VACCINATE ADULTS!

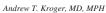
from the Immunization Action Coalition — www.immunize.org

What's In This Issue

Ask the Experts: CDC Answers Questions	1	
Redesigned! "Ask the Experts" Home Page and "Question of the Week"	2	
Vaccine Highlights: Recommendations, Schedules, and More	4	
Unprotected People Report – Measles: A Dangerous Illness	5	
Summary of Recommendations for Adult Immunization	6	
Checklist: Suggestions to Improve Your Immunization Services	10	
Vaccine Administration Record for Adults	11	
Handout: A Guide for Gay and Bisexual Men About Hepatitis A and Hepatitis B	12	
Hepatitis A, B, and C: Learn the Differences	13	
Patient Handouts: Schedules for All Adults and High-Risk Adults	14	
IAC's Immunization Resources Order Form	16	

Meet the Experts







Donna L. Weaver, RN, MN

The Immunization Action Coalition thanks medical officer Andrew T. Kroger, MD, MPH, and nurse educator Donna L. Weaver, RN, MN, both from the National Center for Immunization and Respiratory Diseases at the Centers for Disease Control and Prevention.

Ask the Experts

Experts at the Centers for Disease Control and Prevention provide answers to hundreds of challenging and timely questions about vaccines and their administration at www.immunize.org/askexperts

MMR vaccine

Many people age 60 years and older do not have records indicating what type of measles vaccine they received as children in the early 1960s. What measles vaccine was most frequently given in that time period? That guidance would assist many older people who would prefer not to be revaccinated.

Both killed and live attenuated measles vaccines became available in 1963. Live attenuated vaccine was used more often than killed vaccine. The killed vaccine was found to be not effective and people who received it should be revaccinated with live vaccine. Without a written record, it is not possible to know what type of vaccine an individual may have received. So persons born during or after 1957 who received killed measles vaccine or measles

Immunization questions?

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

vaccine of unknown type, or who cannot document having been vaccinated or having laboratory-confirmed measles disease should receive at least 1 dose of MMR. Some people at increased risk of exposure to measles (such as healthcare professionals and international travelers) should receive 2 doses of MMR separated by at least 4 weeks.

Tdap vaccine

Is it acceptable to administer Tdap vaccine to breastfeeding mothers?

Yes. Women who have never received Tdap and who did not receive it during pregnancy should receive it immediately postpartum or as soon as possible thereafter. Breastfeeding does not decrease the immune response to routine childhood vaccines and is not a contraindication for any vaccine except smallpox. Breastfeeding is a precaution for yellow fever vaccine and the vaccine can be given for travel when indicated.

HPV vaccine

Can human papillomavirus (HPV) be transmitted by non-sexual transmission routes, such as clothing, undergarments, sex toys, or surfaces? Nonsexual HPV transmission is theoretically possible but has not been definitely demonstrated.

This is mainly because HPV can't be cultured and DNA detection from the environment is difficult and likely prone to false negative results.

Pneumococcal vaccine

Is pneumococcal polysaccharide vaccine indicated for former smokers?

Pneumococcal polysaccharide vaccine (PPSV23, Pneumovax, Merck) is currently recommended for people age 19 through 64 years who actively smoke cigarettes (see www.cdc.gov/mmwr/preview/mmwrhtml/mm5934a3.htm). However, chronic lung disease is an indication for PPSV23, which could be applicable for former smokers.

Zoster vaccine

I know that ACIP only recommends zoster vaccine for adults age 60 years and older, although it is licensed for use in those 50 years and older. If I choose to vaccinate patients age 50–59 years, are there any criteria as to which patients in this age group might benefit most from zoster vaccination?

CDC had the following to say about your question in a November 11, 2011, issue of MMWR titled "Update on Herpes Zoster Vaccine: Licensure for Persons Aged 50 Through 59 Years" (www. cdc.gov/mmwr/preview/mmwrhtml/mm6044a5. htm): "For vaccination providers who choose to use Zostavax among certain patients aged 50 through 59 years despite the absence of an ACIP recommendation, factors that might be considered include particularly poor anticipated tolerance of herpes zoster or postherpetic neuralgia symptoms (e.g., attributable to preexisting chronic pain, severe depression, or other comorbid conditions; inability to tolerate treatment medications because of hypersensitivity or interactions with other chronic medications; and occupational considerations)."

Ask the Experts . . . continued on page 15 ▶

Stay current with FREE subscriptions

The Immunization Action Coalition's 2 periodicals, *Vaccinate Adults* and *Needle Tips*, and our email news service, *IAC Express*, are packed with up-to-date information.

Subscribe to all 3 free publications in one place. It's simple! Go to

www.immunize.org/subscribe

Vaccinate Adults!

online at www.immunize.org/va **Immunization Action Coalition**

> Saint Paul, Minnesota Phone: (651) 647-9009 Fax: (651) 647-9131 Email: admin@immunize.org Websites: www.immunize.org www.vaccineinformation.org www.izcoalitions.org

Vaccinate Adults is a publication of the Immunization Action Coalition (IAC) written for health professionals. Content is reviewed by the Centers for Disease Control and Prevention (CDC) for technical accuracy. This publication is supported by CDC Grant No. U38IP000589. The content is solely the responsibility of IAC and does not necessarily represent the official views of CDC. ISSN 1526-1824.

Publication Staff

Editor: Deborah L. Wexler, MD Associate Editor: Diane C. Peterson Edit./Opr. Asst.: Janelle T. Anderson, MA Consultants: Teresa A. Anderson, DDS, MPH, Marian Deegan, JD, Linda A. Moyer, RN,

and Mary Quirk Layout: Kathy Cohen Website Design: Sarah Joy

IAC Staff

Chief Strategy Officer: L.J (Litjen) Tan, MS, PhD

Assoc. Director for Immunization Education: William L. Atkinson, MD, MPH Associate Director for Research: Sharon G. Humiston, MD, MPH

Coordinator for Public Health: Laurel Wood, MPA

Asst. to the Director: Julie Murphy, MA Operations Manager: Robin VanOss Associate Operations Manager: Casey Pauly

IAC publishes a free email news service (IAC Express) and two free periodicals (Needle Tips and Vaccinate Adults). 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.

The Immunization Action Coalition is also supported by

Merck Sharp & Dohme Corp. Novartis Vaccines • Pfizer Inc. sanofi pasteur · GlaxoSmithKline MedImmune, Inc. • bioCSL Inc. Ortho Clinical Diagnostics, Inc. Physicians' Alliance of America American Pharmacists Association Mark and Muriel Wexler Foundation Anonymous, and

Many other generous donors

IAC maintains strict editorial independence in its publications.

IAC Board of Directors

Stephanie L. Jakim, MD lmsted Medical Center

James P. McCord, MD Children's Hospital at Legacy Emanuel

> Sheila M. Specker, MD University of Minnesota

Debra A. Strodthoff, MD Amery Regional Medical Center

Deborah L. Wexler, MD Immunization Action Coalition

Redesigned "Ask the Experts" home page is user friendly and now includes the new feature "Question of the Week"

"Ask the Experts" at www.immunize.org/askexperts is one of the most popular features on immunize.org, with more than two million page views last year. Now, the "Ask the Experts" home page has been redesigned to improve its usability and to accommodate the new feature "Question of the Week." Read on for more details.

When you visit the home page of "Ask the Experts," the first thing you'll notice is the organizing heart of the page, a large box with three tabs. Click on the following tabs to access the archive of hundreds of "Ask the Experts" questions and answers (Q&As) organized by vaccine and vaccination topic area.

Vaccine Index Tab

Access direct links to Q&As on 16 vaccines/vaccinepreventable diseases, including combination vaccines.

Topic Index Tab

Access direct links to Q&As covering eight general vaccination topic areas:

- Administering Vaccines
- Billing and Reimbursement
- Documenting Vaccination
- · Precautions and Contraindications
- Scheduling Vaccines
- · Storage and Handling
- · Vaccine Recommendations
- · Vaccine Safety

A-Z Tab

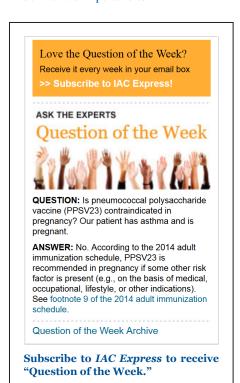
Access links to an alphabetical listing of all of the vaccine and topic areas contained in the "Ask the Experts" web section.

New! "Ask the Experts—Question of the Week"

IAC Express, the weekly email news and information service of the Immunization Action Coalition (IAC), now includes a new feature called "Question of the Week," available at www.immunize.org/askexperts/ qotw.asp. Each week, IAC Express highlights a new, topical, or important-to-reiterate Q&A. This new feature is a cooperative venture between IAC and the Centers for Disease Control and Prevention. William L. Atkinson, MD, MPH, IAC's associate director for immunization education, chooses a new Q&A to feature every week from a set of Q&As prepared by experts at CDC's National Center for Immunization and Respiratory Diseases.

