

Recommendations from the Combined Immunization Schedule Work Group for the 2025 Immunization Schedules for Children/Adolescents and Adults

Sybil Cineas, MD, FAAP, FACP (ACIP Combined Immunization WG Chair) Nanda Issa, MD (CDC Co-Lead) Patricia Wodi, MD (CDC acting Co-Lead)

ACIP Meeting October 24, 2024

2025 Update to Adult Immunization Schedule Age 19 years or older

Dr. Patricia Wodi

How to Use the Immunization Schedule

Sections

- Cover Page
- Table 1: Age-based
- Table 2: Medical indication
- Vaccination notes
- Appendix: contraindications and precautions
- Addendum: updates after schedule is published

Recommended Adult Immunization Schedule for ages 19 years or older

Vaccine	Abbreviation(s)	Trade name(s)
COVID-19 vaccine	1vCOV-mRNA	Comirnaty/Pfizer–BioNTech COVID–19 Vaccine Spikevax/Moderna COVID–19 Vaccine
	1vCOV-aPS	Novavax COVID-19 Vaccine
Haemophilus influenzae type b vaccine	Hib	ActHIB, Hiberix, PedvaxHIB
Hepatitis A vaccine	HepA	Havrix, Vaqta
Hepatitis A and hepatitis B vaccine	НерА-НерВ	Twinrix
Hepatitis B vaccine	НерВ	Engerix–B, Heplisav–B, PreHevbrio, Recombivax HB
Human papillomavirus vaccine	HPV	Gardasil 9
	IIV3	Multiple
Influenza vaccine (inactivated; egg–based)	allV3	Fluad
	HD-IIV3	Fluzone High–Dose
Influenza vaccine (inactivated; cell–culture)	ccIIV3	FluceIvax
Influenza vaccine (recombinant)	RIV3	Flublok
Influenza vaccine (live, attenuated)	LAIV3	FluMist
Measles, mumps, and rubella vaccine	MMR	M–M–R II, Priorix
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-CRM	Menveo
meningococcal serogroups A, C, W, T vaccine	MenACWY-TT	MenQuadfi
Meningococcal serogroup B vaccine	MenB-4C	Bexsero
weningococcal serogroup is vaccine	MenB–FHbp	Trumenba
Meningococcal serogroup A, B, C, W, Y vaccine	MenACWY-TT/ MenB-FHbp	Penbraya
Mpox vaccine	Мрох	Jynneos
	PCV15	Vaxneuvance
Pneumococcal conjugate vaccine	PCV20	Prevnar 20
	PCV21	Capvaxive
Pneumococcal polysaccharide vaccine	PPSV23	Pneumovax 23
Poliovirus vaccine	IPV	lpol
Respiratory syncytial virus vaccine	RSV	Abrysvo, Arexvy, mResvia
Tetanus and diphtheria vaccine	Td	Tenivac
Tetanus, diphtheria, and acellular pertussis vaccine	Tdap	Adacel, Boostrix
Varicella vaccine	VAR	Varivax
Zoster vaccine, recombinant	RZV	Shingrix

*Administer recommended vaccines if vaccination history is incomplete or unknown. Do not restart or add doses to vaccine series if there are extended intervals between doses. The use of trade names is for identification purposes only and does not imply endorsement by the ACP or CDC.

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commended for accinations rec y age vac Table 1) me cor oth	radditional commended ccinations by edical ndition or	Review vaccine types, dosing frequencies and intervals, and considerations for special situations (Notes)	Review contraindications and precautions for vaccine types (Appendix)	Review new or updated ACIP guidance (Addendum)
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UNITED STATES

Recommended by the Advisory Committee on Immunization Practices (www.acd.gov/Aacdnee/ acig) and approved by the Centers for Disease Control and Prevention (www.acd.gov/American College of Physicians (www.acponline.org), American Academy of Family Physicians (www.acponline.org), American College or Dhurse–Midwise (www.action.org), American Academy of Physician Associates (www.aapp. org), American College of Obstetricary, American Academy of Physician Associates (www.aapp. org), American Pharmacists Association (www.pharmacist.com), and Society for Healthcare Epidemiology of America (www.shea-online.org).

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 Clinically significant adverse events to the Vaccine Adverse Event Reporting System 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 CDC Vaccine 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.cdt.gov/wcd.cens/krpa2nd=recs/index.html
 + ACIP Shared Clinical Decision–Making Recommendations:
 www.cdt.gov/wcaclens/krpa2nd=scim-Agashtml
 - General Best Practice Guidelines for Immunization
 www.cdt.gov/wcaclens/krpa2nd=recs/index.html
 + Vacche Information statements: www.cdc.gov/wsaclens/krpa2nd=Ress/Index.html
 + Vacche Information statements: www.cdc.gov/wacches/hcp4/ksindex.html
 + Vacche Information and outbreak response):
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Proposed Updates to the 2025 Adult Immunization Schedule

Changes to Tables

- Cover Page
- Table 1
- Table 2

Changes to Vaccination Notes

- COVID-19
- Hepatitis B
- Influenza
- Meningococcal
- Mpox
- Pneumococcal
- RSV vaccine
- Tdap

Changes to Appendix

- Pneumococcal
- Hepatitis B

3. Use of 21-Valent Pneumococcal Conjugate Vaccine Among U.S. Adults: Recommendations of the Advisory Committee on Immunization Practices – United States, 2024 | MMWR (cdc.gov)

^{1.} Use of COVID-19 Vaccines for Persons Aged ≥6 Months: Recommendations of the Advisory Committee on Immunization Practices — United States, 2024–2025 | MMWR (cdc.gov)

^{2.} Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices — United States, 2024–25 Influenza Season | MMWR (cdc.gov)

^{4.} Use of Respiratory Syncytial Virus Vaccines in Adults Aged >60 Years: Updated Recommendations of the Advisory Committee on Immunization Practices — United States, 2024 | MMWR (cdc.gov)



Recommended Adult Immunization Schedule for ages 19 years or older



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Vaccines in the Adult Immunization Schedule*

Vaccine	Abbreviation(s)	Trade name(s)
COVID-19 vaccine	1vCOV-mRNA	Comirnaty/Pfizer–BioNTech COVID–19 Vaccine Spikevax/Moderna COVID–19 Vaccine
	1vCOV-aPS	Novavax COVID-19 Vaccine
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Human papillomavirus vaccine	HPV	Gardasil 9
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Influenza vaccine (inactivated; cell–culture)	ccIIV3	FluceIvax
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Influenza vaccine (live, attenuated)	LAIV3	FluMist
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Pneumococcal conjugate vaccine	PCV20	Prevnar 20
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Poliovirus vaccine	IPV	Ipol
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Varicella vaccine	VAR	Varivax

*Administer recommended vaccines if vaccination history is incomplete or unknown. Do not restart or add doses to vaccine series if there are extended intervals between doses. The use of trade names is for identification purposes only and does not imply endorsement by the ACIP or CDC.

How to use the adult immunization schedule

Determine recommended vaccinations by age (Table 1) recommende vaccinations (Table 1) recommende vaccinations medical condition or other indicatic (Table 2)	y intervals, and consideration special situatio	contraindication and precaution for vaccine type s for (Appendix)	ACIP guidan
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Recommended by the Advisory Committee on Immunization Practices (www.cdc.gov/vacdnes/ acip) and approved by the Centers for Disease Control and Prevention (www.cdc.gov), American College of Physicians (www.acponline.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), American Pharmacists Association (www.pharmacist.com), and Society for Healthcare Epidemiology of America (www.shea-online.org).

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 ACIP Shared Clinical Decision-Making Recommendations:
 www.cdc.gov/vaccines/adp/adp-scdm-faqs.html
 General Best Practice Guidelines for Immunization
- 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



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UNITED STATES 2025

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- www.cdc.gov/vaccines/hcp/acip=recs/general=recs/index.html
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Pneumococcal conjugate vaccine	PCV20	Prevnar 20
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Pneumococcal polysaccharide vaccine	PPSV23	Pneumovax 23
Poliovirus vaccine	IPV	Ipol
Respiratory syncytial virus vaccine	RSV	Abrvsvo, Arexw, mResvia
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Varicella vaccine	VAR	Varivax
Zoster vaccine, recombinant	RZV	Shingrix

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How to use the adult immunization schedule

recommended vaccinations by age (Table 1)	Assess need for additional recommended vaccinations by medical condition or other indication (Table 2)	Review vaccine types, dosing frequencies and intervals, and considerations for special situations (Notes)	Review 5 contraindications and precautions for vaccine types (Appendix)	Review new or updated ACIP guidance (Addendum)
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Table 1Immunization schedule by age group

Vaccine	19–26 years	27–49 years		50–64 years		2	≥65 years
COVID-19	1 or more doses of 2024–2025 vaccine (See Notes)					2 or more dos	es 2024-2025(See Notes)
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)		1 dose annually					
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)	Solid organ transplant (See Notes)					(HD-IIV3, RI	V3, or allV3 preferred)
Influenza live, attenuated (LAIV3)	1 dose annually						
Respiratory Syncytial Virus (RSV)	Seasonal administratio	n during pregnancy (See Notes)				igh 74 years e Notes)	<u>></u> 75 years
Tetanus, diphtheria, pertussis (Tdap or Td)		1 dose Tdap each pregnancy; 1 do		<u> </u>	e Notes)		
Measles, mumps, rubella (MMR)		1 dose Tdap, then Td or Tdap booster every 10 years 1 or 2 doses depending on indication For healthcare personnel (if born in 1957 or later) (See Notes)					
Varicella (VAR)	2 doses (if born in 1980 or later) 2 doses			ies			
Zoster recombinant (RZV)	2 doses for immuno.com	promising conditions (See Notes)			2 do	oses	
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years					
Pneumococcal (PCV15, PCV20, PCV21, PPSV23)					See N		See Notes
Hepatitis A (HepA)		2, 3, or 4 do	ses depend	ding on vaccine			
Hepatitis B (HepB)		2, 3, or 4 dose	s dependin	ng on vaccine or condition			
Meningococcal A, C, W, Y (MenACWY)		1 or 2 doses depending on indica	ition (See N	Notes for booster recommend	dations)		
Meningococcal B (MenB)	19 through 23 years	2 or 3 doses depen	ding on va	ccine and indication (See Not	tes for bo	oster recomme	ndations)
<i>Haemophilus influenzae</i> type b (Hib)	1 or 3 doses depending on indication						
Мрох			2 doses		-		
Inactivated poliovirus (IPV)	Comple	te 3–dose series if incompletely vacci	nated. Self-	-report of previous doses acc	ceptable (ATE
Recommended vaccination for adults lack documentation of vaccination, or		Recommended vaccination for adults wi additional risk factor or another indication		Recommended vaccination clinical decision–making	n based on	shared NOT A PUBLIC	P PNo Guidance/UTIO D Not Applicable

Vaccine	19–26 years	27–49 years		50–64 years		;	≥65 years
COVID-19	1 or more doses of 2024–2025 vaccine (See Notes) 2					2 or more doses 2024-2025(See Notes)	
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)	1 dose annually					1 dose annually	
Influenza inactivated (aIIV3; HD–IIV3) or Influenza recombinant (RIV3)		Solid organ transplant (See Not	es)		((HD–IIV3, RIV3, or allV3 preferred)	
Influenza live, attenuated (LAIV3)	1 dose a	annually					
Respiratory Syncytial Virus (RSV)	Seasonal administration du	rring pregnancy (See Notes)		60 t	hrough (See No	74 years otes)	≥75 years
Tetanus, diphtheria, pertussis				dap for wound management (See No	tes)		
(Tdap or Td)		1 dose Tdap, then To	l or Tda	ap booster every 10 years			
Measles, mumps, rubella (MMR)		1 or 2 doses depe (if born in				Forh	ealthcare personnel (See Notes)
Varicella (VAR)	2 doses (if born in 1980 or later) 2 dose			doses			
Zoster recombinant (RZV)	2 doses for immunocompromising conditions (See Notes)				2 doses		
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years					
Pneumococcal (PCV15, PCV20, PCV21, PPSV23)				2	See Note:	s	See Notes
Hepatitis A (HepA)		2, 3, or 4 dos	es dep	ending on vaccine			
Hepatitis B (HepB)		2, 3, or 4 doses	depen	ding on vaccine or condition			
Meningococcal A, C, W, Y (MenACWY)		1 or 2 doses depending on indicat	ion (Se	ee Notes for booster recommendatio	ns)		
Meningococcal B (MenB)	19 through 23 years 2 or 3 doses depending on vaccine and indication (See Notes for booster recommendations)						
Haemophilus influenzae type b (Hib)	1 or 3 doses depending on indication						
Мрох			2 do	ses			
Inactivated poliovirus (IPV)	Complete 3	-dose series if incompletely vaccin	ated. S	elf–report of previous doses accepta	- EL 1973	A 10757 T1000 1	AL
Recommended vaccination for adults lack documentation of vaccination, or		Recommended vaccination for adults with additional risk factor or another indication		Recommended vaccination base clinical decision-making	ed on sha P	NOT A NOT A UBLIC	P PNo Guidance/UTIO D Not Applicable Page

Vaccine	19–26 years	27–49 years		50–64 years			≥65 years
COVID-19	1 or more doses of 2024–2025 vaccine (See Notes)					2 or more doses 2024-2025(See Notes)	
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)	1 dose annually					1 dose annually	
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)		Solid organ transplant (See No	tes)				IV3, or allV3 preferred)
Influenza live, attenuated (LAIV3)	1 dose a	annually					
Respiratory Syncytial Virus (RSV)				igh 74 years Notes)	<u>></u> 75 years		
Tetanus, diphtheria, pertussis		1 dose Tdap each pregnancy; 1 do	se Td/T	dap for wound management (See Notes)		
(Tdap or Td)		1 dose Tdap, then T	d or Td	ap booster every 10 years			
Measles, mumps, rubella (MMR)	1 or 2 doses depending on indication (if born in 1957 or later)			For	healthcare personnel (See Notes)		
Varicella (VAR)	2 doses 2 doses 2 doses			es			
Zoster recombinant (RZV)	2 doses for immunocompromising conditions (See Notes) 2 dos			oses			
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Pneumococcal (PCV15, PCV20, PCV21, PPSV23)					See N	otes	See Notes
Hepatitis A (HepA)		2, 3, or 4 do	ses dep	ending on vaccine			Seenotes
Hepatitis B (HepB)		2, 3, or 4 dose	s deper	nding on vaccine or condition			
Meningococcal A, C, W, Y (MenACWY)		1 or 2 doses depending on indica	tion (S	ee Notes for booster recomme	ndations)		
Meningococcal B (MenB)	19 through 23 years 2 or 3 doses depending on vaccine and indication (See Notes for booster recommendations)						
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Мрох	2 doses						
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Recommended vaccination for adults lack documentation of vaccination, or		ecommended vaccination for adults wit additional risk factor or another indicatio		Recommended vaccinat clinical decision-making		shared NOT PUBLI	P PNo Guidance/UTIC D Not Applicable Page

