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# VACCINATE WOMEN

A periodical for obstetrician/gynecologists from the Immunization Action Coalition

Highlighting the latest developments in routine immunization and hepatitis B prevention.

I'm really glad to have a vaccine that will protect me against cervical cancer!

Yes, it's great news to hear that CDC's advisory committee voted to recommend that all girls and women ages 11 through 26 receive three doses.



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# **Ask the Experts**

Editor's note: The Immunization Action Coalition thanks William L. Atkinson, MD, MPH, Andrew T. Kroger, MD, MPH, and Eric E. Mast, MD, MPH, of the Centers for Disease Control and Prevention (CDC) for answering the following questions for our readers. Dr. Atkinson is a medical epidemiologist, and Dr. Kroger is a medical officer, both at CDC's National Immunization Program. Dr. Mast is chief, Prevention Branch, at CDC's Division of Viral Hepatitis.

#### **Immunization Questions**

by William L. Atkinson, MD, MPH and Andrew T. Kroger, MD, MPH

# How common is human papillomavirus (HPV) infection?

HPV is the most common sexually transmitted infection in the United States. Currently, more than 20 million men and women in the United States are infected with HPV, and more than 6 million are estimated to become infected each year. HPV is most common in young women and men in their late teens and early 20s. By age 50, at least 80 percent of sexually active women will have acquired HPV infection.

#### How serious is disease caused by HPV?

HPV infection can lead to cervical cancer in women as well as to other cancers that can affect males or females. Cervical cancer is diagnosed in more than 9,700 women each year in the United States each year and causes 3,700 deaths. Seventy percent of cervical cancers are caused by strains of HPV included in the newly licensed HPV vaccine. HPV also causes genital warts in men and women.

# Please provide more information about the new HPV vaccine.

Gardasil<sup>TM</sup>, manufactured by Merck, is the first vaccine developed to prevent cervical cancer, precancerous genital lesions, and genital warts due to HPV. The vaccine is highly effective against four types of the HPV virus, including two that cause about 70 percent of cervical cancer. HPV-vaccine recipients who have not acquired HPV would get the full benefits of the vaccine. Though women already infected with an HPV vaccine type virus will not benefit from that part of the vaccine, they could still benefit from the other vaccine virus types.

# What are the recommendations for use of HPV vaccine?

The Advisory Committee on Immunization Practices (ACIP) voted to recommend that it be routinely given to girls ages 11–12 years, though it can be given to girls as young as 9 years. ACIP also voted to recommend that girls and women ages 13 through 26 years receive the vaccine. Ideally vaccine should be administered before onset of

sexual activity, but sexually active females should still be vaccinated.

Gardasil is licensed as a 3-dose series, with dose #2 given 2 mos after dose #1, and dose #3 given 4 mos after dose #2. The vaccine should be given IM in the deltoid. ACIP recommendations do not become official until they are published in the *MMWR*, which is expected to occur later this year. ACOG will be publishing recommendations for the use of HPV vaccine soon. For more information on the use of HPV vaccine, consult the package insert: www.fda.gov/cber/label/hpvmer060806LB.pdf.

# If a woman is diagnosed with HPV, should she still be vaccinated?

Yes. Although the vaccine would not alter the clinical course of the current infection, she would still benefit from protection against the other virus types in the vaccine.

# Since men transmit HPV, why isn't the vaccine recommended for them also?

Studies of the safety and immunogenicity among males are not yet complete. It is possible that HPV vaccine will be recommended for males at a later date.

#### **Immunization questions?**

- Call the CDC-INFO Contact Center at (800) 232-4636 or (800) CDC-INFO
- Email nipinfo@cdc.gov
- Call your state health dept. (phone numbers at www.immunize.org/coordinators)

# What is the Current Procedural Terminology (CPT) code for HPV vaccine?

It is 90649. CPT codes are used for billing.

# Which adults should receive Tdap (the pertussis-containing vaccine for adults)?

A one-time dose of Tdap should replace a dose of Td for any adult younger than age 65 years, either as part of a primary series of tetanus and diphtheria toxoid or as a 10-year booster. Certain adults should get Tdap with an interval of 2 years or less following their previous Td dose if they are (1) a

(continued on page 2)

#### **Vaccinate Women**

#### Immunization Action Coalition Hepatitis B Coalition

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

The Hepatitis B Coalition, a program of IAC, promotes hepatitis B vaccination for all persons ages 0–30 years; HBsAg screening for all pregnant women; testing and vaccination for high-risk groups; and education and treatment for people chronically infected with hepatitis B virus.

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Deborah L. Wexler, MD Immunization Action Coalition parent or caregiver of a child younger than age 12 months, (2) a healthcare worker having direct patient contact, or (3) at risk for pertussis due to increased pertussis activity or during outbreaks.

#### Which Tdap products can be used in adults?

Adacel (sanofi pasteur) is licensed for use in persons ages 11–64 years. Boostrix® (GlaxoSmithKline) is licensed for use in persons ages 10–18 years. Neither product is licensed for persons ages 65 years and older, so Td should be used in this age group whenever needed.

#### Can Tdap be given to pregnant women?

ACIP recently voted to recommend using Td (not Tdap) during pregnancy if a routine tetanus booster is needed. If the previous Td booster was given within the preceding 10 years, the new mother should receive Tdap immediately postpartum. However there are situations when a clinician can consider the use of Tdap for a pregnant woman, such as if there is a risk of exposure because of a pertussis outbreak. Tdap is not contraindicated for pregnant women. The infant's other household contacts ages 10–64 years should also receive Tdap.

#### I heard there is a new vaccine to prevent shingles. How effective is it and how should it be used?

In May 2006, the FDA licensed Zostavax® by Merck to prevent herpes zoster (shingles) as a 1-dose vaccination for all persons ages 60 years and older. In clinical trials, Zostavax reduced the risk of developing shingles by 51 percent, compared with placebo. ACIP has not yet made recommendations for the use of Zostavax.

# Which healthcare workers in Ob/Gyn practices need influenza vaccine?

All of them. It is important to vaccinate all outpatient and hospital healthcare personnel who have contact with patients.

# Which of my patients should be vaccinated against influenza?

Influenza vaccination is recommended for all women who will be pregnant during the influenza season (December through March) during any trimester. Additionally, influenza vaccine should be administered to (1) all persons age 50 years or older, (2) all persons with chronic medical conditions (e.g., pulmonary/cardiovascular, diabetes), (3) all persons who live with a person who has a high-risk condition and/or all persons who are caretakers or household contacts of children ages birth to 5 years. Influenza vaccine can also be given to any person who wishes to be protected against influenza.

## How can I stay up to date on all that's new in immunization?

One easy method is to sign up for IAC Express, a

weekly (and sometimes more often) email news service from IAC. Simply go to www.immunize.org/ express and subscribe. It's available free of charge.

# Where can I find information on vaccine handling and storage?

A toolkit containing general guidelines for correct vaccine storage and handling can be found on CDC's website at www2a.cdc.gov/nip/isd/shtoolkit/splash. html

# How can our nursing staff stay current on immunization techniques?

A video "Immunization Techniques: Safe, Effective, Caring," is available in VHS tape and DVD disk formats. It can be ordered at www.immunize. org/iztech.

# Where can I get samples of standing orders for various vaccines?

IAC has developed standing orders for most childhood and adult vaccines. You can find them at www. immunize.org/standingorders.

#### **Hepatitis B**

by Eric E. Mast, MD, MPH

# Where can I obtain a copy of the new ACIP hepatitis B recommendations for infants, children, and teens?

These recommendations were published in *MMWR* on 12/23/05. The entire document is available at www. cdc.gov/mmwr/pdf/rr/rr5416.pdf. In addition, CDC released a "Dear Colleague" letter that summarizes succinctly the updated hepatitis B recommendations that prenatal care providers, delivery hospitals, newborn care providers, and health departments should follow to prevent perinatal and early childhood HBV transmission. To obtain the letter, go to www.immunize.org/acip/HBVinfant\_dearcolleague.pdf.

# How have the universal hepatitis B birth dose recommendations been strengthened?

The recommendations to administer hepatitis B vaccine at birth now include the following:

- All delivery hospitals should implement standing orders for administration of hepatitis B vaccine as part of routine medical care of all medically stable infants weighing 2 kg (4.4 lb) or more at birth.
- All medically stable infants weighing 2 kg or more at birth and born to HBsAg-negative mothers should receive the first dose of vaccine before hospital discharge.
- On a case-by-case basis and only in rare circumstances, the first dose may be delayed until after hospital discharge for an infant who weighs 2 kg or more and whose mother is HBsAg negative. When such a decision is made, a physician's order

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**not** to give the birth dose must be written, and a copy of the original laboratory report indicating that the mother was HBsAg negative during this pregnancy should be placed in the infant's medical record.