We hope you enjoy this new feature and find it helpful when dealing with difficult real-life scenarios in your vaccination practice. Please encourage your healthcare professional colleagues to sign up to receive IAC Express, including "Question of the Week," at www. immunize.org/subscribe.

If you have a question for the CDC immunization experts, you can email them directly at nipinfo@cdc. gov. There is no charge for this service. We hope you will visit "Ask the Experts" often.



To receive "Question of the Week" by email, subscribe to IAC Express, the Immunization Action Coalition's e-news and information service at www.immunize.org/subscribe

DISCLAIMER: Vaccinate Adults! is available to all readers free of charge. Some of the information in this issue is supplied to us by the Centers for Disease Control and Prevention in Atlanta, Georgia, and some information is supplied by third-party sources. The Immunization Action Coalition (IAC) has used its best efforts to accurately publish all of this information, but IAC cannot guarantee that the original information as supplied by others is correct or complete, or that it has been accurately published. Some of the information in this issue is created or compiled by IAC. All of the information in this issue is of a time-critical nature, and we cannot guarantee that some of the information is not now outdated, inaccurate, or incomplete. IAC cannot guarantee that reliance on the information in this issue will cause no injury. Before you rely on the information in this issue, you should first independently verify its current accuracy and completeness. IAC is not licensed to practice medicine or pharmacology, and the providing of the information in this issue does not constitute such practice. Any claim against IAC must be submitted to binding arbitration under the auspices of the American Arbitration Association in St. Paul, Minnesota.

Where in the world is IAC?

After July 18, the answer is in our newly designed offices at the dynamic Court International building in a nearby neighborhood of Saint Paul, Minnesota.



Please mark down our new address so you can come visit when you're in town:

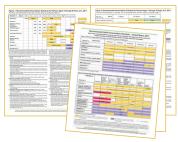
Immunization Action Coalition

2550 University Avenue West Suite 415 North Saint Paul, MN 55114 (651) 647-9009



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

Here are the ACIP/AAFP/ACP/ACOG/ACNM-approved schedule for adults and the ACIP/AAP/AAFP-approved immunization schedule for people ages 0 through 18 years. Both are laminated and washable for heavy-duty use, complete with essential footnotes, and printed in color for easy reading. The cost is \$7.50 for each schedule and only \$5.50 each for five or more copies.



To order, visit www.immunize.org/shop, or use the order form on page 16. For 20 or more copies, contact us for discount pricing: admininfo@immunize.org

Wallet-sized immunization record cards for all ages: For adults, children & teens, and for a lifetime!



Now you can give any patient a permanent vaccination record card designed specifically for their age group: adult, child & teen, or lifetime. These brightly colored cards are printed on durable rip-, smudge-, and water-proof paper. To view the cards or for more details, go to www.immunize.org/shop and click on the images.

Buy I box (250 cards) for \$45 (first order of a 250-card box comes with a 30-day, money-back guarantee). Discounts for larger orders: 2 boxes \$40 each; 3 boxes \$37.50 each; 4 boxes \$34.50 each

To order, visit www.immunize.org/shop, or use the order form on page 16. To receive sample cards, contact us: admininfo@immunize.org

Advisory Board

Liaisons from Organizations

Bernadette A. Albanese, MD, MPH Council of State & Territorial Epidemiologists Stephen L. Cochi, MD, MPH Nat'l Ctr. for Immun. & Resp. Diseases, CDC Paul Etkind, DrPH, MPH

Nat'l, Assn. of County & City Health Officials Bruce Gellin, MD, MPH

National Vaccine Program Office, DHHS Neal A. Halsey, MD

Institute for Vaccine Safety, Johns Hopkins Univ. Claire Hannan, MPH Association of Immunization Managers

Carol E. Haves, CNM, MN, MPH American College of Nurse-Midwives

Gregory James, DO, MPH, FACOFP American Osteopathic Association

Samuel L. Katz, MD

Pediatric Infectious Diseases Society Elyse Olshen Kharbanda, MD, MPH Society for Adolescent Health and Medicine

Marie-Michele Leger, MPH, PA-C American Academy of Physician Assistants

Harold S. Margolis, MD

Nat'l Ctr. for Emerg. & Zoonotic Inf. Diseases, CDC Martin G. Myers, MD

National Network for Immunization Information Kathleen M. Neuzil, MD, MPH

American College of Physicians Paul A. Offit, MD

Vaccine Education Ctr., Children's Hosp. of Phila.

Walter A. Orenstein, MD Emory Vaccine Center, Emory University

Mitchel C. Rothholz, RPh, MBA American Pharmacists Association

Thomas N. Saari, MD American Academy of Pediatrics

William Schaffner, MD Infectious Diseases Society of America

Anne Schuchat, MD Nat'l Ctr. for Immun. & Resp. Diseases, CDC

Rhoda Sperling, MD Amer. College of Obstetricians & Gynecologists

Thomas E. Stenvig, RN, PhD American Nurses Association

Kathryn L. Talkington, MPAff Assn. of State & Territorial Health Officials

Ann S. Taub, MA, CPNP National Assn. of Pediatric Nurse Practitioners

John W. Ward, MD Division of Viral Hepatitis, NCHHSTP, CDC

Patricia N. Whitley-Williams, MD, MPH National Medical Association

Walter W. Williams, MD, MPH Nat'l Ctr. for Immun. & Resp. Diseases, CDC

Individuals

Hie-Won L. Hann, MD Jefferson Medical College, Philadelphia, PA Mark A. Kane, MD, MPH Consultant, Seattle, WA

Edgar K. Marcuse, MD, MPH University of Washington School of Medicine

Brian J. McMahon, MD Alaska Native Medical Center, Anchorage, AK Stanley A. Plotkin, MD

Vaxconsult con Gregory A. Poland, MD

Mayo Clinic, Rochester, MN Sarah Jane Schwarzenberg, MD

University of Minnesota Coleman I. Smith, MD

Minnesota Gastroenterology, Minneapolis, MN Richard K. Zimmerman, MD, MPH University of Pittsburgh

Vaccine Highlights

Recommendations, schedules, and more

Editor's note: The information in Vaccine Highlights is current as of June 30, 2014.

Next ACIP meetings

A committee of 15 national experts, the Advisory Committee on Immunization Practices (ACIP), advises CDC on the appropriate use of vaccines. ACIP meets three times a year in Atlanta; meetings are open to the public. The next two meetings will be held on October 29–30 and February 25–26. For more information, visit www.cdc.gov/vaccines/acip/index.html.

ACIP periodically issues public health recommendations on the use of vaccines. Clinicians who vaccinate should have a current set for reference. Published in the *Morbidity and Mortality Weekly Report (MMWR)*, ACIP recommendations are readily available. Here are sources:

- Download them from links on Immunization Action Coalition (IAC) website: www.immunize. org/acip.
- Download them from CDC's ACIP 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, including details on past and upcoming meetings, meeting dates, registration, draft agendas, minutes, live meeting archives, and presentation slides.

CDC immunization news

In June 2014, CDC released a new web-ondemand training video (45 min) titled "Keys to Storing and Handling Your Vaccine Supply." The video and related materials are available at www2. cdc.gov/vaccines/ed/shvideo. This resource is designed to decrease vaccine storage and handling errors and preserve the nation's vaccine supply by demonstrating the recommended best practices for storage and handling of vaccines. Continuing education credit is available until April 17, 2016, for those who complete the course.

On Sept. 29–30, CDC, the Task Force for Global Health, and the CDC Foundation will host the National Immunization Conference (NIC) titled "U.S. Immunization in a Time of Change," in Atlanta, Georgia. Please note that this conference will be much smaller in scale than previous NIC events, with attendance limited to approximately 800 people. For more information about NIC, contact the conference planning team at (404) 639-8225 or via email at NIPNIC@cdc.gov. Registration information and more details will be made available at www.cdc.gov/vaccines/events/nic/index.html.

Measles news

According to a CDC telebriefing held on May 29, 288 cases of measles were reported to CDC in the U.S. between January 1 and May 23, 2014. This is the largest number of measles cases in the U.S. reported in the first five months of a year since 1994. Nearly all of the measles cases this year have been associated with international travel by unvaccinated people. On June 6, CDC published "Measles—U.S., January 1–May 23, 2014" in *MMWR*. CDC urges healthcare professionals to consider measles when evaluating patients with febrile rash and ask about a patient's recent travel history and contact with individuals who have recently traveled abroad. Download the complete report at www.cdc.gov/mmwr/preview/mmwrhtml/mm6322a4.htm.

On April 25 and April 11, CDC published two articles in *MMWR* about measles outbreaks in the U.S.

