VACCINATE ADULTS!

from the Immunization Action Coalition — www.immunize.org

ACIP Expands Recommendations for the Use of Meningococcal Serogroup B Vaccine to Include Adolescents and Young Adults

Two serogroup B meningococcal (MenB) vaccines were recently licensed by the Food and Drug Administration (FDA) for use in people age 10–25 years. MenB-FHbp (Trumenba; Pfizer Inc.) was licensed in October 2014, and MenB-4C (Bexsero; GSK) in January 2015.

On October 23, 2015, Morbidity and Mortality Weekly Report (MMWR) published "Use of Serogroup B Meningococcal Vaccines in Adolescents and Young Adults: Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2015," available at www.cdc.gov/mmwr/pdf/wk/mm6441.pdf, pages 1171–6. These recommendations were voted upon and approved at the June 2015 ACIP meeting.

The recommendations state that adolescents and young adults age 16–23 may be vaccinated with MenB vaccine to provide short-term protection against most strains of serogroup B meningococcal disease. The preferred age for MenB vaccination is 16–18 years.

The new MenB recommendations are classified as Category B, meaning the recommenda-

tions allow for individual clinical decision making. (Vaccines with Category A recommendations are made for all persons in an age- or risk-factor-based group.) The Category B classification enables coverage by the Vaccines For Children program and most insurance plans.

MenB vaccine should be administered either as a 3-dose series of MenB-FHbp (Trumenba) or a 2-dose series of MenB-4C (Bexsero). The two MenB vaccines are not interchangeable; the same vaccine product must be used for all doses. On the basis of available data and expert opinion, MenB-FHbp or MenB-4C may be administered concomitantly with other vaccines indicated for this age, but at a different anatomic site, if feasible.

In addition to the Category B recommendation for adolescents and young adults, CDC also has issued recommendations for routine use (i.e., Category A) of MenB vaccines in certain groups of people at increased risk for serogroup B meningococcal disease (available at www.cdc.gov/mmwr/pdf/wk/mm6422.pdf, pages 608–612). These groups include:

- People (age 10 years and older) who have functional or anatomic asplenia
- People (age 10 years and older) who have persistent complement component deficiency
- People (age 10 years and older) who are at risk during an outbreak caused by a vaccine sero-group, such as on college campuses
- Microbiologists who work with meningococcus bacteria in a laboratory

Even though both MenB vaccines are FDA-licensed for people 10 through 25 years of age, ACIP recommends the vaccines can be used off-label for those at increased risk of serogroup B meningococcal disease who are 26 years of age or older.

In contrast to meningococcal conjugate vaccine (MCV4 [MenACWY]) recommendations, MenB vaccine is not routinely recommended for college students or international travelers.

Q&As regarding the use of both MCV4 and MenB in adolescents are available on the CDC website at www.cdc.gov/vaccines/vpd-vac/mening/faqs-hcp-adolescent-vaccine.html.

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Ask the Experts

The Immunization Action Coalition extends thanks to our experts, medical officer Andrew T. Kroger, MD, MPH, and nurse educator Donna L. Weaver, RN, MN, both with the National Center for Immunization and Respiratory Diseases at the Centers for Disease Control and Prevention (CDC).

Meningococcal vaccines

What meningococcal vaccines are currently available in the United States?

Since 2005, 2 types of meningococcal vaccines have been available in the United States that protect against meningococcal serogroups A, C, W, and Y: 1) meningococcal polysaccharide vaccine (MPSV4; Menomune, Sanofi Pasteur), which is made up of polysaccharide (sugar molecules) from the surface of the meningococcal bacteria; and 2) meningococcal conjugate vaccines (MCV4; Menactra, Sanofi Pasteur; Menveo, GSK) in which the polysaccharide is chemically bonded

("conjugated") to a protein to produce better protection. MCV4 is more effective in young children than the original polysaccharide vaccine.

More recently, vaccines have become available that offer protection from meningococcal serogroup B. These vaccines are composed of proteins also found on the surface of the bacteria. Neither type of vaccine contains live meningococcal bacteria.

MPSV4 and MCV4 provide no protection against serogroup B disease, and meningococcal serogroup B vaccines (MenB) provide no protection against serogroup A, C, W, or Y disease. For protection

Ask the Experts...continued on page 14 ▶

Immunization questions?

- ► Email nipinfo@cdc.gov
- Call your state health department (phone numbers at www.immunize.org/coordinators)

Vaccinate Adults!

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Vaccinate Adults is a publication of the Immunization Action Coalition (IAC) for health care professionals. Content is reviewed by the Centers for Disease Control and Prevention (CDC) for technical accuracy. This publication is supported in part by CDC Grant No. U381P000589. Content is solely the responsibility of IAC and does not necessarily represent the official views of CDC. ISSN 1944-2017.

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IAC publishes a free email news service (IAC Express) and two free periodicals (Vaccinate Adults and Needle Tips). To subscribe, go to www.immunize.org/subscribe.

IAC, a 501(c)(3) charitable organization, publishes practical immunization information for health professionals to help increase immunization rates and prevent disease.

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Immunization Action Coalition

MCV4: You're Not Done If You Give Just One. Give 2 MCV4 Doses to Strengthen Protection.

New initiative reminds clinicians to give dose #2 at age 16

According to the recently released Centers for Disease Control and Prevention's (CDC) 2014 National Immunization Survey-Teen, most teens are inadequately protected from meningococcal (A, C, W, Y) disease.¹ CDC recommends that a child receive one dose of meningococcal conjugate vaccine (MCV4) at age 11 or 12 years, followed by a second (or booster) vaccination at age 16, as the protection provided by the first dose often wanes within five years. The CDC survey indicates that only 28% of teens by age 17 years had received the second dose to boost their protection against this devastating illness at a time in life when they are at heightened risk for meningococcal disease.

In response to these extremely low immunization rates for MCV4 booster doses, the Immunization Action Coalition (IAC), in collaboration with Sanofi Pasteur, has launched a new initiative at www.Give2MCV4.org. The core of this campaign is a collection of free downloadable resources to assist your practice in addressing this MCV4 booster dose gap.

Be sure to visit the initiative's website, www.Give 2MCV4.org, where you will find the following print resources for health care professionals (HCPs):

Fact sheet – MCV4: You're Not Done If You Give Just One; Give 2 Doses to Strengthen Protection at www.give2mcv4.org/wp-content/uploads/2015/07/Give-2-Doses-to-Strengthen-Protection.pdf

Talking points for HCPs – Recommending MCV4: What to Say and How to Say It: www.give2mcv4.org/wp-content/uploads/2015/07/Toolkit-Recommending-MCV4.pdf

Overview of vaccine recommendations for adolescents – Vaccinate Adolescents: Think 1–2–3!:







www.give2mcv4.org/wp-content/uploads/2015/08/Toolkit-Vaccinate-Adolescents.pdf

Suggestions to improve immunization rates -

Top 10 Ways to Improve Adolescent Immunization Rates: www.give2mcv4.org/wp-content/uploads/2015/07/Toolkit-Top-10-Ways.pdf

Access full collection of MCV4 resources – View entire MCV4 Toolkit: www.give2mcv4.org/essential-tools/view-all-tools/

In addition, the Give2MCV4.org website offers a series of videos for HCPs, as well as handouts you can share with your patients and their parents. Check back often, as more tools will be posted in coming months.

Don't let one of your adolescent patients be inadequately protected. Remember – *You're not done if you give just one!*

1 National, Regional, State, and Selected Local Area Vaccination Coverage Among Adolescents Aged 13–17 Years – United States, 2014. MMWR, 2015; 64(29);784–792 (www.cdc.gov/mmwr/preview/mmwrhtml/mm6429a3.htm).

