for ages 19 years or older Recommended Adult Immunization Schedule

UNITED STATES

How to use the adult immunization schedule

vaccinations by age

Determine recommended 2 Assess need for additional vaccinations by age 2 recommended vaccinations other indications (Table 2) by medical condition and

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

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

Vaccines in the Adult Immunization Schedule*

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Vaccines	Abbreviations	Trade names
Haemophilus influenzae type b vaccine	HIIb	ActHiB* Hiberix* PedvaxHiB*
Hepatitis A vaccine	НерА	Havrix* Vaqta*
Hepatitis A and hepatitis B vaccine	НерА-НерВ	Twinrix*
Hepatitis B vaccine	НерВ	Engerix-B* Recombivax HB* Heplisav-B*
Human papillomavirus vaccine	HPV	Gardasil 9°
Influenza vaccine (inactivated)	IV	Many brands
Influenza vaccine (live, attenuated)	LAIV4	FluMist® Quadrivalent
Influenza vaccine (recombinant)	RIV4	Flublok* Quadrivalent
Measles, mumps, and rubella vaccine	MMR	M-M-R II®
Meningococcal serogroups A, C, W, Y vaccine	MenACWY-D MenACWY-CRM MenACWY-TT	Menactra® Menveo® MenQuadfi®
Meningococcal serogroup B vaccine	MenB-4C MenB-FHbp	Bexsero* Trumenba*
Pneumococcal 13-valent conjugate vaccine	PCV13	Prevnar 13°
Pneumococcal 23-valent polysaccharide vaccine	PPSV23	Pneumovax 23*
Tetanus and diphtheria toxoids	Ъ	Tenivac* Tdvax™
Tetanus and diphtheria toxoids 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 imply endorsement by the ACIP or CDC series if there are extended intervals between doses. The use of trade names is for identification purposes only and does not

Report

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

njury claims

claim is available at www.hrsa.gov/vaccinecompensation. All vaccines included in the adult immunization schedule except pneumococcal Vaccine Injury Compensation Program. Information on how to file a vaccine injury 23-valent polysaccharide (PPSV23) and zoster (RZV) vaccines are covered by the

Questions or comments

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

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

Helpful information

- Complete ACIP recommendations:
- www.cdc.gov/vaccines/hcp/acip-recs/index.htm
- General Best Practice Guidelines for Immunization www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.htm (including contraindications and precautions):
- 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):
- Travel vaccine recommendations: www.cdc.gov/travel www.cdc.gov/vaccines/pubs/surv-manual
- Recommended Child and Adolescent Immunization Schedule, United States, 2021:
- www.cdc.gov/vaccines/schedules/hcp/child-adolescent.html
- ACIP Shared Clinical Decision-Making Recommendations www.cdc.gov/vaccines/acip/acip-scdm-faqs.html



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

Table 1 Recommended Adult Immunization Schedule by Age Group, United States, 2021

Haemophilus influenzae type b (Hib)	Meningococcal B (MenB)	Meningococcal A, C, W, Y (MenACWY)	Hepatitis B (HepB)	Hepatitis A (HepA)	Pneumococcal polysaccharide (PPSV23)	Pneumococcal conjugate (PCV13)	Human papillomavirus (HPV)	Zoster recombinant (RZV)	Varicella (VAR)	Measies, mumps, rubella (MMR)	Tetanus, diphtheria, pertussis (Tdap or Td)	Influenza inactivated (IIV) or Influenza recombinant (RIV4) Influenza live, attenuated (LAIV4)	Vaccine
	2 or 3 dose 19 through 23 years	1 or 2 do		2 or 3 doses depending on vaccine			2 or 3 doses depending on age at initial vaccination or condition		2 dose	1 or 2 doses depending on indication (if born in 1957 or later)	1 dose		19–26 years
1 or 3 doses deper	s depending on vaccine and indic	doses depending on indication,	2 or 3 doses depo		1 or 2 doses depending on indication	1 dose	27 through 45 years		2 doses (if born in 1980 or later)		Tdap each pregnancy; 1 dose Td/ 1 dose Tdap, then Td or To	1 dose annually 	27–49 years
1 or 3 doses depending on indication	2 or 3 doses depending on vaccine and indication, see notes for booster recommendations	1 or 2 doses depending on indication, see notes for booster recommendations	2 or 3 doses depending on vaccine					2 doses			1 dose Tdap each pregnancy; 1 dose Td/Tdap for wound management (see notes) 1 dose Tdap, then Td or Tdap booster every 10 years		50–64 years
	nendations	ions			1 dose	1 dose		ses			notes)		≥65 years