- "Notes from the Field: Measles—California, January 1–April 18, 2014" available at www.cdc. gov/mmwr/preview/mmwrhtml/mm6316a6.htm.
- "Measles Outbreak Associated with Adopted Children from China—Missouri, Minnesota, and Washington, July 2013" available at www.cdc. gov/mmwr/preview/mmwrhtml/mm6314a1.htm.

Polio news

On May 5, the World Health Organization (WHO) issued a statement on the meeting of the International Health Regulations Emergency Committee concerning the international spread of wild poliovirus. The Emergency Committee convened by the Director-General under the International Health Regulations (2005) was held by teleconference on April 28 and 29, 2014. Access the WHO statement at www.who.int/mediacentre/news/statements/2014/polio-20140505/en/.

On June 2, the CDC Health Alert Network (HAN) issued a CDC Health Advisory titled "Guidance to U.S. Clinicians Regarding New WHO Polio Vaccination Requirements for Travel by Residents of and Long-term Visitors to Countries with Active Polio Transmission." The CDC Health Advisory is available at http://emergency.cdc.gov/han/han00362.asp.

HPV vaccine news

In February, the American Academy of Family Physicians, American Academy of Pediatrics, American College of Obstetricians and Gynecologists, American College of Physicians, CDC, and IAC released a "Dear Colleague" letter urging healthcare providers to promote

Subscribe to IAC Express!

www.immunize.org/subscribe



Get weekly updates on vaccine information while it's still news!

All the news we publish in

"Vaccine Highlights" will be sent by
email to you every Tuesday. Free!

To sign up for IAC Express—and any of
our other free publications—visit

www.immunize.org/subscribe

HPV vaccination. Please share the letter widely; it is available at www.immunize.org/letter/recommend_hpv_vaccination.pdf.

Adult immunization news

The March/April 2014 issue of *Public Health Reports* published "Recommendations of the National Vaccine Advisory Committee (NVAC): Standards for Adult Immunization Practice." Access the Standards at www.publichealthreports. org/issueopen.cfm?articleID=3145. The NVAC standards recognize the importance of the healthcare provider recommendation for patients to receive needed vaccines, the current low vaccination rates among U.S. adults, and reflect the changed environment within which adult vaccines are now given.

The 2014 National Adult and Influenza Immunization Summit (NAIIS) was held in Atlanta on May 13–15, with over 300 people attending. Slides of the presentations made at the summit are now available on the summit website at www. izsummitpartners.org/2014-naiis. NAIIS is led by IAC, CDC, and the National Vaccine Program Office, and includes more than 140 organizations and 800 participants. NAIIS recently launched its new website at www.izsummitpartners.org to provide information about the annual summit meeting and NAIIS workgroups, as well as links to many resources related to adult vaccination.

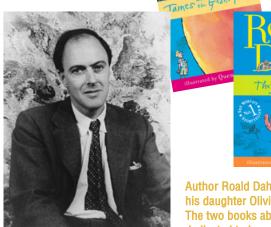
UNPROTECTED PEOPLE REPORT #108

Measles: A Dangerous Illness

The Immunization Action Coalition publishes "Unprotected People Reports" about people who have suffered or died from vaccine-preventable diseases.

Measles is a serious disease. The measles virus is very contagious, so when one person gets infected, it's easy for the disease to spread. Measles is still common around the world. There have been many recent measles outbreaks due to infected people bringing the disease into the United States from other countries. Unvaccinated people put themselves and others at risk for measles and its serious complications.

In 1962, Roald Dahl, author of Charlie and the Chocolate Factory and many other beloved books for children and young adults, suffered a heartbreaking loss: the death of his 7-year-old daughter Olivia from the complications of measles encephalitis. More than 20 years after Olivia's death, Dahl wrote this personal essay in her memory. Dahl aimed his essay at parents who were refusing to give their children the measles vaccine in the United Kingdom. He encourages all parents to get their children vaccinated. As Dahl states in his essay: "It really is almost a crime to allow your child to go unimmunised."



Author Roald Dahl, at left, lost his daughter Olivia to measles. The two books above are dedicated to her.

By Roald Dahl

My eldest daughter caught measles when she was seven years old. As the illness took its usual course I can remember reading to her often in bed and not feeling particularly alarmed about it. Then one morning, when she was well on the road to recovery, I was sitting on her bed showing her how to fashion little animals out of coloured pipe-cleaners, and when it came to her turn to make one herself, I noticed that her fingers and her mind were not working together and she couldn't do anything.

"Are you feeling all right?" I asked her.

"I feel all sleepy," she said.

In an hour, she was unconscious. In twelve hours she was dead.

The measles had turned into a terrible thing called measles encephalitis and there was nothing the doctors could do to save her.

That was twenty-four years ago in 1962, but even now, if a child with measles happens to develop the same deadly reaction from measles as Olivia did, there would still be nothing the doctors could do to help her.

On the other hand, there is today something that parents can do to make sure that this sort of tragedy does not happen to a child of theirs. They can insist that their child is immunised against measles. I was unable to do that for Olivia in 1962 because in those days a reliable measles vaccine had not been discovered. Today a good and safe vaccine is available to every family and all you have to do is to ask your doctor to administer it.

It is not yet generally accepted that measles can be a dangerous illness.

Believe me, it is. In my opinion parents who now refuse to have their children immunised are putting the lives of those children at risk.

In America, where measles immunisation is compulsory, measles, like smallpox, has been virtually wiped out.

Here in Britain, because so many parents refuse, either out of obstinacy or ignorance or fear, to allow their children to be immunised, we still have a hundred thousand cases of measles every year.

Out of those, more than 10,000 will suffer side effects of one kind or another.

At least 10,000 will develop ear or chest infections.

About 20 will die.

LET THAT SINK IN.

Every year around 20 children will die in Britain from measles.

So what about the risks that your children will run from being immunised?

They are almost non-existent. Listen to this. In a district of around 300,000 people, there will be only one child every 250 years who will develop serious side effects from measles immunisation! That is about a million to one chance. I should think there would be more chance of your child choking to death on a chocolate bar than of becoming seriously ill from a measles immunisation.

So what on earth are you worrying about?

It really is almost a crime to allow your child to go unimmunised.

The ideal time to have it done is at 13 months, but it is never too late. All school-children who have not yet had a measles immunisation should beg their parents to arrange for them to have one as soon as possible.

Incidentally, I dedicated two of my books to Olivia, the first was *James and the Giant Peach*. That was when she was still alive. The second was *The BFG*, dedicated to her memory after she had died from measles. You will see her name at the beginning of each of these books. And I know how happy she would be if only she could know that her death had helped to save a good deal of illness and death among other children.

To read more articles
and case reports about people
who have suffered or died from
vaccine-preventable diseases,
visit IAC's web section
"Unprotected People Reports"
www.immunize.org/reports

www.mmunize.org/reports

It includes more than 100 reports.

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

(Page 1 of 4)

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administration (any vaccine can be given with another)	Contraindications and precautions (mild illness is not a contraindication)
Influenza Inactivated Influenza vaccine (IIV*) Give IM or ID (intradermally) *includes recombinant influenza vaccine (RIV) Live attenuated influenza vaccine (LAIV) Give 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, including healthy adults ages 19–49yrs without risk factors. • LAIV is licensed for use only for healthy nonpregnant people age 2 through 49yrs. • Adults age 18 through 64yrs may be given any intramuscular IIV product or, alternatively, the intradermal IIV product (Fluzone Intradermal). • Adults age 65yrs and older may be given standard-dose IIV or, alternatively, high-dose IIV (Fluzone High-Dose). Note: Healthcare personnel who care for severely immunocompromised persons (i.e., those who require care in a protected 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, space them by at least 28d. 	 Contraindications Previous anaphylactic reaction to this vaccine, to any of its components, including egg protein. For LAIV only: pregnancy; chronic pulmonary (including asthma), cardiovascular (except hypertension), renal, hepatic, neurological/neuromuscular, hematologic, or metabolic (including diabetes) disorders; immunosuppression (including that caused by medications or HIV). 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). Precautions Moderate or severe acute illness. History of Guillain-Barré syndrome (GBS) within 6wks following previous influenza vaccination. For LAIV only: receipt of specific antivirals (i.e., amantadine, rimantadine, zanamivir, or oseltamivir) 48hrs before vaccina-ation. Avoid use of these antiviral drugs for 14d after vaccination.
Pneumococcal polysaccharide (PPSV) Give IM or SC ————————————————————————————————————		For PPSV: Give 1 dose of PPSV23 if unvaccinated or if previous vaccination history is unknown. Give another dose of PPSV to people Age 65yrs and older if 1st dose was given prior to age 65yrs and 5yrs have elapsed since dose #1. Age 19–64yrs who are at highest risk of pneumococcal infection or rapid antibody loss (see the 3rd bullet in the box to left for listings of people at highest risk) and 5yrs have elapsed since dose #1. Note: When both PCV13 and PPSV23 are indicated, give PCV13 first. For PCV13 and PPSV: Give 1 dose of PCV13 to people age 19yrs and older at highest risk of serious pneumococcal infection (see column to left).If previously vaccinated with PPSV, give PCV13 at least 12m following PPSV; if not previously vaccinated with PPSV, give PCV13 first, followed by PPSV23 in 8wks.	Contraindication Previous anaphylactic reaction to this vaccine, including (for PCV13) to any diphtheria toxoid-containing vaccine, or to any of its components. Precaution Moderate or severe acute illness.

