with 2 doses of any Pfizer-BioNTech: 1 dose of 2023-2024 Pfizer-BioNTech at least 4 weeks after the most recent dose.

Persons who ARE moderately or severely immunocompromised

Outlines vaccination series by age group and number of previous COVID-19 doses

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

 Previously vaccinated* with 3 or more doses of any Moderna or Pfizer-BioNTech: 1 dose of updated (2023–2024 Formula) Moderna or Pfizer-BioNTech at least 8 weeks after the most recent dose.

Age 12-18 years

Unvaccinated:

- 3-dose series of updated (2023–2024 Formula) Moderna at 0. 4. 8 weeks
- 3-dose series of updated (2023–2024 Formula) Pfizer-BioNTech at 0, 3, 7 weeks
- 2-dose series of updated (2023–2024 Formula) Novavax at 0, 3 weeks
- Previously vaccinated* with 1 dose of any Moderna:
 2-dose series of updated (2023–2024 Formula) Moderna at 0,
 4 weeks (minimum interval between previous Moderna dose and dose 1: 4 weeks).
- Previously vaccinated* with 2 doses of any Moderna:
 1 dose of updated (2023–2024 Formula) Moderna at least 4 weeks after the most recent dose.
- Previously vaccinated* with 1 dose of any Pfizer-BioNTech: 2-dose series of updated (2023–2024 Formula)
 Pfizer-BioNTech at 0, 4 weeks (minimum interval between previous Pfizer-BioNTech dose and dose 1: 3 weeks).
- Previously vaccinated* with 2 doses of any Pfizer-BioNTech: 1 dose of updated (2023–2024 Formula) Pfizer-BioNTech at least 4 weeks after the most recent dose.
- Previously vaccinated* with 3 or more doses of any Moderna or Pfizer-BioNTech: 1 dose of any updated (2023–2024 Formula) COVID-19 vaccine at least 8 weeks after the most recent dose.
- Previously vaccinated* with 1 or more doses of Janssen or Novavax or with or without dose(s) of any Original monovalent or bivalent COVID-19 vaccine: 1 dose of any updated (2023–2024 Formula) COVID-19 vaccine at least 8 weeks after the most recent dose.

There is no preferential recommendation for the use of one COVID-19 vaccine over another when more than one recommended age-appropriate vaccine is available.

Administer an age-appropriate COVID-19 vaccine product for each dose. For information about transition from age 4 years to age 5 years or age 11 years to age 12 years during COVID-19 vaccination series, see Tables 1 and 2 at www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us. html#covid-vaccines.

Current COVID-19 schedule and dosage formulation available at www.cdc.gov/covidschedule. For more information on Emergency Use Authorization (EUA) indications for COVID-19 vaccines, see www.fda.gov/emergency-preparedness-and-response/coronavirus-disease-2019-covid-19/covid-19-vaccines

- *Note: Previously vaccinated is defined as having received any Original monovalent or bivalent COVID-19 vaccine (Janssen, Moderna, Novavax, Pfizer-BioNTech) prior to the updated 2023–2024 formulation.
- **Note: Persons who are moderately or severely immunocompromised have the option to receive one additional dose of updated (2023–2024 Formula) COVID-19 vaccine at least 2 months following the last recommended updated (2023–2024 Formula) COVID-19 vaccine dose. Further additional updated (2023–2024 Formula) COVID-19 vaccine dose(s) may be administered, informed by the clinical judgement of a healthcare provider and personal preference and circumstances. Any further additional doses should be administered at least 2 months after the last updated (2023–2024 Formula) COVID-19 vaccine dose. Moderately or severely immunocompromised children 6 months—4 years of age should receive homologous updated (2023–2024 Formula) mRNA vaccine dose(s) if they receive additional doses

Dengue vaccination (minimum age: 9 years

Routine vaccination

- Age 9–16 years living in areas with endemic dengue AND have laboratory confirmation of previous dengue infectior —3-dose series administered at 0, 6, and 12 months
- Endemic areas include Puerto Rico, American Samoa, US Virgin Islands, Federated States of Micronesia, Republic of Marshall Islands, and the Republic of Palau. For updated guidance on dengue endemic areas and pre-vaccination laboratory testing see www.cdc.gov/mmwr.volumes/70/in/ #7006a1 htm?s. cid=#7006a1. wand www.cdc.gov/dengue/ vaccine/hco/index.html
- Dengue vaccine should not be administered to children traveling to or visiting endemic dengue areas.

Diphtheria, tetanus, and pertussis (DTaP) vaccination (minimum age: 6 weeks [4 years for Kinrix* or Quadracel*])

Routine vaccination

 5-dose series (3-dose primary series at age 2, 4, and 6 months, followed by a booster doses at ages 15–18 months and 4–6 years *Note: Previously vaccinated is defined as having received any Original monovalent or bivalent COVID-19 vaccine (Janssen, Moderna, Novavax, Pfizer-BioNTech) prior to the updated 2023–2024 formulation.

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emophilus influenzae type b vaccination nimum age: 6 weeks)

utine vaccination

- ActHIB , Hiberix , Pentacel , or Vaxelis : 4-dose series (3dose primary series at age 2, 4, and 6 months, followed by a booster doser at age 12–15 months)
- "Vaxelis" is not recommended for use as a booster dose. A different Hib-containing vaccine should be used for the booster dose.
- PedvaxHIB: 3-dose series (2-dose primary series at age 2 and 4 months, followed by a booster dose at age 12-15 months:

Catch-up vaccination

- Dose 1 at age 7–11 months: Administer dose 2 at least 4 weeks later and dose 3 (final dose) at age 12–15 months or 8 weeks after dose 2 (whichever is later)
- Dose 1 at age 12–14 months; Administer dose 2 (final dose) at least 8 weeks after dose 1.
- Dose 1 before age 12 months and dose 2 before age 15 months: Administer dose 3 (final dose) at least 8 weeks after dose 2.
- 2 doses of PedvaxHIB® before age 12 months: Administer dose 3 (final dose) at age 12–59 months and at least 8 weeks after dose 2.
- 1 dose administered at age 15 months or older No further doses needed
- Unvaccinated at age 15–59 months: Administer 1 dose

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Special situations

- Revaccination is not generally recommended for persons with a normal immune status who were vaccinated as infants children, adolescents or adults.
- Post-vaccination serology testing and revaccination (if anti-HBs < 10mlU/mL) is recommended for certain populations including:
- Infants born to HBsAq-positive mother
- Persons who are predialysis or on maintenance dialysis
- Other immunocompromised persons.
- For detailed revaccination recommendations, see www.cd gov/vaccines/hcp-acip-ress/vacc-specific/hepb.html.

Note: Heplisay-B and PreHeybrio are not recommended in pregnancy due to lack of safety data in pregnant persons

Human papillomavirus vaccination (minimum age: 9 years)

Routine and catch-up vaccination

- HPV vaccination routinely recommended at age 11–12 years (can start at age 9 years) and catch-up HPV vaccination recommended for all persons through age 18 years if not adequately vaccinated
- 2- or 3-dose series depending on age at initial vaccination:
- Age 9–14 years at initial vaccination: 2-dose series at 0, 6–12 months (minimum interval: 5 months; repeat dose if administered too soon)
- Age 15 years or older at initial vaccination: 3-dose series at 0, 1–2 months, 6 months (minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 12 weeks / dose 1 to dose 3: 5 months; repeat dose if administered too soon)
- No additional dose recommended when any HPV vaccine series of any valency has been completed using recommended dosing intervals.

Special situations

- Immunocompromising conditions, including HIV Infection: 3-dose series, even for those who initiate vaccination at age 9 through 14 years.
- History of sexual abuse or assault: Start at age 9 years
- Pregnancy: Pregnancy testing not needed before vaccination; HPV vaccination not recommended until after pregnancy; no intervention needed if vaccinated while pregnant

Influenza vaccination

(minimum age: 6 months [IIV], 2 years [LAIV4], 18 years (recombinant influenza vaccine, RIV4])

Routine vaccination

- Use any influenza vaccine appropriate for age and health status annually:
- Age 6 months 8 years who have received fewer than 2 influenza vaccine doses before July 1, 2023, or whose influenza vaccination history is unknown: 2 doses, separated by at least 4 weeks. Administer dose 2 even if the child turns
- Age 6 months-8 years who have received at least 2 influenza vaccine closes before July 1, 2023; 1 close
- Age 9 years or older: 1 dos
- For the 2023-2024 season, see www.edc.gov/mmwr/ volumes/72/rr/rr202a1.htm.
- For the 2024–25 season, see the 2024–25 ACIP influenzal vaccine recommendations.

Special situation:

 Close contacts (e.g., household contacts) of severely immunosuppressed persons who require a protected environment: these persons should not receive LAIV4.
 If LAIV4 is given, they should avoid contact with for such.

special situation

- International trave
- Infants age 6-11 months: I dose before departure; revaccinate with 2-dose series at age 12-15 months (12 months for children in high-risk areas) and dose 2 as early as 4 weeks later.
- Unvaccinated children age 12 months or older:
 2-dose series at least 4 weeks apart before departure
- In mumps outbreak settings, for information about additional doses of MMR including 3rd dose of MMR), see
 www.cdc.gov/mmwi/volumes/67/wi/mm6701a7.htm

Meningococcal serogroup A,C,W,Y vaccination (minimum age: 2 months [MenACWY-CRM, Menveo], 2 years [MenACWY-TT, MenQuadfi]), 10 years MenACWY-TT/MenB-FHbp, Penbraya])

Routine vaccination

· 2-dose series at age 11-12 years: 16 years

Catch-up vaccination

- Age 13–15 years: 1 dose now and booster at age 16–18 years
 Indiging the real Reveals
- Age 16–18 years: 1 dose

special situations

Routine and catch-up vaccination

- No additional dose recommended when any HPV vaccine series of any valency has been completed using recommended dosing intervals.
 - Deleted bullet on interrupted HPV schedule
- The maximum age for use of MMRV is 12 years.
- Minimum interval between MMRV doses: 3 month

Fravel to countries with hyperendemic or epidemic neningococcal disease, including countries in the African neningitis belt or during the Hajj (www.cdc.gov/cravel/):

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Influenza vaccination

(minimum age: 6 months [IIV], 2 years [LAIV4], 18 years (recombinant influenza vaccine, RIV4))

Routine vaccination

- · Use any influenza vaccine appropriate for age and health status annually:
- Age 6 months 8 years who have received fewer than 2 influenza vaccine doses before July 1, 2023, or whose influenza vaccination history is unknown: 2 doses, separated additional doses of MMR (including 3rd dose of MMR), see by at least 4 weeks. Administer dose 2 even if the child turns 9 years between receipt of dose 1 and dose 2.
- Age 6 months-8 years who have received at least 2 influenza vaccine doses before July 1, 2023: 1 dose
- Age 9 years or older: 1 dose
- For the 2023-2024 season, see www.cdc.gov/mmwr/ volumes/72/rr/rr7202a1.htm.
- For the 2024–25 season, see the 2024–25 ACIP influenza vaccine recommendations.

Special situations

 Close contacts (e.g., household contacts) of severely immunosuppressed persons who require a protected environment: these persons should not receive LAIV4. If LAIV4 is given, they should avoid contact with for such mmunosuppressed persons for 7 days after vaccination

Note: Persons with an egg allergy can receive any influenza vaccine (egg-based and non-egg-based) appropriate for age and health status.

Added information for vaccinating persons with a history of egg allergy.

Recommended Child and Adolescent Immunization Schedule for ages 18 ye or younger, United States, 2024

Special situations

- Revaccination is not generally recommended for persons with a normal immune status who were vaccinated as infants children, adolescents, or adults.
- Post-vaccination serology testing and revaccination (if anti-HBs < 10mIU/mL) is recommended for certain populations, including:
- Infants born to HBsAq-positive mothers
- Persons who are predialysis or on maintenance dialysis
- Other immunocompromised person:
- For detailed revaccination recommendations, see www.cdc gov/vaccines/hcp/acip-recs/vacc-specific/hepb.html.

Note: Heplisay-B and PreHeybrio are not recommended in pregnancy due to lack of safety data in pregnant persons

Human papillomavirus vaccination (minimum age: 9 years)

Routine and catch-up vaccination

- HPV vaccination routinely recommended at age 11–12 years (can start at age 9 years) and catch-up HPV vaccination recommended for all persons through age 18 years if not adequately vaccinated
- 2- or 3-dose series depending on age at initial vaccination:
 Age 9-14 years at initial vaccination: 2-dose series at 0, 6-12 months (minimum interval: 5 months; repeat dose if
- Age 15 years or older at initial vaccination: 3-dose series at 0, 1–2 months, 6 months (minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 12 weeks / dose 1 to dos 3:5 months; repeat dose if administered too soon)
- No additional dose recommended when any HPV vaccine series of any valency has been completed using recommended dosing intervals.

