STEP 5: Administering Vaccines

VOU HAVE YOUR vaccination supplies, and you have properly stored your vaccine inventory. As you start to assess your patients' vaccination status and history, the gaps in their records remind you why your practice is now incorporating vaccination services. It's time to administer vaccine.

Chances are, many of your patients are behind on their vaccinations and they are grateful that you are helping them get up to date. Even if you are new

STEP-BY-STEP: VACCINE ADMINISTRATION TASKS

- Determine who can administer vaccines (either independently or under standing orders)
- Always provide a Vaccine Information Statement (VIS)
- Administer the vaccine properly
 - Use the proper site for injection
 - Prepare the vaccine (and diluent, if needed)
 - Use the proper needle gauge and length
 - Administer injections by the correct route intramuscular (IM) or subcutaneous (Subcut)
 - Know how to deliver nasal spray vaccine (when recommended)
 - Administer all needed vaccines at the same visit
 - Safely dispose of the needle and syringe and nasal sprayer
 - Avoid vaccine administration errors
- Prepare and watch for an allergic reaction (anaphylaxis) after vaccination
 - Always report anaphylaxis and other adverse events after vaccination to VAERS
- Prepare and watch for syncope (fainting)
- Communicate about appointments for subsequent doses
- Understand proper spacing of doses

atadministering vaccines, don't be intimidated – this will soon be second nature to you.

Determine who can administer vaccines (either independently or under standing orders)

Every state has regulations that specify who can administer vaccines. All states allow physicians, nurse practitioners, and physician assistants to both

> assess the need for and to administer vaccines. All states allow RNs and LPNs to administer vaccines. Most states allow medical assistants (MAs) to give injections after proper training and with supervision. All states allow pharmacists

You'll need to check to see if there are restrictions on the particular vaccine(s) they may administer in your state or if vaccines can be administered under standing orders

to assess the need for and administer one or more vaccines if they have been properly trained and certified. However, you'll need to check to see if there are restrictions on the particular vaccine(s) they may administer in your state or if vaccines can be administered under standing orders. For more information about standing orders and who is eligible to provide vaccination services using them, which might include RNs, pharmacists, and MAs, see the Immunization Action Coalition's (IAC) Using Standing Orders for Administering Vaccines: What You Should Know at www.immunize.org/catg.d/ p3066.pdf. You also should check with your state medical licensing board for the regulations in your practice location. Another great resource is IAC's 10 Steps to Implementing Standing Orders for Immunization in Your Practice Setting available at www.immunize.org/catg.d/p3067.pdf.

Regardless of the local regulations, proper vaccine administration technique is a skill that requires practice. If you have not administered injectable or nasal spray vaccines recently, you should refresh your skills. In addition to watching a vaccine administration video (one example is discussed later in this chapter), you should consider contacting your local health department. Staff there may be able to provide hands-on training with this important procedure, or they can head you in the right direction for guidance.

Always provide a Vaccine Information Statement (VIS)

Since 1994, healthcare providers who administer

VISs are available for all vaccines licensed in the United States, and many are available in multiple languages on the IAC website at www.immunize.org/vis. any vaccine covered by the National Childhood Vaccine Injury Act





(Section 2125 of the Public Health Service Act [42 U.S.C. §300aa-26]) are required to provide a copy of the relevant federal Vaccine Information Statement (VIS) *before* administering most vaccines to a person of any age, including adults. VISs are available for all vaccines licensed in the United States, and many are available in multiple languages on the IAC website at www.immunize.org/vis. A listing of the most current versions for each VIS also may be found on this website. Patients must be offered a copy (which can be an electronic copy) of the VIS to take home with them, though the recipient may decline. (You can learn more about this federal requirement in *Step 6 – Documentation and Related Issues.*) You probably will want to give patients even

more information about the disease that the vaccine prevents, as well as answer any questions they may have.

Remember – if you don't administer the vaccine properly, you might as well not give it at all.

Administer the vaccine properly

Remember – if you don't administer the vaccine properly, you might as well not give it at all. You've gone to a lot of trouble to keep your vaccines "viable," and your patients need this protection. What a waste it would be for the vaccine not to be administered properly!

One common mistake is that too short a needle is used – a subcutaneous "Subcut" needle rather than an intramuscular "IM" needle. When this happens, the vaccine can be injected into fat instead of into muscle. You may hear that some vaccines will usually still work if given via the wrong route and will merely cause greater temporary local discomfort. While that may be true for some, for others, such as hepatitis B, HPV, influenza, and rabies vaccines, the correct route is essential to obtaining an adequate immune response.

We will not be discussing oral vaccines in the *Guide*. The only oral vaccine currently licensed for routine use in the U.S. is rotavirus, which is only administered to infants. In addition, one influenza vaccine (*Fluzone* Intradermal, Sanofi Pasteur) is specifically



licensed for intradermal (into the skin) injection. This vaccine is administered with a specially designed microneedle and syringe

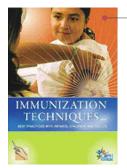
into the deltoid area. If you stock this type of influenza vaccine (it currently is approved only for people 18 through 64 years of age), you should thoroughly acquaint yourself with how to use the injection system by reading the instructions in the product information. No other U.S. vaccine should ever be administered by the intradermal route. (Note that a tuberculin skin test, or PPD, which is administered intradermally, is a diagnostic test – NOT a vaccine.)

IAC's Administering Vaccines to Adults: Dose, Route, Site, and Needle Size, available at www.immunize.org/catg.d/ p3084.pdf, provides a concise guide to help you ensure you are administering vaccines properly. In addition, after you read this chapter, watch the California Department of Pub-



www.immunize.org/ catg.d/p3084.pdf

lic Health's DVD titled Immunization Techniques: Best Practices with Infants, Children, and Adults. The DVD is



www.immunize.org/dvd

available for a nominal charge at www.immunize.org/dvd, or the video may be streamed at www.youtube.com/watch? v=WsZ6NEijlfI. Unlike this *Guide*, which is limited to adult immunization issues, the video

also covers infant and child injections. Watching this video will give you an idea of the differences, as well as the similarities, involved – and will remind you that it really is simpler to vaccinate adults.

Use the proper site for injection

For adult vaccinations, all you need to give an injection is the patient's deltoid muscle in the upper arm, although the muscle in the thigh can be used if necessary. (For infant vaccinations, the thigh is generally used as an injection site.) Except for the intradermal influenza vaccine mentioned above, vaccine injections are either intramuscular (IM) or subcutaneous (Subcut).

- Intramuscular (IM) If you are giving an intramuscular injection, you will inject into the deltoid muscle below the shoulder on the upper arm, or into the thigh muscle.
- Subcutaneous (Subcut) If you are giving a subcutaneous injection, you will inject into the fatty tissue (under the skin and overlying the muscle) on the back of the upper arm.

Additional information about these techniques is available later in this chapter.