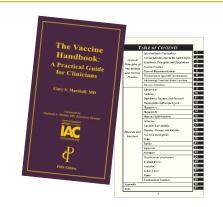
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The Vaccine Handbook: A Practical Guide for Clinicians ("The Purple Book") by Gary Marshall, MD

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Quantity discounts are available. To receive sample cards, contact us: admininfo@immunize.org

Training Video: "Immunization Techniques — Best Practices with Infants, Children, and Adults"

DVD: \$17 each Quantity discounts are available.

The California Department of Public Health, Immunization Branch, updated its award-winning training video, "Immunization Techniques: Best Practices with Infants, Children, and Adults." The 25-minute DVD can be used to train new employees and to refresh the skills of experienced staff on administering injectable, oral, and nasal-spray vaccines to children, teens, and adults.

► To order, visit www.immunize.org/shop, or use the order form on page 16. For health care settings in California, contact your local health department immunization program for a free copy.

Laminated adult and child immunization schedules Order one of each for every exam room

Coming in March 2016! The ACIP/AAFP/ACOG/ACNM-approved schedule for adults (6-sided) and the ACIP/AAP/AAFP-approved immunization schedule for people ages 0 through 18 years (8-sided). Both are laminated and washable for heavy-duty use, complete with essential footnotes, and printed in color for easy reading.

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Vaccine Highlights

Recommendations, schedules, and more

Editor's note: The information in Vaccine Highlights is current as of November 4, 2015.

Next ACIP meetings

The Advisory Committee on Immunization Practices (ACIP) is comprised of 15 national experts who advise CDC on the appropriate use of vaccines. ACIP meets three times a year in Atlanta; meetings are open to the public and available online via live webcast. The next meetings will be held on February 24–25 and June 22–23, 2016. For more information, visit www.cdc.gov/vaccines/acip. ACIP periodically issues recommendations on the use of vaccines; they are published and readily available in the *Morbidity and Mortality Weekly Report (MMWR)*. Clinicians who vaccinate should have a current set for reference. Here are sources:

- Download from IAC's website: www.immunize. org/acip
- Download from CDC's website: www.cdc.gov/ vaccines/hcp/acip-recs

In addition, extensive information on ACIP meetings is available at www.cdc.gov/vaccines/acip/meetings/meetings-info.html.

CDC news

In June 2015, CDC released the 13th edition of its book *Epidemiology and Prevention of Vaccine-Preventable Diseases* (also known as "The Pink Book"). Developed by CDC's National Center for Immunization and Respiratory Diseases, this edition provides updated immunization and vaccine information. All the sections of the "The Pink Book" (i.e., chapters, appendices) are available for download at no charge at www.cdc.gov/vaccines/pubs/pinkbook/index.html. Order the book from the Public Health Foundation for \$40 (plus shipping and handling) at http://bookstore.phf.org/Default.aspx?TabID=251&productId=27876.

CDC offers an accompanying 15-part webinar series to provide a chapter-by-chapter overview of the 13th edition of "The Pink Book"). Access the webinar series at www.cdc.gov/vaccines/ed/webinar-epv/index.html.

In July, CDC released *CDC Health Information* for International Travel 2016 (also known as "The Yellow Book"). The book is published every two years as a reference for those who advise international travelers about health risks. Access the 2016 edition of "The Yellow Book" online at www nc.cdc.gov/travel/page/yellowbook-home. The book is also available for sale from Oxford Uni-

versity Press and other major online booksellers.

CDC's 47th National Immunization Conference is scheduled to be held on September 13–15, 2016, in Atlanta. For more information, visit www.cdc.gov/vaccines/events/nic/index.html.

Influenza vaccine news

National Influenza Vaccination Week (NIVW) will be held this year on December 6–12. For more information, visit www.cdc.gov/flu/nivw.

On August 7, CDC published "Prevention and Control of Influenza with Vaccines: Recommendations of the ACIP—U.S., 2015–16 Influenza Season" in *MMWR*. Access the full recommendations for the 2015–16 influenza season at www.cdc.gov/mmwr/pdf/wk/mm6430.pdf, pages 818–25.

On August 7, CDC issued two updated influenza Vaccine Information Statements (VISs). The VIS for inactivated influenza vaccine (IIV) is intended for use with all injectable formulations. The VIS for live attenuated influenza vaccine (LAIV) is intended for use when administering nasal spray vaccine. Access the IIV VIS in English and many translations at www.immunize.org/vis/vis_flu_inactive.asp. The LAIV VIS and its translations are available at www.immunize.org/vis/vis_flu_live. asp. Influenza VISs released this year are not season specific and you will be able to use them for future influenza seasons as well.

To obtain VISs in up to 40 languages, visit www.immunize.org/vis.

Meningococcal vaccine news

On October 23, CDC published "Use of Serogroup B Meningococcal Vaccines in Adolescents and Young Adults: Recommendations of the ACIP, 2015" in *MMWR*. Access the recommendations at www.cdc.gov/mmwr/pdf/wk/mm6441.pdf, pages 1171–6.

On June 12, CDC published "Use of Serogroup B Meningococcal Vaccines in Persons Aged ≥10 Years at Increased Risk for Serogroup B Meningococcal Disease: Recommendations of the ACIP, 2015" in MMWR. Access the recommendations at www.cdc.gov/mmwr/pdf/wk/mm6422.pdf, pages 608–12.

On August 14, CDC released a new VIS for use with serogroup B meningococcal vaccines (MenB). Access the MenB VIS and its translations at www.immunize.org/vis/vis_meningococcal_b.asp.

IAC EXPRESS

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More vaccine-related news

Pneumococcal: On September 4, CDC published "Intervals Between PCV13 and PPSV23 Vaccines: Recommendations of the ACIP" in *MMWR*. Access the recommendations at www.cdc.gov/mmwr/pdf/wk/mm6434.pdf, pages 944–947.

HPV: In July 2015, CDC released additional guidance for providers regarding 9-valent HPV vaccine (HPV9) in *MMWR*. Access the PDF document titled "Supplemental information and guidance for vaccination providers regarding use of 9-valent HPV vaccine," at www.cdc.gov/hpv/downloads/9vHPV-guidance.pdf.

Yellow Fever: On June 19, CDC published "Yellow Fever Vaccine Booster Doses: Recommendations of the ACIP, 2015" in *MMWR*. Access the recommendations at www.cdc.gov/mmwr/pdf/wk/mm6423.pdf, pages 647–50.

Current VIS dates

Check the dates on your supply of Vaccine Information Statements (VISs). If any are outdated, get current versions and VISs in more than 30 languages at www.immunize.org/vis.

Anthrax	MMR
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For a ready-to-print version of this table for posting in your practice, go to www.immunize.

posting in your practice, go to www org/catg.d/p2029.pdf.

Vaccine Highlights...continued from page 4

Immunization mandates news

On October 5, the American Academy of Family Physicians released its new policy that supports ending non-medical vaccination exemptions. The policy is available at www.aafp.org/about/policies/ all/immunizations-exemptions.html.

At its annual meeting in June, the American Medical Association (AMA) adopted a new policy that supports ending non-medical exemptions to immunization mandates. Access a related press release at www.ama-assn.org/ama/pub/news/news/ 2015/2015-06-08-tighter-limitations-immunizationopt-outs.page.

On September 7, the American Academy of Pediatrics (AAP) issued an immunization policy statement online titled "Influenza Immunization for All Health Care Personnel: Keep It Mandatory" at http://pediatrics.aappublications.org/content/early/ 2015/09/01/peds.2015-2922.full.pdf+html.

On June 30, California Governor Edmund (Jerry) Brown signed a bill into law (SB 277) requiring all California children without a medical exemption to be fully vaccinated in order to attend public or private school, eliminating personal and religious belief exemptions. Access Governor Brown's signing statement at www.gov.ca.gov/docs/SB_277_ Signing_Message.pdf.