Special situation

- Immunocompromising conditions, including HIV infection: 3-dose series, even for those who initiate vaccination at age 9 through 14 years.
- History of sexual abuse or assault: Start at age 9 years
- Pregnancy: Pregnancy testing not needed before vaccination; HPV vaccination not recommended until after pregnancy; no intervention needed if vaccinated while pregnant

Influenza vaccination

minimum age: 6 months [IIV], 2 years [LAIV4], 18 years (recombinant influenza vaccine, RIV4I)

Routine vaccination

- Use any influenza vaccine appropriate for age and healt status annually:
- Age 6 months—8 years who have received fewer than 2 influenza vaccine doses before July 1, 2023, or whose influenza vaccination history is unknown: 2 doses, sepan by at least 4 weeks. Administer dose 2 even if the child to 9 years between receipt of dose 1 and dose 2.
- Age 6 months 8 years who have received at least 2 influenza vaccine doses before July 1, 2023; 1 dose
- Age 9 years or older: 1 dos
- For the 2023-2024 season, see www.cdc.gov/mmwr/ volumes/72/rr/n7202a1.htm.
- For the 2024–25 season, see the 2024–25 ACIP influenza

Special situations

 Close contacts (e.g., household contacts) of severely immunosuppressed persons who require a protected environment: these persons should not receive LAIV4.
 If LAIV4 is given, they should avoid contact with for such immunosuppressed persons for 7 days after vaccination.

Note: Persons with an egg allergy can receive any influenza vaccine (egg-based and non-egg-based) appropriate for age

Measles, mumps, and rubella vaccination (minimum age: 12 months for routine vaccination)

Routine vaccination

- 2-dose series at age 12–15 months, age 4–6 years
- MMR or MMRV may be administered

Note: For dose 1 in children age 12–47 months, it is recommended to administer MMR and varicella vaccines separately. MMRV may be used if parents or caregivers express a preference.

Catch-up vaccination

- Unvaccinated children and adolescents: 2-dose series at least 4 weeks apart
- The maximum age for use of MMRV* is 12 years.

Special situations

- International travel
- Infants age 6–11 months: 1 dose before departure; revaccinate with 2-dose series at age 12–15 months (12 months for children in high-risk areas) and dose 2 as early as 4 weeks later*.
- Unvaccinated children age 12 months or older:
 2-dose series at least 4 weeks apart before departure*
- In mumps outbreak settings, for information about additional doses of MMR (including 3rd dose of MMR), see
 www.cdc.gov/mmwr/volumes/67/wr/mm6701a7.htm
- *Note: Minimum interval between MMRV doses is 3 months

'Note: it wiviky is used; the minimum interval petween VMRV doses is 3 months

Meningococcal serogroup A,C,W,Y vaccination (minimum age: 2 months [MenACWY-CRM, Menveo], 2 years [MenACWY-TT, MenQuadfi]), 10

Routine vaccination

2-dose series at age 11–12 years; 16 years

Catch-up vaccination

- Age 13–15 years: 1 dose now and booster at age 16–18 years minimum interval: 8 weeks)
- Age 16–18 years: 1 dose

Special situation

Anatomic or functional aspienia (including sickle cell disease), HIV infection, persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use:

+ Menveo

- Dose 1 at age 2 months: 4-dose series (additional 3 doses at age 4, 6, and 12 months)
- Dose 1 at age 3-6 months; 3- or 4-dose series (dose 2 [and dose 3 if applicable] at least 8 weeks after previous dose until a dose is received at age 7 months or older, followed by an additional dose at least 12 weeks later and after age 12 months)
- Dose 1 at age 7–23 months: 2-dose series (dose 2 at least 12 weeks after dose 1 and after age 12 months)
- Dose 1 at age 24 months or older: 2-dose series
- MenQuadf
 - Dose 1 at age 24 months or older: 2-dose series at least

Moved information on minimal doses between MMRV to clarify this also applies to Special situations.

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Special situations

- Revaccination is not generally recommended for persons with a normal immune status who were vaccinated as infants, children, adolescents, or adults
- Post-vaccination serology testing and revaccination (if anti-HBs < 10mIU/mL) is recommended for certain populations, including:
- Infants born to HBsAg-positive mother
- Persons who are predialysis or on maintenance dialys
- For detailed revaccination recomm

gov/vaccines/hcpracip-recs/vacc-Note: Heplisav-B and PreHevbrio are

Human papillomavirus vacci (minimum ace: 9 years)

Routing and catch up vaccin

- HPV vaccination routinely recommended at age 11-12 years (can start at age 9 years) and catch-up HPV vaccination recommended for all persons through age 18 years if not adequately vaccinated
- 2- or 3-dose series depending on age at initial vaccination.
 Age 9-14 years at initial vaccination: 2-dose series at 0, 6-12 months (minimum interval: 5 months, repeat dose if administered too scorn).
- Age 15 years or older at Initial vaccination: 3-dose series at 0, 1-2 months, 6 months (minimum intervals) dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 12 weeks / dose 1 to dos 3: 5 months; repeat dose if administered too soon)
- No additional dose recommended when any HPV vaccine series of any valency has been completed using recommended dosing intervals.

Special situation

- Immunocompromising conditions, including HIV Infection: 3-dose series, even for those who initiate vaccination at age 9 through 14 years.
- History of sexual abuse or assault: Start at age 9 years
- Pregnancy: Pregnancy resting not needed before vaccination; HPV vaccination not recommended until after pregnancy; no intervention needed if vaccinated while pregnant.

nfluenza vaccination

(minimum age: 6 months [IIV], 2 years [LAIV4], 18 years [recombinant influenza vaccine, RIV4]

Routine vaccination

- Use any influenza vaccine appropriate for age and health status annually
- Age 6 months-8 years who have received fewer than 2 influenza vaccine doses before July 1, 2023, or whose influenza vaccination history is unknown; 2 doses, separate by at least 4 weeks. Administer dose 2 even if the child turn;
- Deleted MenACWY-D (Menactra) recommendations from all sections.
- Added MenABCWY (Penbraya)

Special situations

Close contacts (e.g., household contacts) of severely immunosuppressed persons who require a protected environment: these persons should not receive LAIV4. If LAIV4 is given, they should avoid contact with for such manuposympressed persons for 7 days after vaccination.

Note: Persons with an egg allergy can receive any influenza vaccine legg-based and non-egg-based appropriate for age and health status.

Measies, mumps, and rubella vaccination (minimum age: 12 months for routine vaccination

Routine vaccination

- 2-dose series at age 12–15 months, age 4–6 years
- MMR or MMRV may be administered

Note: For dose 1 in children age 12–47 months, it is recommended to administer MMR and varicella vaccines separately. MMRV may be used if parents or caregivers express a preference.

Catch-up vacetnation

- Unvaccinated children and adolescents: 2-dose series at least 4 weeks apart
- The maximum age for use of MMRV is 12 years
- Minimum interval between MMRV doses: 3 month

Special situations

International trave

- Infants age 6–11 months: 1 dose before departure, revaccinate with 2-dose series at age 12–15 months (12 months for children in high-risk areas) and dose 2 as early as 4 weeks later
- Unvaccinated children age 12 months or older:
 2-dose series at least 4 weeks apart before departu
- In mumps outbreak settings, for information about additional doses of MMR (including 3rd dose of MMR), see

Meningococcal serogroup A,C,W,Y vaccination (minimum age: 2 months [MenACWY-CRM, Menveo], 2 years [MenACWY-TT, MenQuadfi]), 10 years [MenACWY-TT/MenB-FHbp, Penbraya])

Routine vaccination

2-dose series at age 11–12 years; 16 years

Catch-up vaccination

- Age 13–15 years: 1 dose now and booster at age 16–18 years (minimum interval: 8 weeks)
- Age 16-18 years: 1 dose

Special situations

Anatomic or functional asplenia (including sickle cell disease), HIV infection, persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use:

Menveo**

- Dose 1 at age 2 months: 4-dose series (additional 3 doses at age 4, 6, and 12 months)
- Dose 1 at age 3–6 months: 3- or 4-dose series (dose 2 [and dose 3 if applicable] at least 8 weeks after previous dose until a dose is received at age 7 months or older, followed by an additional dose at least 12 weeks later and after age 12 months)
- Dose 1 at age 7–23 months: 2-dose series (dose 2 at least 12 weeks after dose 1 and after age 12 months)
- Dose 1 at age 24 months or older: 2-dose series at least 8 weeks apart

MenQuadfi®

 Dose 1 at age 24 months or older: 2-dose series at least 8 weeks apart

Travel to countries with hyperendemic or epidemic meningococcal disease, including countries in the African meningitis belt or during the Hall (www.cdc.gov/travel/):

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

- Children less than age 24 months:
- Menveo®* (age 2-23 months)
- · Dose 1 at age 2 months: 4-dose series (additional 3 doses at age 4, 6, and 12 months)
- Dose 1 at age 3–6 months: 3- or 4-dose series (dose 2 [and dose 3 if applicable] at least 8 weeks after previous dose until a dose is received at age 7 months or older, followed by an additional dose at least 12 weeks later and after age 12 months)
- · Dose 1 at age 7–23 months: 2-dose series (dose 2 at least 12 weeks after dose 1 and after age 12 months)
- Children age 2 years or older: 1 dose Menveo** or MenOuadfi*

First-year college students who live in residential housing (if not previously vaccinated at age 16 years or older) or military recruits:

1 dose Menveo** or MenQuadfi*

Adolescent vaccination of children who received MenACW\
prior to age 10 years:

- Children for whom boosters are recommended because of an ongoing increased risk of meningococcal disease (e.g., those with complement component deficiency, HIV, or asplenia): Follow the booster schedule for persons at increased risk.
- Children for whom boosters are not recommended (e.g., a healthy child who received a single dose for travel to a country where meningococcal disease is endemic): Administer MenACWY according to the recommended adolescent schedule with dose 1 at age 11–12 years and dose 2 at age 16 years.
- *Menveo has two formulations: lyophilized and liquid. The liquid formulation should not be used before age 10 years. See www. cdc.gov/vaccines/vpd/mening/downloads/menveo-single-vial-presentation.pdf.

Note: For MenACWY booster dose recommendations for groups listed under "Special situations" and in an outbreak setting and additional meningococcal vaccination information, see www.cdc.qov/mmwr/volumes/69/rr/rr6909a1.htm.

Children age 10 years or older may receive a single dose of Penbraya™ as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya™ is preferred (see "Meningococcal serogroup B vaccination" section below for more information). Meningococcal serogroup B vaccination (minimum age: 10 years [Men8-4C, Bexsero* Men8-FHbp, Trumenba*])

Shared clinical decision-making

- Adolescents not at increased risk age 16–23 years (preferred age 16–18 years) based on shared clinical decision-makino
- Bexsero : 2-dose series at least 1 month apart
 Trumenba : 2-dose series at least 6 months apart (if dose 2 is administered earlier than 6 months, administer

Special situations

Anatomic or functional asplenia (including sickle cell disease), persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use

- Bexsero : 2-dose series at least 1 month apan
- Trumenba: 3-dose series at 0, 1–2, 8 months (if dose 2 was administered at least 6 months after dose 1, dose 3 not needed, if dose 3 is administered earlier than 4 months after dose 2, a 4** dose should be administered at least 4 months after dose 3)

Note: Bexsero and Trumenba are not interchangeable; the same product should be used for all doses in a series.

For MenB booster dose recommendations for groups listed under "Special situations" and in an outbreak setting and additional meningococcal vaccination information, see www.cdc.gov/mmwr/volumes/69/mm6999a.htm.

Children age 10 years or older may receive a dose of Penbrayal* as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbrayal* is preferred. If using Penbrayal* for dose 1 MenB, subsequent MenB doses must be either MenB-FHbp (Trumenba) or Penbrayal* (minimum interval between Penbrayal* doses: 6 months). Children age 10 years or older recommended to receive booster doses of MenACWY and MenB less than 6 months after a dose of Penbrayal* should receive MenACWY and MenB-FHbp

Mpox vaccination (minimum age: 18 years [Jynneos*

Special situations

 Age 18 years and at risk for Mpox infection: 2-dose series 28 days apart.

Risk factors for Mpox infection include:

- Persons who are gay, bisexual and other MSM, transgender or nonbinary people who in the past 6 months have had:
- At least 1 sexually transmitted disease
 - More than 1 sex partner.
 - Sex at a commercial sex venue.
- Sex in association with a large public event in a geographic area where Mpox transmission is occurring.
- Persons who are sexual contacts of the persons described above.
- Persons who anticipate experiencing any of the situation: described above;
- Persons deemed at risk by public health authorities in mpox outbreak settings.
- Pregnancy: There is currently no ACIP recommendation for Jynneos use in pregnancy due to lack of safety data in pregnant persons. Pregnant persons with any risk factor described above may receive lynneos.