Prepare the vaccine (and diluent, if needed)

Information about appropriate preparation for each vaccine is available in the package insert. (IAC maintains a web page which links to all package inserts at **www.immunize.org/packageinserts**.) However, the general steps involved in preparing different vaccine formulations are shown in the box on page 71. Vaccine vials are labeled with the number of doses they contain. If you are using vaccine from a multidose vial, withdraw just the amount required for the dose into the syringe. Single-dose vials are widely used, and manufacturer pre-filled syringes also are available.

Most vaccines administered to adults in the U.S. are provided as a liquid, ready to inject. However, several

Use only the diluent that was shipped to you with the vaccine you are preparing.

adult vaccines (MMR, varicella, *Menveo* [MenACWY], *Bexsero* [MenB] and zoster) require reconstitution of powdered vaccine with a liquid diluent that is supplied by

the manufacturer in a separate vial. The diluent is either saline or sterile water, except for the *Menveo* brand of MenACWY, in which the diluent contains three of the antigenic components of the vaccine. Do not substitute saline, sterile water, or any other liquid from your clinic's general supplies if you misplace a diluent! **Use only the diluent that was shipped to you with the vaccine you are preparing.**

Any dose of vaccine reconstituted with the wrong diluent must be repeated. Additional information on diluents is available in *Vaccines with Diluents: How to Use Them*, found at www.immunize.org/catg.d/ p3040.pdf.

Different vaccines should never be combined in a single syringe, except when specifically approved by the FDA and packaged for that specific purpose.

Most combination vaccines (e.g., MMR or Tdap) will be combined by the manufacturer. Vaccine should *never* be transferred from one

Vaccine should *never* be transferred from one syringe to another.

syringe to another, and partial doses from separate vials should not be combined into a single syringe. Both of these practices increase the risk of contamination. If you are preparing more than one vaccine for a patient, be sure to label which syringe contains which vaccine. A simple way to label the vaccines is to use a silverware tray with permanently labeled separate "slots" for Tdap, influenza, hepatitis B, and other vaccine syringes. Or, keep on hand small sticky labels with vaccine names (these can be preprinted), and attach the appropriate vaccine label to the syringe containing that vaccine.

As discussed in *Step 3: Vaccine Storage and Handling*, you should not reconstitute or fill vaccine syringes in advance. Prepare and draw up vaccine only when you are ready to administer it.



Once you know if an injection will be given IM or Subcut, you can determine what length and gauge needle you need.

Use the proper needle gauge and length

It is critical for vaccine to be deposited into the proper tissue. An intramuscular injection usually requires a longer needle than a subcutaneous (Subcut) injection. Once you know if an injection will be given IM or Subcut, you can determine what length and gauge needle you need.

For almost all IM injections with most adults, you will need a 1"-11/2", 22–25 gauge needle. If a patient is particularly large (i.e., women weighing 200 pounds or more, men weighing 260 pounds or more), you should use a 11/2" needle. For Subcut injections, you will need a 5/8", 23–25 gauge needle for everyone.

STEPS IN PREPARING DIFFERENT VACCINE FORMULATIONS

(adapted from the California Immunization Program's EZIZ resources)

Before You Start Preparing ANY Type of Vaccine

- Wash your hands.
- Gather alcohol pads, the appropriate needle, and, as needed, a syringe.
- Get the vial or syringe of vaccine. (Always double check the vial label to make sure you have the vaccine you want to administer. Vac-

cine vials can look alike or have similar sounding names.)

- Check the vaccine against the clinician's written order or standing order.
- Check that today's date is sooner than the vaccine's expiration date.

Drawing Up LIQUID VACCINE

Single-dose Vial

- Remove plastic cap.
- Shake vial.
- Cleanse stopper with alcohol pad and let it dry.
- Assemble needle and syringe.
- Uncap needle.
- Hold vial steady on counter.
- Insert needle straight into center of vial stopper.
- Invert (turn upside-down) vial and pull needle back so the tip is in the liquid.
- Pull back on plunger and draw up entire contents of vial.
- Withdraw needle.
- Tap syringe and push out air.
- Recap the clean needle.

Pre-filled Syringe

- Shake syringe thoroughly.
- Remove syringe tip cover.
- Attach needle to syringe.

Preparing RECONSTITUTED VACCINE

Mixing the Vaccine

- Remove plastic caps.
- Cleanse stoppers with alcohol pad and let dry.*
- Assemble needle and syringe.
- Hold diluent vial steady on counter.
- Insert needle straight into center of vial stopper.
- Invert (turn upside-down) vial and pull needle back so the tip is in the liquid.
- Draw up all diluent into syringe and then withdraw needle.
- Hold vaccine vial steady on counter.
- Insert needle into center of stopper.
- Inject diluent.
- Holding vial and syringe together, shake to mix.
- * Be sure MMR, varicella, MMRV, and Zostavax vial stoppers are thoroughly dry. Alcohol may damage these live vaccines.

Administer injections by the correct route – intramuscular (IM) or subcutaneous (Subcut)

There are several reasons for differentiating between IM and Subcut injections. Subcut doses are absorbed more slowly than IM doses. If you give an IM vaccine subcutaneously by mistake, the antibody "titers" (the level of antibodies in a blood sample) that result may be lower than they otherwise would be, and the injection also may be more painful. Some vaccines that contain an "adjuvant" (an ingredient that enhances the immune response to the antigens) must be given IM to avoid the local irritation, inflammation, or other reactions that can occur if they are administered subcutaneously. For our purposes, the important thing to remember is that the type of injection matters. It is not arbitrary.

Intramuscular (IM) injections

Intramuscular injections are administered into the deltoid muscle, which is a large triangular muscle that wraps over the shoulder into the upper arm. For vaccine injections, use the center part of the deltoid, usually about two finger-breadths below the acromion process (bony prominence above the deltoid) and above armpit-level in the upper arm.

Proper deltoid injection is critical in order not to hit the underlying bone, blood vessels, and nerves.

It seems like a large "target," but proper deltoid injection is critical in order not to hit the underlying bone, shoulder cap-

sule, blood vessels, and nerves. If you have never given an IM injection or haven't given one for a long time, you should refresh your skills by watching a video and having hands-on, supervised practice before you attempt it.

Grasp the muscle between the thumb and fingers of your non-injecting hand. The needle should then be inserted perpendicular (that is, at a 90-degree angle) to the skin into the thickest part of the muscle. Insertion should be quick yet firm and steady.



IM in deltoid: 90-degree angle; 1" or longer needle

After the needle is inserted (to the hub of the needle), depress the plunger steadily, and then withdraw the needle quickly.