^{*}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.

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

(Page 2 of 4)

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administra- tion (any vaccine can be given with another)	Contraindications and precautions (mild illness is not a contraindication)
MMR (Measles, mumps, rubella) Give SC	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 healthcare 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 healthcare 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 4wks after dose #1. If a pregnant or childbearing-age woman is found to be rubella susceptible, give 1 dose of MMR. For pregnant women the dose should be given postpartum. This includes women who have 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, space them by at least 28d. Within 72hrs of measles exposure, give 1 dose as postexposure prophylaxis to susceptible adults. Note: Routine post-vaccination serologic testing is not recommended. 	 Contraindications Previous anaphylactic reaction to this vaccine or to any of its components. Pregnancy or possibility of pregnancy within 4wks. 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.* Precautions Moderate or severe acute illness. If blood, plasma, and/or immune globulin were given in past 11m, see ACIP's <i>General Recommendations on Immunization*</i> 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 SC	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 healthcare-provider diagnosis; laboratory evidence of immunity or confirmation of disease; and/or birth in the U.S. before 1980, with the exceptions that follow. - Healthcare 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 to 8wks 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 4–8wks later.	 Give 2 doses. Dose #2 is given 4–8wks after dose #1. If dose #2 is delayed, do not repeat dose #1. 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, space them by at least 28d. May use as postexposure prophylaxis if given within 5d. Note: Routine post-vaccination serologic testing is not recommended. 	 Contraindications Previous anaphylactic reaction to this vaccine or to any of its components. Pregnancy or possibility of pregnancy within 4wks. 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. See MMWR 2007;56,RR-4). 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 Immunization* regarding time to wait before vaccinating. Receipt of specific antivirals (i.e., acyclovir, famciclovir, or valacyclovir) 24hrs before vaccination; delay resumption of these antiviral drugs for 14d after vaccination, if possible.
Human papilloma- virus (HPV) (HPV2, Cervarix) (HPV4, Gardasil) 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 previously unvaccinated women through age 26yrs and men through age 21yrs. • All previously unvaccinated men through age 26yrs who 1) have sex with men or 2) are immunocompromised as a result of infection (including HIV), disease, or medications, or who lack either of the preceding risk factors but want to be vaccinated.	 Give 3 doses on a 0, 2, 6m schedule. Use either HPV2 or HPV4 for women, and only HPV4 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 possible, use the same vaccine product for all three doses. 	Contraindication Previous anaphylactic reaction 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)	Contraindications and pre- cautions (mild illness is not a contraindication)
Hepatitis A (HepA) Give IM Brands may be used interchangeably. 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 A virus (HAV) infection and lack a specific risk factor. • 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 experimental lab settings; food handlers when health authorities or private employers determine vaccination to be appropriate. • 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. • Adults age 40yrs or younger with recent (within 2 wks) exposure to HAV. For people older than age 40yrs with recent (within 2 wks) exposure to HAV, immune globulin is preferred over HepA vaccine. 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 and lack a specific risk factor. • 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 60yrs (diabetics age 60yrs and older may be vaccinated at the clinician's discretion [see ACIP recommendations*]); healthcare 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. No	 Give 2 doses, spaced 6–18m apart (depending on brand). If dose #2 is delayed, do not repeat dose #1. Just give dose #2. 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. An alternative schedule can also be used at 0, 7d, 21 to 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 4wks between doses #1 and #2, and at least 8wks between doses #2 and #3. Overall, there must be at least 16wks 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: If the series is delayed between doses, DO NOT start the series over. Continue from where the schedule was interrupted. 	Contraindication Previous anaphylactic reaction to this vaccine or to any of its components. Precautions Moderate or severe acute illness. Contraindication Previous anaphylactic reaction to this vaccine or to any of its components. Precaution Moderate or severe acute illness.
Inactivated Polio (IPV) Give IM or SC	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 18yrs 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.	Refer to ACIP recommendations* regarding unique situations, schedules, and dosing infor- mation.	Contraindication Previous anaphylactic reaction to this vaccine or to any of its components. Precautions • Moderate or severe acute illness. • Pregnancy.
Hib (Haemophi- lus 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 4wks apart, beginning 6–12m after transplant. 	Contraindication Previous anaphylactic reaction to this vaccine or to any of its components. Precautions Moderate or severe acute illness.

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

(Page 4 of 4)

Vaccine name and route	People for whom vaccination is recommended	Schedule for vaccination administration (any vaccine can be given with another)	Contraindications and precautions (mild illness is not a contraindication
Meningococcal conjugate vaccine, quadrivalent (MCV4) Menactra, Menveo Give IM ——— Meningococcal polysaccharide vaccine (MPSV4) Menomune Give SC	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 21yrs who live in a residence hall; see 5th bullet in the box to the right for details.	 Give 2 initial doses of MCV4 separated by 2m to adults 55yrs 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 to all other adults with risk factors (see 2nd–4th bullets in column to left). Give booster doses every 5yrs to adults with continuing risk (see 1st–3rd bullets in column to left). MCV4 is preferred over MPSV4 for people age 55yrs and younger. For people age 56yrs and older who anticipate multiple doses (see 1st–3rd bullets in column to left) or who have received MCV4 previously, use MCV4. For all others, use MPSV4. For first year college students age 19 through 21yrs living in a residence hall, give 1 initial dose if unvaccinated and give booster dose if most recent dose was given when younger than 16yrs. 	Contraindication Previous anaphylactic reaction to this vaccine or to any of its components. Precaution Moderate or severe acute illness.
Td, Tdap (Tetanus, diphtheria, pertussis) Give IM Do not use tetanus toxoid (TT) in place of Tdap or Td.	 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 diphtheria-toxoid-containing vaccine. A booster dose of Td or Tdap may be needed for wound management, so consult ACIP recommendations.* For Tdap only: Adults who have not already received Tdap. Healthcare 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 (spaced at 0, 1–2m, 6–12m intervals); substitute a one-time dose of Tdap for one of the doses in the series, preferably the first. Give Td booster every 10yrs after the primary series has been completed. Tdap should be given regardless of interval since previous Td. 	 Contraindications Previous anaphylactic reaction 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. 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 10yrs 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.
Zoster (shingles) (HZV) Give SC	People age 60yrs and older. Note: Do not test people age 60 years 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 anaphylactic reaction 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; delay resumption of these antiviral drugs for 14d after vaccination, if possible.