For detailed information, see: www.cdc.gov/poxvirus/mpox/ Interim-considerations/lynneos-vaccine.html

Pneumococcal vaccination (minimum age: 6 weeks [PCV15], [PCV 20]; 2 year [PPSV23])

Routing varcination with PCV

4-dose series at 2, 4, 6, 12–15 months

Catch-up vaccination with PCV

- Healthy children ages 2–4 years with any incomplete.
 PCV series: 1 dose PCV
- For other catch-up guidance, see Table 2.

children who have or another age appropri

Added information for use of MenABCWY in children ages 10 years and older.

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Meningococcal serogroup B vaccination (minimum age: 10 years [MenB-4C, Bexsero*; MenB-FHbp, Trumenba*])

Shared clinical decision-making

- Adolescents not at increased risk age 16–23 years (preferred age 16–18 years) based on shared clinical decision-making:
- -Bexsero®: 2-dose series at least 1 month apart
- -Trumenba®: 2-dose series at least 6 months apart (if dose 2 is administered earlier than 6 months, administer a 3rd dose at least 4 months after dose 2)

For additional information on shared clinical decision-making for MenB, see https://www.cdc.gov/vaccines/hcp/admindownloads/isd-job-aid-scdm-mening-b-shared-clinicaldecision-making.pdf

Special situations

Anatomic or functional asplenia (including sickle cell disease), persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use:

- · Bexsero®: 2-dose series at least 1 month apart
- Trumenba®: 3-dose series at 0, 1–2, 6 months (if dose 2 was administered at least 6 months after dose 1, dose 3 not needed; if dose 3 is administered earlier than 4 months after dose 2, a 4th dose should be administered at least 4 months after dose 3)

Note: Bexsero® and Trumenba® are not interchangeable; the same product should be used for all doses in a series.

For MenB booster dose recommendations for groups listed under "Special situations" and in an outbreak setting and additional meningococcal vaccination information, see www.cdc.gov/mmwr/volumes/69/rt/rt6909a1.htm.

Children age 10 years or older may receive a dose of Penbraya™ as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya™ is preferred. If using Penbraya™ for dose 1 MenB, subsequent MenB doses must be either MenB-FHbp (Trumenba) or Penbraya™ (minimum interval between Penbraya™ doses: 6 months). Children age 10 years or older recommended to receive booster doses of MenACWY and MenB less than 6 months after a dose of Penbraya™ should receive MenACWY and MenB-FHbp (Trumenba) separately.

Added a link to more information on shared clinical decision-making for MenB vaccination

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

. Children less than age 24 months:

- Menyeo * (age 2-23 months)

 Dose 1 at age 2 months: 4-dose series (additional 3 doses a age 4, 6, and 12 months)

Dose 1 at age 3-6 months: 3- or 4-dose series (dose 2 [and dose 3 if applicable] at least 8 weeks after previous dose until a dose is received at age 7 months or older, followed by an additional dose at least 12 weeks later and after age 12 months)

Dose 1 at age 7–23 months: 2-dose series (dose 2 at least 12 weeks after dose 1 and after age 12 months)

 Children age 2 years or older: 1 dose Menveo** or MenQuadfi*

First-year college students who live in residential housing (if not previously vaccinated at age 16 years or older) or military recruits:

· Ldose Menyen - or MenQuadfi

Adolescent vaccination of children who received MenACW prior to age 10 years:

- Children for whom boosters are recommended because
 of an ongoing increased risk of meningococcal disease
 (e.g., those with complement component deficiency, HIV,
 or asplema): Follow the booster schedule for persons at
 increased risk.
- Children for whom boosters are not recommended (e.g., a healthy child who received a single dose for travel to a country where meningococcal disease is endemic): Administer MenACWY according to the recommended adolescent schedule with dose 1 at age 11–12 years and dose 2 at age 16 years.

*Menveo has two formulations: lyophilized and liquid. The liquid formulation should not be used before age 10 years, See www. cdc.gov/vaccines/vpd/menting/downloads/menveo-single-vial presentation.pdf.

Note: For MenACWY booster dose recommendations for groups listed under "Special situations" and in an outbreak setting and additional meningococcal vaccination informati see www.cdc.gov/mmwr/volumes/69/tr/rf6909a1.htm.

Children age 10 years or older may receive a single dose of Penbraya^M as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya is preferred (see "Meningococcal serogroup B vaccination" section below for more information). Meningococcal serogroup B vaccination (minimum age: 10 years [MenB-4C, Bexsero*; MenB-FHbp, Trumenba*])

Shared clinical decision-making

- Adolescents not at increased risk age 16–23 years (preferred age 16–18 years) based on shared clinical decision-making:
- -Bexsero®: 2-dose series at least 1 month apart
- **Trumenba®:** 2-dose series at least 6 months apart (if dose 2 is administered earlier than 6 months, administer a 3rd dose at least 4 months after dose 2)

Special situations

Anatomic or functional asplenia (including sickle cell disease), persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use:

- Bexsero*: 2-dose series at least 1 month apart
- Trumenba[®]: 3-dose series at 0, 1–2, 6 months (if dose 2 was administered at least 6 months after dose 1, dose 3 not needed; if dose 3 is administered earlier than 4 months after dose 2, a 4th dose should be administered at least 4 months after dose 3)

Note: Bexsero® and Trumenba® are not interchangeable; the same product should be used for all doses in a series.

For MenB **booster dose recommendations** for groups listed under "Special situations" and in an outbreak setting and additional meningococcal vaccination information, see www.rdc.gov/mmwr/volumes/69/tr/tr6909a1.htm.

Children age 10 years or older may receive a dose of Penbraya™ as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya™ is preferred. For age-eligible children not at increased risk, if Penbraya™ is used for dose 1 MenB, Trumenba should be administered for dose 2 MenB. For age-eligible children at increased risk of meningococcal disease, Penbraya™ may be used for additional MenACWY and MenB doses (including booster doses) if both vaccines would be given on the same clinic day and at least 6 months have elapsed since the most recent Penbraya™ dose. Children age 10 years or older recommended to receive booster doses of MenACWY and MenB less than 6 months after a dose of Penbraya™ should receive MenACWY and Trumenba separately.

Mpox vaccination minimum age: 18 years [Jynneos*]

Special situations

 Age 18 years and at risk for Mpox infection: 2-dose series 28 days apart.

Risk factors for Mpox infection include:

- Persons who are gay, bisexual and other MSM, transgender or nonbinary people who in the past 6 months have had:
- At least 1 sexually transmitted disease.

wore than I sex partner.

Sex at a commercial sex venue

- Sex in association with a large public event in a geographic area where Mpox transmission is occurring.
- Persons who are sexual contacts of the persons described above.
- Persons who anticipate experiencing any of the situations described above.
- Persons deemed at risk by public health authorities in mpox outbreak settings.
- Pregnancy: There is currently no ACIP recommendation for Jynneos use in pregnancy due to lack of safety data in pregnant persons. Pregnant persons with any risk factor described above may receive Jynneos.

For detailed information, see! www.cdc.gov/poxvirus/mpox/ interim-considerations/jynneos-vaccine.html

Pheumococcal vaccination (minimum age: 6 weeks [PCV15], [PCV 20]; 2 year (PPSV23})

Routin

Healthy PCV seri

Added information for use of MenABCWY in children ages 10 years and older.

Mote:

ndicated. PCV20 is not indicated for children who have eceived 4 doses of PCV13 or PCV15 or another age appropriat

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

* Children les:
- Menveo **
- Dose I at age 4, 6, a Dose I at jand dose dose until followed I and after Dose I at

Special situations

 Age 18 years and at risk for Mpox infection: 2-dose series, 28 days apart.
 Risk factors for Mpox infection include:

First-year of (if not prev military re-

I dose Menveo - or MenQuadfi

Adolescent vaccination of children who received MenACWY prior to age 10 years:

- Children for whom boosters are re of an ongoing increased risk of meni (e.g., those with complement compo or asplenia). Follow the booster sche increased risk.
- Children for whom boosters are notice g, a healthy child who received a situate of country where meningococcal disease is endemically administer MenACWY according to the recommended adolescent schedule with dose 1 at age 11–12 years and dose 1 at age 15 years.
- *Menveo has two formulations: lyophilized and liquid. The liquid formulation should not be used before age 10 years. See www.cdc.gov/vaccines/upd mening/downloads/menveo-single-wal-presentation.ndf

Note: For MenACWY booster dose recommendations for groups listed under "Special situations" and in an outbreak setting and additional meningococcal vaccination information, see www.cdc.gov/mmwr/volumes/69/m/rrs909a1/htm.

Children age 10 years or older may receive a single dose of Penbraya" as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya" is preferred (see "Meningococcal sengioup B vaccination" section below for more information). Bexsero : 2-dose series at least 1 month apart

Trumenba : 3-dose series at 0, 1–2, 6 months (if dose 2)

Added bullet on use of Jynneos in pregnant persons

additional meningococcal vaccination information, see www.cdc.gov/mmwr/volumes/69/rr/m6909a1.htm.

Children age 10 years or older may receive a dose of Penbraya" as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya" is preferred if using Penbraya" for dose 1 MenB, subsequent MenB doses must be either MenB-FHbp (Trumenba) or Penbraya" (inlinimum interval between Penbraya" doses: 6 months). Children age 10 years or older recommended to receive booster doses of MenACWY and MenB less than 6 months after a dose of Penbraya" should receive MenACWY and MenB-FHbp (Trumenba) separately.

Mpox vaccination (minimum age: 18 years [Jynneos*])

Special situations

Age 18 years and at risk for Mpox infection: 2-dose series,
 8 days apart.

Risk factors for Mpox infection include:

- Persons who are gay, bisexual, and other MSM, transgender or nonbinary people who in the past 6 months have had:
- · A new diagnosis of at least 1 sexually transmitted disease.
- More than 1 sex partner.
- · Sex at a commercial sex venue.
- \cdot Sex in association with a large public event in a geographic
- area where Mpox transmission is occurring.
- Persons who are sexual partners of the persons described above.
- Persons who anticipate experiencing any of the situations described above.
- Pregnancy: There is currently no ACIP recommendation for Jynneos use in pregnancy due to lack of safety data in pregnant persons. Pregnant persons with any risk factor described above may receive Jynneos.

For detailed information, see: https://www.cdc.gov/ vaccines/acip/meetings/downloads/ slides-2023-10-25-26/04-MPOX-Rao-508.pdf

Pneumococcal vaccination (minimum age: 6 weeks [PCV15], [PCV 20]; 2 year: [PPSV23])

Routine vaccination with PC\

4-dose series at 2, 4, 6, 12–15 months

Catch-up vaccination with PCV

- Healthy children ages 2–4 years with any incomplete*
- PCV series: 1 dose PCV
- For other catch-up guidance, see Table 2

Note: Either PCV15 or PCV20 can be used when PCV is indicated. PCV20 is not indicated for children who have received 4 doses of PCV13 or PCV15 or another age appropriate complete PCV series.

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

- . Children less than age 24 months
- Menveo * (age 2-23 months)
- Dose 1, at age 2 months: 4-dose series (additional 3 doses at age 4, 6, and 12 months)
- Dose 1 at age 3-6 months: 3- or 4-dose series idose 2 [and dose 3 if applicable] at least 8 weeks after previous dose until a dose is received at age 7 months or older, followed by an additional dose at least 12 weeks later and after age 12 months:
- Dose 1 at age 7–23 months: 2-dose series (dose 2 at least 12 weeks after dose 1 and after age 12 months)
- Children age 2 years or older: 1 dose Menveo? or MenQuadfi?

First-year college students who live in residential housing (if not previously vaccinated at age 16 years or older) or military recruits:

I dose Menveo → or MenQuadfi

Adolescent vaccination of children who received MenACW prior to age 10 years:

- Children for whom boosters are recommended because of an ongoing increased risk of meningococcal disease (e.g., those with complement component deficiency, HIV, or asplenial: Follow the booster schedule for persons at increased risk.
- Children for whom boosters are not recommended (e.g., a healthy child who received a single dose for travel to a country where meningococcal disease is endemic.) Administer Men ACWY according to the recommended adolescent schedule with dose 1 at age 11–12 years and dose 2 at age 16 years.
- *Menveo has two formulations: lyophilized and liquid. The liquid formulation should not be used before age 10 years. See www. cdc.gov.vaccines.vpd. mening.downloads: menveo-single-vialpresentation.pdf.

Note: For MenACWY booster dose recommendations for groups listed under "Special situations" and in an outbreak setting and additional meningococcal vaccination informatio see www.cdc.gov/mmwr/volumes/69/mr/r6909a1 htm.