Vaccine	19–26 years	27–49 years			50–64 years		≥	65 years
COVID-19	10	or more doses of 2024–2025 vaccine (See No	tes)			2 or more dose	s 2024-2025(See Notes)
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)		1 dose annually					1.d	ose annually
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)		Solid organ transplant (See No	tes)					/3, or allV3 preferred)
Influenza live, attenuated (LAIV3)	1 dose a	annually						
Respiratory Syncytial Virus (RSV)	Seasonal administration du	uring pregnancy (See Notes)					ugh 74 years æ Notes)	≥75 years
Tetanus, diphtheria, pertussis		1 dose Tdap each pregnancy; 1 do				ee Notes)	1	
(Tdap or Td)		1 dose Tdap, then 1						
Measles, mumps, rubella (MMR)		1 or 2 doses dep (if born i					Forhe	althcare personnel (See Notes)
Varicella (VAR)	2 dose (if born in 1980					2 dose	5	
Zoster recombinant (RZV)	2 doses for immunocompror	nising conditions (See Notes)				2 d	oses	
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years						
Pneumococcal (PCV15, PCV20, PCV21, PPSV23)						See	Notes	See Notes
Hepatitis A (HepA)		2, 3, or 4 do	ses dep	pending) on vaccine			
Hepatitis B (HepB)		2, 3, or 4 dose	s depei	nding a	n vaccine or condition			
Meningococcal A, C, W, Y (MenACWY)		1 or 2 doses depending on indica	tion (S	ee Note	es for booster recommen	dations)		
Meningo coccal B (MenB)	19 through 23 years	2 or 3 doses depen	ding o	n vaccir	ne and indication (See No	otes for b	ooster recomme	ndations)
<i>Haemophilus influenzae</i> type b (Hib)		1 or 3 dose	depen	iding o	n indication			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Мрох			2 d	oses				
Inactivated poliovirus (IPV)	Complete 3	8-dose series if incompletely vacci	nated.	Self-re	port of previous doses a	ceptable		ATE
Recommended vaccination for adults lack documentation of vaccination, or		Recommended vaccination for adults wi additional risk factor or another indicatio			Recommended vaccination clinical decision–making	on based o	NOT AL NOT AL PUBLIC	PNo Guidance/UTIO

Vaccine	19–26 years		27–49 years		50–64 years			≥65 years
COVID-19		1 oi	r more doses of 2024–2025 vaccine	See Not	tes)		2 or more do	ses 2024-2025(See Notes)
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)			1 dose annually				1.	dose annually
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)			Solid organ transplant (See No	tes)				IV3, or allV3 preferred)
Influenza live, attenuated (LAIV3)		1 dose a	nnually					
Respiratory Syncytial Virus (RSV)	Seasonal adminis	tration du	ring pregnancy (See Notes)				gh 74 years Notes)	≥75 years
Tetanus, diphtheria, pertussis			1 dose Tdap each pregnancy; 1 do	se Td/T	dap for wound management (S	ee Notes)		
(Tdap or Td)			1 dose Tdap, then	d or Td	ap booster every 10 years			
Measles, mumps, rubella (MMR)			1 or 2 doses dej (if born i				Forl	ealthcare personnel (See Notes)
Varicella (VAR)	(if bo	2 doses rn in 1980				2 doses		
Zoster recombinant (RZV)	2 doses for immun	ocompron	nising conditions (See Notes)			2 dos	es	
Human papillomavirus (HPV)	2 or 3 doses depending on a initial vaccination or condi		27 through 45 years					
Pneumococcal						See No	otes	
PCV15, PCV20, PCV21, PPSV23)								See Notes
Hepatitis A (HepA)			2, 3, or 4 do	ses dep	ending on vaccine			
Hepatitis B (HepB)			2, 3, or 4 dose	s depei	nding on vaccine or condition			
Meningococcal A, C, W, Y (MenACWY)			1 or 2 doses depending on indic	tion (S	ee Notes for booster recommer	ndations)		
Meningococcal B (MenB)	19 through 23 years		2 or 3 doses deper	ding or	n vaccine and indication (See No	otes for boo	ster recomm	endations)
Haemophilus influenzae type b (Hib)			1 or 3 dose	depen	ding on indication			
Мрох				2 do	oses			
Inactivated poliovirus (IPV)	c	omplete 3	-dose series if incompletely vacci	nated. S	Self–report of previous doses a	cceptable (S	224 227 100.	AT
Recommended vaccination for adults lack documentation of vaccination, or			ecommended vaccination for adults wi dditional risk factor or another indicatio		Recommended vaccination clinical decision-making		NOT A PUBLIC	P PNo Guidance/UTI D Not Applicable Pag

Vaccine	19–26 years	27–49 years		50–64 years		:	≥65 years
COVID-19	10	or more doses of 2024–2025 vaccine (S	õee Not	tes)		2 or more dos	es 2024-2025(See Notes)
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)		1 dose annually				17	lose annually
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)		Solid organ transplant (See Not	tes)				V3, or allV3 preferred)
Influenza live, attenuated (LAIV3)	1 dose a	annually					
Respiratory Syncytial Virus (RSV)	Seasonal administration du	uring pregnancy (See Notes)				ıgh 74 years e Notes)	≥75 years
Tetanus, diphtheria, pertussis		1 dose Tdap each pregnancy; 1 dos	se Td/T	dap for wound management (S	ee Notes)		
(Tdap or Td)		1 dose Tdap, then To	d or Td	ap booster every 10 years			
Measles, mumps, rubella (MMR)		1 or 2 doses depe (if born in				Forh	ealthcare personnel (See Notes)
Varicella (VAR)	2 dose (if born in 1980				2 doses		
Zoster recombinant (RZV)	2 doses for immunocompro	mising conditions (See Notes)			2 do	ses	
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years					
Pneumococcal (PCV15, PCV20, PCV21, PPSV23)					See N	otes	See Notes
Hepatitis A (HepA)		2, 3, or 4 dos	ies dep	pending on vaccine			
Hepatitis B (HepB)		2, 3, or 4 doses	deper	nding on vaccine or condition			
Meningococcal A, C, W, Y (MenACWY)		1 or 2 doses depending on indicat	tion (Se	ee Notes for booster recommer	ndations)		
Meningococcal B (MenB)	19 through 23 years	2 or 3 doses depend	ding or	n vaccine and indication (See N	otes for bo	oster recomme	endations)
<i>Haemophilus influenzae</i> type b (Hib)		1 or 3 doses	depen	ding on indication			
Мрох			2 do	oses	-		
Inactivated poliovirus (IPV)	Complete 3	3-dose series if incompletely vaccin	ated. S	Self–report of previous doses a	cceptable (253 557 188.	AP
Recommended vaccination for adults lack documentation of vaccination, or		Recommended vaccination for adults with additional risk factor or another indication		Recommended vaccinati clinical decision-making		shared NOT A PUBLIC	P PNo Guidance/UTIC D Not Applicable Page

Vaccine	19–26 years	27–49 years		50–64 years			≥65 years
COVID-19	10	or more doses of 2024–2025 vaccine (See Not	ites)		2 or more do	ses 2024-2025(See Notes)
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)		1 dose annually				1	dose annually
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)		Solid organ transplant (See No	tes)				IV3, or allV3 preferred)
Influenza live, attenuated (LAIV3)	1 dose	annually					
Respiratory Syncytial Virus (RSV)	Seasonal administration d	uring pregnancy (See Notes)				ugh 74 years e Notes)	<u>≥</u> 75 years
Tetanus, diphtheria, pertussis		1 dose Tdap each pregnancy; 1 do	se Td/T	Tdap for wound manageme	nt (See Notes)		
(Tdap or Td)		1 dose Tdap, then T	'd or Td	dap booster every 10 years			
Measles, mumps, rubella (MMR)		1 or 2 doses dep (if born in				For	healthcare personnel (See Notes)
Varicella (VAR)	2 dose (if born in 1980				2 dose	5	
Zoster recombinant (RZV)	2 doses for immunocompro	mising conditions (See Notes)			2 d	oses	
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years					
Pneumococcal (PCV15, PCV20, PCV21, PPSV23)					See	Notes	See Notes
Hepatitis A (HepA)		2, 3, or 4 do	ses dep	pending on vaccine			
Hepatitis B (HepB)		2, 3, or 4 dose	s depei	nding on vaccine or condition	on		
Meningococcal A, C, W, Y (MenACWY)		1 or 2 doses depending on indica	tion (S	See Notes for booster recom	mendations)		
Meningococcal B (MenB)	19 through 23 years	2 or 3 doses depen	ding or	n vaccine and indication (Se	e Notes for b	ooster recomm	endations)
<i>Haemophilus influenzae</i> type b (Hib)		1 or 3 doses	depen	nding on indication			
Мрох			2 do	oses			NAT N
Inactivated poliovirus (IPV)	Complete	3–dose series if incompletely vacci	nated. S	Self-report of previous dos	es acceptable	233 337 1981	KAL
Recommended vaccination for adults lack documentation of vaccination, or		Recommended vaccination for adults wit additional risk factor or another indicatio		Recommended vacc clinical decision-ma		NOT PUBLI	PPNo Guidance/UTI DNot Applicable

Vaccine	19–26 years	27–49 years		50–64 years			≥65 years
COVID-19	10	or more doses of 2024–2025 vaccine (!	See Not	es)		2 or more do	es 2024-2025(See Notes)
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)		1 dose annually				1.	dose annually
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)		Solid organ transplant (See No	tes)				IV3, or allV3 preferred)
Influenza live, attenuated (LAIV3)	1 dose a	annually					
Respiratory Syncytial Virus (RSV)	Seasonal administration d	uring pregnancy (See Notes)				ugh 74 years e Notes)	≥75 years
Tetanus, diphtheria, pertussis		1 dose Tdap each pregnancy; 1 do	se Td/T	dap for wound management (!	See Notes)		
(Tdap or Td)		1 dose Tdap, then T	d or Td	ap booster every 10 years			
Measles, mumps, rubella (MMR)		1 or 2 doses dep (if born in				Forl	ealthcare personnel (See Notes)
Varicella (VAR)	2 dose (if born in 1980				2 doses		
Zoster recombinant (RZV)	2 doses for immuno compro	nising conditions (See Notes)			2 do	ises	
Human papillomavirus (HPV)	2 or 3 doses depending on age at initial vaccination or condition	27 through 45 years					
Pneumococcal (PCV15, PCV20, PCV21, PPSV23)					See N	lotes	See Notes
Hepatitis A (HepA)		2, 3, or 4 do:	ses dep	ending on vaccine			
Hepatitis B (HepB)		2, 3, or 4 doses	deper	iding on vaccine or condition			
Meningococcal A, C, W, Y (MenACWY)		1 or 2 doses depending on indica	tion (S	ee Notes for booster recomme	ndations)		
Meningo coccal B (MenB)	19 through 23 years	2 or 3 doses depend	ding or	a vaccine and indication (See N	lotes for bo	oster recomm	endations)
Haemophilus influenzae type b (Hib)		1 or 3 doses	depen	ding on indication			
Мрох			2 do	ises			A DY
Inactivated poliovirus (IPV)	Complete	3-dose series if incompletely vaccir	ated. S	self–report of previous doses a	acceptable	CALL ROOM STREET	6AP.
Recommended vaccination for adults lack documentation of vaccination, or		Recommended vaccination for adults wit additional risk factor or another indication		Recommended vaccinat clinical decision-making		NOT PUBLIC	P P No Guidance/ U T I D Not Applicable

Vaccine	19–26 years		27–49 years		50–64 years			≥65 years
COVID-19		1 or m	ore doses of 2024–2025 vaccine	See Not	tes)		2 or more dos	es 2024-2025(See Notes)
Influenza inactivated (IIV3, ccIIV3) or Influenza recombinant (RIV3)			1 dose annually				14	lose annually
Influenza inactivated (allV3; HD–IIV3) or Influenza recombinant (RIV3)			Solid organ transplant (See No	tes)				IV3, or allV3 preferred)
nfluenza live, attenuated LAIV3)		1 dose ann	ually					
Respiratory Syncytial Virus RSV)	Seasonal administ	tration durin	g pregnancy (See Notes)				igh 74 years Notes)	≥75 years
etanus, diphtheria, pertussis		1 d	lose Tdap each pregnancy; 1 do	se Td/T	dap for wound management (S	ee Notes)		
Tdap or Td)			1 dose Tdap, then '	d or Td	ap booster every 10 years			
Measles, mumps, rubella MMR)			1 or 2 doses deg (if born i				For	ealthcare personnel (See Notes)
/aricella (VAR)	(if bor	2 doses m in 1980 or	later)			2 doses		
Coster recombinant RZV)	2 doses for immuno	ocompromisi	ing conditions (See Notes)			2 do	ses	
Human papillomavirus HPV)	2 or 3 doses depending on a initial vaccination or condit	ige at tion	27 through 45 years					
Pneumococcal PCV15, PCV20, PCV21, PPSV23)						See N	otes	See Notes
lepatitis A HepA)			2, 3, or 4 do	ses dep	pending on vaccine			
lepatitis B HepB)			2, 3, or 4 dose	s deper	nding on vaccine or condition			
Meningococcal A, C, W, Y MenACWY)		1	or 2 doses depending on indica	ition (S	ee Notes for booster recommen	ndations)		
Meningococcal B MenB)	19 through 23 years		2 or 3 doses deper	ding or	n vaccine and indication (See N	otes for bo	oster recomm	endations)
laemophilus influenzae type b Hib)			1 or 3 dose	depen	ding on indication			
Лрох				2 da	oses			
nactivated poliovirus IPV)	co	omplete 3-d	ose series if incompletely vacci	nated. S	Self–report of previous doses a	cceptable (223, 527	
Recommended vaccination for adults lack documentation of vaccination, or			ommended vaccination for adults wi tional risk factor or another indicatio		Recommended vaccinati clinical decision-making		shared NOT PUBLIC	P PNo Guidance/UTI D Not Applicable Pa

Table 2

Immunization schedule by medical indication

Table 2 Recommended Adult Immunization Schedule by Medical Condition or Other Indication, United States, 2025

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 medical conditions or indications are present, refer to guidance in all relevant columns. See Notes for medical conditions or indications not listed.