Vaccines that • Hepatitis A are given via intramuscular (IM) injection

- Hepatitis B
- Human papillomavirus (HPV)
- Influenza, inactivated (exception: intradermal formulation)
- Meningococcal conjugate (Men ACWY)
- Meningococcal serogroup B (MenB)
- Pneumococcal conjugate (PCV)
- Pneumococcal polysaccharide (PPSV) (also can be given Subcut)
- Polio (also can be given Subcut)
- Shingrix (zoster, shingles)
- Tdap/Td

Subcutaneous (Subcut) injections

To administer a vaccine with a subcutaneous injection, you want to "pinch up" the subcutaneous (fatty) tissue on the back of the upper arm with your non-injecting hand and inject the needle at a 45-degree angle into the fat – a much narrower angle than that for an IM injection. Insert the needle all the way to the hub of the needle.

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Subcut in outer arm: 45-degree angle; 5/8" needle

- Vaccines that MMR are given via subcutaneous (Subcut) injection
- - Pneumococcal polysaccharide (also can be given IM)
 - Polio (also can be given IM)
 - Varicella (chickenpox)
 - Zostavax (zoster, shingles)

For both IM and Subcut injections, expose the entire area of the upper arm so that the sleeve does not obstruct the injection site. Wipe the injection area with an alcohol swab to clean away skin dirt (this prevents the needle from pushing skin dirt into the tissue), using an outward spiraling motion in a circle from the center to a two- or three-inch diameter.

Although you may wear gloves if you choose to, they are not required for giving injections.

Although you may wear gloves if you choose to, they are not required for giving injections. If you choose to wear gloves, they must be changed between every patient. Your hands should always be cleaned with soap and water or an alcohol-based waterless antiseptic before vaccine preparation, between patients, and any other time hands become soiled.

You should always have patients sit down for both IM and Subcut injections. Occasionally, a patient may feel faint at the sight of a needle or during an injection; if the patient is sitting instead of standing, this will lessen the chance of the patient falling.

Know how to deliver nasal spray vaccine (when recommended*)

Live attenuated influenza vaccine (LAIV - FluMist, MedImmune), licensed for adults through age 49 years, is given by the intranasal route using a special sprayer. Half of the vaccine is sprayed into each nostril. A plastic clip on the plunger divides the dose into two equal parts. The patient should be seated in an upright position. Instruct the patient to breathe normally. Gently place a hand behind the patient's head. The tip of the nasal sprayer should be inserted slightly into the nasal passage. Half of the contents of the sprayer (0.1 mL) is sprayed into the first nostril. The dose-divider clip is then removed and the procedure is repeated in the other nostril. The dose does not need to be repeated if the patient coughs or sneezes. Consult the package insert for additional information on the nasal administration of LAIV.

*NOTE: As of this writing, use of LAIV is not recommended by ACIP for the 2017-2018 influenza season. Follow ACIP guidance for each season's recommendations.

Administer all needed vaccines at the same visit

The Recommended Adult Immunization Schedule, found at www.cdc.gov/vaccines/schedules/ downloads/adult/adult-combined-schedule.pdf, is complicated by a variety of factors. Most vaccines require more than one dose to create the proper immune response. Also, if you are giving different live attenuated vaccines, they either must be administered on the same day or be separately administered at least 4 weeks apart, in order to reduce immune response interference. For adults, the most

common combination of live vaccines would involve MMR, varicella, and/or LAIV, in which case you need to take extra care in "dose spacing." It's always best to give live vaccines at the same visit. If this is not possible for some reason, space them at least 4 weeks apart.

Simultaneous administration is encouraged because it is convenient and efficient for both patient and provider.

Administration of doses of multiple vaccines at a single visit does not result in decreased

antibody responses or increased reactions. In fact, simultaneous administration is encouraged because it is convenient and efficient for both patient and provider.



www.eziz.org/ assets/docs/IMM-718A.pdf Consider using "site maps" to standardize specific vaccination locations (limb choice) on your patients. Use of a site map (such as the California Immunization Program's *Immunization Site Map* found at www.eziz.org/ assets/docs/IMM-718A.pdf) can simplify the process of administering vaccines by reducing onthe-spot decision-making about

which limb to use for a particular vaccine. It also can make identification of the cause of a localized reaction easier because you will know exactly where you injected each vaccine. A site map creates consistency within your clinic practice and assists you in documenting the site of administration along with the vaccine and dose in your patient's chart.

If you are giving two injections, the patient may prefer one in each arm. If you are giving three or more injections, you will need to give the patient at least two in the same arm. The distance between IM injection sites in the same extremity should be at least 1 inch apart, if possible. When administering Tdap or Td, you may want to give it in an arm by itself because it is known to cause more soreness and swelling than other vaccines. Two different Subcut injections can be given in opposite arms, unless the patient wants both in the same one. In that case, the Subcut injections also should be administered at least 1 inch from each other.

Safely dispose of the needle and syringe and nasal sprayer

After you have administered a vaccine by injection, remove the needle from the patient in a smooth motion at the same angle at which you inserted it.



Do *not* recap the needle after use. Immediately discard the used needle (still attached to the syringe) into a sharps container.

Do *not* recap the needle after use. Immediately discard the used needle (still attached to the syringe) into a sharps container, keeping your eyes on the needle continuously until it is placed into the container. This is part of Occupational Safety and Health Administration safety protocol. Needlestick injuries are serious, and they must be prevented.

Apply pressure to the injection site with a cotton ball or gauze, and put an adhesive bandage over it if blood is present.

Nasal sprayers also should be disposed in a sharps container.

Consult with your clinic's waste disposal service regarding the frequency of pick-up and replacement of sharps containers. Vaccine administration errors are not acceptable, and procedures should be in place in your clinic to prevent them.



Avoid vaccine administration errors

A vaccine administration error is a situation where a patient receives the wrong vaccine, receives the vaccine by an incorrect route, receives the wrong dosage, or receives a vaccine that is expired or reconstituted with the wrong diluent. Vaccine administration errors are not acceptable, and procedures should be in place in your clinic to prevent them.

The "Rights of Medication Administration" outlined in the Centers for Disease Control and Prevention (CDC) "Pink Book" at www.cdc.gov/vaccines/ pubs/pinkbook/vac-admin.html should be applied to each encounter when vaccines are administered. These rights include:

- the right patient;
- the right vaccine and diluent (when applicable);
- the right time;*
- the right dosage;
- the right route, needle length, and technique;
- the right site; and
- the right documentation.

* Includes administering at the correct age, the appropriate interval, and before vaccine or diluent expires

Additional information may be found in an article written by IAC's Deborah L. Wexler, MD, *Know the "7 Rights" of Vaccine Administration* (available at www.immunize.org/technically-speaking/ 20141101.asp).

Stop Vaccine Administration Errors Before They Happen!