#### Do AAP, AAFP, and ACOG all agree with the birth dose recommendations from CDC? Yes.

#### What are the new recommendations for prenatal HBsAg testing and management of pregnant women?

- All pregnant women should be tested routinely for HBsAg during an early prenatal visit (e.g., first trimester) in each pregnancy, even if they have been previously vaccinated or tested.
- Women who were not screened prenatally, those with clinical hepatitis, and those who engage in behaviors that put them at increased risk for HBV infection (e.g., recent or current injection drug use, having had sex with more than one partner in the previous 6 months or with an HBsAg-positive partner, or evaluation or treatment for an STD) should be tested at the time of admission to the hospital for delivery.
- All laboratories that provide HBsAg testing of pregnant women should use an FDA-licensed or FDA-approved HBsAg test and should perform testing according to the manufacturer's labeling. This includes testing of initially reactive specimens with a licensed neutralizing confirmatory test.
- When pregnant women are tested for HBsAg at the time of admission for delivery, shortened testing protocols may be used and initially reactive results should be reported to expedite administration of immunoprophylaxis to infants.
- Women who are HBsAg positive should be referred to an appropriate case-management program to ensure that their infants receive timely postexposure prophylaxis and follow-up.
- A copy of the original lab report indicating the pregnant woman's HBsAg status should be provided to the hospital where delivery is planned

#### Do you have patients who are HBsAg-positive?

They need medical monitoring, including liver cancer screening; many can benefit from treatment.

The FDA licenses five medications for treatment in the United States. They are interferon alfa-2b and peginterferon alfa-2a (administered subcutaneously); and adefovir dipivoxil, entecavir, and lamivudine (administered orally).

Consult a liver specialist experienced in the treatment of viral hepatitis for appropriate monitoring guidelines and for help in determining which of your patients might benefit from treatment.

- and to the healthcare provider who will care for the newborn.
- Women who are HBsAg positive should be provided with or referred for appropriate counseling and medical evaluation and receive information concerning hepatitis B that discusses
  - modes of transmission;
  - perinatal concerns (e.g., infants who are born to HBsAg-positive mothers may be breast-fed);
  - prevention of HBV transmission to contacts, including the importance of postexposure immunoprophylaxis for the newborn infant and hepatitis B vaccination for household, sexual, and needle-sharing contacts;
  - substance abuse treatment, if appropriate;
- medical evaluation and possible treatment of chronic hepatitis B.
- When HBsAg testing of pregnant women is not feasible (i.e., in remote areas without access to a laboratory), all infants should receive hepatitis B vaccine no later than 12 hours after birth and should complete the hepatitis B vaccine series according to a recommended schedule for infants born to HBsAg-positive mothers.

#### Are all HBsAg-positive test results for pregnant women supposed to be reported to the state health department?

Yes. This reporting is critical as it helps assure appropriate case management of infants born to HBV-infected mothers and counseling and medical evaluation for the infected mothers.

# Visit IAC websites

www.vaccineinformation.org

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# Guidelines for Standing Orders in Labor & Delivery and Nursery Units to Prevent Hepatitis B Virus Transmission to Newborns

In December 2005, the Centers for Disease Control and Prevention (CDC) published updated recommendations of the Advisory Committee on Immunization Practices (ACIP) for prevention of hepatitis B virus (HBV) infections in infants, children, and adolescents. The American Academy of Pediatrics, American Academy of Family Physicians, and American College of Obstetricians and Gynecologists have endorsed these recommendations. To obtain a copy of these recommendations, go to www.cdc.gov/mmwr/PDF/rr/rr5416.pdf.

CDC recommends that all delivery hospitals institute standing orders to ensure

- Administration of hepatitis B vaccine to all medically stable newborns weighing at least 2 kg (4.4 lb) at birth before discharge from the nursery.
- Identification of infants born to hepatitis B surface antigen (HBsAg)-positive mothers and infants born to mothers with unknown HBsAg status and administration of appropriate immunoprophylaxis to these infants.

The guidance below has been developed to help your hospital establish standing orders in the labor and delivery and nursery units and has been reviewed by CDC staff for consistency with ACIP recommendations.

#### Labor and Delivery (L&D) standing orders

Upon admission, review the HBsAg¹ status of all pregnant women. You must review a copy of the mother's original laboratory report to verify that the correct test was performed during this pregnancy and to verify the test date. Do not rely on a transcribed test result!

#### For women with a documented HBsAg test result

- Place a copy of the original laboratory report of the mother's HBsAg¹ test result into (1) the mother's L&D record and (2) the infant's medical record.
- If the mother is HBsAg positive, alert the nursery staff.
- If the mother is HBsAg negative and is at risk for HBV infection during this pregnancy (e.g., had more than one sex partner in the previous 6 months; had an HBsAg-positive sex partner; had evaluation or treatment for a sexually transmitted disease; currently uses or recently used injection drugs), perform a repeat test for HBsAg.¹ Instruct the laboratory to call L&D and the nursery with the HBsAg test result ASAP.

#### For women without a documented HBsAg test result

- Perform HBsAg¹ testing ASAP on women who do not have a documented HBsAg test result from the current pregnancy.
- Instruct the lab to call L&D and the nursery with the HBsAg test result ASAP.

#### **Nursery standing orders**

#### For all newborns

- Review a copy of the mother's original HBsAg¹ lab report. Provide appropriate management based on (1) the mother's HBsAg status and (2) the infant's birth weight. Manage those who weigh less than 2 kg differently from those who weigh 2 kg or more (see below and footnotes 2, 5, 6).
- Ensure that a copy of the original maternal HBsAg¹ laboratory report is in the infant's medical record.

#### For infants born to HBsAg-negative mothers

- Administer single-antigen hepatitis B vaccine (0.5 mL, IM) before discharge to all infants weighing at least 2 kg at birth.<sup>2,3,4</sup> Document the hepatitis B vaccine dose appropriately in the infant's medical record, including date and time of administration.
- Give the mother an immunization record card that includes the hepatitis B vaccination date, and explain the need for a complete hepatitis B vaccine series to fully protect her baby. Remind the mother to bring the card with her each time her baby sees a provider.

#### For infants born to mothers with unknown HBsAg status

- Administer single-antigen hepatitis B vaccine (0.5 mL, IM) within 12 hours of birth.<sup>3,5</sup> Do not wait for test results to return before giving this dose of vaccine! Document the hepatitis B vaccine dose appropriately.
- Give the mother an immunization record card that includes the hepatitis B vaccination date. Explain the need for further doses to fully protect her baby. Remind

the mother to bring the card with her each time her baby sees a provider.

- Confirm that the laboratory has received serum for the mother's HBsAg¹ test.
   Verify when the HBsAg result will be available and that it will be reported to L&D and the nursery ASAP. If the nursery does not receive the report at the expected time, call the laboratory for the result.
- If the mother's HBsAg1 test result comes back positive
  - Administer hepatitis B immune globulin (HBIG 0.5 mL, IM) to the infant ASAP. Document the HBIG dose appropriately in the infant's medical record.
     There is little benefit in giving HBIG if more than 7 days have elapsed since birth
  - Alert the mother's and infant's physician(s) of the test result.
  - Follow the instructions below for infants born to HBsAg-positive mothers.
- If the infant must be discharged before the HBsAg result is known
  - Document contact information for the parents (e.g., addresses, telephone numbers, emergency contacts) in case further treatment is needed.
  - Obtain the name, address, and phone number of the mother's and the infant's healthcare provider.
  - Notify the mother's and the infant's healthcare provider that the mother's HBsAg test result is pending.

