





Vaccine Deliveries

- Notify coordinator as soon as delivery arrives
- Avoid having untrained people accept deliveries
- Examine vaccine deliveries:
 - Container
 - Contents
 - Shipping temperature monitors/indicators
- If there are concerns:
 - Label vaccines "Do NOT Use,"
 - Store under appropriate conditions, separate from other vaccines
- Consult immunization program, distributor, and/or vaccine manufacturer for guidance



Vaccine Deliveries: Temperature Monitoring

- Record temperature inside the packed container, along with date, time, and your initials:
 - At beginning of transport.
 - Upon arrival at facility.
 - When any remaining vaccines are returned to primary storage facility.
- Upon arrival at facility, immediately transfer vaccines to a refrigerator that maintains recommended temperature range and record the temperature, time, and initials.

Vaccine Storage Equipment

 CDC recommends stand-alone or pharmacy grade/purposebuilt units.



Household, Combination Unit

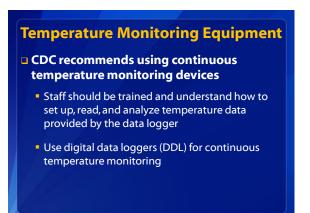
If existing equipment is a household, combination refrigerator/freezer, CDC recommends using only the refrigerator compartment for refrigerated vaccines

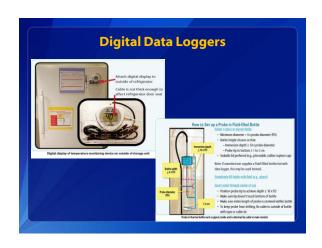


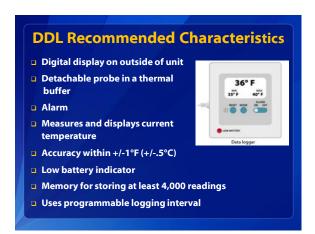
Dormitory-style
NOT Allowed for VFC Vaccines or
Recommended for ANY Vaccine Storage

Temperature Monitoring Devices

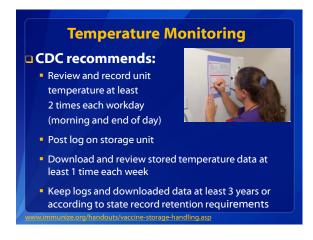
- Use only calibrated temperature monitoring devices with certificate of calibration testing (Report of Calibration) from an accredited laboratory
 - Required for providers who receive VFC vaccines or other vaccines purchased with public funds
- Calibration testing every 1 to 2 years from last calibration testing or according to manufacturer's suggested timeline

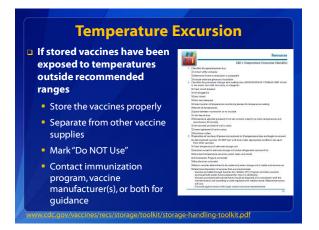












Vaccine and Diluent Placement

- Store vaccines away from walls, coils, cooling vents, top shelf, ceiling, door, floor, and back of unit
- Keep vaccines and diluents in original packaging with lids to protect from light
- Stack in rows with same type of vaccine and diluent
- Use uncovered storage containers to organize vaccines and diluents
- Do not store in doors, on top shelf, on floor, or in deli, vegetable or fruit crisper drawers

Vaccine and Diluent Labeling

- Use labels with vaccine type, age, and gender indications or color coding
- Do not store sound-alike and look-alike vaccines next to each other
- Identify and store VFC vaccines and other vaccines purchased with public funds separately from vaccines purchased with private funds



ww.cdc.gov/vaccines/recs/storage/guide/vaccine-storage-labels.pdf

Diluent Storage

- Store diluent as directed in manufacturer's package insert
- Store refrigerated diluent with corresponding vaccine (these diluents may contain vaccine antigen)
- Never store diluents in the freezer
- Label diluent to avoid inadvertent use of the wrong diluent when reconstituting a vaccine