- When suitable for your situation, consult staff in choosing the vaccine products to be used in your facility. Different brands of the same vaccine can have different schedules, age indications, or other indications. Stocking multiple brands might lead to staff confusion and vaccine administration errors.
- Use standardized abbreviations to avoid confusion about which vaccines have been administered. A list of standard abbreviations is available at www.cdc.gov/vaccines/acip/committee/guidance/ vac-abbrev.html.
- Keep current reference materials available for staff on each vaccine used in your facility. Keep reference sheets for timing and spacing, recommended sites, routes, and needle lengths posted for easy reference in your vaccine preparation area.
- Rotate vaccines so that those with the shortest expiration dates are in the front of the storage unit. Use these first, and frequently check the storage unit to remove any expired vaccine.
- Consider the potential for product mix-ups when storing vaccines. Consider color-coding labels on vaccine storage containers and/or including the vaccine type and age indications. Keep vaccine diluents conveniently located.
- Administer only vaccines that YOU have prepared for administration. Triple check your work before you administer a vaccine, and ask other staff to do the same.
- Avoid interruptions when selecting and preparing the appropriate vaccine(s) for administration.
- Educate parents and patients about vaccines to be administered and on how important it is for them to keep a copy of immunization records on all family members. An educated patient may notice a potential error and help prevent it.

If an adverse event occurs following the administration of a vaccine, a report should be submitted to the *Vaccine Adverse Event Reporting System* (VAERS).

If an adverse event occurs following the administration of a vaccine, a report should be submitted to the *Vaccine Adverse Event Reporting System* (VAERS) at https://vaers.hhs.gov/index. Adverse events should be reported to VAERS regardless of whether or not a healthcare professional thinks the adverse event was related to the vaccine, as long as it follows administration of a dose of vaccine.

The Institute for Safe Medication Practices (ISMP), the nation's only 501(c)(3) nonprofit organization devoted entirely to medication error prevention and safe medication use, maintains a website to report vaccine administration errors. The Vaccine Errors Reporting Program (VERP), found at http://verp. ismp.org, was created to allow healthcare professionals and patients to report vaccine errors confidentially. By collecting and quantifying information about these errors, ISMP will be better able to advocate for changes in vaccine names, labeling, or other appropriate modifications that could reduce the likelihood of vaccine errors in the future. We encourage providers to report vaccine administration errors to ISMP. Vaccine administration errors also should be reported to VAERS.



Prepare and watch for an allergic reaction (anaphylaxis) after vaccination

Some localized itching, swelling, and/or redness for a day or two following any injection is normal and should not cause alarm. Live attenuated vaccines

sometimes are followed by systemic symptoms, such as generalized mild rash or low-grade fever, a week or two after vaccination. But what must be treated promptly is an

You should always have and practice an emergency plan in the unlikely event of an allergic reaction.

acute allergic reaction (anaphylaxis) caused by a vaccine. You should always have and practice an emergency plan in the unlikely event of an allergic reaction.

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– www.immunize.org/catg.d/ p4065.pdf

Thorough screening using a contraindications checklist usually prevents allergic reactions to vaccines. IAC's Screening Checklist for Contraindications to Vaccine for Adults,

available at www.immunize.org/catg.d/p4065.pdf offers a helpful tool for conducting this screening. Acute anaphylactic reactions are extremely rare, occurring after approximately 1 out of every 500,000 doses of vaccine. However, when they do occur, you MUST take immediate action. Anaphylaxis is lifethreatening. If you administer vaccines you must have and practice an emergency plan. For example, IAC's Medical Management of Vaccine Reactions in Adult Patients, available at www.immunize.org/ catg.d/p3082.pdf, includes standing orders for management of anaphylactic reactions in adults. In addition, no vaccine should ever be administered if epinephrine and the other emergency supplies are not on hand and if staff are not familiar with the anaphylaxis protocol and with cardiopulmonary resuscitation (CPR).

After you have administered any vaccine, instruct the patient to immediately report any itching, redness (with or without hives reaction), difficulty breathing, or abdominal pain that occurs following the injection.

Always report anaphylaxis and other adverse events after vaccination to VAERS

Anaphylaxis, any event listed on the VAERS Table of Reportable Events Following Vaccination found at https://vaers.hhs.gov/docs/VAERS_Table_of_Report able_Events_Following_Vaccination.pdf, or any other adverse event requiring medical attention within 30 days after receipt of a vaccine must be reported to VAERS. Reporting is a requirement of the National Vaccine Injury Compensation Program. It is not necessary for you to be certain that the event was related to the vaccination in order to report it.

Prepare and watch for syncope (fainting)

Syncope (fainting) can occur after vaccination and is most common among adolescents and young adults. Syncope can lead to serious injuries, including skull fracture and cerebral hemorrhage. Among all age groups, 80 percent of reported syncopal episodes occur within 15 minutes of vaccine administration.

Providers should take appropriate measures to prevent injuries during vaccination. To lessen the likelihood of patients becoming weak or fainting, adolescents and adults should be seated or lying down during vaccination. Vaccine providers, particularly when vaccinating adolescents, should consider observing patients (with patients seated or lying down) for 15 minutes after vaccination to decrease the risk for injury should they faint. If syncope develops, patients should be managed according to the guidance provided in IAC's *Medical Management* of *Vaccine Reactions in Adult Patients*, available at www.immunize.org/catg.d/p3082.pdf, until the symptoms resolve.

Communicate about appointments for subsequent doses

Before the patient leaves the clinic, be sure to schedule the patient's next appointment if subsequent doses are needed. Give the patient a personal vaccination record such as IAC's wallet-sized *Adult Immunization Record Card*, available for a nominal charge at www.immunize.org/shop/record-cards.asp. Sample cards are available for the asking at admininfo@immunize.org. Record the doses given

Before the patient leaves the clinic, be sure to schedule the patient's next appointment if subsequent doses are needed.



and dates the patient should return for subsequent doses. While you are at it, be sure to give your patient a copy of *Vaccinations for Adults – You're Never Too Old to Get Vaccinated!* found at www.immunize.org/ catg.d/p4030.pdf. This handout will give patients basic information about other vaccinations they might still need now or in the future – and explains when they will need them.

Understand proper spacing of doses

For the most current guidelines on vaccine dose intervals, see the "Schedule for Vaccine Administration" column of IAC's *Summary of Recommendations for Adult Immunization* located at www.immunize. org/catg.d/p2011.pdf. Increasing the interval between doses in a 2-dose or 3-dose series will not diminish the effectiveness of the vaccine, but may delay protection against disease. You do not need to start a series over if a delay has occurred. However, you should not decrease the interval for patient scheduling convenience; this could prevent a full antibody response from occurring.

You do not need to start a series over if a delay has occurred.