		Immunocompromised .		ction CD4 e and count		Asplenia,		Kidney failure, End-stage	Chronic liver		
ACCINE Pregnancy	Pregnancy	(excluding HIV	<15% or <200mm ³	≥15% and ≥200m m³	Men who have sex with men		Heart or lung disease	renal disease or on dialysis	disease; alcoholism²	Diabetes	Healthcare Personnel [®]
OVID-19		See Note:									
nfluenza inactivated nfluenza recombinant		Solid organ transplant See Notes				1	dose annually				
AIV3					1 dose annually if age 19–49 years				1 dose annua	lly if age 19–49	years
sv	Seasonal administration (See Notes)	See Note:	5				See Notes		Liver disease (See Notes)	SeeNotes	
dap or Td	Tdap: 1 dose each pregnancy				1 dose Tdap, 1	hen Td or Tdap bo	oster every 10 year	s			
MMR	*										
/AR	+			See Notes							
zv		s	ee Notes								
IPV		3 dose se	eries if indicated	i							
neumococcal											
lepA											
lep B	See Notes									Age≥60 years	
MenACWY											
/lenB											
łib		HSCT: 3 doses ^c				Asplenia: 1 dose					
Ирох	See Notes				See Notes						See Notes
PV			Con	nplete 3-dose se	ries if incompletely	vaccinated. Self-r	eport of previous d	oses acceptable ((See Notes)	and the start of the	
Recommended who lack docur vaccination, OF of immunity	mentation of	Not recommended for all adults, but recommender for some adults based on either age OR increased risk for or severe outcome from disease	d ba	ecommended vaccina ased on shared clinica acision-making	and additio	ded for all adults, nal doses may be ased on medical other indications.	Precaution: M indicated if be protection ou risk of adverse	enefit of tweighs	Contraindicated or recommended "Vaccinate after pr if indicated	egnancy,	No Guidance, Not Applicab
Precaution for LAIV3 d	loes not apply to alcohol	lism. b. See Notes f	or influenza; hepatitis	s B; measles, mumps, a	nd rubella; and varicella va	ccinations.	c. Hematopoietic stem	cell transplant.	NOT PUBLI	APPROV C DISTR	IBUTIC

Table 2 Recommended Adult Immunization Schedule by Medical Condition or Other Indication, United States, 2025

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 medical conditions or indications are present, refer to guidance in all relevant columns. See Notes for medical conditions or indications not listed.

		Immunocompromised .	HIV infec percentage			Asplenia,		Kidney failure, End-stage	Chronic liver		
VACCINE	Pregnancy	(excluding HIV infection)	<15% or <200mm³	≥15% and ≥200m m³	Men who have sex with men	complement deficiency	Heart or lung disease	renal disease or on dialysis	disease; alcoholismª	Diabetes	Healthcare Personnel ^b
OVID-19		See Note:									
nfluenza inactivated nfluenza recombinan	t	Solid organ transplant See Notes				1	dose annually				
AIV3					1 dose annually if age 19–49 years				1 dose annual	lly if age 19–49	years
sv	Seasonal administration (See Notes)	See Note:					See Notes		Liver disease (See Notes)	See Notes	
dap or Td	Tdap: 1 dose each pregnancy				1 dose Tdap, the	en Td or Tdap bo	oster every 10 yea	rs			
MR	*										
/AR	*			See Notes							
zv		s	ee Notes								
IPV	*	3 dose se	eries if indicated								
neumococcal											
lepA								1			
lep B	See Notes									Age ≥ 60 years	
/lenACWY											
/lenB											
нів		HSCT: 3 doses ^c				Asplenia: 1 dose					
Лрох	See Notes				See Notes						See Notes
PV			Com	nplete 3-dose se	ries if incompletely va	ccinated. Self-re	eport of previous o	loses acceptable (See Notes)	and the second second	
Recommender who lack doo. vaccination, O of immunity		Not recommended for all adults, but recommended for some adults based on either age OR increased risk for or severe outcome from disease	d bas de	commended vaccina sed on shared clinica cision-making	al and additional necessary base	d for all adults, I doses may be ed on medical ther indications.	Precaution: N indicated if b protection or risk of advers	enefit of utweighs	Contraindicated or recommended "Vaccinate after pr if indicated		No Guidance Not Applicab
Precaution for LAIV3	does not apply to alcohol	lism. b. See Notes f	or influenza; hepatitis	B; measles, mumps, a	nd rubella; and varicella vacci	inations.	c. Hernatopoietic stem	cell transplant.	PUBLI	LC DISTR	IBUII

Table 2 Recommended Adult Immunization Schedule by Medical Condition or Other Indication, United States, 2025

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 medical conditions or indications are present, refer to guidance in all relevant columns. See Notes for medical conditions or indications not listed.

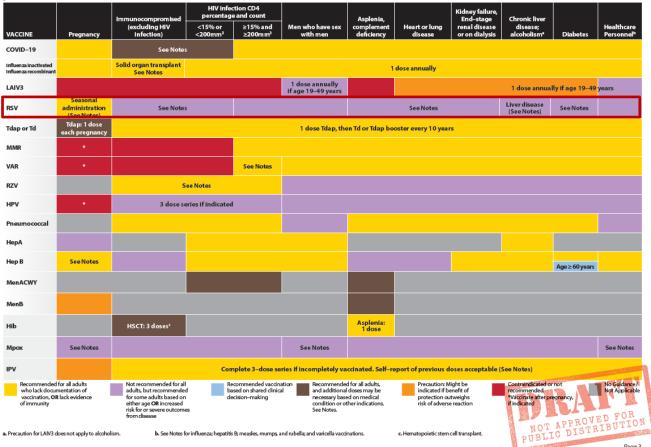
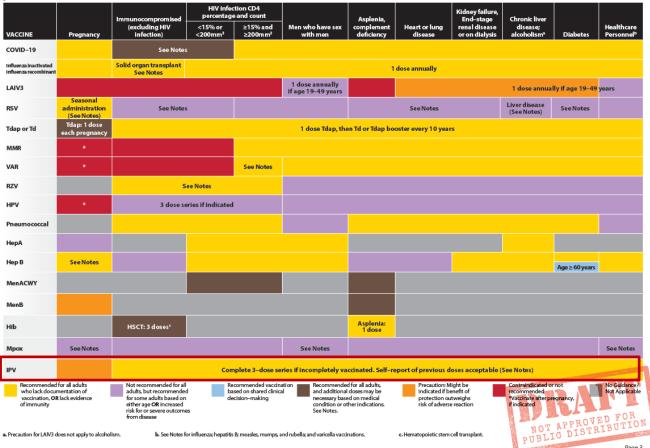


Table 2 Recommended Adult Immunization Schedule by Medical Condition or Other Indication, United States, 2025

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 medical conditions or indications are present, refer to guidance in all relevant columns. See Notes for medical conditions or indications not listed.





Routine vaccination

Persons **NOT** moderately or severely immunocompromised

 Outlines vaccination series by COVID-19 vaccination history.

> minimum age or interval are considered valid. Doses of any vaccine administered 25 days earlier than the minimum age or minimum interval should not be counted as valid and should be repeated. The repeat dose should be spaced after the invalid dose by th recommended minimum interval. For further detail 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/general-recs/timing.html.

- Information on travel vaccination requirements and recommendations is available at www.cdc.gov/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
- 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 adult immunization schedul except PPSV23, RSV, RZV, Mpox, and COVID-19 vaccines are covered by the National Vaccine Injury Compensation Program (VICP). Mpox and COVID-19 vaccines are covered by the Countermeasures Injury Compensation Program (CICP). For more information see www.hrsa.gov/vaccinecompensation or www. hrsa.gov/cicp.

COVID-19 vaccination

Routine vaccination

Unvaccinated:

- 1 dose of 2024–25 Moderna or Pfizer–BioNTech
- 2-dose series of 24-2025 Novavax at 0, 3-8 weeks
- Previous vaccination:
- 1 or more doses of any Moderna or Pfizer-BioNTech or 2 or more doses any Novavax <u>not including</u>
 1 dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.
- 1 dose of any Novavax (dose 1): 1 dose 2024–25 Novavax COVID–19 vaccine 3–8 weeks after dose 1. More than 8 weeks after dose 1, any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer– BioNTech) may be administered.
- 1 or more doses any Moderna or Pfizer–BioNTech or 2 or more doses any Novavax *including* 1 dose of any 2024–25 COVID–19 vaccine (Moderna or Pfizer– BioNTech or Novavax): no further doses indicated.
- 1 or more doses of Janssen COVID-19 Vaccine <u>not</u> <u>including 1</u> dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.
- Age 65 years or older: administer an additional dose (dose 2) 6 months after dose 1 (minimum interval 2 months). If unvaccinated and receiving Novavax, administer 2-dose series as initial vaccination series, then dose 3 at least 6 months (minimum interval 2 months) after dose 2 using any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer–BioNTech).

Special situations

Persons who are moderately or se immunocompromised.** All vacc should be from the same manufa

- Unvaccinated
- 3-dose series of 2024-25 Mo least 4 weeks after dose 2
- 3-dose series of 2024–25 Pfizer–BioNTech at 0, 3 weeks, at least 4 weeks after dose 2 - 2-dose series of 2024–25 Novavax at 0, 3 weeks
- Previous vaccination with Moderna
- 1 dose of any Moderna (dose 1): 2 doses of 2024–25 Moderna separated by at least 4 weeks (minimum interval dose 1 to dose 2: 4 weeks)
- 2 doses of any Moderna: 1 dose of 2024–25 Moderna at least 4 weeks after the most recent dose.
- Previous vaccination with Pfizer–BioNTech
- 1 dose of any Pfizer-BioNTech (dose 1): 2 doses of 2024–25 Pfizer-BioNTech separated by at least 4 weeks (minimum interval dose 1 to dose 2: 3 weeks).
- 2 doses of any Pfizer-BioNTech: 1 dose of 2024–25 Pfizer-BioNTech at least 4 weeks after the most recent dose.
- Previous vaccination with 3 or more doses of any Moderna or 3 or more doses of any Pfizer-BioNTech
 <u>Not including</u> at least 1 dose of 2024–25 COVID–19 vaccine: 1 dose of any 2024–25 COVID–19 vaccine (Moderna or Novava or Pfizer-BioNTech) at least 8 weeks after the most recent dose.
- -<u>Including</u> at least 1 dose of 2024–25 COVID–19 vaccine: may administer additional doses with Moderna or Pfizer–BioNTech or Novavax.



Special situations

Persons who **ARE** moderately or severely immunocompromised

• Outlines vaccination series by COVID-19 vaccination history.

S Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

For vaccination recommendations for persons ages 18 years or younger, see the Recommended Child and Adolescent Immunization Schedule, 2025: www.cdc.gov/ vaccines/schedules/hcp/child=adolescent.html

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. The repeat dose should be spaced after the invalid dose by th recommended minimum interval. For further detail 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/general-recs/tming.html.
- Information on travel vaccination requirements and recommendations is available at www.cdc.gov/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
- For information about vaccination in the setting of a vaccine-preventable disease outbreak, contact you 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 adult immunization schedul except PPSV23, RSV, RZV, Mpox, and COVID-19 vaccines are covered by the National Vaccine Injury Compensation Program (VICP). Mpox and COVID-19 vaccines are covered by the Countermeasures Injury Compensation Program (CICP). For more information see www.hrsa.gov/vaccinecompensation or www. hrsa.gov/cicp.

COVID-19 vaccination

Routine vaccination

- Unvaccinated:
- 1 dose of 2024–25 Moderna or Pfizer–BioNTech
- 2-dose series of 24-2025 Novavax at 0, 3-8 weeks
- Previous vaccination:
- 1 or more doses of any Moderna or Pfizer-BioNTech or 2 or more doses any Novavax <u>not including</u>
 1 dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.
- 1 dose of any Novavax (dose 1): 1 dose 2024–25 Novavax COVID–19 vaccine 3–8 weeks after dose 1. More than 8 weeks after dose 1, any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer– BioNTech) may be administered.
- 1 or more doses any Moderna or Pfizer–BioNTech or 2 or more doses any Novavax *including* 1 dose of any 2024–25 COVID–19 vaccine (Moderna or Pfizer– BioNTech or Novavax): no further doses indicated.
- 1 or more doses of Janssen COVID-19 Vaccine <u>not</u> <u>including 1</u> dose of any 2024-25 COVID-19 vaccine:
 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.
- Age 65 years or older: administer an additional dose (dose 2) 6 months after dose 1 (minimum interval 2 months). If unvaccinated and receiving Novavax, administer 2-dose series as initial vaccination series, then dose 3 at least 6 months (minimum interval 2 months) after dose 2 using any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer–BioNTech).

Special situations

Persons who are moderately or severely immunocompromised.** All vaccine doses in initial series should be from the same manufacturer.