Vaccine coverage news

On September 18, CDC published the following articles about influenza vaccination coverage during the 2014–15 influenza season in MMWR:

- Influenza Vaccination Coverage Among Health Care Personnel—U.S., 2014-15 Influenza Season
- Influenza Vaccination Coverage Among Pregnant Women-U.S., 2014-15 Influenza Season

• Announcements: Available Online: Final 2014-15 Influenza Vaccination Coverage Estimates for Selected Local Areas, States, and the U.S.

Access the articles at www.cdc.gov/mmwr/pdf/ wk/mm6436.pdf, pages 993-9, 1000-5, and 1017, respectively.

HHS news

On July 7, the National Vaccine Program Office (NVPO) announced the release of the Annual Report of the State of the National Vaccine Plan (2014). This report highlights accomplishments and progress of HHS agencies and offices, as well as the work of other partners across the immunization system toward meeting the goals and objectives in the 2010 National Vaccine Plan and Implementation Plan. Access the NVPO report at www.hhs.gov/nvpo/vacc_plan/annualreport-2014/nationalvaccineplan2014.pdf.

Apply for IAC's **Influenza Vaccination Honor Roll**

Join more than 500 health care settings already honored!



This honor roll recognizes health care settings that have implemented mandatory vaccination policies for health care personnel (HCP).

To find the health care settings listed by state, visit www.immunize.org/ honor-roll/influenza-mandates/ honorees.asp

To read position statements supporting mandatory HCP vaccination from leading health care organizations and professional medical societies or to apply, visit www.immunize.org/ honor-roll/influenza-mandates.

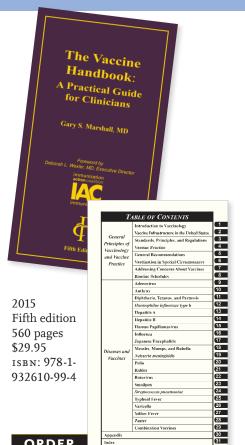
The Vaccine Handbook: A Practical Guide for Clinicians

The Vaccine Handbook: A Practical Guide for Clinicians ("The Purple Book") is a uniquely comprehensive source of practical, up-to-date information for vaccine providers and educators. Its author, Gary S. Marshall, MD, has drawn together the latest vaccine science and guidance into a concise, user-friendly, practical resource for the private office, public health clinic, academic medical center, and hospital.

The Vaccine Handbook provides

- Information on every licensed vaccine in the United States:
- Rationale behind authoritative vaccine recommendations;
- Contingencies encountered in everyday practice;
- A chapter dedicated to addressing vaccine concerns;
- Background on how vaccine policy is made:
- Standards and regulations;
- Office logistics, including billing procedures, and much more.

The fifth edition contains a foreword by Deborah L. Wexler, MD, executive director. Immunization Action Coalition, which has partnered with the publisher, Professional Communications, Inc. (PCI), to promote The Vaccine Handbook.



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Seattle, Wash.

March 15, 2016

Phoenix, Ariz. March 17, 2016

Tucson, Ariz.
March 18, 2016

Orlando/Daytona Beach, Fla. April 12, 2016

Fort Lauderdale, Fla. April 13, 2016

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Boston, Mass. June 6, 2016

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Baltimore, Md. June 11, 2016

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This free workshop is provided by the Immunization Action Coalition (IAC), with sponsorship from Pfizer, Inc.

Register online now at www.StandingOrders.org/registration. Don't delay! Space is limited.

Summary of Recommendations for Adult Immunization (Age 19 years and older)

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administration (any vaccine can be given with another unless otherwise noted)	Contraindications and precautions (mild illness is not a contraindication)
Influenza Inactivated Influenza vaccine (IIV*) Give IM or ID (intradermally) * includes recombinant influenza vaccine (RIV3) Live attenuated influenza vaccine (LAIV) Give NAS (intranasally)	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize. org/catg.d/p2010.pdf. • Vaccination is recommended for all adults. • LAIV (Flumist) is approved only for healthy nonpregnant people age 2–49 yrs. • Adults age 18 through 64 yrs may be given any intramuscular IIV product (Fluzone, Fluvirin, Afluria, Flucelvax), or the intradermal IIV product (Fluzone Intradermal), or RIV3 (FluBlok). • Adults age 18 through 64 yrs may be given intramuscular IIV (Afluria) with a needle and syringe or using a jet injector (Stratis). • Adults age 65 yrs and older may be given standard-dose IIV, or high-dose IIV (Fluzone High-Dose), or RIV3. NOTE: Health care personnel who care for severely immunocompromised persons (i.e., those who require care in a protective environment) should receive IIV rather than LAIV. For information on other contraindications and precautions to LAIV, see far right column.	 Give 1 dose every year in the fall or winter. Begin vaccination services as soon as vaccine is available and continue until the supply is depleted. Continue to give vaccine to unvaccinated adults throughout the influenza season (including when influenza activity is present in the community) and at other times when the risk of influenza exists. If 2 or more of the following live virus vaccines are to be given – LAIV, MMR, Var, HZV, and/or yellow fever – they should be given on the same day. If they are not given on the same day, space them by at least 28d. 	 Contraindications Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine, to any of its components, including egg protein. Adults with egg allergy of any severity may receive RIV or, adults who experience only hives with exposure to eggs may receive other IIV with additional safety precautions (i.e., observe patient for 30 minutes after receipt of vaccine for signs of a reaction). For LAIV only: pregnancy; immunosuppression; receipt of specific antivirals (i.e., amantadine, rimantadine, zanamivir, or oseltamivir) within the previous 48hrs. Avoid use of these anti-viral drugs for 14d after vaccination. Precautions Moderate or severe acute illness. History of Guillain-Barré syndrome (GBS) within 6 wks following previous influenza vaccination. For LAIV only: Chronic pulmonary (including asthma), cardiovascular (except hypertension), renal, hepatic, neurologic, hematologic, or metabolic (including diabetes) disorders; immunosuppression (including that caused by medications or HIV).
Td, Tdap (Tetanus, diphtheria, pertussis) Give IM	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize.org/catg.d/ p2010.pdf. • All people who lack written documentation of a primary series consisting of at least 3 doses of tetanus- and diphtheriatoxoid-containing vaccine. • A booster dose of Td or Tdap may be needed for wound management, so consult ACIP recommendations.¹ For Tdap only • Adults who have not already received Tdap or whose Tdap history is not known. • Health care personnel of all ages. • Give Tdap to pregnant women during each pregnancy (preferred during 27–36 weeks' gestation), regardless of the interval since prior Td or Tdap.	 For people who are unvaccinated or behind, complete the primary Td series (3 doses with an interval of 1–2m between dose #1 and #2, and an interval of 6–12m between dose #2 and #3); substitute a one-time dose of Tdap for one of the doses in the series, preferably the first. Give Td booster every 10 yrs after the primary series has been completed. Tdap should be given regardless of interval since previous Td. 	 Contraindications Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine or to any of its components. For Tdap only, history of encephalopathy not attributable to an identifiable cause, within 7d following DTP/DTaP, or Tdap. Precautions Moderate or severe acute illness. History of Guillain-Barré syndrome within 6wks following previous dose of tetanus-toxoid-containing vaccine. History of arthus reaction following a prior dose of tetanus-or diphtheria-toxoid-containing vaccine (including MCV4); defer vaccination until at least 10 yrs have elapsed since the last tetanus toxoid-containing vaccine. For pertussis-containing vaccines only, progressive or unstable neurologic disorder, uncontrolled seizures, or progressive encephalopathy until a treatment regimen has been established and the condition has stabilized.

1 CDC. Preventing Tetanus, Diphtheria, and Pertussis Among Adults: Use of Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine. Recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2006;55(RR-17):25.

This document was adapted from the recommendations of the Advisory Committee on Immunization Practices (ACIP). To obtain copies of these recommendations, visit CDC's website at www.cdc.gov/vaccines/hcp/ACIP-recs/ index.html or visit the Immunization Action Coalition (IAC) website at www.immunize.org/acip.