MMR and varicella are live attenuated vaccines. The response to these vaccines can be reduced or negated if your patient has recently received a blood product containing immune globulin (such as a blood or plasma transfusion, or immune globulin for exposure to hepatitis). MMR and varicella vaccines should be delayed if your patient has recently received certain blood products. The length of the delay depends on the blood product the person received (up to 11 months for some blood products). Note that similar waiting periods are not required for *Zostavax* vaccine, even though it is a live attenuated vaccine like MMR and varicella. That's because the amount of antigen in *Zostavax* vaccine is so substantial that it overpowers any antibody to herpes zoster that may be in the blood product. A full discussion of this issue is beyond the scope of this *Guide*. More information on this topic is available in the Advisory Committee on Immunization Practices (ACIP) *General Best Practice Guidelines for Immunization* located at www.cdc.gov/vaccines/hcp/aciprecs/general-recs/downloads/general-recs.pdf.

To review the basics of vaccine administration covered in the *Guide* and in the *Immunization Techniques* video, make a copy of the *Skills Checklist for Immunization* found at www.immunize.org/catg.d/ p7010.pdf and fill out the self-assessment section. Supervisors can use the two-page *Checklist* to help assure that staff are fully trained in providing immunizations. CDC's *Epidemiology and Prevention* of Vaccine-Preventable Diseases ("The Pink Book"), available at www.cdc.gov/vaccines/pubs/pinkbook/ index.html, also includes an excellent chapter on vaccine administration. Another great resource is CDC's e-Learn program on vaccine administration, available at www.cdc.gov/vaccines/hcp/admin/ resource-library.html.

STEP 5: ADMINISTERING VACCINES Materials and Resources for You to Use

TOOLS FOR PROVIDERS

Administering Vaccines to Adults: Dose, Route, Site, and Needle Size (IAC) www.immunize.org/catg.d/p3084.pdf

How to Administer Intramuscular and Subcutaneous Vaccine Injections to Adults (IAC) www.immunize.org/catg.d/p2020a.pdf

How to Administer Intramuscular, Intradermal, and Intranasal Influenza Vaccines (IAC) www.immunize.org/catg.d/p2024.pdf

Immunization Site Map (CDPH) www.eziz.org/assets/docs/IMM-718A.pdf

Immunization Techniques: Best Practices with Infants, Children, and Adults (IAC) www.immunize.org/dvd

Medical Management of Vaccine Reactions in Adult Patients (IAC) www.immunize.org/catg.d/p3082.pdf

Rights of Medication Administration (CDC) www.cdc.gov/vaccines/pubs/pinkbook/downloads/ vac-admin.pdf

Skills Checklist for Immunization (IAC) www.immunize.org/catg.d/p7010.pdf

Summary of Recommendations for Adult Immunization (IAC) – www.immunize.org/catg.d/p2011.pdf

Vaccine Administration e-Learn (CDC) www.cdc.gov/vaccines/hcp/admin/resourcelibrary.html

Vaccine Administration Record for Adults (IAC) www.immunize.org/catg.d/p2023.pdf

NOTE: The publisher of each resource is shown as an acronym in the parentheses following the title. A key to these acronyms is included in *Appendix A: Acronyms and Abbreviations*.

Vaccine Adverse Event Reporting System (VAERS) (HHS) – https://vaers.hhs.gov/index

Vaccine Errors Reporting Program (VERP) (ISMP) http://verp.ismp.org

Vaccine Information Statements (VISs) and Translations (IAC) – www.immunize.org/vis

Vaccines with Diluents: How to Use Them (IAC) www.immunize.org/catg.d/p3040.pdf

VAERS Table of Reportable Events Following Vaccination (HHS) – https://vaers.hhs.gov/docs/VAERS_ Table_of_Reportable_Events_Following_Vaccination.pdf

Additional Provider Resources

ACIP General Best Practices Guidelines for Immunization (CDC) – www.cdc.gov/vaccines/hcp/aciprecs/general-recs/downloads/general-recs.pdf

Know the "7 Rights" of Vaccine Administration (IAC) www.immunize.org/technically-speaking/20141101.asp

Recommended Adult Immunization Schedule, United States (CDC) – www.cdc.gov/vaccines/ schedules/downloads/adult/adult-combinedschedule.pdf

INFORMATION FOR PATIENTS

Adult Immunization Record Card (IAC) www.immunize.org/shop/record-cards.asp

Vaccinations for Adults – You're Never Too Old to Get Vaccinated! (IAC) www.immunize.org/catg.d/p4030.pdf

General Information

Immunization Action Coalition (IAC) www.immunize.org

www.immunize.org/catg.d/p3084.pdf

Administering Vaccines to Adults: Dose, Route, Site, and Needle Size

VACCINE	DOSE ROUTE	
Hepatitis A (HepA)	≤18 yrs: 0.5 mL ≥19 yrs: 1.0 mL	IM
Hepatitis B (HepB)	≤19 yrs: 0.5 mL ≥20 yrs: 1.0 mL	IM
HepA-HepB (Twinrix)	≥18 yrs: 1.0 mL	IM
Human papillomavirus (HPV)	0.5 mL	IM
Influenza, live attenuated (LAIV)	0.2 mL (0.1 mL into each nostril)	NAS (Intranasal spray)
Influenza, inactivated (IIV) and recombinant (RIV)	0.5 mL	IM
Influenza (IIV) Fluzone Intradermal, for ages 18 through 64 years	0.1 mL	ID (Intradermal)
Measles, Mumps, Rubella (MMR)	0.5 mL	SubCut
Meningococcal conjugate (MenACWY)	0.5 mL	IM
Meningococcal protein (MenB)	0.5 mL	IM
Meningococcal serogroup B (MenB)	0.5 mL	IM
Meningococcal polysaccharide (MPSV)	0.5 mL	SubCut
Pneumococcal conjugate (PCV13)	0.5 mL	IM
Pneumococcal polysaccharide (PPSV)	0.5 mL	IM or SubCut
Tetanus, Diphtheria (Td) with Pertussis (Tdap)	0.5 mL	IM
Varicella (VAR)	0.5 mL	SubCut
Zoster (HZV)	0.65 mL	SubCut

Subcutaneous (SubCut) injection - Use a 23-25 gauge, 5/8" needle.

Intramuscular (IM) injection – Use a 22–25 gauge needle. Inject in deltoid muscle of arm. Choose the needle length as indicated below:

Needle Length

5/8"*-1"

1"

1-1¹/2"

1¹/2"

Inject in fatty tissue over triceps.

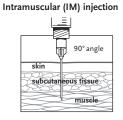
Female or male less than 130 lbs Female or male 130–152 lbs

Gender/Weight

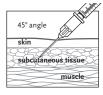
Female 153-200 lbs

Male 153–260 lbs Female 200+ lbs

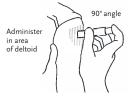
Male 260+ lbs



Subcutaneous (SubCut) injection



Intradermal (ID) administration of Fluzone ID vaccine



Intranasal (NAS) administration of Flumist (LAIV) vaccine



NOTE: Always refer to the package insert included with each biologic for complete vaccine administration information. CDCS Advisory Committee on Immunization Practices (ACIP) recommendations for the particular vaccine should be reviewed as well. Access the ACIP recommendations at www.immunize.org/acip.