Unvaccinated

- 3-dose series of 2024-25 Moderna at 0, 4 weeks, at least 4 weeks after dose 2

- 3-dose series of 2024–25 Pfizer–BioNTech at 0, 3 weeks, at least 4 weeks after dose 2
- 3 weeks, at least 4 weeks after dose 2
- 2-dose series of 2024-25 Novavax at 0, 3 weeks
- Previous vaccination with Moderna
- 1 dose of any Moderna (dose 1): 2 doses of 2024–25 Moderna separated by at least 4 weeks (minimum interval dose 1 to dose 2: 4 weeks)
- 2 doses of any Moderna: 1 dose of 2024–25 Moderna at least 4 weeks after the most recent dose.
- Previous vaccination with Pfizer–BioNTech
- 1 dose of any Pfizer-BioNTech (dose 1): 2 doses of 2024–25 Pfizer-BioNTech separated by at least 4 weeks (minimum interval dose 1 to dose 2: 3 weeks).
- 2 doses of any Pfizer-BioNTech: 1 dose of 2024-25 Pfizer-BioNTech at least 4 weeks after the most recent dose.
- Previous vaccination with 3 or more doses of any Moderna or 3 or more doses of any Pfizer-BioNTech
 <u>Not including</u> at least 1 dose of 2024–25 COVID–19 vaccine: 1 dose of any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.
- Including at least 1 dose of 2024–25 COVID–19 vaccine: may administer additional doses with Moderna or Pfizer–BioNTech or Novavax.



s Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

For vaccination recommendations for persons ages 18 years or younger, see the Recommended Child and Adolescent Immunization Schedule, 2025: www.cdc.gov, vaccines/schedules/hcp/child-adolescent.html

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. The repeat dose should be spaced after the invalid dose by th recommended minimum interval. For further detail 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/general-recs/tming.html.

 Information on travel vaccination requirements and recommendations is available at www.cdc.gov/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

For information about vaccination in the setting of a vaccine–preventable disease outbreak, contact you 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 adult immunization schedul except PPSV23, RSV, RZV, Mpox, and COVID-19 vaccines are covered by the National Vaccine Injury Compensation Program (VICP). Mpox and COVID-19 vaccines are covered by the Countermeasures Injury Compensation Program (CICP). For more information see www.hrsa.gov/vaccinecompensation or www. hrsa.gov/cicp.

COVID-19 vaccination

Routine vaccination

- Unvaccinated:
- 1 dose of 2024–25 Moderna or Pfizer–BioNTech
- 2-dose series of 24-2025 Novavax at 0, 3-8 weeks
- Previous vaccination:

- 1 or more doses of any Moderna or Pfizer-BioNTech or 2 or more doses any Novavax <u>not including</u> 1 dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.

- 1 dose of any Novavax (dose 1): 1 dose 2024–25 Novavax COVID–19 vaccine 3–8 weeks after dose 1. More than 8 weeks after dose 1, any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer– BioNTech) may be administered.

 1 or more doses any Moderna or Pfizer–BioNTech or 2 or more doses any Novavax *including* 1 dose of any 2024–25 COVID–19 vaccine (Moderna or Pfizer– BioNTech or Novavax): no further doses indicated.

- 1 or more doses of Janssen COVID-19 Vaccine <u>not</u> <u>including</u> 1 dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.

 Age 65 years or older: administer an additional dose (dose 2) 6 months after dose 1 (minimum interval 2 months). If unvaccinated and receiving Novavax, administer 2-dose series as initial vaccination series, then dose 3 at least 6 months (minimum interval 2 months) after dose 2 using any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer–BioNTech).

Special situations

Persons who are moderately or severely immunocompromised.** All vaccine doses in initial series should be from the same manufacturer.

Unvaccinated

- 3-dose series of 2024-25 Moderna at 0, 4 weeks, at least 4 weeks after dose 2

- 3-dose series of 2024-25 Pfizer-BioNTech at 0,

3 weeks, at least 4 weeks after dose 2

- 2-dose series of 2024-25 Novavax at 0, 3 weeks

Previous vaccination with Moderna

- 1 dose of any Moderna (dose 1): 2 doses of 2024–25 Moderna separated by at least 4 weeks (minimum interval dose 1 to dose 2: 4 weeks)

- 2 doses of any Moderna: 1 dose of 2024–25 Moderna at least 4 weeks after the most recent dose.

Previous vaccination with Pfizer–BioNTech

- 1 dose of any Pfizer-BioNTech (dose 1): 2 doses of 2024–25 Pfizer-BioNTech separated by at least 4 weeks (minimum interval dose 1 to dose 2: 3 weeks).

- 2 doses of any Pfizer-BioNTech: 1 dose of 2024–25 Pfizer-BioNTech at least 4 weeks after the most recent dose.

- Previous vaccination with 3 or more doses of any Moderna or 3 or more doses of any Pfizer-BioNTech
 <u>Not including</u> at least 1 dose of 2024–25 COVID–19 vaccine: 1 dose of any 2024–25 COVID–19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.
- <u>Including</u> at least 1 dose of 2024–25 COVID–19 vaccine: may administer additional doses with Moderna or Pfizer–BioNTech or Novavax.



Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

COVID-19 vaccination - continued

Previous vaccination with Novavax

- 1 dose of any Novavax (dose 1): 1 dose 2024–25 Novavax COVID–19 vaccine 3 weeks after Dose 1
- 2 or more doses any Novavax <u>not including</u> 2024-25 Novavax: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Pfizer-BioNTech or Novavax) at least 8 weeks after the most recent dose.
- 2 or more doses of Novavax <u>including</u> at least 1 dose 2024–25 Novavax: may administer additional doses with Moderna or Pfizer–BioNTech or Novavax.

Previous vaccination with Janssen

- 1 or more doses of Janssen COVID-19 Vaccine <u>not</u> <u>including</u> 1 dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.

**Additional doses of 2024-25 COVID-19 vaccine for moderately or severely immunocompromised:

if unvaccinated or completing initial vaccination series, after completing initial vaccination series, administer an additional dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer–BioNTech) 6 months later (minimum interval 2 months). For persons who have completed an initial vaccination series, administer an additional dose of any 2024–25 COVID-19 vaccine 6 months after the most recent dose (minimum interval 2 months). Recommendation for further additional doses is based on shared clinical decision-making and should be administered at least 2 months after the most recent dose. Unvaccinated persons have never received any COVID-19 vaccine doses. There is no preferential recommendation for the use of one COVID-19 vaccine over another when more than one recommended ageappropriate vaccine is available.

For information about interchangeability of COVID-19 vaccines, see www.cdc.gov/vaccines/covid-19/ clinical-considerations/interim-considerationsus.html#Interchangeability

Current COVID-19 vaccine information available at www.cdc.gov/covidschedule. For information on Emergency Use Authorization (EUA) indications for COVID-19 vaccines, see www.fda.gov/ emergencypreparedness-and-response/coronavirusdisease-2019-covid-19/covid-19-vaccines.

Special situation

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Anatomical or functional asplenia (including sickle cell disease): 1 dose if previously did not receive Hib vaccine.

Elective splenectomy: 1 dose preferably at least 14 days before splenectomy.

 Hematopoietic stem cell transplant (HSCT): 3-dose series 4 weeks apart starting 6-12 months after successful transplant, regardless of Hib vaccination history.

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outine vaccination

Iny person who is not fully vaccinated and requests accination (identification of risk factor not required); omplete 2-dose series HepA (Havrix 6-12 months part or Vaqta 6-18 months apart [minimum interval: 'months]) or 3-dose series HepA-HepB (Twinrix at ', 1, 6 months [minimum intervals: dose 1 to dose 2; 'weeks / dose 2 to dose 3: 5 months])

ecial situations

Any person who is not fully vaccinated and who is at isk for hepatitis A virus infection or severe disease from hepatitis A virus infection include: complete 2-dose series HepA or 3-dose series HepA-HepB as above. Risk factors include:

 Chronic liver disease (e.g., persons with hepatitis B, hepatitis C, cirrhosis, fatty liver disease, alcoholic liver disease, autoimmune hepatitis, alanine aminotransferase [ALT] or aspartate aminotransferase [AST] level greater than twice the upper limit of normal)

-HIV infection

Men who have sex with men

Injection or noninjection drug use

Persons experiencing homelessness

 Work with hepatitis A virus in research laboratory or with nonhuman primates with hepatitis A virus infection

Travel in countries with high or intermediate endemic hepatitis A: HepA-HepB (Twinrix) may be administered on an accelerated schedule of 3 doses at 0, 7, and 21–30 days, followed by a booster dose at 12 months

Close, personal contact with international adoptee (e.g., household or regular babysitting) in first 60 days after arrival from country with high or intermediate endemic hepatitis A: dose 1 as soon as adoption is planned; preferably at least 2 weeks before adoptee's arrival.

COVID-19 vaccination - continued

Previous vaccination with Novavax

- 1 dose of any Novavax (dose 1): 1 dose 2024–25 Novavax COVID–19 vaccine 3 weeks after Dose 1

- 2 or more doses any Novavax not including

2024–25 Novavax: 1 dose of any 2024–25 COVID–19 vaccine (Moderna or Pfizer–BioNTech or Novavax) at least 8 weeks after the most recent dose.

 - 2 or more doses of Novavax <u>including</u> at least 1 dose 2024–25 Novavax: may administer additional doses with Moderna or Pfizer–BioNTech or Novavax.

Previous vaccination with Janssen

- 1 or more doses of Janssen COVID-19 Vaccine <u>not</u> <u>including</u> 1 dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.

**Additional doses of 2024-25 COVID-19 vaccine for moderately or severely immunocompromised: if unvaccinated or completing initial vaccination series, after completing initial vaccination series, administer an additional dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer–BioNTech) 6 months later (minimum interval 2 months). For persons who have completed an initial vaccination series, administer an additional dose of any 2024–25 COVID-19 vaccine 6 months after the most recent dose (minimum interval 2 months). Recommendation for further additional doses is based on shared clinical decision-making and should be administered at least 2 months after the most recent dose.

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Unvaccinated persons have never received any COVID-19 vaccine doses. There is no preferential recommendation for the use of one COVID-19 vaccine over another when more than one recommended ageappropriate vaccine is available.

For information about interchangeability of COVID-19 vaccines, see www.cdc.gov/vaccines/covid-19/ clinical-considerations/interim-considerationsus.html#Interchangeability

Current COVID-19 vaccine information available at www.cdc.gov/covidschedule. For information on Emergency Use Authorization (EUA) indications for COVID-19 vaccines, see www.fda.gov/ emergencypreparedness-and-response/coronavirusdisease-2019-covid-19/covid-19-vaccines.

Special situation

Anatomical or functional asplenia (including sickle cell disease): 1 dose if previously did not receive Hib vaccine.

Elective splenectomy: 1 dose preferably at least 14 days before splenectomy.

Hematopoietic stem cell transplant (HSCT): 3-dose series 4 weeks apart starting 6-12 months after successful transplant, regardless of Hib vaccination history.

lepatitis A vaccinatio

outine vaccination

Any person who is not fully vaccinated and requests raccination (identification of risk factor not required): complete 2-dose series HepA (Havrix 6-12 months apart or Vaqta 6-18 months apart [minimum interval: 5 months]) or 3-dose series HepA-HepB (Twinrix at), 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 5 months])

pecial situations

Any person who is not fully vaccinated and who is at isk for hepatitis A virus infection or severe disease from hepatitis A virus infection include: complete 2-dose series HepA or 3-dose series HepA-HepB as above. Risk factors include:

 Chronic liver disease (e.g., persons with hepatitis B, hepatitis C, cirrhosis, fatty liver disease, alcoholic liver disease, autoimmune hepatitis, alanine aminotransferase [ALT] or aspartate aminotransferase [AST] level greater than twice the upper limit of normal)

-HIV infection

- Men who have sex with men

- Injection or noninjection drug use
- Persons experiencing homelessness

 Work with hepatitis A virus in research laboratory or with nonhuman primates with hepatitis A virus infection

Travel in countries with high or intermediate endemic hepatitis A: HepA–HepB (Twinrix) may be administered on an accelerated schedule of 3 doses at 0, 7, and 21–30 days, followed by a booster dose at 12 months

Close, personal contact with international adoptee (e.g., household or regular babysitting) in first 60 days after arrival from country with high or intermediate endemic hepatitis A: dose 1 as soon as adoption is planned; preferably at least 2 weeks before adoptee's arrival.

Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

COVID-19 vaccination - continued

Previous vaccination with Novavax

- 1 dose of any Novavax (dose 1): 1 dose 2024–25 Novavax COVID–19 vaccine 3 weeks after Dose 1
- 2 or more doses any Novavax <u>not including</u> 2024-25 Novavax: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Pfizer–BioNTech or Novavax) at least 8 weeks after the most recent dose.
- 2 or more doses of Novavax <u>including</u> at least 1 dose 2024–25 Novavax: may administer additional doses with Moderna or Pfizer–BioNTech or Novavax.

Previous vaccination with Janssen

- 1 or more doses of Janssen COVID-19 Vaccine <u>not</u> <u>including</u> 1 dose of any 2024-25 COVID-19 vaccine: 1 dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer-BioNTech) at least 8 weeks after the most recent dose.

**Additional doses of 2024-25 COVID-19 vaccine for moderately or severely immunocompromised:

if unvaccinated or completing initial vaccination series, after completing initial vaccination series, administer an additional dose of any 2024-25 COVID-19 vaccine (Moderna or Novavax or Pfizer–BioNTech) 6 months later (minimum interval 2 months). For persons who have completed an initial vaccination series, administer an additional dose of any 2024–25 COVID-19 vaccine 6 months after the most recent dose (minimum interval 2 months). Recommendation for further additional doses is based on shared clinical decision-making and should be administered at least 2 months after the most recent dose. Unvaccinated persons have never received any COVID–19 vaccine doses. 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.

For information about interchangeability of COVID-19 vaccines, see www.cdc.gov/vaccines/covid-19/ clinical-considerations/interim-considerationsus.html#Interchangeability

Current COVID-19 vaccine information available at www.cdc.gov/covidschedule. For information on Emergency Use Authorization (EUA) indications for COVID-19 vaccines, see www.fda.gov/ emergencypreparedness-and-response/coronavirusdisease-2019-covid-19/covid-19-vaccines.

Special situations

WHITE

Anatomical or functional asplenia (including sickle cell disease): 1 dose if previously did not receive Hib vaccine.

Elective splenectomy: 1 dose preferably at least 14 days before splenectomy.