This table is revised periodically. Visit IAC's website at www.immunize.org/adultrules to make sure you have the most current version.

For the purposes of calculating intervals between doses, 4 weeks = 28 days. Intervals of 4 months or greater are determined by calendar months.

A vaccine series does not need to be restarted, regardless of the time that has elapsed between doses.

Adult
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of 5)

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administration (any vaccine can be given with another unless otherwise noted)	Contraindications and precautions (mild illness is not a contraindication)
MMR (Measles, mumps, rubella) Give Subcut	 For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize.org/catg.d/p2010.pdf. People born in 1957 or later (especially those born outside the U.S.) should receive at least 1 dose of MMR if they have no laboratory evidence of immunity to each of the 3 diseases or documentation of a dose given on or after the first birthday. People in high-risk groups, such as health care personnel (paid, unpaid, or volunteer), students entering college and other post—high school educational institutions, and international travelers, should receive a total of 2 doses. People born before 1957 are usually considered immune, but evidence of immunity (serology or documented history of 2 doses of MMR) should be considered for health care personnel. Women of childbearing age who do not have acceptable evidence of rubella immunity or vaccination. 	 Give 1 or 2 doses (see criteria in 1st and 2nd bullets in box to left). If dose #2 is recommended, give it no sooner than 4 wks after dose #1. If woman of childbearing-age is found to be rubella susceptible and is not pregnant, give 1 dose of MMR; if she is pregnant, the dose should be given postpartum. This includes women who have already received 1 or 2 doses of rubella-containing vaccine. If 2 or more of the following live virus vaccines are to be given – LAIV, MMR, Var, HZV, and/or yellow fever – they should be given on the same day. If they are not given on the same day, space them by at least 28d. May use as post-exposure prophylaxis if given within 3d of exposure. 	 Contraindications Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine or to any of its components. Pregnancy or possibility of pregnancy within 4 wks. Severe immunodeficiency (e.g., hematologic and solid tumors; receiving chemotherapy; congenital immunodeficiency; long-term immunosuppressive therapy; or severely symptomatic HIV). NOTE: HIV infection is NOT a contraindication to MMR for those who are not severely immunocompromised (i.e., CD4+ T-lymphocyte counts are greater than or equal to 200 cells/μL) for 6 months.¹ Precautions Moderate or severe acute illness. If blood, plasma, and/or immune globulin were given in past 11m, see ACIP's General Recommendations on Immunization² regarding time to wait before vaccinating. History of thrombocytopenia or thrombocytopenic purpura. NOTE: If TST (tuberculosis skin test) and MMR are both needed but not given on same day, delay TST for at least 4 wks after MMR.
Varicella (chickenpox) (Var) Give Subcut	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize.org/catg.d/p2010.pdf. • All adults without evidence of immunity. NOTE: Evidence of immunity is defined as written documentation of 2 doses of varicella vaccine; a history of varicella disease or herpes zoster (shingles) based on health care-provider diagnosis; laboratory evidence of immunity or confirmation of disease; and/or birth in the U.S. before 1980, with the exceptions that follow. - Health care personnel (HCP) born in the U.S. before 1980 who do not meet any of the criteria above should be tested or given the 2-dose vaccine series. If testing indicates they are not immune, give the 1st dose of varicella vaccine immediately. Give the 2nd dose 4–8 wks later. - Pregnant women born in the U.S. before 1980 who do not meet any of the criteria above should either 1) be tested for susceptibility during pregnancy and if found susceptible, given the 1st dose of varicella vaccine postpartum before hospital discharge, or 2) not be tested for susceptibility and given the 1st dose of varicella vaccine postpartum before hospital discharge. Give the 2nd dose 4–8 wks later.	 Give 2 doses. Dose #2 is given 4–8 wks after dose #1. If dose #2 is delayed, do not start over. Just give dose #2. If 2 or more of the following live virus vaccines are to be given – LAIV, MMR, Var, HZV, and/or yellow fever – they should be given on the same day. If they are not given on the same day, space them by at least 28d. May use as postexposure prophylaxis if given within 5d of exposure. 	 Contraindications Previous severe allergic reaction (e.g., anaphylaxis) anaphylactic reaction to this vaccine or to any of its components. Pregnancy or possibility of pregnancy within 4 wks. People on long-term immunosuppressive therapy or who are immunocompromised because of malignancy and primary or acquired immunodeficiency, including HIV/AIDS (although vaccination may be considered if CD4+ T-lymphocyte counts are greater than or equal to 200 cells/µL.³). People with isolated B-lymphocyte deficiency may receive varicella vaccine. Precautions Moderate or severe acute illness. If blood, plasma, and/or immune globulin (IG or VZIG) were given in past 11m, see ACIP's General Recommendations on Immunization² regarding time to wait before vaccinating. Receipt of specific antivirals (i.e., acyclovir, famciclovir, or valacyclovir) 24 hrs before vaccination, if possible; delay resumption of these antiviral drugs for 14d after vaccination.

¹ CDC. Prevention of Measles, Rubella, Congenital Rubella Syndrome, and Mumps, 2013. Summary Recommendations of the Advisory Committee on Immunization Practices (ACIP). *MMWR* 2013;62(No. RR-4):23.

² CDC. General Recommendations on Immunization–Recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2011;60 (No. RR-2):39.

³ CDC. Prevention of Varicella. Recommendations of the September 2015 Advisory Committee on Immunization Practices (ACIP). *MMWR* 2007;56(No. RR-4):24–25.

Summary of Recommendations for Adult Immunization (Age 19 years and older)

(Page 3 of 5)

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administration (any vaccine can be given with another unless otherwise noted)	Contraindications and precautions (mild illness is not a contraindication)
Hepatitis A (HepA) Give IM Brands may be used interchangeably.	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize.org/catg.d/ p2010.pdf. • All adults who want to be protected from hepatitis A virus (HAV) infection. • People who travel or work anywhere EXCEPT the U.S., Western Europe, New Zealand, Australia, Canada, and Japan. • People with chronic liver disease; injecting and non-injecting drug users; men who have sex with men; people who receive clotting-factor concentrates; people who work with HAV in lab settings; food handlers when health authorities or private employers determine vaccination to be appropriate.	 Give 2 doses, spaced 6–18m apart (depending on brand). If dose #2 is delayed, do not repeat dose #1. Just give dose #2. 	Contraindication Previous severe allergic reaction (e.g. anaphylaxis) to this vaccine or to any of its components. Precautions Moderate or severe acute illness.
	 People who anticipate close personal contact with an international adoptee from a country of high or intermediate endemicity during the first 60 days following the adoptee's arrival in the U.S. Postexposure: adults age 40 yrs or younger with recent (within 2 wks) exposure to HAV, give HepA. For people older than age 40 yrs with recent (within 2 wks) exposure to HAV, immune globulin is preferred over HepA vaccine. 	For Twinrix (hepatitis A and B combination vaccine [GSK]) for patients age 18yrs and older only: give 3 doses on a 0, 1, 6m schedule. There must be at least 4wks between doses #1 and #2, and at least 5m between doses #2 and #3.	
Hepatitis B (HepB) Give IM Brands may be used interchangeably.	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize.org/catg.d/p2010.pdf. • All adults who want to be protected from hepatitis B virus infection. • Household contacts and sex partners of HBsAg-positive people; injecting drug users; sexually active people not in a long-term, mutually monogamous relationship; men who have sex with men; people with HIV; people seeking STD evaluation or treatment; hemodialysis patients and those with renal disease that may result in dialysis; diabetics younger than age 60 yrs (diabetics age 60 yrs and older may be vaccinated at the clinician's discretion ¹ ; health care personnel and public safety workers who are exposed to blood; clients and staff of institutions for the developmentally disabled; inmates of long-term correctional facilities; certain international travelers; and people with chronic liver disease. NOTE: Provide serologic screening for immigrants from endemic areas. If patient is chronically infected, assure appropriate disease management. For sex partners and household contacts of HBsAg-positive people, provide serologic screening and administer initial dose of HepB vaccine at same visit.	Ieast 5m between doses #2 and #3. An alternative schedule can also be used at 0, 7d, 21–30d, and a booster at 12m. Give 3 doses on a 0, 1, 6m schedule. • Alternative timing options for vaccination include 0, 2, 4m; 0, 1, 4m; and 0, 1, 2, 12m (Engerix brand only). • There must be at least 4 wks between doses #1 and #2, and at least 8 wks between doses #2 and #3. Overall, there must be at least 16 wks between doses #1 and #3. • Give adults on hemodialysis or with other immunocompromising conditions 1 dose of 40 μg/mL (Recombivax HB) at 0, 1, 6m or 2 doses of 20 μg/mL (Engerix-B) given simultaneously at 0, 1, 2, 6m. • Schedule for those who have fallen behind:	Contraindication Previous severe allergic reaction (e.g. anaphylaxis) to this vaccine or to any of its components. Precaution Moderate or severe acute illness.
		If the series is delayed between doses, DO NOT start the series over. Continue from where the schedule was interrupted.	