Children age 10 years or older may receive a single dose of Penbraya" as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya" is preferred (see "Meningococcal serogroup B vaccination" section below for more information). Meningococcal serogroup B vaccination (minimum age: 10 years [MenB-4C, Bexsero* MenB-FHbp, Trumenba*])

Shared clinical decision-making

- Adolescents not at Increased risk age 16–23 years preferred age 16–18 years) based on shared Llinical decision-making
- Bexsero : 2-dose series at least 1 month apart
- Trumenba: 2-dose series at least 6 months apart (if dose 2 is administered earlier than 6 months, administer)
 All dose at least 4 months after dose 3

Special situations

Anatomic or functional asplenia (including sickle cell disease), persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use:

- Bexsero : 2-dose series at least 1 month apart
- Trumenbar: 3-dose series at 0, 1–2, 6 months (if dose 2)
 was administered at least 6 months after dose 1, dose 3
 not needed; if dose 3 is administered earlier than 4 months
 after dose 2, a 4" dose should be administered at least
 4 months after dose 3)

Note: Bexsero and Trumenba are not interchangeable; the same product should be used for all doses in a series.

For MenB booster dose recommendations for groups listed under "Special situations" and in an outbreak settling and additional meningococcal vaccination information, see www.cdc.gov:mmwww.volumesv69/rr/n6909a1.htm.

Children age 10 years or older may receive a dose of Penbraya as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day, and a single injection with Penbraya" is preferred. If using Penbraya" for dose 1 MenB, subsequent MenB doses must be either MenB-FHbp (Trumenba) or Penbraya" (minimum interval between Penbraya" doses: 6 months). Children age 10 years or older recommended to receive booster doses of MenACWY and MenB less than 6 months after a dose of Penbraya" should receive MenACWY and MenB-FHbp. (Trumenba) separately.

Mpox vaccination (minimum age: 18 years [lynneos*]

Special situation

 Age 18 years and at risk for Mpox infection: 2-dose series 28 days apart

Risk factors for Moox infection include

- Persons who are gay, bisexual and other MSM, transgender or nonbinary people who in the past 6 months have had:
- At least 1 sexually transmitted disease.
- More than I sex partner
- Sex at a commercial sex venue
- Sex in association with a large public event in a geographic area where Mpox transmission is occurring.
- Persons who are sexual contacts of the persons described above.
- Persons who anticipate experiencing any of the situations described above.
- Persons deemed at risk by public health authorities in mpox outbreak settings.
- Pregnancy: There is currently no ACIP recommendation for Jynneos use in pregnancy due to lack of safety data in pregnant persons. Pregnant persons with any risk factor described above may receive Jynneos.

For detailed information, see: www.cdc.gov/poxylrus/mpox/ interim-considerations/typneos-vaccine html

Pneumococcal vaccination (minimum age: 6 weeks [PCV15], [PCV 20]; 2 years [PPSV23])

Routine vaccination with PCV

· 4-dose series at 2, 4, 6, 12-15 months

Catch-up vaccination with PCV

- Healthy children ages 2–4 years with any incomplete*
 PCV series: 1 dose PCV
- For other catch-up guidance, see Table 2.

Note: Either PCV15 or PCV20 can be used when PCV is indicated. PCV20 is not indicated for children who have received 4 doses of PCV13 or PCV15 or another age appropriate complete PCV series.

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Special situations

Children and adolescents with cerebrospinal fluid leak; chronic heart disease; chronic kidney disease (excluding maintenance dialysis and nephrotic syndrome); chronic liver disease; chronic lung disease (including moderate persistent or severe persistent asthma); cochlear implant or diabetes mellitus:

Age 2-5 years

- . Any incomplete* PCV series with:
- 3 PCV doses: 1 dose PCV (at least 8 weeks after the most recent PCV dose)
- Less than 3 PCV doses: 2 doses PCV (at least 8 weeks after the most recent dose and administered at least 8 weeks apart)
- Completed recommended PCV series but have not received PPSV23
- Previously received at least 1 dose of PCV20: no further PCV or PPSV23 doses needed
- Not previously received PCV20: administer 1 dose PCV20 OR 1 dose PPSV23 administer at least 8 weeks after the most recent PCV dose.

Age 6-18 years

- Not previously received any dose of PCV13, PCV15, or PCV20: administer 1 dose of PCV15 or PCV20. If PCV15 is used and no previous receipt of PPSV23, administer 1 dose of PPSV23 at least 8 weeks after the PCV15 dose.**
- Received PCV before age 6 years but have not received PPSV23
- Previously received at least 1 dose of PCV20: no further PCV or PPSV23 doses needed
- Not previously received PCV20: administer 1 dose PCV20 OR 1 dose PPSV23 administer at least 8 weeks after the most recent PCV dose.
- Received PCV13 only at or after age 6 years: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV13 dose.
- Received 1 dose PCV13 and 1 dose PPSV23 at or after age 6 years: no further doses of any PCV or PPSV23 indicated.

Children and adolescents on maintenance dialysis, or with immunocompromising conditions such as nephrotic syndrome; congenital or acquired asplenia or splenic dysfunction; congenital or acquired immunodeficiencies; diseases and conditions treated with immunosuppressive drugs or radiation therapy, including malignant neoplasms, leukemias, lymphomas, Hodgkin disease, and solid organ transplant; HIV infection; or sickle cell disease or other hemoglobinopathies:

Aye

Added the following medical conditions

- Chronic kidney disease (excluding maintenance dialysis and nephrotic syndrome)
- Chronic liver disease
 - Chronic lung disease (including moderate persistent or severe persistent asthma)

2 PPSV23 at least 5 years after dose 1 PPSV23.

Age 6-18 years

- Not previously received any dose of PCV13, PCV15, or PCV20: administer 1 dose of PCV15 or 1 dose of PCV20. If PCV15 is used and no previous receipt of PPSV23, administer 1 dose of PPSV23 at least 8 weeks after the PCV15 dose.**
- Received PCV before age 6 years but have not received PPSV23
- Previously received at least 1 dose of PCV20: no additional dose of PCV or PPSV23
- Not previously received PCV20: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV dose. If PPSV23 is used, administer either PCV20 or dose 2 PPSV23 at least 5 years after dose 1 PPSV23.
- Received PCV13 only at or after age 6 years: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV13 dose. If PPSV23 is used, administer 1 dose of PCV20 or dose 2 PPSV23 at least 5 years after dose 1 PPSV23.
- Received 1 dose PCV13 and 1 dose PPSV23 at or after age 6 years: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV13 dose and at least 5 years after dose 1 PPSV23.
- *Incomplete series = Not having received all doses in either the recommended series or an age-appropriate catch-up series. See Table 2 in ACIP pneumococcal recommendations at stacks.cdc.qov/view/cdc/133252
- **When both PCV15 and PPSV23 are indicated, administer all doses of PCV15 first. PCV15 and PPSV23 should not be administered during the same visit.

For guidance on determining which pneumococcal vaccines a patient needs and when, please refer to the mobile app, which can be downloaded here: www.cdc.gov/vaccines/vpd/ pneumo/hcp/pneumoapp.html nly for travel to a polio-endemic region

acted or incompletely vaccinated: administer g doses (1, 2, or 3 IPV doses) to complete a 3-dose eries.* Unless there are specific reasons to believe e not vaccinated, most persons aged 18 years or n and raised in the United States can assume they

taining oral poliovirus vaccine (OPV), either mixed OPV-only series

iber of doses needed to complete the series is the hat recommended for the U.S. IPV schedule. See gov/mmwr/volumes/66/wr/mm660 la6.htm?s_9-20

ent OPV (tOPV) counts toward the

f OPV administered before April 1, 2016, be counted (unless specifically noted as

FOPV administered on or after April 1, 2016, not be counted.

lance to assess doses documented as "OPV," see ic gov/mmwi/volumes/66/wi/mm6606a7.htm?s 16606a7.wi

catch-up guidance, see Table 2.

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Catch-up vaccination

Added information for persons age 18 years known or suspected to be unvaccinated or incompletely vaccinated.

Special situations

Revised to include recommendations for persons age 18 years at increased risk of exposure to poliovirus and have completed the primary series.

Poliovirus vaccination (minimum age: 6 weeks)

Routine vaccination

- 4-dose series at ages 2, 4, 6–18 months, 4–6 years; administer the final dose on or after age 4 years and at least 6 months after the previous dose.
- 4 or more doses of IPV can be administered before age 4 years when a combination vaccine containing IPV is used. However, a dose is still recommended on or after age 4 years and at least 6 months after the previous dose.

Catch-up vaccination

- In the first 6 months of life, use minimum ages and intervals only for travel to a polio-endemic region or during an outbreak.
- Adolescents aged 18 years known or suspected to be unvaccinated or incompletely vaccinated: administer remaining doses (1, 2, or 3 IPV doses) to complete a 3-dose primary series.* Unless there are specific reasons to believe they were not vaccinated, most persons aged 18 years or older born and raised in the United States can assume they were vaccinated against polio as children.

Series containing oral policylrus vaccine (OPV), either mixed OPV-IPV or OPV-only series:

- Total number of doses needed to complete the series is the same as that recommended for the U.S. IPV schedule. See www.cdc.gov/mmwr/volumes/66/wr/mm6601a6.htm?s %20 cid=mm6601a6_w.
- Only trivalent OPV (tOPV) counts toward the U.S. vaccination requirements.
- Doses of OPV administered before April 1, 2016. should be counted (unless specifically noted as administered during a campaign).
- Doses of OPV administered on or after April 1, 2016, should not be counted.
- For guidance to assess doses documented as "OPV," see www.cdc.gov/mmwr/volumes/66/wr/mm6606a7.htm?s_ cid=mm6606a7_w.
- For other catch-up quidance, see Table 2.

Special situations

- Adolescents aged 18 years at increased risk of exposure to poliovirus and completed primary series*: may administer one lifetime IPV booster
- *Note: Complete primary series consist of at least 3 doses of IPV or trivalent oral poliovirus vaccine (tOPV) in any combination.

For detailed information, see: www.cdc.gov/vaccines/vpd/ polio/hcp/recommendations.html

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Respiratory syncytial virus immunization (minimum age: birth [Nirsevimab, RSV-mAb (Beyfortus™)

Routine immunization

- Infants born October March in most of the continental United States
- Mother did not receive RSV vaccine OR mother's RSV vaccination status is unknown: administer 1 dose nirsevimab within 1 week of birth in hospital or outpatient setting
- Mother received RSV vaccine less than 14 days prior to delivery: administer 1 dose nirsevimab within 1 week of birth in hospital or outpatient setting
- Mother received RSV vaccine at least 14 days prior to delivery: nirsevimab not needed but can be considered in rare circumstances at the discretion of healthcare providers (see special populations and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-faqs.html)
- Infants born April

 September in most of the continental United States*
- Mother did not receive RSV vaccine OR mother's RSV vaccination status is unknown: administer 1 dose nirsevimab shortly before start of RSV season*
- Mother received RSV vaccine less than 14 days prior to delivery: administer 1 dose nirsevimab shortly before start of RSV season*
- Mother received RSV vaccine at least 14 days prior to delivery: nirsevimab not needed but can be considered in rare circumstances at the discretion of healthcare providers(see special populations and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-fags.html)

Infants with prolonged birth hospitalization** (e.g., for prematurity) discharged October through March should be immunized shortly before or promptly after discharge.

Special situations

- Ages 8–19 months with chronic lung disease of prematurity requiring medical support (e.g., chronic corticosteroid therapy, diuretic therapy, or supplemental oxygen) any time during the 6-month period before the start of the second RSV season; severe the final dose on or after age 4 years and at least 6 months immunocompromise; cystic fibrosis with either weight for length <10th percentile or manifestation of severe lung disease (e.g., previous hospitalization for pulmonar) when a combination vaccine containing IPV is used. However, exacerbation in the first year of life or abnormalities on chest imaging that persist when stable)**:
- 1 dose nirsevimab shortly before start of second RSV
- Ages 8–19 months who are American Indian or Alaska
- 1 dose nirsevimab shortly before start of second RSV
- Age-eligible and undergoing cardiac surgery with cardiopulmonary bypass**: 1 additional dose of nirsevimab primary series.* Unless there are specific reasons to believe after surgery. For additional details see special populations they were not vaccinated, most persons aged 18 years or and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-
- *Note: While the timing of the onset and duration of RSV season may vary, nirsevimab may be administered October through March in most of the continental United States. Providers in jurisdictions with RSV seasonality that differs from same as that recommended for the U.S. IPV schedule. See most of the continental United States (e.g., Alaska, jurisdiction with tropical climate) should follow guidance from public health authorities (e.g., CDC, health departments) or regional medical centers on timing of administration based on local RSV seasonality. Although optimal timing of administration is just before the start of the RSV season, nirsevimab may also be administered during the RSV season to infants and children who are age-eligible.
- **Note: Nirsevimab can be administered to children who are eligible to receive palivizumab. Children who have received nirsevimab should not receive palivizumab for the same RSV

For further guidance, see www.cdc.gov/mmwr/volumes/72/ wr/mm7234a4.htm and www.cdc.gov/vaccines/vpd/rsv/hcp/ child-fags.html

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Respiratory syncytial virus immunization (minimum age: birth [Nirsevimab, RSV-mAb (Beyfortus™)

Routine immunization

- Infants born October March in most of the continental United States
- Mother did not receive RSV vaccine OR mother's RSV vaccination status is unknown: administer 1 dose nirsevimab within 1 week of birth in hospital or outpatient setting
- Mother received RSV vaccine less than 14 days prior to delivery: administer 1 dose nirsevimab within 1 week of birth in hospital or outpatient setting
- Mother received RSV vaccine at least 14 days prior to delivery: nirsevimab not needed but can be considered in rare circumstances at the discretion of healthcare providers (see special populations and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-faqs.html)
- Infants born April

 September in most of the continental United States*
- Mother did not receive RSV vaccine OR mother's RSV vaccination status is unknown: administer 1 dose nirsevimab shortly before start of RSV season*
- Mother received RSV vaccine less than 14 days prior to delivery: administer 1 dose nirsevimab shortly before start of RSV season*
- Mother received RSV vaccine at least 14 days prior to delivery: nirsevimab not needed but can be considered in rare circumstances at the discretion of healthcare providers(see special populations and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-fags.html)

Infants with prolonged birth hospitalization** (e.g., for prematurity) discharged October through March should be immunized shortly before or promptly after discharge.