Checklist: Suggestions to Improve Your Immunization Services

rates. Read each idea and check the response that Partly = We do som applies to your work setting. we will con	do this. ke this idea, l't work in our pra e of this (or do it	no partly ctice setting.	Great ideas to expedite vace and increase immunization your healthcare setting!	
Keeping clinic staff up to date with current recommendations In all exam rooms, we post the current, official ACIP U.S. immunization schee and/or adults or variations thereof (for example, the official schedule of a me		yes no partly	Print out this helpful resou	rce. reac
of a state health department). We use the official "catch-up" schedule for children for advice on how to bring	g children up to		·	
date on their vaccinations when they have fallen behind. 3 We are familiar with special vaccination recommendations for high-risk patier			each idea, and check the re	•
groups who need hepatitis A, hepatitis B, pneumococcal, influenza vaccines). 4 We routinely receive and read updates on vaccines and other immunization is ernment agencies, our professional society, state or local health department, organizations.	sues from gov-		that applies to your work se	etting.
Assuring complete, up-to-date patient records				
 We participate in our local/regional/state immunization registry (Immunizati System [IIS]). 	on Information	yes no partiy		
2 When scheduling appointments, we remind patients/parents to bring along t child's) personal immunization record. We also confirm the address and pho case we need to contact them.			Suggestions to Improve Your Immunization Services (continued)	page 2 of 3
3 We maintain a comprehensive immunization record in a visible location in each chart (e.g., the front of the chart if we keep paper files), or print the patient's record from the immunization registry or immunization information System 4 Whenever a patient consecue in the end of contraduction to see his files in present the consecuence of the end of contraduction to the contraduction to the end of th	mmunization (IIS).		Assuring complete, up-to-date patient records (continued from page 1) 8 If we have written confirmation that a patient received vaccines at another site or at a public health, school-based, worksite-based, or community-based immunization site, we update the patient's medical chart or the IIS with that information, recording the vaccination date(s)	yes no partly
 Whenever a patient comes in, the staff routinely asks to see his/her immuniz determine if the patient received vaccinations at another healthcare site. If a patient tells us "I'm up to date with my vaccinations," or "my child's vacci. 			and healthcare site(s) where the vaccination was received. With each patient visit, we document on the patient's chart that their immunization status	
to date," we are not convinced. We must have written documentation (either computer registry).			has been reviewed (e.g., a notation such as "immunization status reviewed" is pre-printed on the progress note or other chart form).	
6 If no immunization record exists for a patient at the time of the visit and we a obtain records by phone or the IIS, we give the vaccinations that we think are on the history provided by the patient/parent. We have the patient/parent sig	ndicated, based n a release of		Maintaining and protecting our vaccine supply 1 We have a designated vaccine coordinator and a designated backup coordinator who oversee	yes no partly
records to obtain immunization records from previous providers. If no record vaccinations can be located, the patient is treated as if unimmunized.	ls of previous		all vaccine storage and handling activities. 2 We provide vaccine storage and handling training to all new staff and to all staff whenever	
7 If we see a patient in our office and don't administer a vaccination when it's du the reason why in the patient's chart.		ON THE NEXT PAGE	recommendations are changed or new product added.	
Sugges immunization action coefficien Technical com	tent reviewed by the Centers for E		Getting patients ready for their vaccinations 1 We've trained our nursing and office staff (e.g., receptionist, scheduler) to know how to deter-	yes no partly
Improi Saint Paul, Minnesota - 651-647-9009 - www.immunize.org - www.vaccineinform www.immunize.org - www.vaccineinform 2 F			mine valid and invalid contraindications to vaccinations, as well as the minimum ages and minimum intervals permissible between vaccinations. Guides to valid contraindications and precautions, and minimum age and interval charts are posted or easily available to all staff. This training ensures that our clinic staff miss no opportunity to vaccinate.	
3 Our nurses can give vaccinations under standing orders (i.e., they can independently screen patients and administer vaccines under pre-existing signed physician's orders).			2 We ask patients/parents to complete a simple screening questionnaire for contraindications to determine if the vaccinations they need can be given safely on the day of their visit. To save time, we have them complete it prior to seeing the clinician (e.g., in the waiting room or exam room).	
4 We use all patient encounters (including acute-care and follow-up visits) to assess and provide vaccinations. 5 If children miss "well-child" visits and can't be rescheduled quickly, we reschedule them in one to two weeks for a "shots only" visit.			3 Before the clinician sees the patient, a staff member completes an immunization assessment and gives Vaccine Information Statements (VISs) to the patient/parent to read. If they need a VIS in another language, we give it, if it is available.	
Communicating with patients			Avoiding "missed opportunities"	
We give patients/parents a simple schedule of recommended vaccinations.	yes no partly		1 Our staff are trained to administer multiple vaccinations to patients who are due for multiple vaccinations.	yes no party
2 We give patients/parents an information sheet about how to treat pain and fever following vaccinations.			2 Prior to patient visits, we review the immunization record for each patient and flag charts of those who are due or overdue.	
3 We always update the patient's personal immunization record card each time we administer vaccinations. If the patient doesn't have a card, we give them one that contains their vacci- nation history.			3 If children in our waiting room are the siblings or children of the patient, we pull their charts and review their immunization status and vaccinate them if needed before they leave the office.	
We provide resources (e.g., information, pamphlets, websites, hotline numbers) to patients/ parents who have questions or concerns about vaccine safety or who want more vaccine			4 We have immunization "champion(s)" in our clinic to keep all clinic staff up-to-date on current recommendations and effective strategies to avoid missed opportunities.	
information. We provide translated materials, if available. 5 When giving vaccinations, we inform the patient/parent when the next appointment for vaccinations is due. We schedule the visit before they leave the office if our appointment system			5 Vaccines are consistently available (system is in place to order vaccines in a timely manner). CONTINUE	D ON THE NEXT PAGE ▶
allows it, otherwise we put the information in a manual tickler system or electronic recall system. 6 We contact all patients who are due for vaccinations with a reminder (e.g., by phone or mail) and those who are past due with a recall (e.g., using computerized tracking or a simple tickler system).			Technical content reviewed by the Centers for Saint Paul, Minnesota - 651-647-9009 - www.immunize.org - www.vaccineinformation.org www.immunize.org cate d/p2045; immunize.org	
7 We provide or refer our vaccine-hesitant patients to reliable resources to help in their decision-making, if they refuse a vaccine, we have them sign a declination form. We revisit the issue in the future.				
Evaluating and improving our clinic's performance				
1 We routinely assess immunization levels of our patient population, including those with high-risk indicators. (Contact your state or local health department's immunization staff for assistance in performing such an assessment.) We share this information with all our staff and use it to develop strategies to improve immunization rates.	yes no partly		or a ready-to-copy 8½ x 11" version	n
2 We are enrolled in the Vaccines for Children (VFC) program so that we can provide free vaccine to uninsured children (0–18 years) and others who are eligible under the state's program.			f this 3-page piece, visit	1.6
immunization		V	ww.immunize.org/catg.d/p2045.ړ	odt

10 Vaccinate Adults! • July 2014 • Immunization Action Coalition • (651) 647-9009 • www.immunize.org • www.vaccineinformation.org

Vaccine Administration Record for Adults

Vaccine Administration Record for Adults

(Page 1 of 2				
Chart number:				

Before administering any vaccines, give the patient copies of all pertinent Vaccine Information Statements (VISs) and make sure he/she understands the risks and benefits of the vaccine(s). Always provide or update the patient's personal record card.

Vaccine	Type of Vaccine ¹	Date given		Route	Vaccine		Vaccine Information Statement (VIS)		Vaccinator ⁵ (signature or
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(mo/day/yr)	(F,S,P) ²	& Site ³	Lot#	Mfr.	Date on VIS ⁴	Date given ⁴	initials & title)
Tetanus, Diphtheria, Pertussis									
(e.g., Td, Tdap) Give IM. ³									
Hepatitis A ⁶									
(e.g., HepA, HepA-HepB) Give IM. ³									
Hepatitis B ⁶ (e.g., HepB, HepA-HepB) Give IM. ³									
Human papillomavirus (HPV2, HPV4) Give IM. ³									
Measles, Mumps, Rubella (MMR) Give SC.3									
Varicella (VAR) Give SC.3									
Pneumococcal (e.g., PCV13, conjugate;									
PSV23, polysaccharide) Give PCV13 IM. ³ Give PPSV23 IM or SC. ³									
Meningococcal (e.g., MenACWY, conjugate; MPSV4, polysaccharide)									
Give MenACWY IM. ³ Give MPSV4 SC. ³									

See page 2 to record influenza, Hib, zoster, and other vaccines (e.g., travel vaccines).

How to Complete This Record

- 1. Record the generic abbreviation (e.g., Tdap) or the trade name for each vaccine (see table at right).
- 2. Record the funding source of the vaccine given as either F (federal), S (state),
- 3. Record the route by which the vaccine was given as either intramuscular (IM), subcutaneous (SC), intradermal (ID), intranasal (IN), or oral (PO) and also the site where it was administered as either RA (right arm), LA (left arm), RT (right thigh), or LT (left thigh).
- 4. Record the publication date of each VIS as well as the date the VIS is given to
- 5. To meet the space constraints of this form and federal requirements for documentation, a healthcare setting may want to keep a reference list of vaccinators that includes their initials and titles.
- 6. For combination vaccines, fill in a row for each antigen in the combination.

adult vaccinations – updated for
2014!
Download this free form, and

Just what you need to document

place in the front of each patient's medical chart.

on Record

Patient name:	(Page 2 of 2)
Birthdate:	Chart number:
Clinic name and address	

t copies of all pertinent Vaccine Information Statements (VISs) and make sure he/she understands

e given /day/yr)	Funding Source Route ³ Vaccine				Vaccine Information Statement (VIS)		
/day/yr)	(F,S,P) ²	& Site ³	Lot #	Mfr.	Date on VIS ⁴	Date given ⁴	(signature or initials & title)
-							
-							
-							

For additional copies, visit www.immunize.org/catg.d/p2023.pdf • Item #P2023 (4/14) This form was created by the Immunization Action Coalition • www.immunize.org • www.vaccineinformation.org

For a ready-to-copy 81/2 x 11" version of this 2-page piece, visit

www.immunize.org/ catg.d/p2023.pdf

Sample pages 3-4 are provided for your reference, showing how to use this form.