#### For infants born to HBsAg-positive mothers

- Administer HBIG (0.5 mL, IM) and single-antigen hepatitis B vaccine<sup>3,6</sup>(0.5 mL, IM) at separate injection sites within 12 hours of birth. Document the hepatitis B vaccine and HBIG doses appropriately in the infant's medical record, including date and time of administration.
- Give the mother an immunization record card that includes the date of the hepatitis
  B vaccine and HBIG doses, and explain the need for further doses of hepatitis B
  vaccine to fully protect her baby. Remind the mother to bring the card with her
  each time her baby sees a provider.
- Notify the local or state health department of the infant's birth and the date and time of administration of HBIG and hepatitis B vaccine doses.
- Obtain the name, address, and phone number of the infant's primary care provider. Notify the provider of the infant's birth, the date and time of HBIG and hepatitis B vaccine doses administered, and the importance of additional on-time vaccination and postvaccination testing of the infant for HBsAg and antibody to HBsAg after completion of the hepatitis B vaccine series.
- Provide advice to the mother. Tell her
  - About the importance of her infant completing the full hepatitis B vaccine series on schedule
  - About modes of HBV transmission and the need for vaccination of her susceptible household, sexual, and needle-sharing contacts
  - That she may breast-feed her infant upon delivery, even before hepatitis B vaccine and HBIG are given
  - That blood will need to be drawn from the infant after completion of the hepatitis B vaccine series at age 9–18 months to determine if the infant needs further management
  - That she needs to have a medical evaluation for chronic hepatitis B, including an assessment of whether she is eligible for antiviral treatment

#### Footnotes

- 1. Be sure the correct test for HBsAg (hepatitis B surface antigen) was/is ordered. The HBsAg test should not be confused with other hepatitis B serologic tests, including antibody to HBsAg (anti-HBs or HBsAb) and antibody to hepatitis B core antigen (anti-HBc or HBcAb).
- Infants weighing less than 2 kg whose mothers are documented to be HBsAg negative should receive the first dose of vaccine 1 month after birth or at hospital discharge. The mother's HBsAg status must be part of the infant's medical record.
- Federal law requires that you give parents a Hepatitis B Vaccine Information Statement (VIS) before vaccine administration. To obtain a VIS, download from the IAC website at www.immunize.org/vis or call your state health department.
- 4. Exceptions to giving the birth dose of hepatitis B vaccine are allowed on a case-by-case basis and only in rare circumstances. If a birth dose is not administered, a copy of the mother's negative HBsAg test result from the current pregnancy must be placed in the infant's medical record and the attending physician must write a specific order directing staff not to administer the birth dose in the hospital.
- 5. An infant weighing less than 2 kg whose mother's HBsAg status is unknown should receive HBIG and hepatitis B vaccine within 12 hours of birth. Do not count the hepatitis B vaccine dose as the first dose in the vaccine series. Reinitiate the full hepatitis B vaccine series at age 1–2 months.
- 6. An infant weighing less than 2 kg whose mother is HBsAg positive should receive the first dose of hepatitis B vaccine and HBIG within 12 hours of birth. Do not count the hepatitis B vaccine dose as the first dose in the vaccine series. Reinitiate the full hepatitis B vaccine series at age 1–2 months.

www.immunize.org/catg.d/p2130per.pdf • Item #2130 (4/06)

# **Summary of Recommendations for Adult Immunization**

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Adapted from the recommendations of the Advisory Committee on Immunization Practices (ACIP)\* by the Immunization Action Coalition, July 2006

Vaccine name and route	For whom vaccination is recommended	Schedule for vaccine administration (any vaccine can be given with another)	Contraindications and precautions (mild illness is not a contraindication)
Influenza Trivalent inactivated influenza vaccine (TIV) Give IM  Influenza Live attenuated influenza vaccine (LAIV) Give intranasally	<ul> <li>Persons age 50yrs and older.</li> <li>Persons with medical problems (e.g., heart disease, lung disease, diabetes, renal dysfunction, hemoglobinopathy, immunosuppression) and/or people living in chronic-care facilities.</li> <li>Persons with any condition that compromises respiratory function or the handling of respiratory secretions or that can increase the risk of aspiration (e.g., cognitive dysfunction, spinal cord injury, seizure disorder, or other neuromuscular disorder).</li> <li>Persons working or living with at-risk people.</li> <li>Women who will be pregnant during the influenza season (December–March).</li> <li>All healthcare workers and other persons who provide direct care to at-risk people.</li> <li>Household contacts and out-of-home caregivers of children ages 0–59m.</li> <li>Travelers at risk for complications of influenza who go to areas where influenza activity exists or who may be among people from areas of the world where there is current influenza activity (e.g., on organized tours).</li> <li>Persons who provide essential community services.</li> <li>Students or other persons in institutional settings (e.g., dormitory residents).</li> <li>Anyone wishing to reduce the likelihood of becoming ill with influenza.</li> <li>Healthy, non-pregnant persons age 49yrs and younger who meet any of the conditions listed below.</li> <li>Working or living with at-risk people as listed in the section above.</li> <li>Healthcare workers or other persons who provide direct care to at-risk people (except persons in close contact with severely immunosuppressed persons).</li> <li>Household contacts and out-of-home caregivers of children ages 0–59m.</li> <li>Travelers who may be among people from areas of the world where there is current influenza activity (e.g., on organized tours).</li> <li>Persons who provide essential community services.</li> <li>Students or other persons in institutional settings (e.g., dormitory residents).</li> <li>Anyone wishing to reduce the likelihood of becoming ill with influenz</li></ul>	<ul> <li>Given every year in the fall or winter.</li> <li>October and November are the ideal months to give TIV.</li> <li>LAIV may be given as early as August.</li> <li>Continue to give TIV and LAIV through the influenza season from December through March (including when influenza activity is present in the community) and at other times when the risk of influenza exists.</li> </ul>	Contraindication Previous anaphylactic reaction to this vaccine, to any of its components, or to eggs.  Precaution • Moderate or severe acute illness. • History of Guillain-Barré syndrome within 6wks of previous TIV.  Contraindications • Previous anaphylactic reaction to this vaccine, to any of its components, or to eggs. • Pregnancy, asthma, reactive airway disease or other chronic disorder of the pulmonary or cardiovascular system; an underlying medical condition, including metabolic disease such as diabetes, renal dysfunction, and hemoglobinopathy; a known or suspected immune deficiency disease or receiving immunosuppressive therapy; history of Guillain-Barré syndrome.  Precaution Moderate or severe acute illness.
Pneumococcal poly- saccharide (PPV23) Give IM or SC	<ul> <li>Persons age 65yrs and older.</li> <li>Persons who have chronic illness or other risk factors, including chronic cardiac or pulmonary disease, chronic liver disease, alcoholism, diabetes, CSF leak, as well as people living in special environments or social settings (including Alaska Natives and certain American Indian populations). Those at highest risk of fatal pneumococcal infection are persons with anatomic asplenia, functional asplenia, or sickle cell disease; immunocompromised persons including those with HIV infection, leukemia, lymphoma, Hodgkin's disease, multiple myeloma, generalized malignancy, chronic renal failure, or nephrotic syndrome; persons receiving immunosuppressive chemotherapy (including corticosteroids); and those who received an organ or bone marrow transplant and candidates for or recipients of cochlear implants.</li> </ul>	Routinely given as a one-time dose; administer if previous vaccination history is unknown.  One-time revaccination is recommended 5yrs later for persons at highest risk of fatal pneumococcal infection or rapid antibody loss (e.g., renal disease) and for persons age 65yrs and older if the 1st dose was given prior to age 65 and 5yrs or more have elapsed since the previous dose.	Contraindication Previous anaphylactic reaction to this vaccine or to any of its components.  Precaution Moderate or severe acute illness.

<sup>\*</sup>For specific ACIP recommendations, refer to the official ACIP statements published in *MMWR*. To obtain copies of these statements, call the CDC-INFO Contact Center at (800) 232-4636; visit CDC's website at www.cdc.gov/nip/publications/ACIP-list.htm; 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. IAC thanks William Atkinson, MD, MPH, from CDC's National Immunization Program for his assistance. For more information, contact IAC at 1573 Selby Avenue, St. Paul, MN 55104, (651) 647-9009, or email admin@immunize.org.