 Hematopoietic stem cell transplant (HSCT): 3-dose series 4 weeks apart starting 6-12 months after successful transplant, regardless of Hib vaccination history.

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Iny person who is not fully vaccinated and requests accination (identification of risk factor not required); omplete 2-dose series HepA (Havrix 6-12 months part or Vaqta 6-18 months apart [minimum interval: 'months]) or 3-dose series HepA-HepB (Twinrix at ', 1, 6 months [minimum intervals: dose 1 to dose 2; 'weeks / dose 2 to dose 3: 5 months])

pecial situations

Any person who is not fully vaccinated and who is at isk for hepatitis A virus infection or severe disease from hepatitis A virus infection include: complete 2-dose series HepA or 3-dose series HepA-HepB as above. Risk factors include:

Chronic liver disease (e.g., persons with hepatitis B, hepatitis C, cirrhosis, fatty liver disease, alcoholic liver disease, autoimmune hepatitis, alanine aminotransferase [ALT] or aspartate aminotransferase [AST] level greater than twice the upper limit of normal)

-HIV infection

Men who have sex with men

Injection or noninjection drug use

Persons experiencing homelessness

Work with hepatitis A virus in research laboratory or with nonhuman primates with hepatitis A virus infection

Travel in countries with high or intermediate endemic hepatitis A: HepA–HepB (Twinrix) may be administered on an accelerated schedule of 3 doses at 0, 7, and 21–30 days, followed by a booster dose at 12 months

Close, personal contact with international adoptee (e.g., household or regular babysitting) in first 60 days after arrival from country with high or intermediate endemic hepatitis A: dose 1 as soon as adoption is planned; preferably at least 2 weeks before adoptee's arrival.

Hepatitis B vaccination

Routine vaccination

- Age 19 through 59 years: complete a 2- or 3- or 4dose series
- 2-dose series only applies when 2 doses of Heplisav–B* are used at least 4 weeks apart
- 3-dose series Engerix-B, PreHevbrio*, or Recombivax HB at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 8 weeks / dose 1 to dose 3: 16 weeks]
- 3–dose series HepA–HepB (Twinrix) at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 5 months]
- 4-dose series HepA-HepB (Twinrix) accelerated schedule of 3 doses at 0, 7, and 21–30 days, followed by a booster dose at 12 months

*Note: Heplisav-B and PreHevbrio are not recommended in pregnancy due to lack of safety data in pregnant persons.

- Age 60 years or older without known risk factors for hepatitis B virus infection may receive a HepB vaccine series.
- Age 60 years or older with known risk factors for hepatitis B virus infection should receive a HepB vaccine series.
- Any adult age 60 years of age or older who requests HepB vaccination should receive a HepB vaccine series.
- Risk factors for hepatitis B virus infection include:
 Chronic liver disease e.g., persons with hepatitis C, cirrhosis, fatty liver disease, alcoholic liver disease, autoimmune hepatitis, alanine aminotransferase

(ALT) or aspartate aminotransferase (AST) level greater than twice the upper limit of normal **HIV infection** Sexual exposure risk e.g., sex partners of hepatitis B surface antigen (HBsAg)–positive persons, sexually active persons not in mutually monogamous relationships, persons seeking evaluation or treatment for a sexually transmitted infection, men who have sex with men

Current or recent injection drug use

Percutaneous or mucosal risk for exposure to

blood e.g., household contacts of HBsAg-positive persons, residents and staff of facilities for developmentally disabled persons, health care and public safety personnel with reasonably anticipated risk for exposure to blood or blood-contaminated body fluids; persons on maintenance dialysis (including in-center or home hemodialysis and peritoneal dialysis), persons who are predialysis, and patients with diabetes*

Incarceration

Travel in countries with high or intermediate endemic hepatitis B

*Age 60 years or older with diabetes: Based on shared clinical decision making, 2–, 3–, or 4–dose series as above.

Special situations

- Patients on dialysis: complete a 3– or 4–dose series
- 3-dose series Recombivax HB at 0, 1, 6 months (Note: Use Dialysis Formulation 1 mL = 40 mcg)
- -4-dose series Engerix-B at 0, 1, 2, and 6 months (Note: Use 2 mL dose instead of the normal adult dose of 1 mL)

 Age 20 years or older with an immunocompromising condition: complete a 2– or 3– or 4–dose series.
 - 3–dose series Recombivax HB at 0,1, 6 months

- (Note: Use Dialysis Formulation 1ml = 40 mcg)
- 4 dose series Engerix–B at 0,1,2, and 6 months (Note: Use 2mL dose instead of the normal adult dose of 1mL)
- 2 dose series Heplisav–B* at 0, 1 months
- 3 dose series PreHevbrio* at 0,1, 6 months

Human papillomavirus vaccination

Routine vaccination

- All persons up through age 26 years: complete 2– or 3–dose series depending on age at initial vaccination or condition
- Age 9–14 years at initial vaccination and received 1 dose or 2 doses less than 5 months apart: 1 additional dose
- Age 9–14 years at initial vaccination and received 2 doses at least 5 months apart: HPV vaccination series complete, no additional dose needed
- 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 the recommended dosing intervals.

Shared clinical decision-making

 Adults age 27–45 years: Based on shared clinical decision—making, complete a 2–dose series (if initiated age 9–14 years) or 3–dose series (if initiated ≥15 years)

For additional information on shared clinical decisionmaking for HPV; see www.cdc.gov/vaccines/hcp/admin/ downloads/isd-job-aid-scdm-hpv-shared-clinicaldecision-making-hpv.pdf

Special situations

- Age ranges recommended above for routine and catch–up vaccination or shared clinical decision– making also apply in special situations
- Immunocompromising conditions, including HIV infection: complete 3-dose series, even for those who initiate vaccination at age 9 through 14 years.
 Pregnancy: Pregnancy testing is not needed before vaccination. HPV vaccination is not recommended until after pregnancy. No intervention needed if inadvertently vaccinated while pregnant. ED FOR NOT APPRISED FOR DIRIL C DISTRIBUTION

Hepatitis B vaccination

Routine vaccination

- Age 19 through 59 years: complete a 2- or 3- or 4dose series
- 2-dose series only applies when 2 doses of Heplisav–B* are used at least 4 weeks apart
- 3-dose series Engerix-B, PreHevbrio*, or Recombivax HB at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 8 weeks / dose 1 to dose 3: 16 weeks]
- 3–dose series HepA–HepB (Twinrix) at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 2 to dose 3: 5 months]
- 4-dose series HepA-HepB (Twinrix) accelerated schedule of 3 doses at 0, 7, and 21–30 days, followed by a booster dose at 12 months

*Note: Heplisav-B and PreHevbrio are not recommended in pregnancy due to lack of safety data in pregnant persons.

- Age 60 years or older without known risk factors for hepatitis B virus infection may receive a HepB vaccine series.
- Age 60 years or older with known risk factors for hepatitis B virus infection should receive a HepB vaccine series.
- Any adult age 60 years of age or older who requests HepB vaccination should receive a HepB vaccine series.
- Risk factors for hepatitis B virus infection include:
 Chronic liver disease e.g., persons with hepatitis C, cirrhosis, fatty liver disease, alcoholic liver disease, autoimmune hepatitis, alanine aminotransferase (ALT) or aspartate aminotransferase (AST) level greater than twice the upper limit of normal
 HIV infection

Sexual exposure risk e.g., sex partners of hepatitis B surface antigen (HBsAg)-positive persons, sexually active persons not in mutually monogamous relationships, persons seeking evaluation or treatment for a sexually transmitted infection, men who have sex with men

Current or recent injection drug use

Percutaneous or mucosal risk for exposure to blood e.g., household contacts of HBsAg-positive persons, residents and staff of facilities for developmentally disabled persons, health care and public safety personnel with reasonably anticipated risk for exposure to blood or blood-contaminated

Delete

Human papillomavirus vaccination

Routine vaccination

- All persons up through age 26 years: complete 2– or 3–dose series depending on age at initial vaccination or condition
- Age 9–14 years at initial vaccination and received 1 dose or 2 doses less than 5 months apart: 1 additional dose
- Age 9–14 years at initial vaccination and received 2 doses at least 5 months apart: HPV vaccination series complete, no additional dose needed
- 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:

ths; repeat dose if

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*Note: Heplisav-B and PreHevbrio are not

Special situations

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• Patients on dialysis: complete a 3- or 4-dose series

- 3–dose series Recombivax HB at 0, 1, 6 months (Note: Use Dialysis Formulation 1 mL = 40 mcg)
- -4-dose series Engerix-B at 0, 1, 2, and 6 months (Note: Use 2 mL dose instead of the normal adult dose of 1 mL)
- Age 20 years or older with an immunocompromising condition: complete a 2– or 3– or 4–dose series.
- 3–dose series Recombivax HB at 0,1, 6 months (Note: Use Dialysis Formulation 1ml = 40 mcg)
- 4 dose series Engerix–B at 0,1,2, and 6 months (Note: Use 2mL dose instead of the normal adult dose of 1mL)
- 2 dose series Heplisav–B* at 0, 1 months
- 3 dose series PreHevbrio* at 0,1, 6 months

For additional information on shared clinical decisionmaking for HPV; see www.cdc.gov/vaccines/hcp/admin/ downloads/isd-job-aid-scdm-hpv-shared-clinicaldecision-making-hpv.pdf

Special situations

- Age ranges recommended above for routine and catch-up vaccination or shared clinical decisionmaking also apply in special situations
- Immunocompromising conditions, including HIV infection: complete 3-dose series, even for those who initiate vaccination at age 9 through 14 years.
 Pregnancy: Pregnancy testing is not needed before vaccination. HPV vaccination is not needed before until after pregnancy. No intervention needed if inadvertently vaccinated while pregnant. D FOR NOT APPRIOTED FOR URLIG DISTRIBUTION

Notes Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Influenza vaccination

Routine vaccination

 Age 19 years or older: 1 dose any influenza vaccine appropriate for age and health status annually.

Solid organ transplant recipients aged 19 through 64 years receiving immunosuppressive medications: high-dose inactivated (HD-IIV3) and adjuvanted inactivated (allV3) influenza vaccines are acceptable options. No preference over other ageappropriate IIV3 or RIV3.

- Age 65 years or older: Any one of high-dose inactivated influenza vaccine (HD-IIV3), recombinant influenza vaccine (RIV3), or adjuvanted inactivated influenza vaccine (aIIV3) is preferred. If none of these three vaccines is available, then any other ageappropriate influenza vaccine should be used.
- For the 2024–25 season, see www.cdc.gov/mmwr/ volumes/73/rr/rr7305a1.htm

 For the 2025–26 season, see the 2025–26 ACIP influenza vaccine recommendations.

Special situations

 Close contacts (e.g., caregivers, healthcare workers) of severely immunosuppressed persons who require a protected environment: should not receive LAIV3. If LAIV3 is given, they should avoid contact with/caring 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 and health status.





Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Meningococcal vaccination

Special situations for MenACWY

 Anatomical or functional asplenia (including sickle cell disease), HIV infection, persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use: 2–dose primary series Menveo or MenQuadfi at least 8 weeks apart; 1 booster dose 5 years after primary series and every 5 years if risk remains.

 Travel in countries with hyperendemic or epidemic meningococcal disease, or microbiologists routinely exposed to Neisseria meningitidis: 1 dose Menveo or MenQuadfi; 1 booster dose 5 years after primary series and every 5 years if risk remains.

 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.

For MenACWY recommendations in outbreak setting (e.g., in community or organizational settings, or among men who have sex with men) and additional meningococcal vaccination information, see www.cdc. gov/mmwr/volumes/69/rr/rr6909a1.htm

Shared clinical decision-making for MenB

 Adolescents and young adults age 16–23 years (age 16–18 years preferred) not at increased risk for meningcocccal disease*: based on shared clinical decision, making

 Bexsero or Trumenba (use same brand for all doses): 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)

*Students with less than 6 months prior to college entry may receive 3-dose series (0, 1–2, 6 months) to optimize rapid protection.

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

Special situations for MenB

 Anatomical or functional asplenia (including sickle cell disease), persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use, or microbiologists routinely exposed to Neisseria meningitidis:

Bexsero or Trumenba (use same brand for all doses including booster doses). 3–dose primary 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).

Booster doses: 1 booster dose one year after primary series and every 2–3 years if risk remains.

 Pregnancy: Delay MenB until after pregnancy due to lack of safety data in pregnant persons. May administer if at increased risk and vaccination benefits outweigh potential risks.

For MenB recommendations in outbreak setting (e.g., in community or organizational settings, or among men who have sex with men) and additional meningococcal vaccination information, see ww.cdc.gov/mmwr/volumes/69/rr/rr6909a1.htm.

Note: MenB vaccines may be administered simultaneously with MenACWY vaccines if indicated, but at a different anatomic site, if feasible.

Adults may receive a single dose of Penbraya (MenACWY-TT/MenB-FHbp) as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day. For adults not at increased risk, if Penbraya is used for dose 1 MenB, MenB-FHbp (Trumenba) should be administered for dose 2 MenB. For adults at increased risk of meningococcal disease, Penbraya may be used for additional MenACWY and MenB doses (including booster doses) if both would be given on the same clinic day **and** at least 6 months have elapsed since most recent Penbraya dose.

Mpox vaccination

Special situation:

 Any person at risk for Mpox infection: complete 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:

A new diagnosis of 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 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.
- Healthcare personnel: Vaccination is not routinely recommended specifically for healthcare personnel due to occupational risk in the workplace. For detailed information, see: www.cdc.gov/mpox/hcp/ vaccine-considerations/vaccination-overview.html? CDC_AAref_Val=https://www.cdc.gov/poxvirus/mpox/ interim-considerations/overview.html





Meningococcal vaccination

Special situations for MenACWY

 Anatomical or functional asplenia (including sickle cell disease), HIV infection, persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use: 2–dose primary series Menveo or MenQuadfi at least 8 weeks apart; 1 booster dose 5 years after primary series and every 5 years if risk remains.

 Travel in countries with hyperendemic or epidemic meningococcal disease, or microbiologists routinely exposed to Neisseria meningitidis: 1 dose Menveo or MenQuadfi; 1 booster dose 5 years after primary series and every 5 years if risk remains.