See page 1 to record Tdap/Td, hepatitis A, hepatitis B, HPV, MMR, varicella, pneumococcal, and meningococcal vaccines

How to Complete This Record

Trade Name and Manufacture Adacel (sanoft pastleur); Boostrix (GlaxoSmithKine (GSK)
Decavac (sanoft pasteur); generic Td (MA Biological Labs
Harvix (GSK); Vaqta (Merck)
Engerix-B (GSK); Recombivax HB (Merck)
Twintrx (GSK)

- 1. Record the generic abbreviation (e.g., Tdap) or the trade name for each vaccine (see table at right).
- 2. Record the funding source of the vaccine given as either F (federal), S (state),
- 3. Record the route by which the vaccine was given as either intramuscular (IM), subcutaneous (SC), intradermal (ID), intranasal (IN), or oral (PO) and also the site where it was administered as either RA (right arm), LA (left arm), RT (right thigh), or LT (left thigh).
- 4. Record the publication date of each VIS as well as the date the VIS is given to the patient.
- 5. To meet the space constraints of this form and federal requirements for documentation, a healthcare setting may want to keep a reference list of vaccinators that includes their initials and titles.

Abbreviation	Trade Name and Manufacturer	
LAIV (Live attenuated influenza vaccine)	FluMist (MedImmune)	
IIV (Inactivated influ- enza vaccine), RIV (recombinant influenza vaccine)	Afluria (CSL Biotherapies); Agriffu (Novartis); Fluarix (GSK); Flublok (Protein Sciences Corp.); Flucelvax (Novartis); FluLaval (GSK); Fluxini (Novartis); Fluzone, Fluzone Intradermal, Fluzone High-Dose (sanofi pasteur)	
Hib	ActHIB (sanofi pasteur); Hiberix (GSK); PedvaxHib (Merck)	
ZOS (shingles)	Zostavax (Merck)	

For additional copies, visit www.immunize.org/catg.d/p2023.pdf • Item #P2023 (4/14)

This form was created by the Immunization Action Coalition • www.immunize.org • www.vaccineinformation.org

A Guide for Gay and Bisexual Men about Hepatitis A and Hepatitis B

Protect Yourself Against Hepatitis A and Hepatitis B...

A GUIDE FOR GAY AND BISEXUAL MEN

Men who have sex with men are at increased risk of becoming infected with both the hepatitis A virus and the hepatitis B virus. Although these viruses can be transmitted in different ways, both can be spread through sexual activity.

Hepatitis is a serious disease that can be fatal. Fortunately, both hepatitis A and hepatitis B can be prevented by safe and effective vaccines. Unfortunately, many men at risk remain unprotected.

How great is my risk of getting hepatitis infection?

In 2009 an estimated 38,000 persons in the U.S. were newly infected with the hepatitis B virus. About 5% of people in the U.S. will get infected sometime during their lives. Men who have sex with men are 10 to 15 times more likely to acquire the hepatitis B virus than the general population.

In 2010 an estimated 17,000 persons in the U.S. were infected with the hepatitis A virus. Persons who engage in anal pleasuring activities such as rimming and fingering are at increased risk

How are hepatitis A virus and hepatitis B virus spread?

A man infected with hepatitis B virus can spread the virus to another person by

- having unprotected anal or vaginal sex
- sharing needles for drugs, piercing, or tattooing
- coming in contact with the infected person's open sores
- · sharing toothbrushes, razors, nail clippers, etc.

The hepatitis B virus can also be spread by living in a household with a chronically infected person. The hepatitis B virus is not spread by sharing eating utensils, hugging, kissing, hand holding, coughing, or sneezing.

Hepatitis A virus is usually transmitted from particles of fecal material, for example, by eating or drinking contaminated food or water or during sex.

What are the symptoms of hepatitis A and hepatitis B?

The symptoms of both diseases are similar: extreme tiredness, nausea, fever, dark urine, bloated and tender belly, and yellowish-tinged skin and eyes. Infected persons can have no symptoms at all or be extremely ill. However, people who are infected with either hepatitis A virus or hepatitis B virus can spread the disease to others, whether they have

Do people fully recover from hepatitis A virus and hepatitis B virus infections?

Most adults recover from hepatitis B virus infection after several months and are no longer contagious. Unfortunately, about 5% of adults who become infected with hepatitis B virus will carry the virus in their bodies for years and remain infectious. Chronically infected people usually do not have symptoms, but are at increased risk for eventual liver failure (cirrhosis) and liver cancer and need ongoing medical care. An estimated 800,000 to 1.4 million people in the U.S. (and 350 million in the world) are chronically infected.

Although hepatitis A virus does not result in chronic infection, infected people can become very sick and sometimes die.

How serious are hepatitis A and hepatitis B virus infections?

Hepatitis B virus infection can cause serious liver disease, including liver failure and liver cancer. More than 5.000 people in the U.S. die every year from hepatitis B-related liver disease.

There are approximately 100 deaths each year in the U.S. from hepatitis A. About 15% of people with hepatitis A require hospitalization. Adults who become ill are often out

Becoming infected with hepatitis A virus or hepatitis B virus can have a major impact on a person's life. A person might be too sick to work or go to the gym for months, and should not drink alcohol. Hepatitis A virus and hepatitis B virus infection can have serious consequences for people with HIV, as their immune systems might be compromised.



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

www.immunize.org/catg.d/p4115.pdf • Item #P4115 (2/14)

doses have been given. Since 1995, more than 15 million doses of hepatitis A vaccine have been given in the U.S. with no reports of serious health problems linked to the vaccine. Side effects might include soreness at the injection site, headache, and fatigue.

handout for your patients

Make copies of this free

www.immunize.org/ catg.d/p4115.pdf

(continued)

page 2 of 2

Are these shots effective?

Yes. After three doses of hepatitis B vaccine, at least 90% of healthy young adults develop immunity to hepatitis B virus infection. Immune-compromised people might not respond as well to hepatitis B vaccine. They should be tested 1-2 months after the third dose of vaccine to see if they responded.

Almost 100% of people are protected from hepatitis A virus infection after getting two doses of hepatitis A vaccine.

Will hepatitis A or hepatitis B vaccine protect me from hepatitis C?

No. Hepatitis A, B, and C are all different viruses. The hepatitis C virus is spread through body fluids, and although it can be transmitted through sexual contact, it is most commonly acquired through injection drug use. Unfortunately, there is no hepatitis C vaccine at this time.

Are these shots recommended for travelers?

Both hepatitis A virus and hepatitis B virus infection are common in many parts of the world. People traveling to any area of the world except the United States, Canada, Western Europe, Japan, New Zealand, and Australia should get vaccinated against hepatitis A virus. Hepatitis B vaccine is recommended for many travelers also. Discuss this with your doctor.

Where can I receive these shots?

Talk to your healthcare professional or your local public health department.

EVERYONE NEEDS VACCINATIONS!

If you can't afford shots or don't where to get them, contact your local or state health department to find out where to go for

You can access a listing of telephone numbers for state immunization programs at www.immunize.org/coordinators.

For more information, go to www.vaccineinformation.org or www.cdc.gov/hepatitis.

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

-www.immunize.org/catg.d/p4115.pdf • Item #P4115 (2/14)

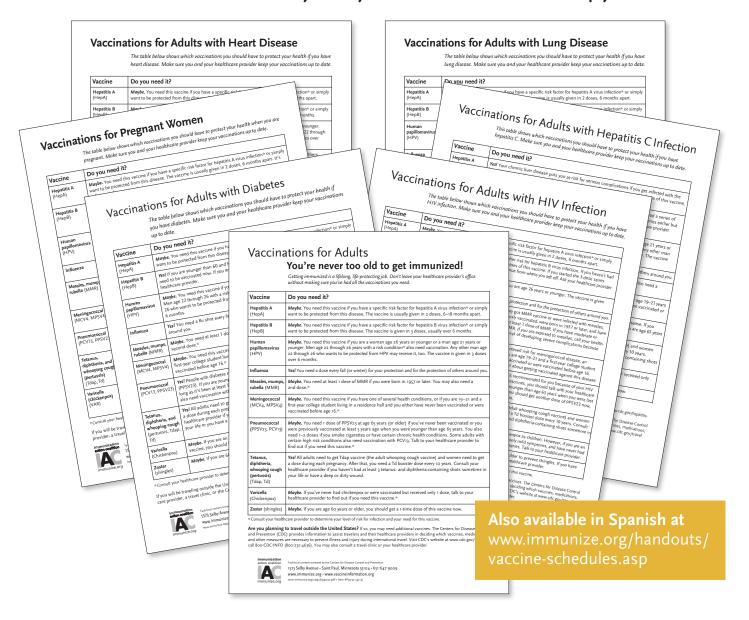
Hepatitis A, B, and C: Learn the Differences