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# Summary of Recommendations for Adult Immunization (continued)

Vaccine name Schedule for vaccine administration **Contraindications and precautions** For whom vaccination is recommended and route (any vaccine can be given with another) (mild illness is not a contraindication) • All adolescents; any adult wishing to obtain immunity. • Three doses are needed on a 0, 1, 6m sched-Hepatitis B Contraindication • High-risk persons, including household contacts and sex partners of HBsAg-posi-(Hep B) Previous anaphylactic reaction to this vactive persons; injecting drug users; heterosexuals with more than one sex partner • Alternative timing options for vaccination cine or to any of its components. Give IM in 6 months; men who have sex with men; persons with recently diagnosed include 0, 2, 4m and 0, 1, 4m. Precaution STDs; patients receiving hemodialysis and patients with renal disease that may • There must be 4wks between doses Brands may Moderate or severe acute illness. result in dialysis; recipients of certain blood products; healthcare workers and #1 and #2, and 8wks between doses be used public safety workers who are exposed to blood; clients and staff of institutions #2 and #3. Overall, there must be at least interchangeably. for the developmentally disabled; inmates of long-term correctional facilities; and 16wks between doses #1 and #3. certain international travelers. Schedule for those who have fallen behind: Persons with chronic liver disease. If the series is delayed between doses, DO **Note:** Provide serologic screening for immigrants from endemic areas. When NOT start the series over. Continue from HBsAg-positive persons are identified, offer appropriate disease management. In where you left off. addition, screen their sex partners and household members, and give the first dose of vaccine at the same visit. If found susceptible, complete the vaccine series. For Twinrix<sup>TM</sup> (hepatitis A and B combination vaccine [GSK]), three doses • Persons who travel or work anywhere except the U.S., Western Europe, New Contraindication Hepatitis A are needed on a 0, 1, 6m schedule. Re-Zealand, Australia, Canada, and Japan. Previous anaphylactic reaction to this (Hep A) cipients must be age 18yrs or older. • Persons with chronic liver disease, including persons with hepatitis B and C; vaccine or to any of its components. Give IM injecting and non-injecting drug users; men who have sex with men; people with Precautions clotting-factor disorders; persons who work with hepatitis A virus in experimental • Two doses are needed. · Moderate or severe acute illness. Brands may lab settings (not routine medical laboratories); and food handlers when health au-• The minimum interval between doses #1 • Safety during pregnancy has not been be used thorities or private employers determine vaccination to be cost effective. and #2 is 6m. determined, so benefits must be weighed interchangeably. • Anyone wishing to obtain immunity to hepatitis A. • If dose #2 is delayed, do not repeat dose against potential risk. **Note:** Prevaccination testing is likely to be cost effective for persons older than age #1. Just give dose #2. 40yrs, as well as for younger persons in certain groups with a high prevalence of hepatitis A virus infection. For persons who are unvaccinated or behind, Contraindications • All adults who lack a history of a primary series consisting of at least 3 doses of Td, Tdap • Previous anaphylactic reaction to this complete the primary series with Td (spaced tetanus- and diphtheria-containing vaccine. (Tetanus, at 0, 1–2m, 6–12m intervals). One dose of vaccine or to any of its components. • A booster dose of tetanus- and diphtheria-containing toxoid may be needed for diphtheria, Tdap may be used for any dose if ages • For Tdap only, history of encephalopathy pertussis) wound management as early as 5yrs after receiving a previous dose, so consult 19-64yrs. within 7 days following DTP/DTaP. ACIP recommendations.\* Give IM • Give Td booster every 10yrs after the pri-Precautions • Using tetanus toxoid (TT) instead of Td or Tdap is not recommended. mary series has been completed. For adults Moderate or severe acute illness. ages 19–64yrs, a 1-time dose of Tdap is • Guillain-Barré syndrome within 6wks of For Tdap (tetanus- and diphtheria-toxoids with acellular pertussis vaccine) only: recommended to replace the next Td. receiving a previous dose of tetanus • All adults younger than age 65yrs who have not received Tdap. Intervals of 2yrs or less between Td and toxoid-containing vaccine. • Healthcare workers who work in hospitals or ambulatory care settings and have Tdap may be used if needed. Unstable neurologic condition. direct patient contact and who have not received Tdap. **Note:** The 2 Tdap products are licensed for • Pregnancy: if  $\geq 10$ yrs since prior Td, give • Adults in contact with infants younger than age 12m (e.g., parents, grandparents different age groups: Adacel (sanofi) for use Td in 2nd or 3rd trimester; if <10yrs, give younger than age 65yrs, childcare providers, healthcare workers) who have not in persons ages 11–64yrs and Boostrix Tdap in immediate postpartum period. received a dose of Tdap. (GSK) for use in persons ages 10–18yrs. · Refer to ACIP recommendations\* regard-Contraindication Polio Not routinely recommended for persons age 18yrs and older. Previous anaphylactic or neurologic reaction ing unique situations, schedules, and dos-(IPV) **Note:** Adults living in the U.S. who never received or completed a primary series to this vaccine or to any of its components. ing information. of polio vaccine need not be vaccinated unless they intend to travel to areas Give IM or SC where exposure to wild-type virus is likely. Previously vaccinated adults can re-Precautions • Moderate or severe acute illness. ceive one booster dose if traveling to polio endemic areas. · Pregnancy.

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Vaccine name and route	For whom vaccination is recommended	Schedule for vaccine administration (any vaccine can be given with another)	Contraindications and precautions (mild illness is not a contraindication)
Varicella (Var) (Chickenpox) Give SC	All susceptible adults and adolescents should be vaccinated. It is especially important to ensure varicella immunity among household contacts of immunosuppressed persons and among healthcare workers.	<ul> <li>Two doses are needed.</li> <li>Dose #2 is given 4–8wks after dose #1.</li> <li>If varicella vaccine and MMR are both needed and are not administered on the same day, space them at least 4wks apart.</li> <li>If the second dose is delayed, do not repeat dose #1. Just give dose #2.</li> </ul>	Contraindications  • Previous anaphylactic reaction to this vaccine or to any of its components.  • Pregnancy or possibility of pregnancy within 4wks (use contraception).  • Persons immunocompromised because of malignancies and primary or acquired cellular immunodeficiency including HIV/AIDS. (See MMWR 1999, Vol. 48, No. RR-6.) Note: For those on high-dose immunosuppressive therapy, consult ACIP recommendations regarding delay time.*  Precautions  • If blood, plasma, and/or immune globulin (IG or VZIG) were given in past 11m, see ACIP statement General Recommendations on Immunization* regarding time to wait before vaccinating.
Meningo- coccal Conjugate vaccine (MCV4) Give IM Polysaccharide vaccine (MPSV4) Give SC	<ul> <li>College freshmen living in dormitories.</li> <li>Adolescents and adults with anatomic or functional asplenia or with terminal complement component deficiencies.</li> <li>Persons who travel to or reside in countries in which meningococcal disease is hyperendemic or epidemic (e.g., the "meningitis belt" of Sub-Saharan Africa).</li> <li>Microbiologists who are routinely exposed to isolates of <i>N. meningitidis</i>.</li> </ul>	<ul> <li>MCV4 is preferred over MPSV4 for persons age 55yrs and younger, although MPSV4 is an acceptable alternative.</li> <li>Give one dose to persons with risk factors; revaccinate after 5yrs if risk of disease continues and previous vaccine was MPSV4.</li> </ul>	Contraindication Previous anaphylactic or neurologic reaction to this vaccine or to any of its components, including diphtheria toxoid (for MCV4).  Precautions  • Moderate or severe acute illness.  • For MCV4 only, history of Guillain-Barré syndrome.
MMR (Measles, mumps, rubella) Give SC	Persons born in 1957 or later (especially those born outside the U.S.) should receive at least one dose of MMR if there is no serologic proof of immunity or documentation of a dose given on or after the first birthday.  Persons in high-risk groups, such as healthcare workers, students entering college and other post–high school educational institutions, and international travelers, should receive a total of two doses.  Persons born before 1957 are usually considered immune, but proof of immunity (serology or vaccination) may be desirable for healthcare workers.  Women of childbearing age who do not have acceptable evidence of rubella immunity or vaccination.	<ul> <li>One or two doses are needed.</li> <li>If dose #2 is recommended, give it no sooner than 4wks after dose #1.</li> <li>If varicella vaccine and MMR are both needed and are not administered on the same day, space them at least 4wks apart.</li> <li>If a pregnant woman is found to be rubella susceptible, administer MMR postpartum.</li> </ul>	<ul> <li>Contraindications</li> <li>Previous anaphylactic reaction to this vaccine or to any of its components</li> <li>Pregnancy or possibility of pregnancy within 4wks (use contraception).</li> <li>Persons immunocompromised because of cancer, leukemia, lymphoma, immunosuppressive drug therapy, including high-dose steroids or radiation therapy. Note: HIV positivity is NOT a contraindication to MMR except for those who are severely immunocompromised.</li> <li>Precautions</li> <li>If blood, plasma, and/or immune globulin were given in past 11m, see ACIP statement <i>General Recommendations on Immunization*</i> regarding time to wait before vaccinating.</li> <li>Moderate or severe acute illness.</li> <li>History of thrombocytopenia or thrombocytopenic purpura.</li> <li>Note: If PPD (tuberculosis skin test) and MMR are both needed but not given on same day, delay PPD for 4–6wks after MMR.</li> </ul>
Human- papillomavirus (HPV) Give IM	All previously unvaccinated women through age 26yrs.	• Three doses are needed. • Dose #2 is given 4–8wks after dose #1, and dose #3 is given 6mos after dose #1 (at least 10wks after dose #2).	Contraindication Previous anaphylactic reaction to this vaccine or to any of its components.  Precaution Data on vaccination in pregnancy are limited; therefore, vaccination during pregnancy should be delayed until after completion of the pregnancy.
Zoster (shingles) (Zos) Give SC	A herpes zoster (shingles) vaccine was licensed in May 2006 insert for details on its use.	for use in persons age 60yrs and older. AC	CIP recommendations for its use are pending. Refer to the package