Recommended vaccination based on shared clinical decision-making

Table 2 Recommended Adult Immunization Schedule by Medical Condition and Other Indications, United States, 2021

Recommended vacci for adults who meet age requirement, lac documentation of vaccination, or lack	Ħ	MenB	MenACWY	HepB	НерА	PPSV23	PCV13	НРV	RZV	VAR	MMR	Tdap or Td	LAIV4	Or RIV4	Vaccine					
Recommended vaccination for adults who meet age requirement, lack documentation of vaccination, or lack		Precaution						Not Recommended*		Not Recommended*	Not Recommended*	1 dose Tdap each pregnancy			Pregnancy					
Recommended vaccination for adults with an additional risk factor or another indication	3 doses HSCT ^a recipients only		1 or 2 de					3 doses through age 26 years		Not Recommended	. Not Recommended		Not Reco		Immuno- compromised (excluding HIV infection)					
vaccination n additional other		2 or 3	oses dependi					jh age 26 yea		ended	ended		Not Recommended		HIV infection CD4 count <200 ≥200 mm³ mm³					
Precaution—vaccination might be indicated if benefit of protection outweighs risk of adverse reaction	1 d	r 3 doses depending on vaccine and indication	1 or 2 doses depending on indication, see notes for booster recom	2, 3, or 4 do								1 dose			Asplenia, complement 00 deficiencies					
	1 dose	ng on vaccine a	ee notes for bo	oses dependin			1	s through age 2				se Tdap, then Td		1 dose	End-stage renal disease; or on hemodialysis					
Recommended vaccination based on shared clinical decision-making		d indication, see r	oster recommen	or 4 do <mark>ses depending</mark> on vaccine or c <mark>ondition</mark>	2 or <mark>3 doses depen</mark> ding on vaccine	1, 2, or 3 doses depending on age and indication	1 dose	2 or 3 doses through age 26 years depending on age at initial vaccination or condition	2 doses at age ≥50 years	2 doses	1 or 2 doses depending on indication	1 dose Tdap, then Td or Tdap booster every 10 years	Precaution	1 dose annually	Heart or lung disease, alcoholism¹					
		n, see notes for booster recommendations	mendations	ondition											Chronic liver disease					
Not recommended/ contraindicated—vaccine should not be administered. *Vaccinate after pregnancy.		ter recommend		<60 years ≥60 years											Diabetes					
								dations			ine	ication		or condition					1 dose	
No recommendation/ Not applicable													1 dose annually	9	Men who have sex with men					

^{1.} Precaution for LAIV4 does not apply to alcoholism. 2. See notes for influenza; hepatitis B; measles, mumps, and rubella; and varicella vaccinations. 3. Hematopoietic stem cell transplant.

evidence of past infection

Notes

Recommended Adult Immunization Schedule for ages 19 years or older, United States, 2021

For vaccine recommendations for persons 18 years of age or younger, see the Recommended Child/ Adolescent Immunization Schedule.

Additional Information

COVID-19 Vaccination

ACIP recommends use of COVID-19 vaccines within the scope of the Emergency Use Authorization or Biologics License Application for the particular vaccine. Interim ACIP recommendations for the use of COVID-19 vaccines can be found at www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/covid-19.html

Haemophilus influenzae type b vaccination

Special situations

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

Hepatitis A vaccination

Routine vaccination

Not at risk but want protection from hepatitis A
 (identification of risk factor not required): 2-dose series
 HepA (Havrix 6–12 months apart or Vaqta 6–18 months
 apart [minimum interval: 6 months]) or 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])