¹ CDC. Use of Hepatitis B Vaccination for Adults with Diabetes Mellitus: Recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 2011;60(50):1709.

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administration (any vaccine can be given with another unless otherwise noted)	Contraindications and precautions (mild illness is not a contraindication)
Zoster (shingles) (HZV) Give Subcut	• People age 60yrs and older. NOTE: Do not test people age 60 yrs or older for varicella immunity prior to zoster vaccination. Persons born in the U.S. prior to 1980 can be presumed to be immune to varicella for the purpose of zoster vaccination, regardless of their recollection of having had chickenpox.	 Give 1-time dose if unvaccinated, regardless of previous history of herpes zoster (shingles) or chickenpox. If 2 or more of the following live virus vaccines are to be given – MMR, Var, HZV, and/or yellow fever – they should be given on the same day. If they are not, space them by at least 28d. 	Contraindications Previous severe allergic reaction (e.g., anaphylaxis) to any component of zoster vaccine. Primary cellular or acquired immunodeficiency. Pregnancy. Precautions Moderate or severe acute illness. Receipt of specific antivirals (i.e., acyclovir, famciclovir, or valacyclovir) 24hrs before vaccination, if possible; delay resumption of these antiviral drugs for 14d after vaccination.
Hib (Haemophilus influenzae type b) Give IM	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize. org/catg.d/p2010.pdf. • Not routinely recommended for healthy adults. • Those adults at highest risk of serious Hib disease include people who 1) have anatomic or functional asplenia, 2) are undergoing an elective splenectomy, or 3) are recipients of hematopoietic stem cell transplant (HSCT).	 Give 1 dose of any Hib conjugate vaccine to adults in categories 1 or 2 (see 2nd bullet in column to left) if no history of previous Hib vaccine. For HSCT patients, regardless of Hib vaccination history, give 3 doses, at least 4 wks apart, beginning 6–12m after transplant. 	Contraindication Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine or to any of its components. Precautions Moderate or severe acute illness.
Human papillomavirus (HPV) (HPV2, Cervarix) (HPV4, Gardasil; HPV9, Gardasil9) Give IM	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize. org/catg.d/p2010.pdf. • For unvaccinated females through age 26 yrs: Complete a 3-dose series of HPV2, HPV4, or HPV9. • For unvaccinated males through age 21 yrs: Complete a 3-dose series of HPV4 or HPV9. • For unvaccinated males age 22 through 26 yrs: Complete a 3-dose series of HPV4 or HPV9 for those who 1) have sex with men or 2) are immunocompromised as a result of infection (including HIV), disease, or medications, or 3) want to be protected from HPV	 Give 3 doses on a 0, 1–2, 6m schedule. Use either HPV2, HPV4, or HPV9 for women, and only HPV4 or HPV9 for men. There must be at least 4wks between doses #1 and #2 and at least 12wks between doses #2 and #3. Overall, there must be at least 24wks between doses #1 and #3. If the type of HPV vaccine previously given is not known or not available, any available HPV vaccine may be used to complete the series. 	Contraindication Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine or to any of its components. Precautions • Moderate or severe acute illness. • Pregnancy.
Inactivated Polio (IPV) Give IM or Subcut	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize. org/catg.d/p2010.pdf. • Not routinely recommended for U.S. residents age 18 yrs and older. NOTE: Adults living in the U.S. who never received or completed a primary series of polio vaccine need not be vaccinated unless they intend to travel to areas where exposure to wild-type virus is likely. Adults with documented prior vaccination can receive 1 booster dose if traveling to polio endemic areas or to areas where the risk of exposure is high.	For unique situations, schedules, and dosing information, see ACIP inactivated polio vaccine recommendations on pages 829–830 at www.cdc.gov/mmwr/PDF/wk/mm5830.pdf.	Contraindication Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine or to any of its components. Precautions • Moderate or severe acute illness. • Pregnancy.

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administration (any vaccine can be given with another unless otherwise noted)	Contraindications and precautions (mild illness is not a contraindication)
Pneumococcal conjugate (PCV13) Give IM Pneumococcal polysaccharide (PPSV23) Give IM or Subcut	For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" www.immunize.org/catg.d/p2010.pdf. All people age 65 yrs or older should receive 1-time dose of PCV13 (if previously unvaccinated) and 1 dose of PPSV23, separated by 1 yr; if possible, give PCV13 first. People younger than age 65 years should receive 1-time dose of PCV13 and 1st dose of PPSV23 if they have functional or anatomic asplenia, immunocompromising condition (see below), CSF leaks, or are a candidate for or recipient of a cochlear implant, 2nd dose of PPSV23 if at highest risk of serious pneumococcal infection, including those who Have anatomic or functional asplenia, including sickle cell disease. Have an immunocompromising condition, including HIV infection, leukemia, lymphoma, Hodgkin's disease, multiple myeloma, generalized malignancy, chronic renal failure, or nephrotic syndrome. Are receiving immunosuppressive chemotherapy (including high-dose corticosteroids). Have received an organ or bone marrow transplant. PPSV23 only (not PCV13) if younger than 65 yrs and they have chronic cardiac or pulmonary disease (including asthma), chronic liver disease, alcoholism, diabetes, smoke cigarettes, or live in special environments or social settings (including American Indian/Alaska Natives age 50 through 64 yrs if recommended by local public health authorities).	 When recommended (see column at left), give PCV13 and/or PPSV23 if unvaccinated or if previous vaccination history is unknown. For healthy people age 65 yrs and older, give PCV13 first followed by PPSV23 in 1 yr. When both PCV13 and PPSV23 are indicated, give PCV13 first followed by PPSV23 in 1yr. If previously vaccinated with PPSV, give PCV13 at least 12m after PPSV23. For people at highest risk of serious pneumococcal infection, if not previously vaccinated with PPSV23, give PCV13 first, followed by PPSV23 in 8 wks. Give another dose of PPSV23 to people Age 65 yrs and older if 1st dose was given prior to age 65 yrs and 5 yrs have elapsed since previous dose of PPSV. Age 19–64 yrs who are at highest risk of pneumococcal infection or rapid antibody loss (see the 3rd bullet in the box to left for listing of people at highest risk) and 5 yrs have elapsed since dose #1. 	Contraindication Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine, including (for PCV13) to any diphtheria toxoid- containing vaccine, or to any of its components. Precaution Moderate or severe acute illness.
Meningococcal conjugate (MCV4; Menactra, Menveo) Give IM ——— Meningococcal polysaccharide (MPSV4; Menomune) Give Subcut	 For people through age 18 years, consult "Summary of Recommendations for Child/Teen Immunization" at www.immunize.org/catg.d/ p2010.pdf. People with anatomic or functional asplenia or persistent complement component deficiency. People who travel to or reside in countries in which meningococcal disease is hyperendemic or epidemic (e.g., the "meningitis belt" of Sub-Saharan Africa). Microbiologists routinely exposed to isolates of <i>N. meningitidis</i>. First-year college students through age 21 yrs who live in residence halls and who have not been previously vaccinated or who received their first dose prior to age 16 yrs.; see the 5th bullet in the box to the right for details. 	 Give 2 initial doses of MCV4 separated by 2m to adults 55 yrs and younger with risk factors listed in 1st bullet in column to left or if vaccinating adults with HIV infection in this age group. Give 1 initial dose of MCV4 to all other adults with risk factors (see 2nd—4th bullets in column to left). Give booster doses of MCV4 every 5 yrs to adults with continuing risk (see the 1st—3rd bullets in column to left). MCV4 is preferred over MPSV4 for people age 55 yrs and younger. For people age 56 yrs and older who anticipate multiple doses (see the 1st—3rd bullets in column to left) or who have received MCV4 previously, use MCV4. For all others, give 1 dose of MPSV4. For first-year college students age 19—21 yrs living in residence halls, give 1 initial dose of MCV4 if unvaccinated. Give dose #2 if most recent dose was given when younger than 16 yrs. 	Contraindication Previous severe allergic reaction (e.g., anaphylaxis) to this vaccine or to any of its components. Precaution Moderate or severe acute illness.
Meningococcal serogroup B (MenB; Bexsero, Trumenba) Give IM	 Young adults through age 23 yrs as a Category B (permissive) recommendation (to allow for individual clinical decision-making). People with anatomic or functional asplenia or persistent complement component deficiency. Microbiologists routinely exposed to isolates of <i>N. meningitidis</i>. People identified as at increased risk because of a serogroup B meningococcal disease outbreak. 	 Give either 2 doses of Bexsero, 1m apart, or 3 doses of Trumenba on a 0-, 2-, and 6-month schedule. MenB products are not interchangeable. MenB vaccine may be given concomitantly with MCV4 vaccine. 	