# **How to Administer IM and SC Injections to Adults**

#### **Intramuscular (IM) Injections**

#### Administer these vaccines via IM route:

Tetanus, diphtheria (Td), or with pertussis (Tdap); hepatitis A; hepatitis B; human papillomavirus (HPV); trivalent inactivated influenza (TIV); and meningococcal conjugate (MCV4). Administer polio (IPV) and pneumococcal polysaccharide vaccine (PPV) either IM or SC.

#### Injection site:

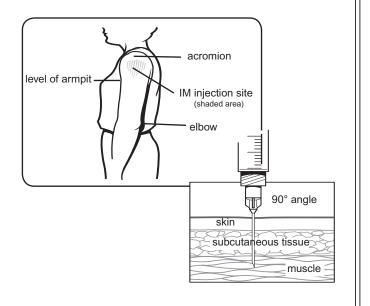
Give in the central and thickest portion of the deltoid—above the level of the armpit and below the acromion (see the diagram).

#### Needle size:

22-25 gauge, 1-11/2" needle

#### **Needle insertion:**

- Use a needle long enough to reach deep into the muscle.
- Insert the needle at a 90° angle to the skin with a quick thrust.
- Separate two injections given in the same deltoid muscle by a minimum of 1".



## **Subcutaneous (SC) Injections**

#### Administer these vaccines via SC route:

MMR, varicella, meningococcal polysaccharide (MPSV4), and zoster (shingles). Administer polio (IPV) and pneumococcal polysaccharide vaccine (PPV) either SC or IM.

#### Injection site:

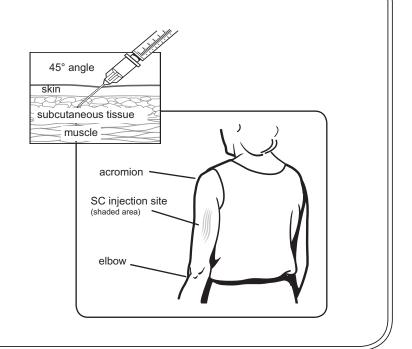
Fatty tissue over the triceps (see the diagram)

#### Needle size:

23-25 gauge, 5/8" needle

#### **Needle insertion:**

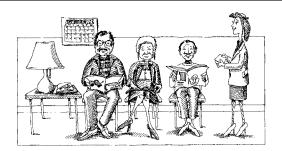
- Pinch up on the tissue to prevent injection into the muscle. Insert the needle at a 45° angle to the skin.
- Separate two injections given in the same area of fatty tissue by a minimum of 1".



Adapted by the Immunization Action Coalition, courtesy of the Minnesota Department of Health

Patient name:	Date of birth:	/		/	
		(mo.)	(day)	(yr.	.)

# Screening Questionnaire for Adult Immunization



**For patients:** The following questions will help us determine which vaccines you may be given today. If you answer "yes" to any question, it does not necessarily mean you should not be vaccinated. It just means additional questions must be asked. If a question is not clear, please ask your healthcare provider to explain it.

ic	л схрівіт ії.		Yes	No	Know
۱.	Are you sick today?				
2.	Do you have allergies to medications, food, or any vaccine?				
3.	Have you ever had a serious reaction after receiving a vaccination?				
4.	Do you have cancer, leukemia, AIDS, or any other immune system problem?				
5.	Do you take cortisone, prednisone, other steroids, or anticancer drugs, or have you had x-ray treatments?				
6.	Do you have a seizure, brain, or nerve problem?				
7.	During the past year, have you received a transfusion of blood or blood products, or been given a medicine called immune (gamma) globulin?				
8.	For women: Are you pregnant or is there a chance you could become pregnant during the next month?				
9.	Have you received any vaccinations in the past 4 weeks?				
	Form completed by:	Date:_			_
	Form reviewed by:	Date:_			_
	Did you bring your immunization record card with you?	•			1
	It is important for you to have a personal record of your vaccinations. If card, ask your healthcare provider to give you one! Bring this record wi medical care. Make sure your healthcare provider records all your vacci	th you e	every tir		
	www.immun	ize ora/cata (	1/p4065ccrp	of tem#P	4065 (7/06)

#### Information for Health Professionals about the Screening Questionnaire for Adults

Are you interested in knowing why we included a certain question on the Screening Questionnaire? If so, read the information below. If you want to find out even more, consult the references listed at the bottom of this page.



#### I. Are you sick today?

There is no evidence that acute illness reduces vaccine efficacy or increases vaccine adverse events (1). However, as a precaution with moderate or severe acute illness, all vaccines should be delayed until the illness has improved. Mild illnesses (such as upper respiratory infections or diarrhea) are NOT contraindications to vaccination. Do not withhold vaccination if a person is taking antibiotics.

#### 2. Do you have allergies to medications, food, or any vaccine?

History of anaphylactic reaction such as hives (urticaria), wheezing or difficulty breathing, or circulatory collapse or shock (not fainting) from a previous dose of vaccine or vaccine component is a contraindication for further doses. For example, if a person experiences anaphylaxis after eating eggs, do not administer influenza vaccine, or if a person has anaphylaxis after eating gelatin, do not administer MMR or varicella vaccine. Local reactions (e.g., a red eye following instillation of ophthalmic solution) are not contraindications. For an extensive list of vaccine components, see reference 2.

# 3. Have you ever had a serious reaction after receiving a vaccination?

History of anaphylactic reaction (see question 2) to a previous dose of vaccine or vaccine component is a contraindication for subsequent doses (1). Under normal circumstances, vaccines are deferred when a precaution is present. However, situations may arise when the benefit outweighs the risk (e.g., during a community measles outbreak).

# 4. Do you have cancer, leukemia, AIDS, or any other immune system problem?

Live virus vaccines (e.g., MMR, varicella, and the intranasal live attenuated influenza vaccine [LAIV]) are usually contraindicated in immunocompromised people. However, there are exceptions. For example, MMR vaccine is recommended for asymptomatic HIV-infected individuals who do not have evidence of severe immunosuppression. Immunosuppressed persons should not receive varicella vaccine or LAIV. For details, consult the ACIP recommendations (3, 4, 5).

# 5. Do you take cortisone, prednisone, other steroids, or anticancer drugs, or have you had x-ray treatments?

Live virus vaccines (e.g., MMR, varicella, LAIV) should be postponed until after chemotherapy or long-term high-dose steroid therapy has ended. For details and length of time to postpone, consult the ACIP statement (1, 5). To find specific vaccination schedules for stem cell transplant (bone marrow transplant) patients, see reference 6. LAIV can only be given to healthy non-pregnant individuals ages 5–49 years.

#### 6. Do you have a seizure, brain, or nerve problem?

Tdap is contraindicated in persons who have a history of encephalopathy within 7 days following DTP/DTaP given before age 7 years. An unstable progressive neurologic problem is a precaution to the use of Tdap. For persons with stable neurologic disorders (including seizures) unrelated to vaccination, or for persons with a family history of seizure, vaccinate as usual. A history of Guillain-Barré syndrome (GBS) is a con-

sideration with the following: I) Td/Tdap: if GBS has occurred within 6 weeks of a tetanus-containing vaccine and decision is made to continue vaccination, give Tdap instead of Td if no history of prior Tdap; 2) Inactivated influenza vaccine (TIV): if GBS has occurred within 6 weeks of prior TIV, vaccinate with TIV if at high risk for severe influenza complications; 3) LAIV: if GBS history, do not give LAIV; 4) MCV4: avoid vaccinating persons unless in recommended risk groups.