 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 MenOuadfi.

For MenACWY recommendations **in outbreak setting** (e.g., in community or organizational settings, or among men who have sex with men) and **additional meningococcal vaccination** information, see www.cdc. gov/mmwr/volumes/69/rr/rr6909a1.htm

Shared clinical decision-making for MenB • Adolescents and young adults age 16-23 years (age 16-18 years preferred) not at increased risk for meningococcal disease*: based on shared clinical decision-making.

 Bexsero or Trumenba (use same brand for all doses): 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)

*Students with less than 6 months prior to college entry may receive 3-dose series (0, 1–2, 6 months) to optimize rapid protection.

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

Special situations for MenB

 Anatomical or functional asplenia (including sickle cell disease), persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use, or microbiologists routinely exposed to Neisseria meningitidis:

- Bexsero or Trumenba (use same brand for all doses including booster doses). 3-dose primary 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).

- Booster doses: 1 booster dose one year after primary series and every 2–3 years if risk remains.

Pregnancy: Delay MenB until after pregnancy due to lack of safety data in pregnant persons. May administer if at increased risk and vaccination benefits outweigh potential risks.

ror mens recommendations in outbreak setting (e.g., in community or organizational settings, or among men who have sex with men) and additional meningococcal vaccination information, see ww.cdc.gov/mmwr/volumes/69/rr/rr6909a1.htm.

Note: MenB vaccines may be administered simultaneously with MenACWY vaccines if indicated, but at a different anatomic site, if feasible.

Adults may receive a single dose of Penbraya (MenACWY-TT/MenB-FHbp) as an alternative to separate administration of MenACWY and MenB when both vaccines would be given on the same clinic day. For adults not at increased risk, if Penbraya is used for dose 1 MenB, MenB-FHbp (Trumenba) should be administered for dose 2 MenB. For adults at increased risk of meningococcal disease, Penbraya may be used for additional MenACWY and MenB doses (including booster doses) if both would be given on the same clinic day **and** at least 6 months have elapsed since most recent Penbraya dose.

Mpox vaccination

Special situation:

 Any person at risk for Mpox infection: complete 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:

A new diagnosis of 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 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.

 Healthcare personnel: Vaccination is not routinely recommended specifically for healthcare personnel due to occupational risk in the workplace.
 For detailed information, see: www.cdc.gov/mpox/hcp/ vaccine-considerations/vaccination-overview. html? CDC_AAref_Val=https://www.cdc.gov/poxvirus/mpox/ interim-considerations/overview.html



Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Meningococcal vaccination

Special situations for MenACW

Anatomical or functional asplenia (including sickle cell disease), HIV infection, persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use: 2-dose primary series Menveo or MenQuadfi at least 8 weeks apart; 1 booster dose 5 years after primary series and every 5 years if risk remains.

- Travel in countries with hyperendemic or epidemic meningococcal disease, or microbiologists routinely exposed to Neisseria meningitidis: 1 dose Menveo or MenQuadfi; 1 booster dose 5 years after primary series and every 5 years if risk remains.
- 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.

For MenACWY recommendations in outbreak setting (e.g., in community or organizational settings, or among men who have sex with men) and additional meningococcal vaccination information, see www.

d.gov/mmwr/volumes/69/rr/rr6909a1.htm

Shared clinical decision–making for MenB

 Adolescents and young adults age 16–23 years (age 16–18 years preferred) not at increased risk for meningococcal disease: based on shared clinical decision-making.

- Bexsero or Trumenba (use same brand for all doses including booster doses): 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 www.cdc.gov/ vaccines/hcp/admin/downloads/isd-job-aid-scdmmening-b-shared-clinical-decision-making.pdf

Special situations for MenB

Anatomical or functional asplenia (including sickle cell disease), persistent complement component deficiency, complement inhibitor (e.g., eculizumab, ravulizumab) use, or microbiologists routinely exposed to *Neisseria meningitidis*: Bexsero or Trumenba* (use same brand for all doses including booster doses): 3–dose primary 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). Booster doses: 1 booster dose one year after primary series and every 2–3 years if risk remains.

Pregnancy: Delay Menß until after pregnancy due to lack of safety data in pregnant persons. May administer if at increased risk and vaccination benefit outweigh potential risks.

For MenB recommendations in outbreak setting (e.g., in community or organizational settings, or among me who have sex with men) and additional meningococce vaccination information, see ww.cdc.gov/mmwr/ volumes/69/rr/rr6909a1.htm.

Note: MenB vaccines may be administered simultaneously with MenACWY vaccines if indicated, l at a different anatomic site, if feasible.

Adults 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. For adults not at increased risk, if Penbraya is used for dose 1 MenB, MenB–FHbp (Trumenba) should be administered for dose 2 MenB. For adults at increased risk of meningococcal disease, Penbraya may be used for additional MenACWY and MenB doses (including booster doses) if both would be given on the same clinic day **and** at least 6 months have elapsed since most recent Penbraya dose.

Mpox vaccination

Special situations

- Any person at risk for Mpox infection: complete 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:
- A new diagnosis of 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 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 lynneos.
- Healthcare personnel: Vaccination is not routinely recommended specifically for healthcare personnel due to occupational risk in the workplace.
- For detailed information, see: www.cdc.gov/mpox/hcp/ vaccine-considerations/vaccination-overview. html? CDC_AAref_Val=https://www.cdc.gov/poxvirus/mpox/ interim-considerations/overview.html



Pneumococcal vaccination

Routine vaccination

Age 50 years or older who have:

Not previously received a dose of PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.

 If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).

- Previously received only PCV7: follow the recommendation above.
- Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21at least 1 year after the last PCV13 dose.
- **Previously received only PPSV23**: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.

 \cdot If PCV15 is used, no additional PPSV23 doses are recommended.

 Previously received both PCV13 and PPSV23 but NO PPSV23 was received at age 65 years or older: 1 dose PCV20 or 1 dose PCV21 or 1 dose PPSV23.
 If PCV20 or PCV21 is selected, administer at least 5 years after the last pneumococcal vaccine dose. If PPSV23 is selected, see dosing schedule at https:// www.cdc.gov/pneumococcal/downloads/vaccinetiming-adults-jobaid.pdf?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/downloads/ pneumo-vaccine-timing.pdf.

 Previously received both PCV13 and PPSV23, AND PPSV23 was received at age 65 years or older: Based on shared clinical decision-making, 1 dose of PCV20 or 1 dose of PCV21 at least 5 years after the last pneumococcal vaccine dose.

Special situations

Age 19–49 years with certain underlying medical conditions or other risk factors** who have:

 Not previously received a PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.

 If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).

Previously received only PCV7: follow the recommendation above.

 Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21 at least 1 year after the PCV13 dose.
 Previously received only PPSV23: 1 dose PCV15 or 1 dose PCV20 or PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.

 \cdot If PCV15 is used, no additional PPSV23 doses are recommended.

 Previously received PCV13 and 1 dose of PPSV23: 1 dose PCV20 or 1 dose PCV21 at least 5 years after the last pneumococcal vaccine dose.

Adults aged 19 years and older who have received PCV20 or PCV21: no additional

pneumococcal vaccine dose recommended.

 Pregnancy: no recommendation for PCV or PPSV23 due to limited data. Summary of existing data on pneumococcal vaccination during pregnancy can be found at www.cdc.gov/mmwr/volumes/72/rr/ rr7203a1.html.

 PPSV23 not available: adults aged 19 years or older who received PCV15 but have not yet completed PPSV23 series, can complete the series with either 1 dose of PCV20 or 1 dose of PCV21 if they no longer have access to PPSV23. 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/pneumococcal/hcp/vaccinerecommendations/app.html?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/hcp/pneumoapp. html.

*Note: Immunocompromising conditions include chronic renal failure, nephrotic syndrome, immunodeficiencies, iatrogenic immunosuppression, generalized malignancy, HIV infection, Hodgkin disease, leukemia, lymphoma, multiple myeloma, solid organ transplant, congenital or acquired asplenia, or sickle cell disease or other hemoglobinopathies.



Pneumococcal vaccination

Routine vaccination

- Age 50 years or older who have:
- Not previously received a dose of PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.
- If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).
- Previously received only PCV7: follow the recommendation above.
- Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21 at least 1 year after the last PCV13 dose. - Previously received only PPSV23: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.

 \cdot If PCV15 is used, no additional PPSV23 doses are recommended.

 Previously received both PCV13 and PPSV23 but NO PPSV23 was received at age 65 years or older: 1 dose PCV20 or 1 dose PCV21 or 1 dose PPSV23.
 If PCV20 or PCV21 is selected, administer at least 5 years after the last pneumococcal vaccine dose. If PPSV23 is selected, see dosing schedule at https:// www.cdc.gov/pneumococcal/downloads/vaccinetiming-adults-jobaid.pdf?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/downloads/ pneumo-vaccine-timing.pdf.

 Previously received both PCV13 and PPSV23, AND PPSV23 was received at age 65 years or older: Based on shared clinical decision-making, 1 dose of PCV20 or 1 dose of PCV21 at least 5 years after the last pneumococcal vaccine dose.

Special situations

- Age 19–49 years with certain underlying medical conditions or other risk factors** who have:
 Not previously received a PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.
- If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).
- Previously received only PCV7: follow the recommendation above.
- Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21 at least 1 year after the PCV13 dose. Previously received only PPSV23: 1 dose PCV15 or 1 dose PCV20 or PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.
- If PCV15 is used, no additional PPSV23 doses are recommended.
- Previously received PCV13 and 1 dose of PPSV23: 1 dose PCV20 or 1 dose PCV21 at least 5 years after the last pneumococcal vaccine dose.

Adults aged 19 years and older who have received PCV20 or PCV21: no additional

- pneumococcal vaccine dose recommended.
- Pregnancy: no recommendation for PCV or PPSV23 due to limited data. Summary of existing data on pneumococcal vaccination during pregnancy can be found at www.cdc.gov/mmwr/volumes/72/rr/ rr7203a1.html.
- PPSV23 not available: adults aged 19 years or older who received PCV15 but have not yet completed PPSV23 series, can complete the series with either 1 dose of PCV20 or 1 dose of PCV21 if they no longer have access to PPSV23.

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/pneumococcal/hcp/vaccinerecommendations/app.html?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/hcp/pneumoapp. html.

*Note: Immunocompromising conditions include chronic renal failure, nephrotic syndrome, immunodeficiencies, iatrogenic immunosuppression, generalized malignancy, HIV infection, Hodgkin disease, leukemia, lymphoma, multiple myeloma, solid organ transplant, congenital or acquired asplenia, or sickle cell disease or other hemoglobinopathies.



Pneumococcal vaccination

Routine vaccination

- Age 50 years or older who have:
- Not previously received a dose of PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.
- If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).
- Previously received only PCV7: follow the recommendation above.
- Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21at least 1 year after the last PCV13 dose.
- Previously received only PPSV23: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.

· If PCV15 is used, no additional PPSV23 doses are recommended.

- Previously received both PCV13 and PPSV23 but NO PPSV23 was received at age 65 years or older: 1 dose PCV20 or 1 dose PCV21 or 1 dose PPSV23. If PCV20 or PCV21 is selected, administer at least 5 years after the last pneumococcal vaccine dose. If PPSV23 is selected, see dosing schedule at https:// www.cdc.gov/pneumococcal/downloads/vaccinetiming-adults-jobaid.pdf?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/downloads/ pneumo-vaccine-timing.pdf.

 Previously received both PCV13 and PPSV23, AND PPSV23 was received at age 65 years or older: Based on shared clinical decision-making, 1 dose of PCV20 or 1 dose of PCV21 at least 5 years after the last pneumococcal vaccine dose.

Special situations

- Age 19–49 years with certain underlying medical conditions or other risk factors** who have:
- Not previously received a PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.
- If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).
- Previously received only PCV7: follow the recommendation above.
- Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21 at least 1 year after the PCV13 dose.
 Previously received only PPSV23: 1 dose PCV15 or 1 dose PCV20 or PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.
- \cdot If PCV15 is used, no additional PPSV23 doses are recommended.
- Previously received PCV13 and 1 dose of PPSV23: 1 dose PCV20 or 1 dose PCV21 at least 5 years after the last pneumococcal vaccine dose.

Adults aged 19 years and older who have received PCV20 or PCV21: no additional pneumococcal vaccine dose recommended.

 Pregnancy: no recommendation for PCV or PPSV23 due to limited data. Summary of existing data on pneumococcal vaccination during pregnancy can be found at www.cdc.gov/mmwr/volumes/72/rr/ rr7203a1.html.

 PPSV23 not available: adults aged 19 years or older who received PCV15 but have not yet completed PPSV23 series, can complete the series with either 1 dose of PCV20 or 1 dose of PCV21 if they no longer have access to PPSV23. 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/pneumococcal/hcp/vaccinerecommendations/app.html?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/hcp/pneumoapp. html.

*Note: Immunocompromising conditions include chronic renal failure, nephrotic syndrome, immunodeficiencies, iatrogenic immunosuppression, generalized malignancy, HIV infection, Hodgkin disease, leukemia, lymphoma, multiple myeloma, solid organ transplant, congenital or acquired asplenia, or sickle cell disease or other hemoglobinopathies.



Pneumococcal vaccination

Routine vaccination

- Age 50 years or older who have:
- Not previously received a dose of PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.

 If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).

- Previously received only PCV7: follow the recommendation above.
- Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21at least 1 year after the last PCV13 dose.
- Previously received only PPSV23: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.

 \cdot If PCV15 is used, no additional PPSV23 doses are recommended.

- Previously received both PCV13 and PPSV23 but NO PPSV23 was received at age 65 years or older: 1 dose PCV20 or 1 dose PCV21 or 1 dose PPSV23. If PCV20 or PCV21 is selected, administer at least 5 years after the last pneumococcal vaccine dose. If PPSV23 is selected, see dosing schedule at https:// www.cdc.gov/pneumococcal/downloads/vaccinetiming-adults-jobaid.pdf?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/downloads/ pneumo-vaccine-timing.pdf.