Injection Site

Needle Size

and

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* A⁵/8" needle may be used for patients weighing less than 130 lbs (<60 kg) for IM injection in the deltoid muscle **only** if the subcutaneous tissue is not bunched and the injection is made at a 90-degree angle.

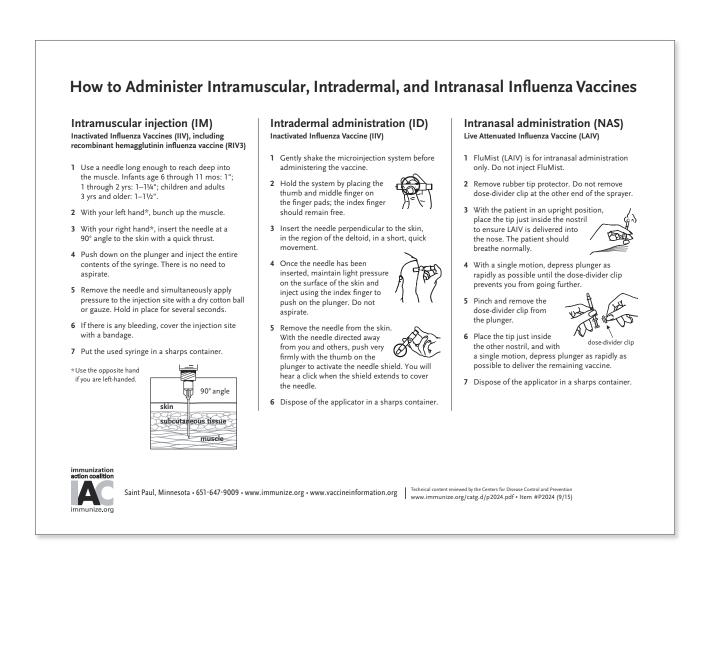
www.immunize.org/catg.d/p3084.pdf • Item #P3084 (9/15)



www.immunize.org/catg.d/p2020a.pdf

How to Administer Intramuscular and Subcutaneous Vaccine Injections to Adults Intramuscular (IM) Injections Administer these vaccines via IM route • Haemophilus influenzae type b (Hib) Hepatitis A (HepA) Hepatitis B (HepB) acromion process Human papillomavirus (HPV) (bony prominence above deltoid) Influenza vaccine, injectable (IIV) level of armpit Influenza vaccine, recombinant (RIV3) Meningococcal conjugate (MCV4) IM injection site (shaded area = deltoid muscle) Meningococcal serogroup B (MenB) Pneumococcal conjugate (PCV13) Pneumococcal polysaccharide (PPSV23) elbow _ may also be given Subcut Polio (IPV) - may also be given Subcut • Tetanus, diphtheria (Td), or with pertussis (Tdap) Injection site 90° angle T Give in the central and thickest portion of the deltoid skin muscle - above the level of the armpit and approximately subcutan ous tissue 2-3 fingerbreadths (~2") below the acromion process. See the diagram. To avoid causing an injury, do not inject muscle too high (near the acromion process) or too low. Needle size Note: A 5/8" needle is sufficient in adults weighing less than 130 lbs 22-25 gauge, 1-11/2" needle (see note at right) (<60 kg) for IM injection in the deltoid muscle only if the subcutaneous tissue is not bunched and the injection is made at a 90° angle; Needle insertion a 1" needle is sufficient in adults weighing 130-152 lbs (60-70 kg); • Use a needle long enough to reach deep into the muscle. a 1-11/2" needle is recommended in women weighing 153-200 lbs Insert the needle at a 90° angle to the skin with a quick (70–90 kg) and men weighing 153–260 lbs (70–118 kg); a $1^{1\!/\!2"}$ needle thrust is recommended in women weighing more than 200 lbs (91 kg) or men weighing more than 260 lbs (more than 118 kg). · Separate two injections given in the same deltoid muscle by a minimum of 1". Subcutaneous (Subcut) Injections Administer these vaccines via Subcut route Measles, mumps, rubella (MMR) Meningococcal polysaccharide (MPSV4) Pneumococcal polysaccharide (PPSV23) – may also be given IM acromion process Polio (IPV) – may also be given IM Varicella (Var; chickenpox) Zoster (HZV; shingles) Subcut injection site (shaded area) Injection site Give in fatty tissue over the triceps. See the diagram. lbow Needle size 23–25 gauge, 5/8" needle 45° angle Needle insertion skir Pinch up on the tissue to prevent injection into the subcutaneous tissue muscle. Insert the needle at a 45° angle to the skin. Separate two injections given in the same area of fatty muscle tissue by a minimum of 1". immunization action coalition Technical content reviewed by the Centers for Disease Control and Prevention Saint Paul, Minnesota • 651-647-9009 • www.immunize.org • www.vaccineinformation.org www.immunize.org/catg.d/p2020a.pdf • Item #P2020a (11/15) munize.org

www.immunize.org/catg.d/p2024.pdf



www.immunize.org/catg.d/p3040.pdf

Vaccines with Diluents: How to Use Them

Be sure to reconstitute the following vaccines correctly before • Only use the diluent provided by the manufacturer for that administering them! Reconstitution means that the lyophilized (freeze-dried) vaccine powder or wafer in one vial must be reconstituted (mixed) with the diluent (liquid) in another.

- vaccine as indicated on the chart.
- ALWAYS check the expiration date on the diluent and vaccine. NEVER use expired diluent or vaccine.

Vaccine product name	Manufacturer	Lyophilized vaccine (powder)	Liquid diluent (may contain vaccine)	Time allowed between reconstitution and use, as stated in package insert*	Diluent storage environment
ActHIB (Hib)	Sanofi Pasteur	Hib	0.4% sodium chloride	24 hrs	Refrigerator
Hiberix (Hib)	GlaxoSmithKline	Hib	0.9% sodium chloride	24 hrs	Refrigerator or room temp
Imovax (RAB _{HDCV})	Sanofi Pasteur	Rabies virus	Sterile water	Immediately [†]	Refrigerator
M-M-R II (MMR)	Merck	MMR	Sterile water	8 hrs	Refrigerator or room temp
MenHibrix (Hib-MenCY)	GlaxoSmithKline	Hib-MenCY	0.9% sodium chloride	Immediately [†]	Refrigerator or room temp
Menomune (MPSV4)	Sanofi Pasteur	MPSV4	Distilled water	Single-dose vial: Immediately† Multidose vial: 35 days	Refrigerator
Menveo (MenACWY)	GlaxoSmithKline	MenA	MenCWY	8 hrs	Refrigerator
Pentacel (DTaP-IPV/Hib)	Sanofi Pasteur	Hib	DTaP-IPV	Immediately [†]	Refrigerator
ProQuad (MMRV)	Merck	MMRV	Sterile water	30 min	Refrigerator or room temp
RabAvert (RAB _{PCECV})	GlaxoSmithKline	Rabies virus	Sterile water	Immediately [†]	Refrigerator
Rotarix (RV1)‡	GlaxoSmithKline	RV1	Sterile water, calcium carbonate, and xanthan	24 hrs	Refrigerator or room temp
Varivax (VAR)	Merck	VAR	Sterile water	30 min	Refrigerator or room temp
YF-VAX (YF)	Sanofi Pasteur	YF	0.9% sodium chloride	60 min	Refrigerator
Zostavax (HZV)	Merck	HZV	Sterile water	30 min	Refrigerator or room temp

Always refer to package inserts for detailed instructions on reconstituting specific vaccines. In general, follow the steps below.