# 7. During the past year, have you received a transfusion of blood or blood products, or been given a medicine called immune (gamma) globulin?

Certain live virus vaccines (e.g., MMR, varicella) may need to be deferred, depending on several variables. Consult the most current ACIP recommendations for current information on intervals between immune globulin or blood product administration and MMR or varicella vaccination. (1)

# 8. For women: Are you pregnant or is there a chance you could become pregnant during the next month?

Live virus vaccines (e.g., MMR, varicella, LAIV) are contraindicated in the month before and during pregnancy because of the theoretical risk of virus transmission to the fetus. Sexually active women in their child-bearing years who receive MMR or varicella vaccination should be instructed to practice careful contraception for one month following receipt of either vaccine. On theoretical grounds, inactivated poliovirus vaccine should not be given during pregnancy; however, it may be given if risk of disease is imminent and immediate protection is needed (e.g., travel to endemic areas). Patients may be given Td routinely during 2nd or 3rd trimester if due for booster; if up to date and no history of Tdap, give I dose in immediate postpartum period, although some providers may choose to give Tdap during pregnancy. (1, 3, 4, 5, 7, 8)

#### 9. Have you received any vaccinations in the past 4 weeks?

If the person to be vaccinated was given either live attenuated influenza vaccine (FluMist®) or an injectable live virus vaccine (e.g., MMR, varicella, yellow fever) in the past 4 weeks, they should wait 28 days before receiving another vaccination of this type. Inactivated vaccines may be given at any spacing interval if they are not administered simultaneously.

#### References:

- 1. CDC. General recommendations on immunization. MMWR 2002; 51 (RR-2).
- 2. Table of Vaccine Components: www.cdc.gov/nip/publications/pink/appendices/b/excipient-table-2.pdf.
- CDC. Measles, mumps, and rubella—vaccine use and strategies for elimination of measles, rubella, and congenital rubella syndrome and control of mumps. MMWR 1998; 47 (RR-8).
- 4. CDC. Prevention of varicella: updated recommendations of the ACIP. MMWR 1999; 48 (RR-6).
- 5. CDC. Prevention and control of influenza—recommendations of ACIP, at www.cdc.gov/flu/professionals/vaccination.
- CDC. Excerpt from Guidelines for preventing opportunistic infections among hematopoietic stem cell transplant recipients, MMWR 2000; 49 (RR-10), www.cdc.gov/nip/publications/ hsct-recs.pdf.
- CDC. Notice to readers: Revised ACIP recommendation for avoiding pregnancy after receiving a rubella-containing vaccine. MMWR 2001; 50 (49).
- 8. CDC. Prevention of varicella. MMWR 1996; 45 (RR-11).

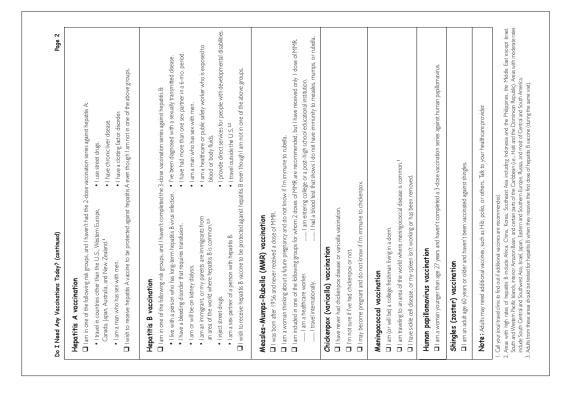


# **Do I Need Any Vaccinations Today?**

Many adults are behind on their vaccinations. This 2-page checklist will help your patients and you determine which vaccinations they need. CDC has reviewed the checklist for accuracy. It is copyright free. You can download full-size copies for your patients' use by going to www.immunize.org/catg.d/4036need.pdf.

For a ready-to-copy 81/2 x 11" version of this 2-page piece, visit www.immunize.org/catg.d/4036need.pdf.