 Previously received both PCV13 and PPSV23, AND PPSV23 was received at age 65 years or older: Based on shared clinical decision-making, 1 dose of PCV20 or 1 dose of PCV21 at least 5 years after the last pneumococcal vaccine dose.

Special situations

 Age 19–49 years with certain underlying medical conditions or other risk factors** who have:
 Not previously received a PCV13, PCV15, PCV20, or PCV21 or whose previous vaccination history is unknown: 1 dose PCV15 or 1 dose PCV20 or 1 dose PCV21.

 If PCV15 is used, administer 1 dose PPSV23 at least 1 year after the PCV15 dose (may use minimum interval of 8 weeks for adults with an immunocompromising condition,* cochlear implant, or cerebrospinal fluid leak).

Previously received only PCV7: follow the recommendation above.

 Previously received only PCV13: 1 dose PCV20 or 1 dose PCV21 at least 1 year after the PCV13 dose. Previously received only PPSV23: 1 dose PCV15 or 1 dose PCV20 or PCV21. Administer either PCV15 or PCV20 or PCV21 at least 1 year after the last PPSV23 dose.

· If PCV15 is used, no additional PPSV23 doses are recommended.

 Previously received PCV13 and 1 dose of PPSV23: 1 dose PCV20 or 1 dose PCV21 at least 5 years after the last pneumococcal vaccine dose.

Adults aged 19 years and older who have received PCV20 or PCV21: no additional pneumococcal vaccine dose recommended.

 Pregnancy: no recommendation for PCV or PPSV23 due to limited data. Summary of existing data on pneumococcal vaccination during pregnancy can be found at www.cdc.gov/mmwr/volumes/72/tr/

rr7203a1.html.

 PPSV23 not available: adults aged 19 years or older who received PCV15 but have not yet completed PPSV23 series, can complete the series with either 1 dose of PCV20 or 1 dose of PCV21 if they no longer have access to PPSV23. 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/pneumococcal/hcp/vaccinerecommendations/app.html?CDC_AAref_Val=https:// www.cdc.gov/vaccines/vpd/pneumo/hcp/pneumoapp. html.

*Note: Immunocompromising conditions include chronic renal failure, nephrotic syndrome, immunodeficiencies, iatrogenic immunosuppression, generalized malignancy, HIV infection, Hodgkin disease, leukemia, lymphoma, multiple myeloma, solid organ transplant, congenital or acquired asplenia, or sickle cell disease or other hemoglobinopathies.



S Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Pollovirus vaccination

Routine vaccination

Adults 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 adults who were born and raised in the United States can assum they were vaccinated against polio as children.

Special situations

 Adults at increased risk for exposure to poliovirus who completed primary series*: may administer one lifetime IPV booster

*Note: Complete primary series consists 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

RSV vaccination

Routine vaccination

Pregnant persons of any age

 Pregnant at 32 weeks 0 days through 36 weeks and 6 days gestation from September through January in most of the continental United States*: 1 dose Abrysvo. Administer RSV vaccine regardless of previous RSV infection.

 Either maternal RSV vaccination with Abrysvo or infant immunization with nirsevimab (RSV monoclonal antibody) is recommended to prevent severe respiratory syncytial virus disease in infants.
 All other pregnant persons: RSV vaccine not

recommended.

 Subsequent pregnancies: additional doses not recommended. No data are available to inform whether additional doses are needed in subsequent pregnancies. Infants born to pregnant persons who received RSV vaccine during a previous pregnancy should receive nirsevimab.

*Note: Providers in jurisdictions with RSV seasonality that differs from most of the continental United States (e.g., Alaska, jurisdictions with tropical climate) should follow guidance from public health authorities on timing of administration. Refer to the 2025 Child and Adolescent Immunization Schedule for considerations regarding nirsevimab administration to infants.

Age 75 years or older

 - Unvaccinated: 1 dose (Arexvy or Abrysvo or mResvia). Additional doses not recommended.
 - Previously vaccinated: additional doses not recommended. No data are available to inform

recommended. No data are available to inform whether additional doses are needed.

Special situations

Age 60–74 years:

- Unvaccinated and at increased risk of severe RSV disease**: 1 dose (Arexvy or Abrysvo or mResvia). Additional doses not recommended. Previously vaccinated: additional doses not recommended. No data are available to inform whether additional doses are needed.

Persons 60 years and older can get RSV vaccine at any time but best to administer in late summer and early fall before RSV spreads in communities—ideally August through October in most of continental United States. For further guidance, see www.cdc.gov/mmwr/ volumes/73/wr/mm7332e1.htm?s_cid=mm7332e1_w

**Note: People can self-attest to the presence of a risk factor. The following medical and other conditions increase the risk of severe RSV disease: chronic cardiovascular disease (e.g., heart failure, coronary artery disease, congenital heart disease [excluding isolated hypertension]); chronic lung or respiratory disease (e.g., chronic obstructive pulmonary disease, emphysema, asthma, interstitial lung disease, cystic fibrosis); end stage renal disease or dependence on hemodialysis or other renal replacement therapy; diabetes mellitus complicated by chronic kidney disease, neuropathy, retinopathy, or other end-organ damage; diabetes mellitus requiring treatment with insulin or sodium-glucose cotransporter 2 (SGLT2) inhibitor; neurologic or neuromuscular conditions causing impaired airway clearance or respiratory muscle weakness (e.g., post-stroke dysphagia, amyotrophic lateral sclerosis, muscular dystrophy [excluding history of stroke without impaired airway clearance]); chronic liver disease (e.g., cirrhosis); chronic hematologic conditions (e.g., sickle cell disease, thalassemia); severe obesity (body mass index ≥ 40 kg/m2); moderate or severe immune compromise; residence in a nursing home; and other chronic medical conditions or risk factors that a health care provider determines would increase the risk of severe disease due to viral respiratory infection (e.g., frailty, concern for presence of undiagnosed chronic medical conditions, residence in a remote or rural community where escalation of medical care is challenging), TED FOR NOT APPROVED UTION PUBLIC DISTRIBUTION

S Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Pollovirus vaccination

Routine vaccination

Adults 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 adults who were born and raised in the United States can assum they were vaccinated against polio as children.

Special situations

 Adults at increased risk for exposure to poliovirus who completed primary series *: may administer one lifetime IPV booster

*Note: Complete primary series consists 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

RSV vaccination

Routine vaccination

Pregnant persons of any age

Pregnant at 32 weeks 0 days through 36 weeks and 6 days gestation from September through January in most of the continental United States*: 1 dose Abrysvo. Administer RSV vaccine regardless of previous RSV infection.

 Either maternal RSV vaccination with Abrysvo or infant immunization with nirsevimab (RSV monoclonal antibody) is recommended to prevent severe respiratory syncytial virus disease in infants.
 All other pregnant persons: RSV vaccine not recommended.

Subsequent pregnancies: additional doses not recommended. No data are available to inform whether additional doses are needed in subsequent pregnancies. Infants born to pregnant persons who received RSV vaccine during a previous pregnancy should receive nirsevimab.

*Note: Providers in jurisdictions with RSV seasonality that differs from most of the continental United States (e.g., Alaska, jurisdictions with tropical climate) should follow guidance from public health authorities on timing of administration. Refer to the 2025 Child and Adolescent Immunization Schedule for considerations regarding nirsevimab administration to infants.

- Age 75 years or older
- Unvaccinated: 1 dose (Arexvy or Abrysvo or mResvia). Additional doses not recommended.
- **Previously vaccinated:** additional doses not recommended. No data are available to inform whether additional doses are needed.

Special situations

- Age 60–74 years:
- Unvaccinated and at increased risk of severe RSV disease**: 1 dose (Arexvy or Abrysvo or mResvia).
 Additional doses not recommended.

- **Previously vaccinated:** additional doses not recommended. No data are available to inform whether additional doses are needed.

Persons 60 years and older can get RSV vaccine at any time but best to administer in late summer and early fall before RSV spreads in communities—ideally August through October in most of continental United States. For further guidance, see www.cdc.gov/mmwr/ volumes/73/wr/mm7332e1.htm?s_cid=mm7332e1_w

**Note: People can self-attest to the presence of a risk factor. The following medical and other conditions increase the risk of severe RSV disease: chronic cardiovascular disease (e.g., heart failure, coronary attem disease comparish heart disease for which a

artery disease, congenital heart disease [excluding isolated hypertension]); chronic lung or respiratory disease (e.g., chronic obstructive pulmonary disease, emphysema, asthma, interstitial lung disease, cystic fibrosis); end stage renal disease or dependence on hemodialysis or other renal replacement therapy; diabetes mellitus complicated by chronic kidney disease, neuropathy, retinopathy, or other end-organ damage; diabetes mellitus requiring treatment with insulin or sodium-glucose cotransporter 2 (SGLT2) inhibitor; neurologic or neuromuscular conditions causing impaired airway clearance or respiratory muscle weakness (e.g., post-stroke dysphagia, amyotrophic lateral sclerosis, muscular dystrophy [excluding history of stroke without impaired airway clearance]); chronic liver disease (e.g., cirrhosis); chronic hematologic conditions (e.g., sickle cell disease, thalassemia); severe obesity (body mass index ≥ 40 kg/m2); moderate or severe immune compromise; residence in a nursing home; and other chronic medical conditions or risk factors that a health care provider. determines would increase the risk of severe disease due to viral respiratory infection (e.g., frailty, concern for presence of undiagnosed chronic medical conditions, residence in a remote or rural community where escalation of medical care is challenging), TED FOR NOT APPIDOVED UTION

S Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Pollovirus vaccination

Routine vaccination

Adults 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 adults who were born and raised in the United States can assum they were vaccinated against polio as children.

Special situations

 Adults at increased risk for exposure to poliovirus who completed primary series *: may administer one lifetime IPV booster

*Note: Complete primary series consists 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

RSV vaccination

Routine vaccination

Pregnant persons of any age

 Pregnant at 32 weeks 0 days through 36 weeks and 6 days gestation from September through January in most of the continental United States*: 1 dose Abrysvo. Administer RSV vaccine regardless of previous RSV infection.

 Either maternal RSV vaccination with Abrysvo or infant immunization with nirsevimab (RSV monoclonal antibody) is recommended to prevent severe respiratory syncytial virus disease in infants.
 All other pregnant persons: RSV vaccine not

recommended.

 Subsequent pregnancies: additional doses not recommended. No data are available to inform whether additional doses are needed in subsequent pregnancies. Infants born to pregnant persons who received RSV vaccine during a previous pregnancy should receive nirsevimab.

*Note: Providers in jurisdictions with RSV seasonality that differs from most of the continental United States (e.g., Alaska, jurisdictions with tropical climate) should follow guidance from public health authorities on timing of administration. Refer to the 2025 Child and Adolescent Immunization Schedule for considerations regarding nirsevimab administration to infants.

- Age 75 years or older
- Unvaccinated: 1 dose (Arexvy or Abrysvo or mResvia). Additional doses not recommended.
- Previously vaccinated: additional doses not recommended. No data are available to inform whether additional doses are needed.

Special situations

• Age 60–74 years:

 - Unvaccinated and at increased risk of severe RSV disease**: 1 dose (Arexvy or Abrysvo or mResvia).
 Additional doses not recommended. - **Previously vaccinated:** additional doses not recommended. No data are available to inform whether additional doses are needed.

Persons 60 years and older can get RSV vaccine at any time but best to administer in late summer and early fall before RSV spreads in communities—ideally August through October in most of continental United States. For further guidance, see www.cdc.gov/mmwr/ volumes/73/wr/mm7332e1.htm?s_cid=mm7332e1_w

**Note: People can self-attest to the presence of a risk factor. The following medical and other conditions increase the risk of severe RSV disease: chronic cardiovascular disease (e.g., heart failure, coronarv artery disease, congenital heart disease [excluding isolated hypertension]); chronic lung or respiratory disease (e.g., chronic obstructive pulmonary disease, emphysema, asthma, interstitial lung disease, cystic fibrosis); end stage renal disease or dependence on hemodialysis or other renal replacement therapy; diabetes mellitus complicated by chronic kidney disease, neuropathy, retinopathy, or other end-organ damage; diabetes mellitus requiring treatment with insulin or sodium-glucose cotransporter 2 (SGLT2) inhibitor; neurologic or neuromuscular conditions causing impaired airway clearance or respiratory muscle weakness (e.g., post-stroke dysphagia, amyotrophic lateral sclerosis, muscular dystrophy [excluding history of stroke without impaired airway clearance]); chronic liver disease (e.g., cirrhosis); chronic hematologic conditions (e.g., sickle cell disease, thalassemia); severe obesity (body mass index ≥ 40 kg/m2); moderate or severe immune compromise; residence in a nursing home; and other chronic medical conditions or risk factors that a health care provider. determines would increase the risk of severe disease due to viral respiratory infection (e.g., frailty, concern for presence of undiagnosed chronic medical conditions, residence in a remote or rural community where escalation of medical care is challenging), TED FOR NOT AF

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S Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Pollovirus vaccination

Routine vaccination

Adults 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 adults who were born and raised in the United States can assum they were vaccinated against polio as children.

Special situations

 Adults at increased risk for exposure to poliovirus who completed primary series *: may administer one lifetime IPV booster

*Note: Complete primary series consists 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

RSV vaccination

Routine vaccination

Pregnant persons of any age

 Pregnant at 32 weeks 0 days through 36 weeks and 6 days gestation from September through January in most of the continental United States*: 1 dose Abrysvo. Administer RSV vaccine regardless of previous RSV infection.

 Either maternal RSV vaccination with Abrysvo or infant immunization with nirsevimab (RSV monoclonal antibody) is recommended to prevent severe respiratory syncytial virus disease in infants.
 All other pregnant persons: RSV vaccine not

recommended.

 Subsequent pregnancies: additional doses not recommended. No data are available to inform whether additional doses are needed in subsequent pregnancies. Infants born to pregnant persons who received RSV vaccine during a previous pregnancy should receive nirsevimab.

*Note: Providers in jurisdictions with RSV seasonality that differs from most of the continental United States (e.g., Alaska, jurisdictions with tropical climate) should follow guidance from public health authorities on timing of administration. Refer to the 2025 Child and Adolescent Immunization Schedule for considerations regarding nirsevimab administration to infants.