Special situations

- At risk for hepatitis A virus infection: 2-dose series HepA or 3-dose series HepA-HepB as above
- **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 (administer dose 1 as soon as adoption is planned, at least 2 weeks before adoptee's arrival)
- Pregnancy if at risk for infection or severe outcome from infection during pregnancy
- Settings for exposure, including health care settings targeting services to injection or noninjection drug users or group homes and nonresidential day care facilities for developmentally disabled persons (individual risk factor screening not required)

Hepatitis B vaccination

Routine vaccination

(identification of risk factor not required): 2- or 3-dose series (2-dose series Heplisav-B at least 4 weeks apart [2-dose series HepB only applies when 2 doses of Heplisav-B are used at least 4 weeks apart] or 3-dose series Engerix-B 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]) or 3-dose series HepA-HepB (Twinrix at 0, 1, 6 months [minimum intervals: dose 1 to dose 2: 4 weeks / dose 3: 5 months])

Special situations

- At risk for hepatitis B virus infection: 2-dose (Heplisav-B) or 3-dose (Engerix-B, Recombivax HB) series or 3-dose series HepA-HepB (Twinrix) as above
- 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 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; hemodialysis, peritoneal dialysis, home dialysis, and predialysis patients; persons with diabetes mellitus age younger than 60 years, shared clinical decision-making for persons age 60 years or older)
- Incarcerated persons
- Travel in countries with high or intermediate endemic hepatitis B
- **Pregnancy** if at risk for infection or severe outcome from infection during pregnancy (Heplisav-B not currently recommended due to lack of safety data in pregnant women)

Human papillomavirus vaccination

Routine vaccination

- HPV vaccination recommended for all persons through age 26 years: 2- or 3-dose series depending on age at initial vaccination or condition:
- 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)
- 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
- Interrupted schedules: If vaccination schedule is interrupted, the series does not need to be restarted
- No additional dose recommended after completing series with recommended dosing intervals using any HPV vaccine

Shared clinical decision-making

 Some adults age 27–45 years: Based on shared clinical decision-making, 2- or 3-dose series as above

Special situations

 Age ranges recommended above for routine and catchup vaccination or shared clinical decision-making also apply in special situations

Notes

Recommended Adult Immunization Schedule, United States, 2021

- initial vaccination infection: 3-dose series as above, regardless of age at Immunocompromising conditions, including HIV
- Pregnancy: HPV vaccination not recommended until while pregnant; pregnancy testing not needed before after pregnancy; no intervention needed if vaccinated

Influenza vaccination

Routine vaccination

- Persons age 6 months or older: 1 dose any influenza vaccine appropriate for age and health status annually
- For additional guidance, see www.cdc.gov/flu/ professionals/index.htm

Special situations

- Egg allergy, hives only: 1 dose any influenza vaccine appropriate for age and health status annually
- Egg allergy-any symptom other than hives (e.g., allergic reactions. care provider who can recognize and manage severe administer in medical setting under supervision of health If using an influenza vaccine other than RIV4 or ccIIV4, vaccine appropriate for age and health status annually. angioedema, respiratory distress): 1 dose any influenza
- Severe allergic reactions to any vaccine can occur even office emergency plan and certified in cardiopulmonary Therefore, all vaccine providers should be familiar with the in the absence of a history of previous allergic reaction.
- A previous severe allergic reaction to any influenza vaccine is a contraindication to future receipt of the vaccine.
- LAIV4 should not be used in persons with the following conditions or situations:
- History of severe allergic reaction to any vaccine influenza vaccine component (excluding egg) or to a previous dose of any
- Immunocompromised due to any cause (including medications and HIV infection)
- Anatomic or functional asplenia
- Close contacts or caregivers of severely
- immunosuppressed persons who require a protected
- Pregnancy
- Cranial CSF/oropharyngeal communications
- Cochlear implant

- the previous 5 days, or baloxavir within the previous 17 zanamivir within the previous 48 hours, peramivir within Received influenza antiviral medications oseltamivir or
- Adults 50 years or older
- History of Guillain-Barré syndrome within 6 weeks after not be vaccinated unless vaccination benefits outweigh previous dose of influenza vaccine: Generally, should risks for those at higher risk for severe complications from