Image 50 years or obtes:	Do I Nee	Do I Need Any Vaccinations Today?  Many adults are behind on their vaccinations. These checklists will he provider determine if you need any vaccinations. Please check the bx	Do I Need Any Vaccinations Today?  Many adults are behind on their vacinations. These checkists will help you and your heathcare provider determine if you need any vaccinations. Please check the boxes that apply to you.
— In wing described the control of the following control or supplier than 28 by years, and one or more of the following control or subsplies to the choice of control or care facility.  — I have described the control of the groups sized above, but I dilike to be vaccinated to avoid getting influenta this season.  — a desare that affects my immune system — a condition that may cause me to choice when I swallow — a desare that affects my immune system — a condition that may cause me to choice when I swallow — a desare that affects my immune system — a condition that may cause me to choice when I swallow — a desare that affects my immune system — I am a household contact or caregiver of a person  — a desare that affects my immune system — a desare that dose. — I am a household contact or caregiver of a person — a desare that dose. — I may one of the fillowing health problems and I (I have ) (I have not) had a previous dose of preunrococcal vaccine. — I have not of the following health problems and I (I have ) (I have not) had a previous dose of preunrococcal vaccine. — I have not of the following health problems and I (I have ) (I have not) had a previous dose of preunrococcal vaccine. — Hold desare — I have not will have dose contact with a child younger than age 65 years and have not that a penassis containing shots in my lifetime, but I befieve it's been 10 years or more size if I ever received my last shot.  — I have not yet had at least 3 teams- and diphtheria-containing shots in cutoficion (e.g., DTP, DTP, DTP, DTP, DTP, DTP, DTP, DTP	Influenza vaccination I na age 50 years or older		
— I wall be pregnant during the influenza season — kidney disease — disease that affects my immune system — a condition that may cause me to choke when I swallow who has one of the groups fisted above, but If dike to be vaccharised to avoid getting influenza this season.  Phearmecoccal vaccination  I am age 65 years or obter and have never had a doze of pneumococcal vacche. — I may express that doze — li tam age 65 years or obter and have never had a doze of pneumococcal vacche. — I may express that doze — heart disease — cochlear indiant — HVAINDS — generalized mailgrancy — dishese — cochlear indiant — HVAINDS — generalized mailgrancy — dishese — cochlear indiant — multiple myeloma — I may specific and man or receiving x-ray treatment — kidney disease — cochlear indiant — multiple myeloma — on medication or receiving x-ray treatment — kidney disease — cochlear indiant — multiple myeloma — on medication or receiving x-ray treatment — kidney disease — on the dishering and pertrussis-containing vaccine as an adult.  I law or or will have dose contact with a child younger than 12 months and have not had a pertussis-containing shots in my lifetime, but I believe it's been 10 years or more since I received my last shot.  I have no idea if I ever received any tetanus—and diphtheria-containing shots in soltool, the milliany, or elsewhere — I have no idea if I ever received my tetanus—and diphtheria-containing shots in soltool, the milliany corporation in proper in received my tetanus—and diphtheria-containing shots in soltool, the milliany or elsewhere    I have no idea if I ever received my tetanus—and diphtheria-containing shots in soltool, the milliany corporation in propertice and my tetanus—and diphtheria-containing shots i	■ I am younger than age 50 years, and lung disease	d one or more of the following (	conditions or situations applies to me: —— I live in a nursing home or chronic care facility.
——HIVALDS ——a disease that affects my immune system ——a more or of the groups listed above, but I dilike to be vaccinated to avoid getting influenza this season.  Preumococcal vaccine  ——a more of the groups listed above, but I dilike to be vaccinated to avoid getting influenza this season.  Preumococcal vaccine ——a more of the groups listed above, but I dilike to be vaccinated to avoid getting influenza this season.  Preumococcal vaccine ——a more of the groups listed above, but I dilike to be vaccinated to avoid getting influenza this season.  Preumococcal vaccine ——and gets system or obter, and have never had a dose of pneumococcal vaccine. ——but desasse (rot astima) ——heart desase ——cerbosoparal fluid leak ——dishetes ——cerbosoparal fluid leak ——cochear implant ——multiple myeloma ——while myeloma ——kidney desasse ——cochear implant ——multiple myeloma ——what my spleen removed ——kidney desass and have not had a pentussis-containing vaccine as an adult.  ——leave or will have dose contact with a child younger than 12 months and have not had a pentussis-containing shots. ——lihave no idea if I ever received my tetanis- and diphtheria-containing shots in solthool, the military, or elsewhere ——I have no idea if I ever received my tetanis- and diphtheria-containing shots in solthool, the military, or elsewhere ——I have no idea if I ever received my tetanis- and diphtheria-containing shots in solthool, the military, or elsewhere ——I have no idea if I ever received my tetanis- and diphtheria-containing shots in solthool, the military, or elsewhere ——I have no idea if I ever received my tetanis- and diphtheria-containing shots in solthool, the military or elsewhere ———————————————————————————————————	heart disease		— I will be pregnant during the influenza season (December-March).
- HIV/AIDS - a disease that affects my immune system - a condition that may cause me to choke when I awallow - a condition that may cause me to choke when I awallow - a condition that may cause me to choke when I awallow - age 65 years or obter, or after a date of pneumococcal vaccine - I am age 65 years or obter, and I have never had a dose of pneumococcal vaccine - I am age 65 years or obter, and I have never had a dose of pneumococcal vaccine - I may age 65 years or obter and have never had a dose of pneumococcal vaccine - I may age 65 years or obter, and I have never had a dose of pneumococcal vaccine - I have to see of the chowing health problems and I (II) have I) (II) have not) had a previous dose of pneumococcal vaccine - I have dosease (not astima) - Hiv/AIDS - generalized malignancy - disbutes - Hostgain's disease - cerebrospical fluid bak - disbutes - Hostgain's disease - cerebrospical fluid bak - disbutes - hard disease - cochear implant - multiple myeloma - had my spher nemoved - when age 65 years and have not had a pertussis-containing vaccine as an adult I have not yet had at least 3 tetrans- and diphtheria-containing shots in cothool, the military, or elsewhere - I have no idea if I ever received my tetrans- and diphtheria-containing shots in sothool, the military, or elsewhere - I have no idea if I ever received my tetrans- and diphtheria-containing shots in sothool, the military or elsewhere	diabetes		— I provide essential community services.
— a disease that affects my firmume system — a condition that may cause me to choke when Iswallow who has one of the differesses led at the left, is not one of the groups listed above, but I dilike to be vaccinated to avoid getting influenza this season.  Preumococcal vaccination  I am age 65 years or older and have never had a doze of pneumococcal vaccine.  I am age 65 years or older and have never had a doze of pneumococcal vaccine.  I am age 65 years or older and had one doze of pneumococcal vaccine.  I may one of the following health problems and I (I have I) (I have not) had a previous dose of pneumococcal vaccine.  I have not the following health problems and I (I have I) (I have not) had a previous dose of pneumococcal vaccine.  I have not not fin following health problems and I (I have I) (I have I) have not) had a previous dose of pneumococcal vaccine.  I have find doses (rot satima)  — HV/AIDS — generalized maligrancy — dishetes — leader find and more dose or pneumococcal vaccine and mannor transpart — cochear inplant — multiple myeloma — had my spher nerrowed — kidney disease — which disease — had not a disputheria—, and perfussis—containing vaccine as an adult.  I have not yet had at least 3 teamus—and diphtheria—containing shots in solthool, the military, or elsewhere  I have no idea if I ever received any teamus—and diphtheria—containing shots in school, the military, or elsewhere    I have no idea if I ever received any teamus—and diphtheria—containing shots in school, the military or elsewhere   I have no idea if I ever received any teamus—and diphtheria—containing shots in school, the military or elsewhere	HIV/AIDS		—— I am a healthcare worker.
Tam not to receive the groups listed above, but I'd like to be vaccinated to avoid getting influenza this season.   Preumococcal vaccination     I am age 65 years or obtar and have never had a dose of pneumococcal vaccine.   I am age 65 years or obtar and have never had a dose of pneumococcal vaccine.   I have not of the following health problems and I (   D have I) ( D have not) had a previous dose of pneumococcal vaccine:   I have not of the following health problems and I ( D have I) ( D have not) had a previous dose of pneumococcal vaccine:   I have not of the following health problems and I ( D have I) ( D have not) had a previous dose of pneumococcal vaccine:   I have not of the following health problems and diphtheria-containing shots in school, the military, or elsewhere.   I have not yet had at least 3 tetranus- and diphtheria-containing shots in school, the military, or elsewhere.   I have no idea if I ever received any tetranus- and diphtheria-containing shots in school, the military, or elsewhere.	a disease that affects my immur a condition that may cause me' (e.g., neuromuscular disorder, a disorder, a disorder, a	ne system to choke when I swallow spinal cord injury, seizure	— I am a household contact or caregiver of a person who has one of the illnesses listed at the left, is age 65 years or older, or is age 0–59 months.
Preumococcal vaccination    an age 65 years or odder and have never had a doze of preumococcal vaccine.   lam age 65 years or odder and had one doze of preumococcal vaccine when I was younger than 65; it has been at least 5 years since that doze.   lam age 65 years or odder and had one doze of pneumococcal vaccine when I was younger than 65; it has been at least 5 years since that doze.   laws one of the following health problems and I (  law e) (  laws not) had a previous doze of pneumococcal vaccine:   laws one of the following health problems and I (  law e) (  laws not) had a previous doze of pneumococcal vaccine:   law feets	☐ I am not in one of the groups listed	above, but I'd like to be vaccina	ated to avoid getting influenza this season.
□ I have note of the following health problems and I (□ have I) (□ have not) had a previous dose of pneumococcal vaccine:  — Inge desizes (not astima) — fiver desizes — creator dose manovitransplant —— had resized —— generalized miligrancy —— displetes —— crebication film to tak —— displetes —— crebication film to tak —— displetes —— sickle call displant —— had my spleen removed —— displetes —— sickle call displant film to tak —— had my spleen removed —— whiphorms —— had my spleen removed —— whiphorms —— had my spleen removed —— whiphorms —— had my spleen removed a my streament —— had my spleen removed my as a manular spleen so an adult.  □ I have not yet had at least 3 tetanus- and diphtheria-containing shots in school, the military, or elsewhere. □ I have not idea if I ever received any tetanus- and diphtheria-containing shots in school, the military or elsewhere. □ I have no idea if I ever received any tetanus- and diphtheria-containing shots in school, the military or elsewhere. □ I have no idea if I ever received any tetanus- and diphtheria-containing shots in school, the military or elsewhere.	Pneumococcal vaccination  lam age 65 years or older, and I hav lam age 65 years or older and had since that dose.	ve never had a dose of pneumo one dose of pneumococcal vao	xxxcal vaccine. cine when I was younger than 65; it has been at least 5
heart disease HN/AIDS generalized malignancy diabetes Lhodgie's disease cerebrosparal fluid leak advolron multiple myeloma lead and disease cochear implant kidney disease multiple myeloma had my spleen removed had pertuasis containing vaccination (e.g., DTP, DToP, Tdop, or Td) have cor will have dose contact with a child younger than 12 months and have not had a pertuasis containing vaccine as an adult have not yet had at least 3 teanus- and diphtheria-containing shots I have no idea if I ever received any teanus- and diphtheria-containing shots in school, the military, or elsewhere I have no idea if I ever received any teanus- and diphtheria-containing shots in school, the military, or elsewhere.	<ul> <li>I have one of the following health presented in the present of the p</li></ul>	roblems and I ( have ) ( hav — liver disease	ve not) had a previous dose of pneumococcal vaccine: — organ or bone marrow transplant
— diabetes — Leukema — Leukema — scelebrospinal fluid leak — accholosism — sickle call disease — cochest mighat my more a — heukema — had my spice net netwerd — had my spice networed a — had my spice networed — had my spice networed a — had my realment — hyphorma — on medicalism or receiving x-ray treatment — spice not may a fact a fact a my had pertursis containing vaccine as an adult.  □ I have not yet had at least 3 teams- and diphtheria-containing shots in my lifetime, but I believe it's been 10 years or more size all ever received my last shot. □ I have no idea all ever received any tetams- and diphtheria-containing shots in school, the military, or elsewhere (commot or page).	heart disease	— HIVAIDS	— generalized malignancy
— alchofsen — leukema — sickle cell disease — alchofsen — multiple myeloma — had my sphen removed — cochlear implant — multiple myeloma — had my sphen removed — whyeloma — had myelsen removed — multiple myeloma — that aldects my immune system  Tetanus-, diphtheria-, and pertussis-containing vaccination (e.g., DTP, DTaP, Tdap, or Td)  I am yourger than age 65 years and have not had a pertussis-containing vaccine as an adult.  I have not yet had at least 3 tetanus- and diphtheria-containing shots.  I have had at least 3 tetanus- and diphtheria-containing shots in my lifetime, but I befewe it's been 10 years or more since I received my last shot.  I have no idea if ever received any tetanus- and diphtheria-containing shots in school, the military, or elsewhere.  (continued or page.)	diabetes	— Hodgkin's disease	— cerebrospinal fluid leak
—.cochlear implant —.multiple myelcona —.nad my sphen removed —.ekthey desease —	alcoholism	—— leukemia	sickle cell disease
Tetanus-, diphtheria-, and perfussis-containing vaccination (e.g., DTP, DTaP, Tdap, or Td)  anyounger than ge 65 years and have not had a perfussis-containing vaccine as an adult.  I have or will have dose contact with child younger than 12 months and have not had a perfussis-containing vaccine as an adult.  I have not yet had at least 3 teanus- and diphtheria-containing shots.  I have that at least 3 teanus- and diphtheria-containing shots in my lifetime, but I befieve it's been 10 years or more since I received my last shot.  I have no idea if I ever received any tetanus- and diphtheria-containing shots in school, the military, or elsewhere.	kidney disease	— multiple myeloma — fymphoma	— had my spleen removed — on medication or receiving x-ray treatm that affects my immune system
<ul> <li>□ I am younger than age 65 years and have not had a pertussis-containing vaccine as an adult.</li> <li>□ I have or will have dose contact with a child younger than 12 months and have not had a pertussis-containing vaccine as an adult.</li> <li>□ I have not yet had at least 3 tetanus- and dipitheria-containing shots.</li> <li>□ I have had at least 3 tetanus- and dipitheria-containing shots in my lifetime, but I believe it's been 10 years or more since I received my last shot.</li> <li>□ I have no idea if I ever received any tetanus- and dipitheria-containing shots in school, the military, or elsewhere.</li> <li>□ I have no idea if I ever received any tetanus- and dipitheria-containing shots in school, the military, or elsewhere.</li> </ul>	Tetanus-, diphtheria-, and	pertussis-containing v	accination (e.g., DTP, DTaP, Tdap, or
<ul> <li>□ Have or will have dose contact with a child younger than 12 months and have not had a pertussis-containing vaccine as an adult.</li> <li>□ Have not yet had at least 3 tetanus- and diphtheria-containing shots.</li> <li>□ Have had at least 3 tetanus- and diphtheria-containing shots in my lifetime, but I believe it's been 10 years or more since I received my last shot.</li> <li>□ Have no idea if I ever received any tetanus- and diphtheria-containing shots in school, the military, or elsewhere.</li> <li>□ Have no idea if I ever received any tetanus- and diphtheria-containing shots in school, the military, or elsewhere.</li> </ul>	I am younger than age 65 years and	I have not had a pertussis-conta	tining vaccine as an adult.
<ul> <li>□ Have notyet had at least 3 tetanus- and diptitheria-containing shots.</li> <li>□ Have had at least 3 tetanus- and diptitheria-containing shots in my lifetime, but I believe it's been 10 years or more since I received my last shot.</li> <li>□ I have no idea if I ever received any tetanus- and diptitheria-containing shots in school, the military, or elsewhere.</li> <li>□ I have no idea if I ever received any tetanus- and diptitheria-containing shots in school. the military, or elsewhere.</li> </ul>	I have or will have dose contact wit	th a child younger than 12 mont	ths and have not had a pertussis-containing vaccine as ar
<ul> <li>□ Have had at least 3 tetrans- and dightheria-containing stots in my lifetime, but I believe it's been 10 years or more since I received my last stot.</li> <li>□ I have no idea if I ever received any tetrans- and dightheria-containing shots in school, the military, or elsewhere.</li> <li>□ I have no idea if I ever received any tetrans- and dightheria-containing shots in school, the military, or elsewhere.</li> </ul>	I have not yet had at least 3 tetanus	s- and diphtheria-containing shot	žį.
I have no idea if I ever received any tetanus- and diphtheria-containing shots in school, the military, or elsewhere.	☐ I have had at least 3 tetanus- and di since I received my last shot.	phtheria-containing shots in my	lifetime, but I believe it's been 10 years or more
	I have no idea if I ever received any	/ tetanus- and diphtheria-contair	