- Age 75 years or older
- Unvaccinated: 1 dose (Arexvy or Abrysvo or mResvia). Additional doses not recommended.
- **Previously vaccinated:** additional doses not recommended. No data are available to inform whether additional doses are needed.

Special situations

- Age 60–74 years:
- Unvaccinated and at increased risk of severe RSV disease**: 1 dose (Arexvy or Abrysvo or mResvia).
 Additional doses not recommended.

 Previously vaccinated: additional doses not recommended. No data are available to inform whether additional doses are needed.

Persons 60 years and older can get RSV vaccine at any time but best to administer in late summer and early fall before RSV spreads in communities—ideally August through October in most of continental United States. For further guidance, see www.cdc.gov/mmwr/ volumes/73/wr/mm7332e1.htm?s_cid=mm7332e1_w

**Note: People can self-attest to the presence of a risk factor. The following medical and other conditions increase the risk of severe RSV disease: chronic cardiovascular disease (e.g., heart failure, coronary artery disease, congenital heart disease [excluding isolated hypertension]); chronic lung or respiratory disease (e.g., chronic obstructive pulmonary disease, emphysema, asthma, interstitial lung disease, cystic fibrosis); end stage renal disease or dependence on hemodialysis or other renal replacement therapy; diabetes mellitus complicated by chronic kidney disease, neuropathy, retinopathy, or other end-organ damage; diabetes mellitus requiring treatment with insulin or sodium-glucose cotransporter 2 (SGLT2) inhibitor; neurologic or neuromuscular conditions causing impaired airway clearance or respiratory muscle weakness (e.g., post-stroke dysphagia, amyotrophic lateral sclerosis, muscular dystrophy [excluding history of stroke without impaired airway clearance]); chronic liver disease (e.g., cirrhosis); chronic hematologic conditions (e.g., sickle cell disease, thalassemia); severe obesity (body mass index ≥ 40 kg/m2); moderate or severe immune compromise; residence in a nursing home; and other chronic medical conditions or risk factors that a health care provider. determines would increase the risk of severe disease due to viral respiratory infection (e.g., frailty, concern for presence of undiagnosed chronic medical conditions, residence in a remote or rural community where escalation of medical care is challenging), TED FOR NOT APPINOVED UTION

es Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Tetanus, diphtheria, and pertussis vaccination

Routine vaccination

Completed primary series and received at least 1 dose Tdap at age 10 years or older: Td or Tdap every 10 years thereafter.

Completed primary series and did NOT receive Tdap at age 10 years or older: 1 dose Tdap, then Td or Tdap every 10 years thereafter.

Unvaccinated or incomplete primary vaccination series for tetanus, diphtheria, or pertussis: administer remaining doses (1,2, or 3 doses) to complete 3–dose primary series. 1 dose Tdap followed by 1 dose Td or Tdap at least 4 weeks later, and a third dose of Td or Tdap 6–12 months later (Tdap is preferred as first dose and can be substituted for any Td dose), then Td or Tdap every 10 years thereafter.

Special situations

 Pregnancy: 1 dose Tdap during each pregnancy, preferably in early part of gestational weeks 27–36.

 Wound management: Persons with 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-toxoid-containing 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 who have not previously received Tdap or whose Tdap history is unknown. If a tetanus-toxoid-containing vaccine is indicated for a pregnant woman, use Tdap. For detailed information, see www.cdc.gov/mmwr/ volumes/69/wr/mm6903a5.htm

Varicella vaccinatio

outine vaccination

No evidence of immunity to varicella: 2–dose series 1–8 weeks apart if previously did not receive varicellacontaining vaccine (VAR or MMRV [measles–mumps– ubella–varicella vaccine] for children); if previously received 1 dose varicella–containing vaccine, 1 dose at east 4 weeks after first dose.

Evidence of immunity: U.S.-born before 1980 (except for pregnant persons and health care bersonnel [see below]), documentation of 2 doses varicella-containing vaccine at least 4 weeks apart, diagnosis or verification of history of varicella or nerpes zoster by a health care provider, laboratory evidence of immunity or disease.

pecial situation

Pregnancy with no evidence of immunity to varicella: VAR contraindicated during pregnancy; after pregnancy (before discharge from health care facility), 1 dose if previously received 1 dose varicellacontaining vaccine or dose 1 of 2–dose series (dose 2: 4–8 weeks later) if previously did not receive any varicella–containing vaccine, regardless of whether U.S.–born before 1980.

Health care personnel with no evidence of immunity to varicella: 1 dose if previously received 1 dose varicella-containing vaccine; 2-dose series 4-8 weeks apart if previously did not receive any varicellacontaining vaccine, regardless of whether U.S.-born before 1980.

HIV infection with CD4 percentages ≥15% and CD4 count ≥200 cells/mm³ with no evidence of immunity: Vaccination may be considered (2 doses 3 months apart); VAR contraindicated for HIV infection with CD4 percentage <15% or CD4 count <200 cells/mm³

Severe immunocompromising conditions: VAR contraindicated.

Zoster vaccinatio

Routine vaccination

 Age 50 years or older*: 2-dose series recombinan zoster vaccine (RZV, Shingrix) 2-6 months apart (minimum interval: 4 weeks; repeat dose if administered too soon), regardless of previous herpes zoster or history of zoster vaccine live (ZVL, Zostavax) vaccination.

*Note: Serologic evidence of prior varicella is not necessary for zoster vaccination. However, if serologic evidence of varicella susceptibility becomes available, providers should follow ACIP guidelines for varicella vaccination first. RZV is not indicated for the prevention of varicella, and there are limited data on the use of RZV in persons without a history of varicella or varicella vaccination.

Special situations

- Pregnancy: There is currently no ACIP recommendation for RZV use in pregnancy. Consider delaying RZV until after pregnancy
- Immunocompromising conditions (including persons with HIV regardless of CD4 count)**: 2-dose series recombinant zoster vaccine (RZV, Shingrix)
 2-6 months apart (minimum interval: 4 weeks; repeat dose if administered too soon). For detailed information, see www.cdc.gov/shingles/hcp/vaccineconsiderations/immunocompromised-adults.html

**Note: If there is no documented history of varicella, varicella vaccination, or herpes zoster, providers should refer to the clinical considerations for use of RZV in immunocompromised adults aged ≥19 years and the ACIP varicella vaccine recommendations for further guidance: www.cdc.gov/mmwr/volumes/71/wr/ mm7103a2.htm



Appendix

Contraindications and precautions

AppendixRecommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Vaccine	Contraindicated or Not Recommended ¹	Precautions ²
Haemophilus influenzae type b (Hib)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ 	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: PreHevibrio is not recommeded due to lack of safety data in pregnant persons. Use other heyedtits B vaccines if HepB is indicated^{ef} 	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 component³ 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)	 Severe allergic reaction (e.g., anaphydaxi) 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) 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 thrombocytopenia or thrombocytopenic purpura Need for tubercular skin testing or interferon-gamma release assay (IGRA) testing Moderate or severe acute illness with or without fever
Meningococcal ACWY (MenACWY) (MenACWY–CRM) [Menveo] (MenACWY–TT) [MenQuadfi]	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ For MenACWY-CRM only: severe allergic reaction to any diphtheria toxoid-or CRM 197–containing vaccine For MenACWY-T only: severe allergic reaction to a tetratus toxoid-containing vaccine 	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 component³ 	Pregnancy For MenB–4C only: Latex sensitivity Moderate or severe acute illness with or without fever
Meningococcal ABCWY (MenACWY–TT/MenB–FHbp) [Penbraya]	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ 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 component³ 	Moderate or severe acute illness, with or without fever
Pneumococcal conjugate (PCV15, PCV20, PCV21)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ³ Severe allergic reaction (e.g., anaphylaxis) to any diphtheria–toxoid–containing vaccine or to its vaccine component ³	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 component³ 	 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 component³ 	Pregnancy Moderate or severe acute illness with or without fever
Respiratory syncytial virus vaccine (RSV)	 Severe allergic reaction (e.g., anaphylaxis) to a vaccine component 	 Moderate or severe acute illness with or without fever
Tetanus, diphtheria, and acellular pertusisi (Tdap) Tetanus, diphtheria (Td)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component¹ 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- toxical-containing vaccine History of Arthus-type hypersensitivity reactions after a previous dose of diphtheria-toxoid-containing or tetanus-toxoid-containing vaccine; defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid- containing vaccine. Moderate or severe acute lilness with or without fever - For Tdap only: Progressive or unstable neurological disorder, uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized
Varicella (VAR)	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) Pregnancy Family history of altered immunocompetence, unless verified clinically or by laboratory testing as immunocompetent	Recent (<11 months) receipt of antibodycontaining blood product (specific interval depends on product) Receipt of specific antivirial drugs (acyclovir, famciclovir, or valacyclovin) 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
Zoster recombinant vaccine (RZV)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ 	Moderate or severe acute illness with or without fever Current episode of herpes zoster

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

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

 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 PreHevbrio while pregnant, please visit www.prehevbrio.com/#safety.

Appendix

Recommended Adult Immunization Schedule for Ages 19 Years or Older, United States, 2025

Vaccine	Contraindicated or Not Recommended ¹	Precautions ²
Haemophilus influenzae type b (Hib)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component^a 	
Hepatitis A (HepA)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ including neomycin 	Delete
Hepatitis B (HepB)	Sevene alleraire reaction (a.e. anaphylaxis) affer a newioux does on to a varcine component ¹ includine veset - Pregnancy: Heipikar-Band PreHevbrio are not recommended due to lack of safety data in pregnant persons. Use other hepatitis Bryacinesif Heipi B indicated ¹	Pregnancy: Heplisav-B and PreHevbrio
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 yea 	are not recommended due to lack of safety data in pregnant persons. Use
łuman papillomavirus (HPV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ¹ Pregnancy: HPV vaccination not recommended	other hepatitis B vaccines if HepB is
Vleasles, mumps, rubella (MMR)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component⁴ 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 	indicated.
	Family history of altered immunocompetence, unless verified clinically or by laboratory testing as immunocompetent	Moderate or severe acute illness with or without fever
Meningococcal ACWY (MenACWY) (MenACWY–CRM) [Menveo] (MenACWY–TT) [MenQuadfi]	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component⁴ For MenACWY-CRM only: severe allergic reaction to any dipitheria toxoid–or CRM197–containing vaccine For MenACWY-TI only: severe allergic reaction to a tetanus toxoid–containing vaccine 	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 	 Prognancy For MenB-4C only: Latex sensitivity Moderate or severe acute illness with or without fever
Meningococcal ABCWY (MenACWY–TT/MenB–FHbp) [Penbraya]	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component^a 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^a 	Moderate or severe acute illness, with or without fever
Pneumococcal conjugate (PCV15, PCV20, PCV21)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component³ Severe allergic reaction (e.g., anaphylaxis) to any diphtheria–toxoid–containing vaccine or to its vaccine component³ 	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 component³ 	Pregnancy Moderate or severe acute illness with or without fever
Respiratory syncytial virus vaccine (RSV)	 Severe allergic reaction (e.g., anaphylaxis) to a vaccine component 	 Moderate or severe acute illness with or without fever
Tetanus, diphtheria, and acellular pertussis (Tdan) Tetanus, diphtheria (Td)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component² 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 diptrikeria-toxoid-containing or tetanus-toxoid-containing vaccine; defer vaccination until at least 10 years have elapsed since the last tetanus-toxoid- containing vaccine Moderate or severe acute lilness with or without fever For Tdap only: Progressive or unstable neurological disorder, uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized
Varicella (VAR)	 Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component⁴ 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 product) Receipt of specific antiviral drugs (acyclovir, famciclovir, or valacyclovir) 24 hours before vaccination (axoid 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 feyer.
Zoster recombinant vaccine (RZV)	Severe allergic reaction (e.g., anaphylaxis) after a previous dose or to a vaccine component ¹	Moderate or severe acute illness with or without fever Current episode of herpes zoster
 When a precaution is present, vaccina for Immunization. www.cdc.gov/vacc Vaccination providers should check F fda.gov/vaccines-blood-biologics/ar 	accine should NOT be administered. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines for Immunization. www.cdd ation should generally be deferred but might be indicated if the benefit of protection from the vaccine outweighs the risk for insers/top/scip-recz/general-acces/contraindications.html DA-approved prescribing information for the most complete and updated information, including contraindications, warning normed-modultry/accines-litered-tates.	r an adverse reaction. Kroger A, Bahta L, Hunter P. ACIP General Best Practice Guidelines gs, and precautions. Package inserts for U.S. Hicensed Vaccines are available at WWW.
 For information on the pregnancy exp 	posure registries for persons who were inadvertently vaccinated with PreHevbrio while pregnant, please visit www.prehevbri	excom/#safety. Public Page 13



For more information, contact CDC/ATSDR 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov www.atsdr.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 and the Agency for Toxic Substances and Disease Registry.



Backup slides

Use of Hepatitis B vaccine during pregnancy(1)

- On September 11, 2024, the FDA announced its approval for a labeling change for Heplisav-B stating that there is now safety data for its use among pregnant persons.
- CDC has an update regarding this labeling change in clearance for publication in MMWR.
 - Update recommends, Providers can now vaccinate pregnant persons needing HepB vaccination with Engerix-B, Recombivax HB, Twinrix, or Heplisav-B.

Use of Hepatitis B vaccine during pregnancy(2)

- Prior to September 2024, neither Heplisav-B nor PreHevbrio had sufficient safety data among pregnant persons to meet FDA requirements for update to their standardized package inserts.
 - 8.1 Pregnancy

Risk Summary

All pregnancies have a risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

<u>Data</u>

Human Data: Determination that rates of miscarriage and birth defects are not above background.

Animal Data: Data from developmental toxicity studies if they exist.

Use of Hepatitis B vaccine during pregnancy(3)

- Recommendations for vaccination of pregnant persons is addressed in the 2018 MMWR: Prevention of Hepatitis B Virus Infection in the United States: Recommendations of the Advisory Committee on Immunization Practices.
 - Guideline lists and describes all vaccines <u>recommended for use in the United States</u> but makes NO preferential recommendation for use of any particular vaccine.