It's Federal Law! You must give your patients current Vaccine Information Statements

It's Federal Law! You must give your patients current Vaccine Information Statements (VISs)

What are Vaccine Information Statements (VISs)?

Vaccine Information Statements (VISs) are documents produced by the Centers for Disease Control and Prevention (CDC), in consultation with panels of experts and parents, to properly inform vaccinees (or their parents/legal representatives) about the risks and benefits of each vaccine. VISs are not meant to replace interactions with health care providers, who should address any questions or concerns that the vaccinee (or parent/legal representative) may have.

Using VISs is legally required!

Federal law (under the National Childhood Vaccine Injury Act) requires a health care provider to give a copy of the current VIS to an adult patient or to a child's parent/legal representative before vaccinating an adult or child with a dose of the following vaccines: diphtheria, tetanus, pertussis, measles, mumps, rubella, polio, hepatitis A, hepatitis B, Haemophilus influenzae type b (Hib), influenza, pneumococcal conjugate, meningococcal, rotavirus, human papillomavirus (HPV), or varicella (chickenpox only).

Where to get VISs

immunization action coalition

All available VISs can be downloaded from the websites of the Immunization Action Coalition at www.immunize.org/vis or CDC at www.cdc.gov/vaccines/hcp/vis/index.html. Ready-to-copy versions may also be available from your state or local health department.

Translations: You can find VISs in more than 30 languages on the Immunization Action Coalition website at www.immunize.org/vis.

To obtain translations of VIS in languages other than English, go to www.immunize.org/vis.

According to CDC, the appropriate VIS must be given:

- ▶ Prior to the vaccination (and prior to each dose of a multi-dose series);
- ▶ Regardless of the age of the vaccinee;
- ▶ Regardless of whether the vaccine is given in a public or private health care setting.

Top 10 Facts About VISs



It's federal law! You must give current VISs to all your patients before vaccinating them.

Federal law requires that VISs must be used for patients of ALL ages when administering these vaccines: MMR and MMRV

- DTaP (includes DT)
- Td and Tdap
- Hib
- hepatitis A
- hepatitis B
- influenza (inactivated and live, intranasal

vaccines) For the vaccines not covered under the National Childhood Vaccine Injury Act (i.e., adenovirus, anthrax, Japanese encephalitis, pneumococcal polysaccharide, rabies, shingles, typhoid, and yellow fever), providers are not required by federal law to use VISs unless they have been purchased under CDC contract. However, CDC recommends that VISs be used whenever these vaccines are given.



VISs can be given to patients in a variety of ways.

meningococcal

■ polio

■ rotavirus

pneumococcal conjugate

■ varicella (chickenpox)

In most medical settings, VISs are provided to patients (or their parents/legal representatives) in paper form. However, VISs also may be provided using electronic media. Regardless of the format used, the goal is to provide a current VIS just prior to vaccination.

CONTINUED ON NEXT PAGE

- Share with staff in your medical setting!
- * Fully updated and redesigned to reflect new VIS dates
- Provides new information about the use of VISs and the ways they can be distributed.

Most current versions of VISs (table)

As of August 14, 2015, the most recent versions of the VISs are as follows:

Adenovirus	6/11/14	
Anthrax	3/10/10	
Chickenpox	3/13/08	
DTaP	5/17/07	
Hib	4/2/15	
Hepatitis A	10/25/11	
Hepatitis B	2/2/12	
HPV-Cervarix	5/3/11	1
HPV-Cervarix	.5/17/13	
HPV-Gardasil 9	4/15/15	1
Influenza	8/7/15	
Influenza	1/24/14	
Japanese enceph	10/14/11	
MCV4/MPSV4	0/14/15	
MenB	6/ 14/ 13	
. I b . Courro	nt VIS dates is	a

MMR MMRV Multi-vaccir PCV13 PPSV ... Polio Rabies . Rotavirus Shingles. Td. Tdap. Typhoid. Yellow fev

A handy list of current VIS dates www.immunize.org/catg.d/p2029.pdf.

Saint Paul, Minnesota • 651-647-9009 • www.immunize.org • www.vaccineinformation.org

www.immunize.org/catg.d/p2027

It's Federal Law! You Must Give Your Patients Current Vaccine Information Statements (VISs) (co

A VIS provides information about the disease and the vaccine an must be given to the patient before a vaccine is administered. It is also acceptable to hand out the VIS well before administerin vaccines (e.g., at a prenatal visit or at birth for vaccines an infant will receive during infancy), as long as you still provide a current VIS right before administering vaccines.

To verify that a VIS was given, providers must record in the patient's medical record (or perma nent office log or file) the following information:

VISs should not be altered before giving them to patients, but you can add some information.

unization Action Coalition general information and tra

Visit www.immunize.org/catg.d/p2027.pdf

Meningococcal Vaccine Recommendations by Age and Risk Factor for Serogroups A, C, W, or Y Protection

A separate vaccine is needed for protection against meningococcal serogroup B disease.