Special situations

- Ages 8–19 months with chronic lung disease of prematurity requiring medical support (e.g., chronic corticosteroid therapy, diuretic therapy, or supplemental oxygen) any time during the 6-month period before the start of the second RSV season; severe the final dose on or after age 4 years and at least 6 months immunocompromise; cystic fibrosis with either weight for length <10th percentile or manifestation of severe lung disease (e.g., previous hospitalization for pulmonar) when a combination vaccine containing IPV is used. However, exacerbation in the first year of life or abnormalities on chest imaging that persist when stable)**:
- 1 dose nirsevimab shortly before start of second RSV
- Ages 8–19 months who are American Indian or Alaska
- 1 dose nirsevimab shortly before start of second RSV
- Age-eligible and undergoing cardiac surgery with cardiopulmonary bypass**: 1 additional dose of nirsevimal: primary series. Unless there are specific reasons to believe after surgery. For additional details see special populations they were not vaccinated, most persons aged 48 years or and situations at www.cdc.gov/vaccines/vpd/rsv/hcp/child-
- *Note: While the timing of the onset and duration of RSV season may vary, nirsevimab may be administered October through March in most of the continental United States. Providers in jurisdictions with RSV seasonality that differs from most of the continental United States (e.g., Alaska, jurisdiction with tropical climate) should follow guidance from public health authorities (e.g., CDC, health departments) or regional medical centers on timing of administration based on local RSV seasonality. Although optimal timing of administration is just before the start of the RSV season, nirsevimab may also be administered during the RSV season to infants and children who are age-eligible.
- **Note: Nirsevimab can be administered to children who are eligible to receive palivizumab. Children who have received nirsevimab should not receive palivizumab for the same RSV

For further guidance, see www.cdc.gov/mmwr/volumes/72/ wr/mm7234a4.htm and www.cdc.gov/vaccines/vpd/rsv/he child-fags.html

- Added note on timing of nirsevimab administration.
- Added note on use of nirsevimab in children who have received palivizumab.

Added link to nirsevimab frequently asked questions webpage

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Special situations

Children and adolescents with cerebrospinal fluid leak; chronic heart disease; chronic kidney disease (excluding maintenance dialysis and nephrotic syndrome); chronic liver disease; chronic lung disease (including moderate persistent or severe persistent asthma); cochlear implant; or diabetes mellitus:

Age 2-5 years

- Any incomplete* PCV series with
- 3 PCV doses: 1 dose PCV (at least 8 weeks after the most recent PCV dose)
- Less than 3 PCV doses: 2 doses PCV (at least 8 weeks after the most recent dose and administered at least 8 weeks apart)
- Completed recommended PCV series but have not received pps/23
- Previously received at least 1 dose of PCV20: no further PCV or PPSV23 doses needed
- Not previously received PCV20: administer 1 dose PCV20 OF 1 dose PPSV23 administer at least 8 weeks after the most recent PCV dose

Age 6-18 years

- Not previously received any dose of PCV13, PCV15, or PCV20: administer 1 dose of PCV15 or PCV20. If PCV15 is used and no previous receipt of PPSV23, administer 1 dose of PPSV23 at least 8 weeks after the PCV15 dose.**
- Received PCV before age 6 years but have not received ppsv23
- Previously received at least 1 dose of PCV20; no further PCV or PPSV23 doses needed
- Not previously received PCV20: administer 1 dose PCV20 OR 1 dose PP5V23 administer at least 8 weeks after the most recent PCV dose.
- Received PCV13 only at or after age 6 years: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV13 dose
- Received 1 dose PCV13 and 1 dose PPSV23 at or after age 6 years no further doses of any PCV or PPSV23 indicated

Children and adolescents on maintenance dialysis, or with Immunocompromising conditions such as nephrotic syndrome; congenital or acquired asplenia or splenic dysfunction; congenital or acquired immunodeficiencies; diseases and conditions treated with Immunosuppressive drugs or radiation therapy, including malignant neoplasms, leukemias, lymphomas, Hodgkin disease, and solid organ transplant; HIV infection; or sickle cell disease or other hemoglobinopathies:

Age 2-5 years

- Anv incomplete* PCV series
- 3 PCV doses: 1 dose PCV (at least 8 weeks after the most recent PCV dose)
- Less than 3 PCV doses: 2 doses PCV (at least 8 weeks after the most recent dose and administered at least 8 weeks apart).
- Completed recommended PCV series but have not received PPSV23
- Previously received at least 1 dose of PCV20: no further PCV or PPSV23 doses needed
- Not previously received PCV20: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV dose. If PPSV23 is used, administer 1 dose of PCV20 or dose 2 PPSV33 at least 5 years after dose 1 PPSV33.

Age 6-18 year

- Not previously received any dose of PCV13, PCV15, or PCV20, administer 1 dose of PCV15 or 1 dose of PCV20, If PCV15 is used and no previous receipt of PPSV23, administer 1 dose of PPSV23 at least 8 weeks after the PCV15 dose.**
- Received PCV before age 6 years but have not received PPSV23
- Previously received at least 1 dose of PCV20: no additional dose of PCV or PPSV23
- Not previously received PCV20: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV dose. If PPSV23 is used, administer either PCV20 or dose 2 PPSV23 at least 5 years after dose 1 PPSV23.
- Received PCV13 only at or after age 6 years: administer 1 idose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV13 dose. If PPSV23 is used, administer 1 idose of PCV20 or dose 2 PPSV23 at least 5 years after dose 1 PPSV23.
- Received 1 dose PCV13 and 1 dose PPSV23 at or after age 6 years: administer 1 dose PCV20 OR 1 dose PPSV23 at least 8 weeks after the most recent PCV13 dose and at least 5 years after dose 1 PPSV23.
- *Incomplete series = Not having received all doses in either the recommended series or an age-appropriate catch-up series. See Table 2 in ACIP pneumococcal recommendations at setable and report between 183853.
- "When both PCV15 and PPSV23 are indicated, administer all doses of PCV15 first. PCV15 and PPSV23 should not be administered during the same visit.
- For guidance on determining which pneumococcal vaccines a patient needs and when, please refer to the mobile app, which can be downloaded here: www.cdc.gov/vaccines/vpdpneumo-hcb/pneumoapp.html

Respiratory syncytial virus vaccination (RSV [Abrysvo™])

Routine vaccination

- Pregnant at 32-36 weeks gestation from September through January In most of the continental United States*: 1 dose RSV vaccine (Abrysvo**). Administer RSV vaccine regardless of previous RSV infection.
- Either maternal RSV vaccination or infant immunization with nirsevimab (RSV monoclonal antibody) is recommended to prevent respiratory syncytial virus lower respiratory tract infection in infants.
- · All other pregnant persons: RSV vaccine not recommended.

There is currently no ACIP recommendation for RSV vaccination in subsequent pregnancies. No data are available to inform whether additional doses are needed in later pregnancies.

*Note: Providers in jurisdictions with RSV seasonality that differs from most of the continental United States (e.g., Alaska, jurisdiction with tropical climate) should follow guidance from public health authorities (e.g., CDC, health departments) or regional medical centers on timing of administration based on local RSV seasonality.

OPV-IPV or OPV-only series

- Total number of doses needed to complete the series is the same as that recommended for the U.S. IPV schedule. See www.cdc.gov/mmwi/volumes/66/wr/mm6601a6.htm?s_%20/ cid=mm6601a6_w.
- Only trivalent OPV (tOPV) counts toward the U.S. vaccination requirements.
- Doses of OPV administered before April 1, 2016 should be counted (unless specifically noted as administered during a campaign).
- Doses of OPV administered on or after April 1, 2016, should not be counted.
- -For guidance to assess doses documented as "OPV," see www.cdc.gov/mmwi/volumes/66/wr/mm6606a7.htm?s_ cid=mm6606a7.w.
- For other catch-up guidance, see Table 2

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States, 2024

Tetanus, diphtheria, and pertussis (Tdap) vaccination

(minimum age: 11 years for routine vaccination, 7 years for catch-up vaccination)

Routine vaccination

- Age 11–12 years: 1 dose Tdap (adolescent booster)
- Pregnancy: 1 dose Tdap during each pregnancy, preferably in early part of gestational weeks 27–36.

Note: Tdap may be administered regardless of the interval since the last tetanus- and diphtheria-toxoid-containing vaccine.

Catch-up vaccination

- Age 13–18 years who have not received Tdap: 1 dose Tdap (adolescent booster)
- Age 7-18 years not fully vaccinated with DTaP: 1 dose Tdap as part of the catch-up series (preferably the first dose); if additional doses are needed, use Td or Tdap.
- Tdap administered at age 7-10 years:
- Age 7–9 years who receive Tdap should receive the adolescent Tdap booster dose at age 11–12 years.
- -Age 10 years who receive Tdap do not need the adolescent Tdap booster dose at age 11–12 years.
- DTaP inadvertently administered on or after age 7 years:
- Age 7-9 years: DTaP may count as part of catch-up series.
 Administer adolescent Tdap booster dose at age 11–12 years.
- Age 10–18 years: Count dose of DTaP as the adolescent Tdap booster dose.
- For other catch-up guidance, see Table 2.

Special situations

- Wound management in persons age 7 years or older with history of 3 or more doses of tetanus-toxoid-containing vaccine: For clean and minor wounds, administer Tdap or Td if more than 10 years since last dose of tetanus-toxoidcontaining vaccine; for all other wounds, administer Tdap or Td if more than 5 years since last dose of tetanus-toxoidcontaining vaccine. Tdap is preferred for persons age 11 years or older who have not previously received Tdap or whose Tdap history is unknown. If a tetanus-toxoid-containing vaccine is indicated for a pregnant adolescent, use Tdap.
- For detailed information, see www.cdc.gov/mmwr/ volumes/69/wr/mm6903a5.htm.
- *Fully vaccinated = 5 valid doses of DTaP OR 4 valid doses of DTaP if dose 4 was administered at age 4 years or older

Varicella vaccination (minimum age: 12 months

Routine vaccination

- 2-dose series at age 12-15 months: 4-6 years
- VAR or MMRV may be administered:
- Dose 2 may be administered as early as 3 months after dose 1 (a dose inadvertently administered after at least 4 weeks may be counted as valid).
- *Note: For dose 1 in children age 12-47 months, it is recommended to administer MMR and varicella vaccines separately. MMRV may be used if parents or caregivers express a preference.