Measles, mumps, and rubella vaccination

Routine vaccination

- No evidence of immunity to measles, mumps, or rubella: 1 dose
- Evidence of immunity: Born before 1957 (health care not evidence of immunity) (diagnosis of disease without laboratory confirmation is vaccine, laboratory evidence of immunity or disease personnel, see below), documentation of receipt of MMR

Special situations

- Pregnancy with no evidence of immunity to rubella: MMR contraindicated during pregnancy; after pregnancy (before discharge from health care facility), 1 dose
- Nonpregnant women of childbearing age with no evidence of immunity to rubella: 1 dose
- HIV infection with CD4 count ≥200 cells/mm³ for at least 6 months and no evidence of immunity to measles, MMR contraindicated for HIV infection with CD4 count mumps, or rubella: 2-dose series at least 4 weeks apart;
- Severe immunocompromising conditions: MMR contraindicated
- Students in postsecondary educational institutions, rubella: 2-dose series at least 4 weeks apart if previously with no evidence of immunity to measles, mumps, or personal contacts of immunocompromised persons received 1 dose MMR did not receive any doses of MMR or 1 dose if previously international travelers, and household or close,
- Health care personnel:
- Born in 1957 or later with no evidence of immunity to measles, mumps, or rubella: 2-dose series at least 4 weeks apart for measles or mumps or at least 1 dose for

Born before 1957 with no evidence of immunity to measles, mumps, or rubella: Consider 2-dose series at least 4 weeks apart for measles or mumps or 1 dose for

Meningococcal vaccination

Special situations for MenACWY

- and revaccinate every 5 years if risk remains eculizumab, ravulizumab) use: 2-dose series MenACWY-D component deficiency, complement inhibitor (e.g., cell disease), HIV infection, persistent complement Anatomical or functional asplenia (including sickle (Menactra, Menveo or MenQuadfi) at least 8 weeks apart
- Travel in countries with hyperendemic or epidemic (Menactra, Menveo or MenQuadfi) and revaccinate every 5 exposed to Neisseria meningitidis: 1 dose MenACWY meningococcal disease, microbiologists routinely years if risk remains
- First-year college students who live in residential older) and military recruits: 1 dose MenACWY (Menactra, housing (if not previously vaccinated at age 16 years or Menveo or MenQuadfi)
- For MenACWY booster dose recommendations for mmwr/volumes/69/rr/rr6909a1.htm meningococcal vaccination information, see www.cdc.gov/ and among men who have sex with men) and additional setting (e.g., in community or organizational settings groups listed under "Special situations" and in an outbreak

Shared clinical decision-making for MenB

 Adolescents and young adults age 16–23 years (age same product for all doses in series) 2); MenB-4C and MenB-FHbp are not interchangeable (use after dose 1, administer dose 3 at least 4 months after dose months (if dose 2 was administered less than 6 months apart or 2-dose series MenB-FHbp (Trumenba) at 0, 6 making, 2-dose series MenB-4C (Bexsero) at least 1 month meningococcal disease: Based on shared clinical decision-16-18 years preferred) not at increased risk for

Special situations for MenB

 Anatomical or functional asplenia (including sickle cell meningitidis: 2-dose primary series MenB-4C (Bexsero) at use, microbiologists routinely exposed to Neisseria complement inhibitor (e.g., eculizumab, ravulizumab) disease), persistent complement component deficiency least one month apart or

Notes

Recommended Adult Immunization Schedule, United States, 2021

- MenB-4C (Bexsero) at least 1 month apart or 3-dose primary series MenB-FHbp (Trumenba) at 0, 1–2, 6 months (if dose 2 was administered at least 6 months after dose 1, dose 3 not needed); MenB-4C and MenB-FHbp are not interchangeable (use same product for all doses in series); 1 dose MenB booster 1 year after primary series and revaccinate every 2–3 years if risk remains
- Pregnancy: Delay MenB until after pregnancy unless at increased risk and vaccination benefits outweigh potential risks
- For MenB booster dose recommendations for groups listed under "Special situations" and in an outbreak setting (e.g., in community or organizational settings and among men who have sex with men) and additional meningococcal vaccination information, see www.cdc.gov/ mmwr/volumes/69/rr/rr6909a1.htm