- For single-dose vaccine products (exception is Rotarix²), select a syringe and needle of proper length to be used for both reconstitution, and administration of the vaccine. Following reconstitution, Menomune in a multidose vial will require a new needle and withdrawing entire contents, and withdrawing entire contents, and 1 For single-dose vaccine products (exception is syringe for each dose of vaccine to be administered. For Rotarix, see the package insert.[‡]
- 2 Before reconstituting, check labels on both the lyophilized vaccine vial and the diluent to verify that they are the correct two products to mix together,
 the diluent is the correct volume (especially for Menomune in the multidose vial), and neither the vaccine nor the diluent has expired.
- injecting diluent into lyophilized vaccine vial and
- rotating or agitating to thoroughly dissolve the lyophilized powder. 4 Check the appearance of the reconstituted vaccine.
- Reconstituted vaccine may be used if the color and appearance match the description on the package
 - insert. If there is discoloration, extraneous particulate matter, obvious lack of resuspension, or the
- department immunization program or the vaccine manufacturer. 5 If reconstituted vaccine is not used immediately or comes in a multidose vial (i.e., multi-dose Meno mune), be sure to • clearly mark the vial with the date and time the
 - vaccine was reconstituted, maintain the product at 2°-8°C (36°-46°F); do not

vaccine cannot be thoroughly mixed, mark the vial as "DO NOT USE," return it to proper storage conditions, and contact your state or local health

- freeze, and
- use only within the time indicated on chart above

* If the reconstituted vaccine is not used within this time period, it must be discarded. The decoupling of the guidance. If a not used month of a month of the decoupling of the decoupling of the decoupling of the guidance. If a define s "immediately" as within 30 minutes or less. 1 Rotarix vaccine is administered by mouth using the applicator that contains the diluent. It is not administered as an injection.

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www.immunize.org/catg.d/p3082.pdf

Adult airways (small, medium, and large)
Adult size pocket mask with one-way
valve

□ Stethoscope □ Sphymomanometer (blood pressure measuring device) with adult-size and extra-large cuffs

Flashlight with extra batteries (for examination of the mouth and throat)

Wristwatch with a second hand or other timing device

Cell phone or access to onsite phone

* Applied on the extremity above the injection site to slow systemic absorption of antigen and anaphylactic mediators

REFERENCES Simons FE, Camargo CA. Anaphylaxis: Rapid recognition and treatment. In: UpToDate, Bochner BS (Ed). UpToDate: Waltham, MA, 2013. Boyce JA, Assa'ad A, Burks AW, et al. Cuidelines for the Diagnosis and Management of Food Allergy in the United States: Report of the NIAID-Sponsored Expert Panel. Allergy Clin Immunol 2010: 126(6): 51–557

Alcohol wipes Tourniquet³

□ Oxygen (if available)

□ Tongue depressors

REFERENCES

2010; 126(6): S1-S57.

Medical Management of Vaccine Reactions in Adult Patients

All vaccines have the potential to cause an adverse reaction. In order to minimize adverse reactions, patients should be carefully screened for precautions and contra-indications before vaccine is administered (see www. immunize.org/catg.d/p3072.pdf). Even with careful screening, reactions may occur. These reactions can vary from trivial and inconvenient (e.g., soreness, itching) to severe and life threatening (e.g., anaphylaxis). Vaccine providers should be familiar with identifying

mediate-type allergic reactions, including anaphylaxis and be competent in treating these events at the time of vaccine administration. Providers should also have a plan in place to contact emergency medical services immediately in the event of a severe acute vaccine reaction. Maintenance of the airway, oxygen administration, and intravenous normal saline might be necessary. The table below describes procedures to follow if various reactions occur.

REACTION	SYMPTOMS	MANAGEMENT		
Localized	Soreness, redness, itching, or swelling at the injection site	ess to the injection site. analgesic (pain reliever) or h) medication.		
	Slight bleeding	Apply an adhesive co	ompress over the injection site.	
	Continuous bleeding	maintain direct and	gauze pads over site and firm pressure; raise the bleed- g., arm) above the level of the	
Psychological fright and	Fright before injection is given	Have patient si		
syncope (fainting)	Extreme paleness, sweating, coldness of the hands and feet, nausea, light- headedness, dizziness, weakness, or visual disturbances	Have patient lie for several min and maintain a cloths to patier	Medical Management of Vaccine	Emergency medical proto
	Fall, without loss of consciousness	Examine the pa present before Place patient fla	community immunization clinic FIRST-LINE medication Epinephrine, aqueous 1:1000 (i.e., 1 mg/mL) dilution, in ampules, vials of	reactions in adults If itching and swelling are cor was given, observe patient clos If symptoms are generalized,
	Loss of consciousness	Check the patie before attempti patient flat on t patient does no	solution, or prefilled syringes, including epinephrine autoinjectors (e.g., EpiPen and Auxi-Q). If autoinjectors are stocked, at least three should be available. Optional medication: H, antihistamines	If symptoms are generalized, e.g., call 911) and notify the pi second person, while the prim breathing, circulation, and lev should be monitored continuo
Anaphylaxis	Sudden or gradual onset of generalized itching, erythema (redness), or urticaria (hives); angioedema (swelling of the	See "Emergenc ment of Anaphy next page for de	 Diphenhydramine (e.g., Benadryl) oral (12.5 mg/5 mL liquid, 25 or 50 mg capsules/tablets) or injectable (50 mg/mL solution). 	3 DRUG DOSING INFORMATION: anaphylaxis is epinephrine. Th the setting of anaphylaxis.
	lips, face, or throat); severe broncho- spasm (wheezing); shortness of breath; shock; abdominal cramping; or cardio-	anaphylaxis.	 Hydroxyzine (e.g., Atarax, Vistaril) oral (10 mg/5 mL or 25 mg/5 mL liquid, 25 mg capsules). Suggested supplies for a 	a First-line treatment: Admin intramuscularly, 0.01 mL/k mL, with maximum single
AMUNIZATION A	vascular collapse.	Technical 647-9009 • www.imm	community immunization clinic Syringes (1 and 3 cc) and needles (22 and 25 g, 1°, 1½°, and 2°) for epinephrine, diphenhydramine, or hydroxyzine. For ampules, use filtered needles.	b Optional treatment: H ₁ ant administer diphenhydramin the standard dose is 1-2 m single dose) or hydroxyzine
			T Alaskal wises	4–6 hrs up to 100 mg maxi