Catch-up vaccination

- Ensure persons age 7–18 years without evidence of immunity (see MMWR at www.cdc.gov/mmwr/pdf/m/m5604.pdf)
 have a 2-doce series:
- -Age 7-12 years: Routine interval. 3 months
- (a dose inadvertently administered after at least
- 4 weeks may be counted as valid)
- Age 13 years and older: Routine Interval: 4-8 weeks
- (minimum interval: 4 weeks)
- The maximum age for use of MMRV is 12 years

Contraindications and Precautions

Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States

Guide to Contraindications and Precautions to Commonly Used Vaccines

Adapted from Table 4-1 in Advisory Committee on Immunization Practices (ACIP) General Best Practice Guidelines for Immunization: Contraindication and Precautions, Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices—United States, 2023–24 Influenza Season | MMWR (cdc.gov), Contraindications and Precautions for COVID-19 Vaccination, and Contraindications and

Vaccines and other Immunizing Agents	Contraindicated or Not Recommended ¹	Precautions ²
COVID-19 (mRNA vaccines [Pfizer-BioNTech, Moderna])	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of an mRNA COVID-19 vaccine⁴ 	Diagnosed non-severe allergy (e.g., urticaria beyond the injection site) to a component of an mRNA COVID-19 vaccine ⁴ ; or non-severe, immediate (onset less than 4 hours) allergic reaction after administration of a previous dose of an mRNA COVID-19 vaccine Myocarditis or pericarditis within 3 weeks after a dose of any COVID-19 vaccine Multisystem inflammatory syndrome in children (MIS-C) or multisystem inflammatory syndrome in adults (MIS-A) Moderate or severe acute illness, with or without fever
COVID-19 (protein subunit vaccine [Novavax])	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of a Novavax COVID-19 vaccine ⁴	Diagnosed non-severe allergy (e.g., urticaria beyond the injection site) to a component of Novavac COVID-19 vaccine ⁵ , or non-severe, immediate (onset less than 4 hours) allergic reaction after administration of a previous dose of a Novavax COVID-19 vaccine Myocarditis or pericarditis within 3 weeks after a dose of any COVID-19 vaccine Multisystem inflammatory syndrome in children (MIS-C) or multisystem inflammatory syndrome in adults (MIS-A) Moderate or severe acute illness, with or without fever
Influenza, egg-based, inactivated injectable (IIV4)	Severe allergic reaction (e.g., anaphylaxis) after previous dose of any influenza vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV of any valency) Severe allergic reaction (e.g., anaphylaxis) to any vaccine component ³ (excluding egg)	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Moderate or severe acute illness with or without fever
Influenza, cell culture-based inactivated injectable [(ccIIV4), Flucelvax* Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) to any ccllV of any valency, or to any component ³ of ccllV4	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Persons with a history of severe allergic reaction (e.g., anaphylaxis) after a previous dose of any egg-based IIV, RIV, or LAIV of any valency. If using ccIV4, administer in medical setting under supervision of health care provider who can recognize and manage severe allergic reactions. May consult an allergist. Moderate or severe acute illness with or without fever
Influenza, recombinant injectable [(RIV4), Flublok® Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) to any RIV of any valency, or to any component ³ of RIV4	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Persons with a history of severe allergic reaction (e.g., anaphylaxis) after a previous dose of any egg-based IIV, ccIIV, or LAIV of any valency. If using RIV4, administer in medical setting under supervision of health care provider who can recognize and manage severe allergic reactions. May consult an allergist. Moderate or severe acute illness with or without fever
Influenza, live attenuated [LAIV4, Flumist* Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) after previous dose of any influenza vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV of any valency) Severe allergic reaction (e.g., anaphylaxis) to any vaccine component³ (excluding egg) Children age 2 - 4 years with a history of asthma or wheezing Anatomic or functional asplenia Immunocompromised due to any cause including, but not limited to, medications and HIV infection Close contacts or caregivers of severely immunosuppressed persons who require a protected environment Pregnancy Cochlear implant Active communication between the cerebrospinal fluid (CSF) and the oropharynx, nasopharynx, nose, ear or any other cranial CSF leak Children and adolescents receiving aspirin or salicylate-containing medications Received influenza antiviral medications oseltamivir or zanamivir within the previous 48 hours, peramivir within the previous 5 days, or baloxavir within the previous 17 days	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Asthma in persons aged 5 years old or older Persons with underlying medical conditions (other than those listed under contraindications) that might predispose to complications after wild-type influenza virus infection [e.g., chronic pulmonary, cardiovascular (except isolated hypertension), renal, hepatic, neurologic, hematologic, or metabolic disorders (including diabetes mellitus) Moderate or severe acute illness with or without fever

- 1. When a contraindication is present, a vaccine should NOT be administered. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization.
- 2. When a precaution is present, vaccination should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for an adverse reaction. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization.

 3. Vaccination providers should check FDA-approved prescribing information for the most complete and updated information, including contraindications, warnings, and precautions. See Package inserts for U.S.-licensed vaccines.

 4. See package inserts and FDA EUA fact sheets for a full list of vaccine ingredients. mRNA COVID-19 vaccines contain polyethylene glycol (PEG).



Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States

Guide to Contraindications and Precautions to Commonly Used Vaccines

Adapted from Table 4-1 in Advisory Committee on Immunization Practices (ACIP) General Best Practice Guidelines for Immunization: Contraindication and Precautions, Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices—United States, 2023–24 Influenza Season | MMWR (cdc.gov), Contraindications and Precautions for COVID-19 Vaccination, and Contraindications and Procautions for IVNNEOS Vaccination

Vaccines and other Immunizing Agents	Contraindicated or Not Recommended ¹	Precautions ²
COVID-19 (mRNA vaccines [Pfizer-BioNTech, Moderna])	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of an mRNA COVID-19 vaccine ⁴	Diagnosed non-severe allergy (e.g., urticaria beyond the injection site) to a component of an mRNA COVID-19 vaccine ⁴ ; or non-severe, immediate (onset less than 4 hours) allergic reaction after administration of a previous dose of an mRNA COVID-19 vaccine Myocarditis or pericarditis within 3 weeks after a dose of any COVID-19 vaccine Multisystem inflammatory syndrome in children (MIS-C) or multisystem inflammatory syndrome in adults (MIS-A) Moderate or severe acute illness, with or without fever
COVID-19 (protein subunit vaccine [Novavax])	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of a Novavax COVID-19 vaccine ⁴	Diagnosed non-severe allergy (e.g., urticaria beyond the injection site) to a component of Novavax COVID-19 vaccinet ⁴ ; or non-severe, immediate (onset less than 4 hours) allergic reaction after administration of a previous dose of a Novavax COVID-19 vaccine Myocarditis or pericarditis within 3 weeks after a dose of any COVID-19 vaccine Multisystem inflammatory syndrome in children (MIS-C) or multisystem inflammatory syndrome in adults (MIS-A) Moderate or severe acute illness, with or without fever
Influenza, egg-based, inactivated injectable (IIV4)	Severe allergic reaction (e.g., anaphylaxis) after previous dose of any influenza vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV of any valency) Severe allergic reaction (e.g., anaphylaxis) to any vaccine component ³ (excluding egg)	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Moderate or severe acute illness with or without fever
Influenza, cell culture-based inactivated injectable [(ccllV4), Flucelvax* Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) to any ccllV of any valency, or to any component ³ of ccllV4	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Persons with a history of severe allergic reaction (e.g., anaphylaxis) after a previous dose of any egg-based IIV, RIV, or LAIV of any valency. If using ccIV4, administer in medical setting under supervision of health care provider who can recognize and manage severe allergic reactions. May consult an allergist. Moderate or severe acute illness with or without fever
Influenza, recombinant injectable [(RIV4), Flublok® Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) to any RIV of any valency, or to any component ³ of RIV4	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Persons with a history of severe allergic reaction (e.g., anaphylaxis) after a previous dose of any egg-based IIV, ccIIV, or LAIV of any valency. If using RIV4, administer in medical setting under supervision of health care provider who can recognize and manage severe allergic reactions. May consult an allergist. Moderate or severe acute illness with or without fever
Influenza, live attenuated [LAIV4, Flumist* Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) after previous dose of any influenza vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV of any valency) Severe allergic reaction (e.g., anaphylaxis) to any vaccine component³ (excluding egg) Children age 2 –4 years with a history of asthma or wheezing Anatomic or functional asplenia Immunocompromised due to any cause including, but not limited to, medications and HIV infection Close contacts or caregivers of severely immunosuppressed persons who require a protected environment Pregnancy Cochlear implant Active communication between the cerebrospinal fluid (CSF) and the oropharynx, nasopharynx, nose, ear or any other cranial CSF leak Children and adolescents receiving aspirin or salicylate-containing medications Received influenza antiviral medications oselatamivir or zanamivir within the previous 48 hours, peramivir within the previous 5 days, or baloxavir within the previous 17 days	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Asthma in persons agued 5 years old or older Persons with underlying medical conditions (other than those listed under contraindications) that might predispose to complications after wild-type influenza virus infection [e.g., chronic pulmonary, cardiovascular (except isolated hypertension), renal, hepatic, neurologic, hematologic, or metabolic disorders (including diabetes mellitus)] Moderate or severe acute illness with or without fever

- 1. When a contraindication is present, a vaccine should NOT be administered. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization.
- 2. When a precaution is present, vaccination should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for an adverse reaction. Kroger A, Bahta L, Hunter P. ACIP General Best
- Practice Guidelines for Immunization.

 3. Vaccination providers should check FDA-approved prescribing information for the most complete and updated information, including contraindications, warnings, and precautions. See Package inserts for U.S.-licensed vaccines.

 4. See package inserts and FDA EUA fact sheets for a full list of vaccine ingredients. mRNA COVID-19 vaccines contain polyethylene glycol (PEG).



Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States

Guide to Contraindications and Precautions to Commonly Used Vaccines

Adapted from Table 4-1 in Advisory Committee on Immunization Practices (ACIP) General Best Practice Guidelines for Immunization: Contraindication and Precautions, Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices—United States, 2023–24 Influenza Season | MMWR (cdc.gov), Contraindications and Precautions for COVID-19 Vaccination, and Contraindications and Precautions for JYNNEOS Vaccination

Vaccines and other Immunizing Agents	Contraindicated or Not Recommended ¹	Precautions ²
COVID-19 (mRNA vaccines [Pfizer-BioNTech, Moderna])	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a component of an mRNA COVID-19 vaccine ⁴	Diagnosed non-severe allergy (e.g., urticaria beyond the injection site) to a component of an mRNA COVID-19 vaccine ⁴ ; or non-severe, immediate (onset less than 4 hours) allergic reaction after administration of a previous dose of an mRNA COVID-19 vaccine Myocarditis or pericarditis within 3 weeks after a dose of any COVID-19 vaccine Multisystem inflammatory syndrome in children (MIS-C) or multisystem inflammatory syndrome in adults (MIS-A) Moderate or severe acute illness, with or without fever
(COVID-19 (protein subunit vaccine (Novavax))	Severe aliergic reaction (e.g., anaphylaxis) after a previous dose or to a component or a Novavax COVID-19 vaccine ⁴	Diagnosed non-severe allergy (e.g., urricana beyond the Injection site) to a component of Novavax COVID-19 vaccine ⁴ , or non-severe, immediate (onset less than 4 hours) allergic reaction after administration of a previous dose of a Novavax COVID-19 vaccine Myocarditis or pericarditis within 3 weeks after a dose of any COVID-19 vaccine Multisystem inflammatory syndrome in children (MIS-C) or multisystem inflammatory syndrome in adults (MIS-A) Moderate or severe acute illness, with or without fever
Influenza, egg-based, inactivated injectable (IIV4)	Severe allergic reaction (e.g., anaphylaxis) after previous dose of any influenza vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV of any valency) Severe allergic reaction (e.g., anaphylaxis) to any vaccine component ³ (excluding egg)	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Moderate or severe acute illness with or without fever
Influenza, cell culture-based inactivated injectable [(ccllV4), Flucelvax* Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) to any ccllV of any valency, or to any component ³ of ccllV4	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Persons with a history of severe allergic reaction (e.g., anaphylaxis) after a previous dose of any egg-based IIV, RIV, or LAIV of any valency. If using ccIV4, administer in medical setting under supervision of health care provider who can recognize and manage severe allergic reactions. May consult an allergist. Moderate or severe acute illness with or without fever
Influenza, recombinant injectable [(RIV4), Flublok [®] Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) to any RIV of any valency, or to any component ³ of RIV4	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Persons with a history of severe allergic reaction (e.g., anaphylaxis) after a previous dose of any egg-based IIV, ccIIV, or LAIV of any valency. If using RIV4, administer in medical setting under supervision of health care provider who can recognize and manage severe allergic reactions. May consult an allergist. Moderate or severe acute illness with or without fever
Influenza, live attenuated [LAIV4, Flumist* Quadrivalent]	Severe allergic reaction (e.g., anaphylaxis) after previous dose of any influenza vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV of any valency) Severe allergic reaction (e.g., anaphylaxis) to any vaccine component³ (excluding egg) Children age 2 – 4 years with a history of asthma or wheezing Anatomic or functional asplenia Immunocompromised due to any cause including, but not limited to, medications and HIV infection Close contacts or caregivers of severely immunosuppressed persons who require a protected environment Pregnancy Cochlear implant Active communication between the cerebrospinal fluid (CSF) and the oropharynx, nasopharynx, nose, ear or any other cranial CSF leak Children and adolescents receiving aspirin or salicylate-containing medications Received influenza antiviral medications oseltamivir or zanamivir within the previous 48 hours, peramivir within the previous 5 days, or baloxavir within the previous 17 days	Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of any type of influenza vaccine Asthma in persons aged 5 years old or older Persons with underlying medical conditions (other than those listed under contraindications) that might predispose to complications after wild-type influenza virus infection [e.g., chronic pulmonary, cardiovascular (except isolated hypertension), renal, hepatic, neurologic, hematologic, or metabolic disorders (including diabetes mellitus)] Moderate or severe acute illness with or without fever

- 1. When a contraindication is present, a vaccine should NOT be administered. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization.
- 2. When a precaution is present, vaccination should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for an adverse reaction. Kroger A, Bahta L, Hunter P. ACIP General Best
- Practice Guidelines for Immunization.

 3. Vaccination providers should check FDA-approved prescribing information for the most complete and updated information, including contraindications, warnings, and precautions. See Package inserts for U.S.-licensed vaccines.

 4. See package inserts and FDA EUA fact sheets for a full list of vaccine ingredients. mRNA COVID-19 vaccines contain polyethylene glycol (PEG).