Pneumococcal vaccination

Routine vaccination

- Age 65 years or older (immunocompetent see www.cdc.gov/mmwr/volumes/68/wr/mm6846a5. htm?s_cid=mm6846a5_w): 1 dose PPSV23
- If PPSV23 was administered prior to age 65 years, administer 1 dose PPSV23 at least 5 years after previous dose

Shared clinical decision-making

- Age 65 years or older (immunocompetent): 1 dose PCV13 based on shared clinical decision-making if previously not administered.
- -PCV13 and PPSV23 should not be administered during the same visit
- If both PCV13 and PPSV23 are to be administered, PCV13 should be administered first
- PCV13 and PPSV23 should be administered at least 1 year apart

Special situations

(www.cdc.gov/mmwr/preview/mmwrhtml/mm6140a4.htm)

 Age 19-64 years with chronic medical conditions (chronic heart [excluding hypertension], lung, or liver disease, diabetes), alcoholism, or cigarette smoking: 1 dose PPSV23

- Age 19 years or older with immunocompromising conditions (congenital or acquired immunodeficiency lincluding B- and T-lymphocyte deficiency, complement deficiencies, phagocytic disorders, HIV infection], chronic renal failure, nephrotic syndrome, leukemia, lymphoma, Hodgkin disease, generalized malignancy, iatrogenic immunosuppression [e.g., drug or radiation therapy], solid organ transplant, multiple myeloma) or anatomical or functional asplenia (including sickle cell disease and other hemoglobinopathies): 1 dose PCV13 followed by 1 dose PPSV23 at least 8 weeks later, then another dose PPSV23 at least 5 years after previous PPSV23; at age 65 years or older, administer 1 dose PPSV23 at least 5 years after most recent PPSV23 (note: only 1 dose PPSV23 recommended at age 65 years or older)
- Age 19 years or older with cerebrospinal fluid leak or cochlear implant: 1 dose PCV13 followed by 1 dose PPSV23 at least 8 weeks later; at age 65 years or older, administer another dose PPSV23 at least 5 years after PPSV23 (note: only 1 dose PPSV23 recommended at age 65 years or older)

Tetanus, diphtheria, and pertussis vaccination

Routine vaccination

 Previously did not receive Tdap at or after age 11 years: 1 dose Tdap, then Td or Tdap every 10 years

Special situations

- Previously did not receive primary vaccination series for tetanus, diphtheria, or pertussis: At least 1 dose Tdap followed by 1 dose Td or Tdap at least 4 weeks after Tdap and another dose Td or Tdap 6–12 months after last Td or Tdap (Tdap can be substituted for any Td dose, but preferred as first dose), Td or Tdap every 10 years thereafter
- 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-toxoid-containing 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 vaccination

Routine vaccination

• No evidence of immunity to varicella: 2-dose series 4–8 weeks apart if previously did not receive varicella-containing vaccine (VAR or MMRV [measles-mumps-rubella-varicella vaccine] for children); if previously received 1 dose varicella-containing vaccine, 1 dose at least 4 weeks after first dose - Evidence of immunity: U.S.-born before 1980 (except for pregnant women and health care personnel [see below]), documentation of 2 doses varicella-containing vaccine at least 4 weeks apart, diagnosis or verification of history of varicella or herpes zoster by a health care provider, laboratory evidence of immunity or disease

Special situations

- 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 varicella-containing 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 varicellacontaining vaccine; 2-dose series 4–8 weeks apart if previously did not receive any varicella-containing vaccine regardless of whether U.S.-born before 1980
- HIV infection with 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 count <200 cells/mm³
- Severe immunocompromising conditions: VAR contraindicated

Zoster vaccination

Routine vaccination

Age 50 years or older: 2-dose series 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
(administer RZV at least 2 months after ZVL)

Special situations

- Pregnancy: Consider delaying RZV until after pregnancy if RZV is otherwise indicated.
- Severe immunocompromising conditions (including HIV infection with CD4 count <200 cells/mm³): Recommended use of RZV under review