	Hepatitis A caused by the hepatitis A virus (HAV)	Hepatitis B caused by the hepatitis B virus (HBV)	Hepatitis C caused by the hepatitis C virus (HCV)
How is it spread?	HAV is found in the feces (poop) of people with hepatitis A and is usually spread by close personal contact (including sex or living in the same household). It can also be spread by eating food or drinking water contaminated with HAV and by traveling internationally where HAV infection is occurring.	HBV is found in blood and certain body fluids. The virus is spread when blood or body fluid from an infected person enters the body of a person who is not immune. HBV is spread through having unprotected sex with an infected person, sharing needles or "works" when shooting drugs, exposure to needlesticks or sharps on the job, or from an infected mother to her baby during birth. Exposure to infected blood in ANY situation can be a risk for transmission.	HCV is found in blood and certain body fluids. The virus is spread when blood or body fluid from an HCV-infected person enters another person's body. HCV is spread through sharing needles or "works" when shooting drugs, through exposure to needlesticks or sharps on the job, or sometimes from an infected mother to her baby during birth. It is possible to transmit HCV during sex, but it is not common.
Who should be vaccinated?	People who wish to be protected from HAV infection All children at age 1 year (12–23 months) Men who have sex with men Users of street drugs (injecting and noninjecting) People who travel or work in any area of the world except the U.S., Canada, Western Europe, Japan, New Zealand, and Australia People who will have close personal contact with an international adoptee, from a country where HAV infection is common, during the first 60 days following the adoptee's arrival in the U.S. People with chronic liver disease, including HCV People working with HAV in a laboratory People with clotting factor disorders (e.g., hemophilia)	 All infants, children, and teens ages 0–18 years Any adult who wants to be protected from HBV infection Sexually active people who are not in long-term, mutually monogamous relationships Men who have sex with men People seeking evaluation or treatment for a sexually transmitted disease Healthcare or public safety workers who might be exposed to blood or body fluids Residents and staff of facilities for developmentally disabled people Adults under 60 years of age with diabetes Dialysis and pre-dialysis patients People infected with HIV People in close personal contact (i.e., household or sexual) with someone who has chronic HBV infection Current or recent injection-drug users Travelers to regions of the world where hepatitis B is common (Asia, Africa, the Amazon Basin in South America, the Pacific Islands, Eastern Europe, or the Middle East); People with chronic liver disease 	There is no vaccine to prevent HCV. Testing for HCV is recommended for the following groups of people. People born during 1945–1965 Injecting drug users Recipients of clotting factors made before 1987 Hemodialysis patients Recipients of blood or solid organ transplants before 1992 Infants born to HCV-infected mothers People with undiagnosed abnormal liver test results Although HCV is not commonly spread through sex, Individuals having sex with multiple partners or with an infected steady partner may be at increased risk of HCV infection.
Symptoms	Viral hepatitis symptoms are similar no matter which type of hepatitis you have. If symptoms occur, you might experience any or all of the following: jaundice (yellowing of the skin and whites of the eyes), fever, loss of appetite, fatigue, dark urine, joint pain, abdominal pain, diarrhea, nausea, and vomiting. Very rarely, a recently acquired case of viral hepatitis can cause liver failure and death. Sometimes in these instances, a liver transplant (if a liver is available) can save a life. Note: For all types of viral hepatitis symptoms are less common in children than in adults, and for people of any age with HCV infection, they are less likely to experience symptoms.		
Sy	Incubation period: 15 to 50 days, average 28 days	Incubation period: 60 to 150 days, average 90 days	Incubation period: 14 to 180 days, average 45 days
Chronic infection	There is no chronic infection. Once you have had HAV infection, you cannot get it again. About 15 out of 100 people infected with HAV will have prolonged illness or relapsing symptoms over a 6–9 month period.	Chronic infection occurs in up to 90% of infants infected at birth; in about 30% of children infected at ages 1–5 years; and less than 5% of people infected after age 5 years. In the U.S., 2,000 to 4,000 people die each year from hepatitis B. Death from chronic liver disease occurs in 15%–25% of chronically infected people People who have chronic HBV infection have a much higher risk of liver failure and liver cancer.	Chronic infection occurs in 75%–85% of newly infected people and 70% of chronically infected people go on to develop chronic liver disease. In the U.S., an estimated 8–10,000 people die each year from HCV. People who have chronic HCV infection have a much higher risk of liver failure and liver cancer. Chronic HCV-related liver disease is the leading cause for liver transplant.
What treatment helps?	There is no treatment for HAV other than supportive care. Avoid alcohol. It can worsen liver disease.	People with chronic HBV infection should have a medical evaluation for liver disease every 6–12 months. Several antiviral medications are currently licensed for the treatment of individuals with chronic HBV. These drugs are effective in preventing serious liver problems in up to 40% of patients, but the drugs do not get rid of the virus. Liver transplant is the last resort, but livers are not always available. Avoid alcohol. It can worsen liver disease. There is no medication to treat recently acquired HBV infection.	People with chronic HCV infection should have a medical evaluation for liver disease every 6–12 months. There are drugs licensed for the treatment of individuals with chronic HCV infection. Combination therapy is currently the treatment of choice and can eliminate the virus in approximately 40–50% of patients with genotype 1 (the most common genotype in the U.S.). Get vaccinated against hepatitis A and B. Avoid alcohol. It can worsen liver disease. There is no medication for the treatment of recently acquired HCV infection.
How is it prevented?	Get vaccinated! Safe and effective vaccines to prevent HAV infection have been available in the U.S. since 1995. Always wash your hands with soap and water after using the toilet, changing a diaper, and before preparing or eating food. For a recent exposure to someone with HAV or if travel is soon (leaving in less than 2 weeks) to an area of the world where hepatitis A is common, see your healthcare provider about your need for hepatitis A vaccine or a dose of immune globulin (IG).	Get vaccinated! Hepatitis B vaccination is the best protection. Three shots are usually given over a period of six months. Whenever a woman is pregnant, she should be tested for hepatitis B (HBsAg blood test); infants born to HBV-infected mothers should be given HBIG (hepatitis B immune globulin) and vaccine within 12 hours of birth. Tell your sex partner(s) to get vaccinated too, and always follow "safer sex" practices (e.g., using condoms).	There is no vaccine to prevent HCV infection. HCV can be spread by sex, but this is not common. If you are not in a mutually monogamous relationship, use latex condoms correctly and every time to prevent the spread of sexually transmitted diseases. (The efficacy of latex condoms in preventing HCV infection is unknown, but their proper use may reduce transmission.) In addition to getting hepatitis A vaccine, you should also get hepatitis B vaccine.

www.immunize.org/catg.d/p4075.pdf • Item #P4075 (3/14)

Patient Schedules for All Adults and for High-Risk Adults

These documents are ready for you to download, copy, and use!



Vaccinations for Adults – You're never too old to get immunized! www.immunize.org/catg.d/p4030.pdf

Vaccinations for Adults with Heart Disease www.immunize.org/catg.d/p4044.pdf

Vaccinations for Pregnant Women www.immunize.org/catg.d/p4040.pdf

Vaccinations for Adults with Diabetes www.immunize.org/catg.d/p4043.pdf

Vaccinations for Adults with Lung Disease www.immunize.org/catg.d/p4045.pdf

Vaccinations for Adults with Hepatitis C www.immunize.org/catg.d/p4042.pdf

Vaccinations for Adults with HIV Infection www.immunize.org/catg.d/p4041.pdf

Hepatitis B vaccine

In December 2013, CDC released a new document titled CDC Guidance for Evaluating Health-Care Personnel for Hepatitis B Virus Protection and for Administering Postexposure Management (MMWR 2013;62[RR-10]) available at www.cdc.gov/mmwr/pdf/rr/rr6210. pdf. Does the content of this document update ACIP recommendations on healthcare personnel vaccination and hepatitis B?

The new guidance published by CDC does not constitute new recommendations of ACIP. The CDC guidance was created based on the opinions of an expert panel convened by CDC. According to the document, the guidance from CDC "augments the 2011 recommendations" of the ACIP document titled *Immunization of Health-Care Personnel* published November 25, 2011 (www.cdc.gov/mmwr/pdf/rr/rr6007.pdf), for evaluating hepatitis B protection among healthcare personnel and administering postexposure prophylaxis.

Does CDC now recommend routine pre-exposure anti-HBs testing of all healthcare personnel who were previously vaccinated?

In general, no, but the type of testing (pre-exposure or postexposure) depends on the healthcare worker's profession and work setting. An expert panel convened by CDC acknowledged that the risk for hepatitis B virus (HBV) infection for vaccinated healthcare personnel (HCP) can vary widely by setting and profession. The risk might be low enough in certain settings that assessment of hepatitis B surface antibody (anti-HBs) status and appropriate follow-up can be done at the time of exposure to potentially infectious blood or body fluids. This approach relies on HCP recognizing and reporting blood and body fluid exposures and might be applied on the basis of documented low risk, implementation, and cost considerations. Trainees, some occupations (such as those with frequent exposure to sharp instruments and blood), and HCP practicing in certain populations are at greater risk of exposure to blood or body fluid exposure from an HBsAg-positive patient. Vaccinated HCP in these settings/occupations would benefit from a pre-exposure approach. Figure 6 on page 13 of the guidance document provides an algorithm for settings where the choice is to use a pre-exposure approach. Table 2, found on page 14 of the document, provides the algorithm when postexposure management is implemented. The document, tables, and figures are available at www. cdc.gov/mmwr/pdf/rr/rr6210.pdf.