MenACWY = Menactra (sanofi) and Menveo (Novartis)

MenACWY-D = Menactra Hib-MenCY = MenHibrix (GlaxoSmithKline)

MenACWY-CRM = Menveo MPSV = Menomune (sanofi)

Routine Recommendations for Quadrivalent Meningococcal Conjugate Vaccine (MenACWY)				
For preteens age 11 through 12 years Give dose #1 of 2-dose MenACWY series.¹ (Dose #2 will be due at age 16 years.)				
For teens age 13 through 15 years Give catch-up dose #1 of 2-dose MenACWY series. (Dose #2 will be due at age 16 years				
For teens age 16 through 18 years Give dose #2 of MenACWY. Separate from dose #1 by at least 8 weeks.				
Catch-up for teens age 16 through 18 years If no history of prior vaccination with MenACWY, give 1 dose of MenACWY.				
For first year college students, age 19 through 21 years, living in residence halls If no history of prior vaccination with MenACWY, give 1 dose of MenACWY. If histo 1 dose of MenACWY given when younger than age 16 years, give dose #2 of MenACWY				

Risk-based Recommendations for Persons with Underlying Medical Conditions or Other Risk Factors					
TARGETED GROUP BY AGE AND/OR RISK FACTOR	PRIMARY DOSE(S)	BOOSTER DOSE(S)			
Travelers to or residents of countries where meningococcal disease is hyperendemic or epidemic, ³ people present during outbreaks caused by a vaccine serogroup, ⁴ and other people with prolonged increased risk for exposure (e.g., microbiologists routinely working with <i>Neisseria meningitidis</i>)					
For children age 2 through 18 months	Give MenACWY-CRM at ages 2, 4, 6 and 12–15 months. ⁵	If risk continues, give initial booster			
For children age 7 through 23 months who have not initiated a series of MenACWY-CRM or Hib-MenCY	Give 2 doses, separated by 3 months, ⁶ of MenACWY-CRM (if age 7–23 months) ⁷ or MenACWY-D (if age 9–23 months).	after 3 years followed by boosters every 5 years.			
For age 2 through 55 years	Give 1 dose of MenACWY.1	Boost every 5 years with MenACWY. ^{8,9}			
For age 56 years and older	If no previous MenACWY dose and either short- term travel or outbreak-related, give 1 dose of MPSV; all others, give 1 dose of MenACWY.	Boost every 5 years with MenACWY.9			
People with persistent complement component deficiencies ¹⁰					
For age 2 through 18 months	Give MenACWY-CRM or Hib-MenCY at ages 2, 4, 6 and 12–15 months	Give MenACWY booster after 3 years			
For children age 7 through 23 months who have not initiated a series of MenACWY-CRM or Hib-MenCY	Give 2 doses, separated by 3 months, of MenACWY-CRM (if age 7–23 months) ⁷ or MenACWY-D (if age 9–23 months).	followed by boosters every 5 years thereafter.			
For ages 2 through 55 years	Give 2 doses of MenACWY, 2 months apart.	Boost every 5 years with MenACWY.8,11			
For age 56 years and older	Give 2 doses of MenACWY, 2 months apart.	Boost every 5 years with MenACWY.11			
People with functional or anatomic asplenia, including	sickle cell disease				
For children age 2 through 18 months	Give MenACWY-CRM or Hib-MenCY at ages 2, 4, 6 and 12–15 months.	Give MenACWY booster after 3 years			
For children age 19 through 23 months who have not initiated a series of MenACWY-CRM or Hib-MenCY	Give 2 doses of MenACWY-CRM, 3 months apart.	followed by boosters every 5 years thereafter.			
For children age 2 through 55 years	Give 2 doses of MenACWY, 2 months apart. 12	Boost every 5 years with MenACWY.8,11			
For age 56 years and older	Give 2 doses of MenACWY, 2 months apart.	Boost every 5 years with MenACWY.11			

FOOTNOTES

- 1. If the person is HIV-positive, give 2 doses, 2 months apart.
- 2. The minimum interval between doses of MenACWY is 8 weeks.
- Prior receipt of Hib-MenCY is not sufficient for children traveling to the Hajj or African meningitis belt as it doesn't provide protection against serogroups A or W.
- 4. Seek advice of local public health authorities to determine if vaccination is recommended.
- 5. Children ages 2 through 18 months who are present during outbreaks caused by serogroups C or Y may be given an age-appropriate series of Hib-MenCY.
- If a child age 7 through 23 months will enter an endemic area in less than 3 months, give doses as close as 2 months apart.
- 7. If using MenACWY-CRM, dose 2 should be given no younger than age 12 months.
- 8. If primary dose(s) given when younger than age 7 years, give initial booster after 3 years, followed by boosters every 5 years.
- 9. Booster doses are recommended if the person remains at increased risk.
- Persistent complement component deficiencies include C3, C5–C9, properdin, factor H, and factor D.
- 11. If the person received a 1-dose primary series, give booster at the earliest opportunity, then boost every 5 years.
- 12. Children with functional or anatomic asplenia should complete an age-appropriate series of PCV13 vaccine before vaccination with MenACWY-D; MenACWY-D should be given at least 4 weeks following last dose of PCV13. MenACWY-CRM or Hib-MenCY may be given at any time before or after PCV13.

Technical content reviewed by the Centers for Disease Control and Prevention

Meningococcal Vaccine Licensure Information

Trade Name	Type of Vaccine	Serogroups Included	Year Licensed	FDA-approved Ages
Menomune	Polysaccharide	A, C, W, Y	1981	2 years and older
Menactra	Conjugate	A, C, W, Y	2005	9 months-55 years*
Menveo	Conjugate	A, C, W, Y	2010	2 months-55 years*
MenHibrix	Conjugate	C, Y, and Hib	2012	6 weeks–18 months
Trumenba	Protein	В	2014	10–25 years+
Bexsero	Protein	В	2015	10–25 years+

- *May be given to people age 56 years or older (consult ACIP recommendations at www.cdc.gov/mmwr/pdf/rr/rr6202.pdf).
- + May be given to people age 26 years or older (consult ACIP recommendations at www.cdc.gov/mmwr/pdf/wk/mm6422.pdf).
- against all 5 serogroups of meningococcus, it is necessary to receive MCV4 or MPSV4 and MenB.

Where can I find the most current meningococcal vaccine recommendations?

The most current recommendations for meningo-coccal polysaccharide and conjugate vaccines, which include serogroups A, C, W, and Y, were published in March 2013. This document is available on the *MMWR* website at www.cdc.gov/mmwr/pdf/rr/rr6202.pdf. Recommendations for use of MenB vaccine among persons at increased risk were published in June 2015 and are available at www.cdc.gov/mmwr/pdf/wk/mm6422.pdf, pages 608–12. MenB vaccine recommendations for adolescents and young adults were published in October 2015 and are available at www.cdc.gov/mmwr/pdf/wk/mm6441.pdf, pages 1171–6.

Who is recommended to be vaccinated against meningococcal disease?

Certain groups should receive both meningococcal conjugate vaccines (MCV4: Menactra, Sanofi Pasteur; Menveo, GSK) and MenB vaccines (Trumenba, Pfizer; Bexsero, GSK). Others are recommended to receive MCV4 only. MPSV4 (Menomune, Sanofi Pasteur) is recommended only for certain people older than 55 years.

- ► MCV4 is recommended for these groups:
 - All children and teens, ages 11 through 18 years
 - People younger than 22 years of age if they are or will be a first-year college student living in a residential hall

Vaccinate Adults correction policy

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- People (age 2 months and older) with functional or anatomic asplenia
- People (age 2 months and older) who have persistent complement component deficiency (an immune system disorder)
- People (age 2 months and older) who are at risk during an outbreak caused by a vaccine serogroup
- People (age 2 months and older) who reside in or travel to certain countries in sub-Saharan Africa as well as to other countries for which meningococcal vaccine is recommended (e.g., travel to Mecca, Saudi Arabia, for the annual Hajj)
- Microbiologists who work with meningococcus bacteria in a laboratory
- ► MenB is routinely recommended for these groups:
 - People (age 10 years and older) who have functional or anatomic asplenia
 - People (age 10 years and older) who have persistent complement component deficiency
 - People (age 10 years and older) who are at risk during an outbreak caused by a vaccine serogroup, such as on college campuses
 - Microbiologists who work with meningococcus bacteria in a laboratory

For adolescents and young adults, ACIP recommends that a MenB vaccine series may be administered to people 16 through 23 years of age with a preferred age of vaccination of 16 through 18 years. This Category B recommendation allows the clinician to make a MenB vaccine recommendation based on the risk and benefit for the individual patient.