Vaccines and other Immunizing Agents	Contraindicated or Not Recommended ¹	Precautions ²
Dengue (DEN4CYD)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component¹ Severe immunodeficiency (e.g., hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised) Lack of laboratory confirmation of a previous Dengue infection 	Pregnancy HIV infection without evidence of severe immunosuppression Moderate or severe acute illness with or without fever
Diphtheria, tetanus, pertussis (DTaP)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ For DTaP only-Encephalopathy (e.g., orma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP or DTaP 	 Guillain-Barré syndrome (GBS) within 6 weeks after previous dose of tetanus-toxoid-containing vaccine History of Arthus-type hypersensitivity reactions after a previous dose of diphthenia-toxoid-containing or tetanus-toxoid-containing vaccine defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid-containing vaccine For DTaP only: Progressive neurologic disorder, including infantile spasms, uncontrolled epilepsy, progressive encephalopathy, defer DTaP until neurologic status clarified and stabilized Moderate or severe acute lilness with or writhout fever
Haemophilus influenzae type b (Hib)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Less than age 6 weeks	Moderate or severe acute illness with or without fever
Hepatitis A (HepA)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ including neomycin 	Moderate or severe acute illness with or without fever
Hepatitis B (HepB)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component^a including yeast Pregnancy: Replica-Band PteHeybrio are not recommended due to lack of safety data in pregnant persons. Use other hepatitis B vaccines if HepB is indicated. 	Moderate or severe acute illness with or without fever
Hepatitis A-Hepatitis B vaccine [HepA- HepB, (Twinrix*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a including neomycin and yeast	Moderate or severe acute illness with or without fever
Human papillomavirus (HPV)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ Pregnancy: HPV vaccination not recommended. 	Moderate or severe acute illness with or without fever
Measles, mumps, rubella (MMR) Measles, mumps, rubella, and varicella (MMRV)	Sewere allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Sewere immunodeficiency (e.g., hematologic and solid tumors, neceipt of themotherapy, congenital immunodeficiency, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocomporomised) Pregnancy Family history of altered immunocompetence, unless verified clinically or by laboratory testing as immunocompetent	Recent (<11 months) receipt of antibody-containing blood product (specific interval depends on produc History of thrombocytopenia or thrombocytopenic purpura. Need for tuberculin skin testing or interferon-gamma release assay (IGRA) testing Moderate or severe acute lines with or without fever For MMRV only: Personal or family (i.e., sibling or parent) history of seizures of any etiology
Meningococcal ACWY (MenACWY) [MenACWY-CRM (Menveo*); MenACWY- TT (MenQuadfi*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a For Men ACWY-CRM only: severe allergic reaction to any diphtheria toxoid-or CRM197—ontaining vaccine For MenACWY-TI only: severe allergic reaction to a tetanus toxoid-containing vaccine	For MenACWY-CRM only: Preterm birth if less than age 9 months Moderate or severe acute illness with or without fever
Meningococcal B (MenB) [MenB-4C (Bexsero*); MenB-FHbp (Trumenba*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy For Ment8-4C only: Latex sensitivity Moderate or severe acute illness with or without fever
Mpox (JYNNEOS)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	 Simultaneous administration of mpox vaccine with COVID-19 vaccine (due to a hypothetical increased ris for myocarditis/pericarditis following vaccination). Moderate or severe acute filness, with or without fever
Pneumococcal conjugate (PCV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Severe allergic reaction (e.g., anaphylaxis) to any diphtheria-toxoid-containing vaccine or its component ^a	Moderate or severe acute illness with or without fever
Pneumococcal polysaccharide (PPSV23)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness with or without fever
Poliovirus vaccine, inactivated (IPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy Moderate or severe acute illness with or without fever
RSV monoclonal antibody (RSV-mAb)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component⁵ 	Moderate or severe acute illness with or without fever
Respiratory syncytial virus vaccine (RSV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness with or without fever
коtavirus (кv) [кvт (кotarix*), RV5 (RotaTeq*)]	Severe altergic reaction (e.g., anaphytaxis) after a previous dose or to a vaccine component Severe combined immunodeficiency (SCID) History of intussusception	- Autered Immunocompetence other than SCU - Chronic qastorinestinal diseases - RVI only. Spina bifida or bladder extrophy - Moderate or severe acute lines with or without fever
Tetanus, diphtheria, and acellular pertussis (Tdap) Tetanus, diphtheria (Td)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ For Tdap only Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP, DTaP, or Tdap 	 Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of tetanus-toxoid-containing vaccin. History of Arthus-type hypersensibityly reactions after a previous dose of diphtheria-toxoid-containing vaccine; defer vaccination until at least 10 years have elapsed since the fast tetanus-toxoid-containing vaccine. For Idap only: Progressive or unstable neurological disorder, uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized. Moderate or severe acute illness with or without fever
Varicella (VAR)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Severe immunodeficiency (e.g., hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised) Pregnancy Family history of altered immunocompetence, unless verified clinically or by laboratory testing as immunocompetent	Recent (s11 months) receipt of antibody-containing blood product (specific interval depends on produc Receipt of specific antiviral drugs lacyclovir, famicilovir, or valacyclovir) 24 hours before vaccination (avoi use of these antiviral drugs of 14 days after vaccination) Use of aspirin or aspirin-containing products Moderate or severe acute lines with or without fever If using MMRV, see MMR/MMRV for additional precautions

^{1.} When a contraindication is present, a vaccine should NOT be administered. Knoger A Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/hcp/acip-recs/general-recs/contraindications.html

2. When a precaution is present, vaccination should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for an adverse reaction. Knoger A Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/hcp/acip-recs/general-recs/contraindications.html

3. Vaccination providers should check FDA-approved prescribing information for the most complete and updated information, including contraindications, warnings, and precautions. Package inserts for U.S.-licensed vaccines are available at www.fda.gov/vaccines-blood-biologics/approved-products/vaccines-licensed-use-united-states.

4. For information on the pregnancy exposure registries for persons who were inadvertently vaccinated with Heplisav-B or PreHevbrio while pregnant, please visit heplisavbpregnancyregistry.com/ or www.prehevbrio.com/#safety.

5. Full prescribing information for BEYFORTUS (nirsevimab-alip) www.accessdata.fda.gov/drugsatfda_docs/label/2023/761328s000lbl.pdf

Vaccines and other Immunizing Agents	Contraindicated or Not Recommended ¹	Precautions ²
Dengue (DEN4CYD)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³. Severe immunodéficiency (e.g., hematologic and solid tumon, necesity of chemotheragy, congenital immunodeficiency, long-term immunosuppressive therapy or patients with HV infection who are severely immunocompromised). Lack of laboratory confirmation of a previous Designe infection. 	Pregnancy HIV Infection without evidence of severe immunosuppression Moderate or severe acute illness with or without fever
Diphtheria, tetanus, pertussis (DTaP)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component* For DTaP only: Encephalogathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP or DTaP	 Guillain-Barré syndrome (GBS) within 6 weeks after previous dose of tetanus-toxoid-containing vaccine. History of Arthus-type hypersensitivity reactions after a previous dose of diphrheria-toxoid-containing or tetanus-toxoid-containing vaccine dere vaccination until al teat 10 years have elapsed since the last tetanus-toxoid-containing vaccine. For DTaP only Progressive neurologic disorder, including infantile spasms, uncontrolled epilepsy, progressive encephalopathy, defer DTaP until neurologic status clarified and stabilized. Moderate or severe acute lilines with or without fewer
Haemophilus influenzae type b (Hib)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Less than age 6 weeks	Moderate or severe acute illness with or without fever
Hepatitis A (HepA)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a including neomycin	Moderate or severe acute illness with or without fever
Hepatitis B (HepB)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component¹ including yeast Pregnancy: Replace B and Pethevbrio are not recommended due to lock of safety data in pregnant persons. Use other hepatitis B vaccines if HepB is indicated. 	Moderate or severe acute illness with or without fever
Hepatitis A-Hepatitis B vaccine [HepA- HepB, (Twinrix*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ including neomycin and yeast	Moderate or severe acute illness with or without fever
Human papillomavirus (HPV)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ Pregnancy: HPV vaccination not recommended. 	Moderate or severe acute illness with or without fever
Measles, mumps, rubella (MMR) Measles, mumps, rubella, and varicella (MMRV)	Sewere allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ¹ Sewere immunodeficiency (e.g., henatologic and solid tumors, necepit of chemotherapy, congenital immunodeficiency (ong-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised. Pregnancy - Family history of altered immunocompetence, unless werified clinically or by laboratory testing as immunocompetent - Family history of altered immunocompetence.	Recent (<1) I month) receipt of antibody containing blood product (specific interval depends on product) History of thrombocytopenia or thrombocytopenia or thrombocytopenia or Need for tuberculin skin testing or interferon-gamma release assay (IGRA) testing Moderate or severe acute illness with or without field. Hoderate or severe acute illness with or without feet For MMRV only-Personal or family (i.e., sibling or parent) history of seizures of any etiology
Meningococcal ACWY (MenACWY) [MenACWY-CRM (Menveo"); MenACWY- TT (MenQuadfi")]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ For Men ACWY-CRM only: severe allergic reaction to any diphtheria toxicid-or CRMI97-containing vaccine For MenACW-TI only: severe allergic reaction to a tetaius toxoid-containing vaccine	For MenACWY-CRM only: Preterm birth if less than age 9 months Moderate or severe acute illness with or without fever
Meningococcal B (MenB) [MenB-4C (Bexsero*);	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy For Men8-4C only: Latex sensitivity
Meningococcal ABCWY (MenABCWY) [(MenACWT-TT/MenB-FHbp)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component¹ Severe allergic reaction to a tetanus toxoid-containing vaccine 	Moderate or severe acute illness with or without fever
Mpox (JYNNEOS)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ¹	 Simultaneous administration of mpox vaccine with COVID-19 vaccine (due to a hypothetical increased risl for myocardist/pericardist following vaccination) Moderate or severe acute illense, with or without fever
Pneumococcal conjugate (PCV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Severe allergic reaction (e.g., anaphylaxis) to any diphtheria-toxoid-containing vaccine or its component ^a	Moderate or severe acute illness with or without fever
Pneumococcal polysaccharide (PPSV23)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component¹ 	Moderate or severe acute illness with or without fever
Poliovirus vaccine, inactivated (IPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy Moderate or severe acute illness with or without fever
RSV monoclonal antibody (RSV-mAb)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ⁶	Moderate or severe acute illness with or without fever
Respiratory syncytial virus vaccine (RSV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness with or without fever
Rotavirus (RV) [RV1 (Rotarix*), RV5 (RotaTeq*)]	Sewer allergic reaction (e.g., anaphylaxid) after a previous dose or to a vaccine component* Sewere combined immunodeficiency (SCID) History of intussusception	Altered immunocompetence other than SCID Chronic gastrionitestinal diseases RVI only. Spina bifida or bladder extrophy Moderate or severe acute illines with or without fever
Tetanus, diphtheria, and acellular pertussis (Tdap) Tetanus, diphtheria (Td)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component* For Tdap only: Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP, DTaP, or Tdap 	 Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of tetanus-toxoid-containing vaccine. History of Arthus-type hypersensitivity reactions after a previous dose of diphtheria-toxoid-containing or tetanus-toxoid-containing vaccine. For Idag only: Toyans have depreved and tetanus-toxoid-containing vaccine. For Idag only: Progressive or unstable neurological disorder, uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized. Moderate or severe acute illness with or without they.
Varicella (VAR)	Severe allergic reaction (e.g., anaphylaxid) after a previous dose or to a vaccine component ¹ . Severe immunodeficiency (e.g., hematologic and old tumon, receipt of chemotherapy, congenital immunodeficiency), long-term immunosuppressive therapy or patients with HIV infections who are severely immunocompromised. Prognancy - Prognancy - Framily history of altered immunocompretence, unless verified clinically or by laboratory testing as immunocompetent.	Recent (s11 months) receipt of antibody-containing blood product (specific interval depends on product Receipt of specific antihinid drugs (scylori, famicidovir, or valexyclovir) 24 hours before vaccination (avoic use of these antihinid drugs (scylori, famicidovir, or valexy dependent). Use of aspirin or aspirin-containing products Moderate or severe actue filmers with or variation of the valexy dependent of valexy dependent of the v

^{1.} When a contraindication is present, a vaccine should NOT be administered. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/hcp/acip-recs/general-recs/contraindications.html

2. When a precaution is present, vaccination should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for an adverse reaction. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/hcp/acip-recs/general-recs/contraindications.html

3. Vaccination providers should check [PDA approved pressibling information for the most complete and updated information, including contraindications, warnings, and precautions. Package inserts for U.S.-licensed vaccines are available at www.fda.gov/vaccines-blood-biologics/approved-productivaccines-blood-biologics/approved-productivaccines-blood-biologics/approved productivaccines-blood-biologics/approved productivaccines-blood-biologics/approved-biologics/approved-biologics/approved-biologics/a