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tance of vaccination. In addition, the card is virtually indestructible, making it valuable to your patients for a lifetime.

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Grand Total \$\_

## Vaccines safeguard women's health: 5 good reasons to vaccinate



Deborah L. Wexler, MD IAC Executive Director

Dear Colleagues,

It's a new day for protecting women from some very serious diseases. Newly licensed vaccines are being recommended for routine use in adults, and this includes the women in your practices. These new vaccines protect women from cervical cancer, genital warts, pertussis, and herpes zoster (shingles). The new pertussis vaccine for adults (Tdap) will also help protect infants from whooping cough when mothers and other family members are vaccinated. If you haven't yet incorporated vaccination into your practices, now would be a *great* time to start.

Human papilloma virus (HPV) vaccine. Approved by FDA in June 2006 for use in females ages 9–26, HPV vaccine begins a new era in cancer prevention. Prelicensure studies show the vaccine is nearly 100 percent effective in protecting recipients against precancerous lesions caused by the HPV-virus types included in this vaccine. Approximately 9,710 U.S. women develop cervical cancer each year, and 3,700 die from it. This vaccine will be lifesaving. It also will protect women from genital warts. CDC's and ACOG's recommendations for the use of HPV vaccine are forthcoming. Refer to the "Resource" section to help you stay up-to-date on new vaccine recommendations.

**Tdap** (tetanus, diphtheria, pertussis) vaccine for adults. Licensed in 2005, Tdap is recommended as a one-time dose for all adolescents and adults younger than age 65. It replaces a single booster dose of Td (tetanus diphtheria vaccine). It's particularly important to give Tdap before a woman becomes pregnant or immediately following delivery to protect infants from deadly pertussis. Tdap is not contraindicated for use during pregnancy if a physician chooses to administer it. CDC recommendations are forthcoming.

**Herpes zoster (Zos) vaccine:** Licensed by FDA in June 2006, this vaccine protects adults from shingles and can be given to persons age 60 years and older. Until official vaccine recommendations are available, consult the package insert for details on its use.

**Influenza vaccine:** Influenza vaccine continues to be recommended for women who will be pregnant during influenza season (December through March). This recommendation has been in place for several years. The vaccine is also recommended for use in any person (older than age 6 months) who desires protection from influenza.

**Hepatitis B vaccine:** Currently recommended for all women age 18 years and younger but excellent at protecting your patients older than age 18 years from a future STD. It can be given at the same visit as HPV vaccine.

#### Resources

There are many national resources available to help you fine-tune your vaccination practices. Please consult the following list and don't hesitate to email IAC if you need additional assistance. We're here to help!

- IAC Express: IAC's free email news service keeps you up-to-date on the latest vaccine recommendations. Sign up at www.immunize.org/express.
- Immunization Techniques: Safe, Effective, Caring (VHS or DVD) www.immunize.org/iztech
- Vaccine Handling & Storage Toolkit (CD-ROM) www.immunize.org/vachandling
- IAC's Adults Only Vaccination: A Step-by-Step Guide www.immunize.org/guide
- IAC's print materials: reviewed by CDC for technical accuracy, ready for you to copy and share with patients and clinic staff www.immunize.org/free
- IAC's immunization website for health professionals (all the resources you need to enhance your immunization services): www.immunize.org
- Contact IAC at admin@immunize.org.

Deborah L. Wexler, MD

Deborah L. Wexler, MD Executive Director deborah@immunize.org

### Please help us prevent disease and save lives. No amount is too small.

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#### Free and fast information

Looking for great information about immunization and viral hepatitis? Then you need a subscription to IAC's reliable and up-to-date electronic newsletters, *IAC Express* and *Hep Express*. The paragraphs below tell you how to subscribe.

#### Sign up for IAC Express!

To subscribe, send an email message to **express@immunize.org** and place the word SUBSCRIBE in the "Subject:" field. You'll receive timely immunization news via email every Monday.

#### Sign up for Hep Express!

Hep Express, a monthly email news service, is filled with important information about the screening, prevention, and treatment of hepatitis A, B, and C. To subscribe, go to: www.hepprograms.org/hepexpress.

August 2006

Immunization saves lives. Your tax-deductible contribution will help hundreds of thousands of health professionals, parents, and patients access reliable immunization information. When you contribute \$75 or more, you'll receive an extensive collection of IAC's ready-to-print materials on a CD in English, as well as any translations available in Spanish. The CD also contains VISs in English and Spanish.

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