Vaccinate Adults correction policy

If you find an error, please notify us immediately by sending anemail message to admin@immunize.org. We publish notification of significant errors in our email announcement service, *IAC Express*. Be sure you're signed up for this service. To subscribe, visit www.immunize.org/subscribe.

If an employee receives both HBIG and hepatitis B vaccine after a needlestick from a patient who is HBsAg positive, how long should one wait to check the employee's response to the vaccine?

Anti-HBs testing for HCP who receive both hepatitis B immune globulin (HBIG) and hepatitis B vaccine can be conducted as soon as 4 months after receipt of the HBIG. However, a new recommendation in the 2013 document is to test for hepatitis B core antibody (anti-HBc) and hepatitis B surface antigen (HBsAg) among certain HCP (those previously unvaccinated, incompletely vaccinated, or revaccinated) with an exposure from an HBsAgpositive or unknown HBsAg-status patient at the time of the exposure and approximately 6 months after the exposure (that is, after the HBV incubation period). The CDC expert panel determined that it would be more efficient to do all the follow-up testing at one time, and recommended testing at 6 months after the exposure. Anti-HBs could be measured at a minimum of 4 months after the administration of HBIG, but testing for infection would then follow approximately 2 months later.

At our facility we do routine pre-employment anti-HBs testing regardless of whether the employee has documentation of a hepatitis B vaccination series and consider those who are anti-HBs positive to be immune. Is this the recommended strategy?

No. HCP with written documentation of receipt of a properly spaced 3-dose series of hepatitis B vaccine AND a positive anti-HBs can be considered immune to HBV and require no further testing or vaccination. Testing unvaccinated or incompletely vaccinated HCP (including those without written documentation of vaccination) is not necessary and is potentially misleading because anti-HBs of 10 mIU/mL or higher as a correlate of vaccine-induced protection has only been determined for persons who have completed a hepatitis B vaccination series. Persons who cannot provide written documentation of a complete hepatitis B vaccination series should complete the 3-dose series, then be tested for anti-HBs 1 to 2 months after the final dose.

Does CDC still recommend routine anti-HBs testing of HCP who are at risk for occupational blood or body fluid exposure following the hepatitis B vaccination series?

Yes. This recommendation has not changed.

Is there now a recommendation for a routine booster dose of hepatitis B vaccine?

No. HCP who have documentation of receiving a 3-dose series of hepatitis B vaccine and who tested positive for anti-HBs (defined as anti-HBs of 10 mIU/mL or higher) are considered to be immune to hepatitis B. Immunocompetent persons have long-term protection against HBV and do not need further testing or vaccine doses. Some immunodeficient persons (including those on hemodialysis) may need periodic booster doses of hepatitis B vaccine, as described in the 2006 adult hepatitis B vaccine ACIP recommendations (MMWR 2006;55[RR-16]:26–9). These recommendations have not changed.

Vaccine storage & handling

How long do we need to keep our refrigerator/ freezer temperature tracking logs?

CDC recommends that refrigerator and freezer temperature logs be kept for at least 3 years. (See www.cdc.gov/vaccines/recs/storage/toolkit/storage-handling-toolkit.pdf, page 52.) The reasoning is that it is useful to be able to look back at the record to help determine if a unit is developing a problem.

General vaccine questions

What do we legally need to record when giving an immunization to a patient?

It is important to know the federal requirements for documenting the vaccines administered to your patients. The requirements are defined in the National Childhood Vaccine Injury Act enacted in 1986. The law applies to all routinely recommended childhood vaccines, regardless of the age of the patient (i.e., both children and adults) receiving the vaccines. The only vaccines not included in this law are pneumococcal polysaccharide, zoster, and certain infrequently used vaccines, such as rabies and Japanese encephalitis.

The following information must be documented on the patient's paper or electronic medical record or on a permanent office log:

- 1. The vaccine manufacturer.
- 2. The lot number of the vaccine.
- 3. The date the vaccine is administered.
- 4. The name, office address, and title of the health-care provider administering the vaccine. (Editor's Note: On July 31, 2104, IAC corrected an error in this statement of the "Ask the Experts" answer, which had previously stated that a "signature (electronic is acceptable) of the person administering the vaccine. Initials of the vaccine administrator ..." was required by federal law.)
- The Vaccine Information Statement (VIS) edition date located in the lower right corner on the back of the VIS. When administering combination vaccines, all applicable VISs should be given and the individual VIS edition dates recorded.
- 6. The date the VIS is given to the patient, parent, or guardian.

The federally required information should be both permanent and accessible.

Federal law does not require a parent, patient, or guardian to sign a consent form in order to receive a vaccination; providing them with the appropriate VIS(s) and answering their questions is sufficient under federal law.

To submit an "Ask the Experts" question . . . Email your questions to the Immunization Action Coalition (IAC) at admin@immunize.org. We will respond to your inquiry. Because we receive hundreds of email messages each month, we cannot promise that we will use your question in "Ask the Experts." IAC works with CDC to compile new Q&As for our publications based on commonly asked questions. Most of the questions are thus a composite of several inquiries.

Order Essential Immunization Resources from IAC

Laminated immunization schedules give you solid information for 2014—order today!

IAC has two laminated immunization schedules for 2014—one for adults and one for children/teens. Based on CDC's immunization schedules, these laminated schedules are covered with a tough, washable coating. This allows them to stand up to a year's worth of use as at-your-fingertips guides to immunization and as teaching tools you can use to give patients and parents authoritative information. Plus,

Order Essential Immunization Resources

each schedule includes a guide to vaccine contraindications and precautions, an additional feature that will help you make on-the-spot determinations about the safety of vaccinating patients of any age.

To order laminated schedules, or any of our other essential immunization resources listed below, print out and mail or fax this page, or place your order online at **www.immunize.org/shop.**

How to Place an Order

It's convenient to shop at or donate to IAC online at www.immunize.org/shop

Qty. Laminated 2014 U.S. Immunization Schedules (details p. 3; call for discounts on bulk orders) R2009 Adult schedule: 1-4 copies—\$7.50 each; 5-19 copies—\$5.50 each\$ R2008 Child/teen schedule: 1-4 copies—\$7.50 each; 5-19 copies—\$5.50 each\$ DVD — Immunization Techniques: Best Practices with Infants, Children, and Adults (call for discounts on bulk orders) 1-9 copies—\$17 each; 10-24 copies—\$10.25 each; 25-49 copies—\$7 each D2021 Immunization Techniques: Best Practices with Children/Teens/Adults\$ Patient Immunization Record Cards — for children & teens, for adults, and for a lifetime! (all are wallet-sized; details p. 3; call for discounts on bulk orders) 250 cards/box; 1 box—\$45; 2 boxes—\$40 each; 3 boxes—\$37.50 each; 4 boxes—\$34.50 each R2005 Adult immunization record cards	By Credit Card: Order easily online at our secure shopping cart at www.immunize.org/shop. By Check, Purchase Order, or Credit Card: Print out this page, fill out the necessary information, and Fax this page to: (651) 647-9131 or Mail this page to: Immunization Action Coalition 1573 Selby Avenue, Suite 234 St. Paul, MN 55104 Our federal ID# is 41-1768237. For Questions or International Orders: Contact us by phone at (651) 647-9009 or email admininfo@immunize.org Thank you for your support of the Immunization Action Coalition. We depend on you!	
R2003 Child/teen immunization record cards\$ R2004 Lifetime immunization record cards\$ Total for Purchases \$	Method of payment:	
Have you made a charitable contribution to the Immunization Action Coalition this year? Lam a new renewing contributor.	Expiration Date mo/yr CV Code #* *The CV Code is the Credit Verification Code, the additional 3- or 4-digit number on your credit card.	
Here is my contribution: □ \$25 □ \$50 □ \$75 □ \$100 □ \$125 □ \$150 □ \$200 □ \$250 other: \$	Name/Title Organization	
IAC is a 501(c)(3) charitable organization and your contribution is tax deductible to the fullest extent of the law.	Shipping address (Check one: This is my ☐ organization address ☐ home address) City/State/Zip	
Total for Purchases and Contribution \$	Telephone Email address	

16 Vaccinate Adults! • July 2014 • Immunization Action Coalition • (651) 647-9009 • www.immunize.org • www.vaccineinformation.org

It's convenient to shop at or donate to IAC online at www.immunize.org/shop