ACIP now designates a vaccine recommendation as either Category "A" or "B." My interpretation is that an A recommendation means the vaccine is routinely recommended for all people in an age or risk group, and a B recommendation is for use at the clinician's discretion. Does the Affordable Care Act (ACA) require health plans (non-grandfathered)

IAC's "Ask the Experts" team from the Centers for Disease Control and Prevention





Andrew T. Kroger, MD, MPH

Donna L. Weaver, RN, MN

to provide benefit coverage on Category B recommended vaccines?

Your understanding of A and B recommendations is correct. ACA requires coverage of vaccines with both A and B recommendations. The Vaccines For Children program also covers vaccines with a Category B recommendation.

Should college students be vaccinated against meningococcal disease?

MCV4 vaccine is recommended for previously unvaccinated first-year college students who are age 21 years and younger, who are or will be living in a residence hall. Some colleges and universities require incoming freshmen and others to be vaccinated with MCV4; some may also require that a dose of MCV4 have been given since the age of 16 years.

Although several small MenB outbreaks have occurred on college campuses since 2013, college students in general are not at higher risk of MenB then persons of the same age who are not college students. Consequently, ACIP does not routinely recommend MenB vaccination for college students. However, college students may choose to receive MenB vaccine to reduce their risk of serogroup B meningococcal disease.

What is the schedule for MCV4 vaccine?

All adolescents should receive a dose of MCV4 at 11 or 12 years of age. A second (booster) dose is recommended at 16 years of age. Adolescents who receive their first dose at age 13 through 15 years should receive a booster dose at age 16 through 18 years. The minimum interval between MCV4 doses is 8 weeks. Adolescents who receive a first dose after their 16th birthday do not need a booster dose unless they become at increased risk for meningococcal disease. Colleges may not consider a second dose given even a few days before age 16 years as valid, so keep that mind when scheduling patients.

Ask the Experts...continued on page 15 ▶

Ask the Experts...continued from page 14

What is the schedule for MenB vaccine?

Trumenba (Pfizer) is a 3-dose series with the second and third doses administered 2 and 6 months after the first dose. Bexsero (GSK) is a 2-dose series with doses given at least 1 month apart.

Which previously vaccinated college students need a booster dose of MCV4?

A booster dose should be given to first-year college students age 21 years and younger who are or will be living in a residence hall if the previous dose was given before the age of 16 years.

Can you provide a comprehensive overview of the MCV4 recommendations for vaccinating people who have risk factors?

IAC has prepared a table that provides a summary of the ACIP recommendations for use of meningococcal vaccine for people of all ages, including recommendations published by ACIP in MMWR in March 2013. The table is available at www.immunize.org/catg.d/p2018.pdf and is found on page 13 of this issue of Vaccinate Adults.

I have a patient with paroxysmal nocturnal hemoglobinuria who is being treated with Soliris (eculizumab). Should he receive meningococcal vaccine?

Eculizumab binds to C5 and inhibits the terminal complement pathway. Persons with persistent complement component deficiency are at increased risk for meningococcal disease. This person should receive a series of both quadrivalent meningococcal conjugate (MCV4; 2 doses separated by at least 8 weeks) and a 2- or 3-dose series (depending on brand) of meningococcal serogroup B vaccine.

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Are people who are HIV positive in a risk group for meningococcal disease?

HIV infection does not put a person into a risk group that necessitates vaccination with either MCV4 or MenB vaccine. However, the updated ACIP recommendations for use of MCV4 vaccines state that people with HIV who are vaccinated should receive a 2-dose primary series administered 2 months apart. Accordingly, the following HIV-positive people should receive 2 initial doses of MCV4 (instead of 1), spaced 2 months apart:

- HIV-positive adolescents age 11 through 18 years who, like other adolescents, are recommended for routine MCV4 vaccination
- HIV-positive people age 2 through 55 years who are at prolonged increased risk for exposure to meningococcal disease (for example, travelers to, or residents of, countries where meningococcal disease is hyperendemic or epidemic and microbiologists who routinely work with Neisseria meningitidis)
- any HIV-positive adult who chooses to be vaccinated

Should all adolescents receive a routine booster dose of MCV4?

ACIP recommends people age 11 or 12 years be routinely vaccinated with quadrivalent MCV4 and receive a booster dose at age 16 years. Adolescents who receive the first dose at age 13 through 15 years should receive a one-time booster dose at age 16 through 18 years, which are the years before the peak in incidence of meningococcal disease among adolescents occurs. Teens who receive their first dose of meningococcal conjugate vaccine at or after age 16 years do not need a booster dose, as long as they have no risk factors.

Why does ACIP recommend a routine booster dose of MCV4 for adolescents age 16 years and older?

In 2005, ACIP recommended routine MCV4 vaccination for all adolescents at age 11 or 12 years to protect them from meningococcal disease as older teens. The peak age for meningococcal disease is 16 through 21 years. In 2005, ACIP reasoned that higher MCV4 vaccination rates could be achieved if, when administering the dose, it was coupled with giving the Td booster dose at the 11- or 12-year-old visit (the Td dose for 11- or 12-yearolds was replaced by Tdap in 2006). Subsequent studies indicated that the protection provided by MCV4 wanes within 5 years following vaccination. For this reason, in 2010, ACIP recommended an MCV4 vaccine booster dose to provide continuing protection during the peak years of vulnerability (see www.cdc.gov/mmwr/pdf/wk/mm6003.pdf, pages 72-76).

If someone received MPSV4 or MCV4 at age 9 years, will two additional doses of MCV4 be needed?

Yes. Doses of quadrivalent meningococcal vaccine (either MPSV4 or MCV4) given before 10 years of age do not count as part of the series. If a child received a dose of either MPSV4 or MCV4 before age 10 years, they should receive a dose of MCV4 at 11 or 12 years and a booster dose at age 16 years.

Which groups should receive a booster dose of MenB vaccine?

ACIP does not currently recommend booster doses of MenB vaccine for any group.

By what route should meningococcal vaccines be administered?

MCV4 should be administered by the intramuscular route. MPSV4 should be given by the subcutaneous route. MenB is given by the intramuscular route.

Can MCV4 and MenB vaccines be given at the same visit?

Yes. MCV4 and MenB vaccines can be given at the same visit or at any time before or after the other.

I understand that a prior history of Guillain-Barrè syndrome (GBS) is no longer a precaution for giving meningococcal conjugate vaccine. Please tell me more about this.

A history of GBS had previously been a precaution for Menactra (Sanofi Pasteur), a brand of MCV4 vaccine. Findings from two studies that examined more than 2 million doses of Menactra given since 2005 showed no evidence of an increased risk of GBS. Consequently, ACIP recommended in 2010 to remove the precaution for use of Menactra in people with a history of GBS. This precaution did not apply to other meningococcal vaccines.

HPV vaccines

If a vaccination series was started with HPV2 or HPV4, can it be completed with HPV9? If the answer is yes, what are the spacing intervals that should be used for the remaining doses in the 3-dose series?

ACIP recommendations state that HPV9 may be used to continue or complete a series started with a different HPV vaccine product. The intervals between doses remain the same regardless of what vaccine is used to complete the series. The second dose is given 1 to 2 months after the first dose and the third dose 4 months after the second AND at least 6 months after the first dose.

Are additional HPV9 doses recommended for a person who started a series with HPV2 or HPV4 and completed the series with one or two doses of HPV9?

There is no ACIP recommendation for additional doses of HPV9 for persons who started the series with HPV2 or HPV4 and completed the series with HPV9.

For CDC's supplemental information and guidance on the use of HPV9 vaccine, go to www.cdc.gov/ hpv/downloads/9vhpv-guidance.pdf.

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