Vaccines and other Immunizing Agents	Contraindicated or Not Recommended ¹	Precautions ²
Dengue (DEN4CYD)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ¹ Severe immunodeficiency (e.g., hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised) Lack of laboratory confirmation of a previous Dengue infection.	Pregnancy HIV infection without evidence of severe immunosuppression Moderate or severe acute illness with or without fever
Diphtheria, tetanus, pertussis (DTaP)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component? For DTaP only: Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP or DTaP	 Guillain-Barré syndrome (GBS) within 6 weeks after previous dose of tetanus-toxoid-containing vaccine. History of Arthus-type hypersensitivity reactions after a previous dose of diphthenia-toxoid-containing or tetanus-toxoid-containing vaccine. For Dara Only: Progressive neurologic disorder, including infantile spasms, uncontrolled epilepsy, progressive encephalopathy, defer DIPar until neurologic status clarified and stabilized. Moderate or severe acute lines with or without fever.
Haemophilus influenzae type b (Hib)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Less than age 6 weeks	Moderate or severe acute illness with or without fever
Hepatitis A (HepA)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component¹ including neomycin	Moderate or severe acute illness with or without fever
Hepatitis B (HepB)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ including yeast Pregnancy: Replace Band Pelvebrio are not recommended due to lack of safety data in pregnant persons. Use other hepatitis B vaccines if HepB is indicated. 	Moderate or severe acute illness with or without fever
Hepatitis A-Hepatitis B vaccine [HepA- HepB, (Twinrix*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component* including neomycin and yeast	Moderate or severe acute illness with or without fever
Human papillomavirus (HPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Pregnancy: HPV vaccination not recommended.	Moderate or severe acute illness with or without fever
Measles, mumps, rubella (MMR) Measles, mumps, rubella, and varicella (MMRV)	Sewere allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component? Sewere immunodeficiency (e.g., henatologic, and solid tumons, receipt of chemotherapy, congenital immunodeficiency), long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised! Pregnancy - Family history of altered immunocompetence, unless verified clinically or by laboratory testing as immunocompetent	Recent (<11 months) receipt of antibody-containing blood product (specific interval depends on product History of thrombocytope-inc or thrombocytopenic purpure Need for tuberculin skin testing or interferon-gamma release assay (IGRA) testing Moderate or severe acute liliness with or without fever For MMRV only: Personal or family (i.e., sibling or parent) history of seizures of any etiology
Meningococcal ACWY (MenACWY) MenACWY-CRM (Menveo*); MenACWY- IT (MenQuadfi*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ For Men ACMY-CRM only: severe allergic reaction to any diphthesia toxicid- or CRMI97-containing vaccine For MenACW-TI only: severe allergic reaction to a tetralus toxicid- containing vaccine	For MenACWY-CRM only: Preterm birth if less than age 9 months Moderate or severe acute illness with or without fever
Meningococcal B (MenB) [MenB-4C (Bexsero*); MenB-FHbp (Trumenba*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy For MenB-4C only-Latex sensitivity Moderate or severe acute illness with or without fever
Mpox (JYNNEOS)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness, with or without fever
Pneumococcal conjugate (PCV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Severe allergic reaction (e.g., anaphylaxis) to any diphtheria-toxoid-containing vaccine or its component ^a	Moderate or severe acute illness with or without fever
Pneumococcal polysaccharide (PPSV23)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness with or without fever
Poliovirus vaccine, inactivated (IPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy Moderate or severe acute illness with or without fever
RSV monoclonal antibody (RSV-mAb)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^s	Moderate or severe acute illness with or without fever
Respiratory syncytial virus vaccine (RSV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness with or without fever
Rotavirus (RV) [RV1 (Rotarix*), RV5 (RotaTeq*)]	Sewere allergic reaction (e.g., anaphylasis) after a previous dose or to a vaccine component ³ Sewere combined immunodeficiency (SCID) History of intussusception	Altered immunocompetence other than SCID Chronic gastroinestinal diseases RVI only. Spina bifida or bladder estrophy Moderate or severe acute lilness with or without fever
Tetanus, diphtheria, and acellular pertussis (Tdap) Tetanus, diphtheria (Td)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ For Tdap only: Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP, DTaP, or Tdap	 Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of tetanus-toxoid-containing vaccine. History of Arthus-type hypersensitivity reactions after a previous dose of dightheria-toxoid-containing or tetanus-toxoid-containing vaccine; defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid-containing vaccine. For Tidgo only! Progressive or unstable neurological disorder, uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized. Moderate or severe acute illness with or without fever.
Varicella (VAR)	Sewere allergic reaction (e.g., anaphylaxis) after a previous dose or to a vascine component ³ Sewere immunodeficiency (e.g., hematologic and solid tumons, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised) Pregnancy Family history of altered immunocompetence, unless verified clinically or by laboratory testing as immunocompetent.	Recent (s.11 months) receipt of antibody-containing blood product (specific interval depends on product Receipt of specific antiviral drugs (sacydovir, framicolovir, or valacyclovir) 24 hours before vaccination (avoid use of these antiviral drugs for 14 days after vaccination) Use of aspirin or aspirin-containing products Moderate or severe acute illness with or writhout fever If using MMRV, see MMR/MMRV for additional precautions www.cd.cqu/vaccines/hpc/acip-recs/general-recs/contraindications.html

^{1.} When a contraindication is present, a vaccine should NOT be administered. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/hcp/acip-recx/general-recx/contraindications.html
2. When a precaution is present, vaccination should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for an adverse reaction. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/projecy-alprecx/general-recx/contraindications.html
3. Vaccination provides should check FDA-approved prescribing information for the most complete and updated information, including contraindications, warnings, and precautions. Package inserts for U.S.-licensed vaccines/iscensed-use-united-states.
4. For information on the pregnancy exposure registries for persons who were inadventerely vaccines-licensing information for the EPFORTUS (initiverwinab-align) www.accessdata.fda.gov/drugsaffda_docx/label/20/37/613285000lbl.pdf

Vaccines and other Immunizing Agents	Contraindicated or Not Recommended ¹	Precautions ²
Dengue (DEN4CYD)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ Severe immunodeficiency (e.g., hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficiency, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised) Lack of laboratory confirmation of a previous Denoue infection	Pregnancy HIV infection without evidence of severe immunosuppression Moderate or severe acute illness with or without fever
Diphtheria, tetanus, pertussis (DTaP)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ For DTaP only: Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP or DTaP	 Guillain-Barré syndrome (GBS) within 6 weeks after previous dose of tetanus-toxoid-containing vaccine History of Arrhus-type hypersensitivity reactions after a previous dose of diphtheria-toxoid-containing or tetanus-toxoid-containing vaccine, defler vaccination until at least 10 years have elapsed since the last tetanus-toxoid-containing vaccine - For DTaF only Progressive neurologic disorder, including infantile spasms, uncontrolled epilepsy, progressive encephalopathy, defer DTaF until neurologic status clarified and stabilized - Moderate or severe acute fliness with or without fever
Haemophilus influenzae type b (Hib)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ Less than one 6 weeks	Moderate or severe acute illness with or without fever
Hepatitis A (HepA)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a including neomycin	Moderate or severe acute illness with or without fever
Hepatitis B (HepB)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component² including yeast Pregnancy: Hepisav-B and PreHevbrio are not recommended due to lack of safety data in pregnant persons. Use other hepatitis B vaccines if Hepi B indicated; 	Moderate or severe acute illness with or without fever
Hepatitis A-Hepatitis B vaccine [HepA- HepB, (Twinrix*)]	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component¹ including neomycin and yeast 	Moderate or severe acute illness with or without fever
Human papillomavirus (HPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Pregnancy: HPV vaccination not recommended.	Moderate or severe acute illness with or without fever
Measles, mumps, rubella (MMR) Measles, mumps, rubella, and varicella (MMRV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ² Severe immunodeficiency (e.g., hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficency, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised) Pregnancy Family history of altered immunocompetence unless verified clinically or by laboratory testing as immunocompetent.	Recent (s11 months) receipt of antibody-containing blood product (specific interval depends on product) History of thrombocytopenia or thrombocytopenic purpura Need for tuberculin skin testing or interferior-gamma release assay (IGRA) testing Moderate or severe acute illness with or without fever For MMRV only: Personal or family (i.e., sibling or parent) history of seizures of any etiology
Meningococcal ACWY (MenACWY) [MenACWY-CRM (Menveo*); MenACWY- TT (MenOuadfi*)]	Severe allergic reaction (e.g., anaphytaxis) after a previous dose or to a vaccine component ³ For Men ACWY-CRN only: severe allergic reaction to any diphtheria toxoid-or CRN 197-containing vaccine For Men ACWY-TT only: severe allergic reaction to a tetranus toxoid-containing vaccine	For MenACWY-CRM only: Preterm birth if less than age 9 months Moderate or severe acute illness with or without fever
Meningococcal B (MenB) [MenB-4C (Bexsero*); MenB-FHbp (Trumenba*)]	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy For MenB-4C only: Latex sensitivity Moderate or severe acute illness with or without fever
Mpox (JYNNEOS)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	 Simultaneous administration of mpox vaccine with COVID-19 vaccine (due to a hypothetical increased risk for myocarditis/pericarditis following vaccination) Moderate or severe acute fillness, with or without fever
Pneumococcal conjugate (PCV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a Severe allergic reaction (e.g., anaphylaxis) to any diphtheria-toxoid-containing vaccine or its component ^a	Moderate or severe acute illness with or without fever
Pneumococcal polysaccharide (PPSV23)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness with or without fever
Poliovirus vaccine, inactivated (IPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Pregnancy Moderate or severe acute illness with or without fever
RSV monoclonal antibody (RSV-mAb)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component^s 	Moderate or severe acute illness with or without fever
Respiratory syncytial virus vaccine (RSV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ^a	Moderate or severe acute illness with or without fever
Rotavirus (RV) [RV1 (Rotarix*), RV5 (RotaTeq*)]	Sewere allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ Sewere combined immunodeficiency (SCID) History of intussusception	Altered immunocompetence other than SCID Chronic gastorinestinal disease RV1 only: Spina blfida or bladder extrophy Moderate or severe acute illness with or without fever
Tetanus, diphtheria, and acellular pertussis (Tdap) Tetanus, diphtheria (Td)	Severe allergic reaction (e.g., anaphytaxis) after a previous dose or to a vaccine component ³ For Idap only: Encephalopathy (e.g., coma, decreased level of consciousness, prolonged seizures) not attributable to another identifiable cause within 7 days of administration of previous dose of DTP, DTaP, or Tdap	 Guillain-Barré syndrome (GBS) within 6 weeks after a previous dose of tetanus-toxoid-containing vaccine
Varicella (VAR)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ Severe immunodeficiency (e.g., hematologic and solid tumors, receipt of chemotherapy, congenital immunodeficercy, long-term immunosuppressive therapy or patients with HIV infection who are severely immunocompromised) Pregnancy Family history of altered immunocompetence, unless verified clinically or by laboratory testing as immunocompetent	Recent («11 months) receipt of antibody-containing blood product (specific interval depends on product) Receipt of specific antiviral drugs (acyclovir, famciclovir, or valacyclovir) 24 hours before vaccination (avoid use of these antiviral drugs for 14 days after vaccination) Use of aspirin or aspirin-containing products Moderate or severe acute illness with or without fever If using MMRV, see MMR/MMRV for additional precautions

^{1.} When a contraindication is present, a vaccine should NOT be administered. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/hcp/acip-recs/general-recs/contraindications.html

2. When a precaution is present, vaccination should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for an adverse reaction. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdc.gov/vaccines/hcp/acip-recs/general-recs/contraindications.html

3. Vaccination providers should check FDA -approved prescribing information for the most complete and updated information, including contraindications, warnings, and precautions. Package inserts for U.S.-licensed vaccines are available at www.fda.gov/vaccines-blood-biologics/approved-products/vaccines-licensed-use-united-states.

4. For information on the pregnancy exposure registries for persons who were inadvertently vaccinated with Heplisav-B or PreHevbrio while pregnant, please visit heplisavbpregnancyregistry.com/ or www.prehevbrio.com/#safety.

5. Full prescribing information for BEYFORTUS (nirsevimab-alip) www.accessdata.fda.gov/drugsaffda_docs/label/2023/761328s000lbl.pdf

Addendum

New ACIP recommendations

Addendum Recommended Child and Adolescent Immunization Schedule for ages 18 years or younger, United States

In addition to the recommendations presented in the previous sections of this immunization schedule, ACIP has approved the following recommendations by majority vote since October 26, 2023. The following recommendations have been adopted by the CDC Director and are now official. Links are provided if these recommendations have been published in Morbidity and Mortality Weekly Report (MMWR).

Recommendations Effective Date of Recommendation*

No new vaccines or vaccine recommendations to report

^{*}The effective date is the date when the CDC director adopted the recommendation and when the ACIP recommendation became official.

Thank You! Questions?

For more information, contact CDC 1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