Emergency medical protocol for management of anaphylactic reactions in adults

 $1 \;$ If itching and swelling are confined to the injection site where the vaccination was given, observe patient closely for the development of generalized symptoms.

page 2 of 2

- 2 If symptoms are generalized, activate the emergency medical system (EMS; e.g., call 911) and notify the patient's physician. This should be done by a second person, while the primary healthcare professional assesses the airway, breathing, circulation, and level of consciousness of the patient. Vital signs should be monitored continuously.
- 3 DRUG DOSING INFORMATION: The first-line and most important therapy in anaphylaxis is epinephrine. There are NO contraindications to epinephrine in the setting of anaphylaxis.
- a First-line treatment: Administer aqueous epinephrine 1:1000 dilution intramuscularly, 0.01 mL/kg/dose (adult dose ranges from 0.3 mL to 0.5 mL, with maximum single dose of 0.5 mL).

b Optional treatment: H1 antihistamines for hives or itching; you may also administer **diphenhydramine** (either orally or by intramuscular injection; the standard dose is 1–2 mg/kg every 4–6 hrs, up to 50 mg maximum single dose) or **hydroxyzine** (standard oral dose is 0.5–1 mg/kg every 4–6 hrs up to 100 mg maximum single dose).

- 4 Monitor the patient closely until EMS arrives. Perform cardiopulmonary resuscitation (CPR), if necessary, and maintain airway. Keep patient in supine position (flat on back) unless he or she is having breathing difficulty. If breathing is difficult, patient's head may be elevated, provided blood pressure is adequate to prevent loss of consciousness. If blood pressure is low, elevate legs. Monitor blood pressure and pulse every 5 minutes
- 5 If EMS has not arrived and symptoms are still present, repeat dose of epinephrine every 5-15 minutes for up to 3 doses, depending on patient's response.
- 6 Record the patient's reaction (e.g., hives, anaphylaxis) to the vaccine, all vital signs, medications administered to the patient, including the time, dosage, response, and the name of the medical personnel who administered the medication, and other relevant clinical information. Report the incident to the Vaccine Adverse Event Reporting System (VAERS).
- 7 Notify the patient's primary care physician.

These standing orders for the reactions in adult patients sh	6	
NAME OF CLINIC	_ until rescinded or until	
MEDICAL DIRECTOR'S SIGNATURE		DATE OF SIGNING

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

/accine Adr or Adults	minstiat				Birthdate			Chart numbe		_	for Adults (continu					Birthdate	E AND ACC		hart number	
efore administering any occine Information State e risks and benefits of th ersonal record card.	vaccines, give the ements (VISs) and re vaccine(s). Always	patient copies make sure he/ s provide or up	of all per she unde date the p	tinent rstands patient's	PRACTICE NA	ME AND AD	DRESS				Before administering any Vaccine Information Stat the risks and benefits of th personal record card.	vaccines, give the p ements (VISs) and r he vaccine(s). Always	natient copies make sure he/ provide or up	of all pert she unde date the p	inent rstands atient's	PRACTICE NAM	AND ADS			
Vaccine	Type of Vaccine ¹	Date vaccine given (mo/day/yr)	Funding Source (F,S,P) ²	Route ¹ and Site ¹	Vaccine	Mfr.	Vaccine Ir Stateme Date on VIS ⁴	formation ent (VIS) Date given ⁴	Vaccinator (signature of initials and tit		Vaccine	Type of Vaccine ¹	Date vaccine given (mo/day/yr)	Funding Source (F,S,P) ²	Route ¹ and Site ¹	Vaccine Lot #	Mfr.	Vaccine In Stateme Date on VIS ⁴	formation nt (VIS) Date given ⁴	Vaccinato (signature initials and ti
Tetanus, Diphtheria, Pertussis (e.g., Tdap, Td)											Influenza (e.g., IIV3, IIV4, ccIIV3, RIV3, LAIV4)									
Sive IM. ¹		-									Give IIV3, IIV4, ccIIV3, and RIV3 IM. ³									
Hepatitis A* (e.g., HepA, HepA-HepB)		1				-					Give LAIV4 NAS. ¹									
Sive IM. ¹						-														
Hepatitis B ^e (e.g., HepB, HepA-HepB) Sive IM. ¹						1			<u> </u>											
Human papillomavirus HPV2, HPV4, HPV9) Sive IM. ¹																				
Measles, Mumps, Rubella MMR) Give Subcut. ¹											Pneumococcal conjugate									
Aricella VAR) Give Subcut. ¹		-									(e.g., PCV13) Give PCV13 IM. ³									
Meningococcal ACWY (e.g., MenACWY [MCV4], MPSV4) Give MenACWY		-									Pneumococcal polysac- charide (e.g., PPSV23) Give PPSV23 IM or Subcut. ³									
IM.' Give MPSV4 Subcut.'		-									Zoster (HZV) Give Subcut. ¹ Hib Give IM. ¹									
Meningecoccal B (e.g., MenB) Give MenB M. ⁷		1									Other									
See page 2 to record infli (e.g., travel vaccines).	l luenza, pneumococci	al, zoster, Hib, a	I and other	vaccines		-	1										\vdash			
ow to Complete thi: Record the generic abbr vaccine (see table at rig Record the funding sou S (state), or P (private). Record the route by whi (IM), subcutaneous (St (PO) and also the site v	rreviation (e.g., Tdaj ght). Jurce of the vaccine p Linich the vaccine was ubcut). intradermal	given as either given as eithe	F (federa er intrami al (NAS)	il), iscular or oral	Abbreviation Tdap Td HepA HepA HepA HepA HepA HepA HepA HepA	Adacel (S Decavac, Havrix (G Engeria-8 Twinnix (C Cervarix (Gardasi),	GSR) Gardasil 9 (Merck)	ostria (GlasoSmit steur); generic Td () as HB (Merck)	htline (CSX) MA Biological Lal		See page 1 to record Td MenACWY, and MenB 1 How to Complete th 1. Record the generic able vaccine (see table at ri 2. Record the funding so S (state), or P (private 3. Record the route by wi	is Record previation (e.g., Tdap ght). urce of the vaccine g).	o) or the trade given as either	name for F (federa	each I),	Abbreviation IV3 (inactivated vaccine, trivialere (inactivated influ vaccine, quadrov colfV3 (cell caltu inactivated influ vaccine, trivialere (instituated inco influenza vaccine)	(; IV4		nd Manufacture ublok (Protein Sci acelvax, Fluwirin (1 Fluzone Intradeen ifi Pasteur)	
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