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

Vaccine S&H Best Practices

- Store food and beverages in separate refrigerator and freezer than where vaccines are stored
- NEVER store vaccines and other medications or biologics in same tray or container or bin. If possible, store products other than vaccines in different unit





Preventive Measures

- Plug only one unit in an outlet
- Use plug guard or safety lock plug
- Label circuit breakers and electrical outlets
- Post warning signs that include emergency contact information



Expiration Dates At least 1 time each week and each time vaccines are delivered, check and arrange vaccines and diluents in storage unit according to expiration dates Vaccine Expiration Date: 08/16/15 Note: Use through August 16, 2015. Do NOT use on or after August 17, 2015. Do NOT use on or after September 1, 2015. Vaccine may be used up to and including the expiration date.

Exceptions to Expiration Dates

- Multidose vials (MDVs)
 - Most MDVs may be used until the expiration date on the vial unless contaminated or compromised in some way.
 Some MDVs have a specified timeframe for use once the vial is entered
- 2.2 Administration Instructions

Administration instructions

Administration instructions

Framework well before administration. Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. If either of these conditions exists, the vaccine should not be administered. Attach a sterile needle to the prefilled syringe and administer intramuscularly. For the multi-dose value as sterile needle and sterile syringe to withdraw the 9.5-mL.

For the multi-dose vial, use a sterile needle and sterile syringe to withdraw the 0.5-mL dose from the multi-dose vial and administer intramuscularly. A sterile syringe with a needle bore no larger than 23 gauge is recommended for administration. It is recommended that small syringes (0.5 mL or 1 mL) be used to minimize any product loss. Use a separate sterile needle and syringe for each dose withdrawn from the multi-dose vial.

Between uses, return the multi-dose vial to the recommended storage conditions, between 2° and 8°C (36° and 46°F). Do not freeze. Discond if the vaccine has been frozen. Once entered, a multi-dose vial, and any residual contents, should be discarded after 28 days.

Exceptions to Expiration Dates

- Manufacturer shortened expiration date
 - If vaccine has been exposed to inappropriate storage conditions, potency may be reduced before the expiration date. The manufacturer may shorten the expiration date

Vaccine Transport

- □If vaccines must be transported to an offsite/satellite facility, here are the "Do's" and Don'ts"
 - DO
 - Limit amount of vaccines to what is needed for that workday
 - Limit total transport and workday time to 8 hours
 - Transport in portable refrigerator or qualified container and pack out (either can be purchased commercially). If this is not feasible, use hard sided cooler with basic pack out design and supplies

Vaccine Transport

- If vaccines must be transported to the facility, here are the "Do's" and Don'ts"
 - DO
 - Record temperature inside packed container along with date, time, and your initials on temperature log at beginning of transport, upon arrival at facility, and when any remaining vaccines are returned to primary storage facility
 - Immediately transfer vaccines to refrigerator that maintains recommended temperature range upon arrival at facility and record refrigerator temperature, time, and initials
 - Temperature should be recorded at least twice during workday

Vaccine Transport

- Basic pack out design (listed from bottom to top inside container)
- Conditioned frozen water bottles (Ice should spin freely in the water)
- Corrugated cardboard (cut to fit interior dimensions of cooler)
- Bubble wrap (at least 1 inch thick to cover cardboard)
- Vaccines (in original packaging)
- Temperature monitoring device (preferably DDL buffered probe)
- Bubble wrap (at least 1 inch thick to cover cardboard)
- Corrugated cardboard (cut to fit interior dimensions of cooler)
- Conditioned frozen water bottles (Ice should spin freely in the water)

Vaccine Transport

- If vaccines must be transported to the facility, here are the "Do's" and Don'ts"
 - DON'T
 - Reuse manufacturer shipping containers and supplies
 - Use frozen gel packs, ice, or dry ice
 - Freeze vaccines or diluents
 - Transport in a vehicle trunk

NOTE: Use of frozen water bottles or ice packs that are not conditioned properly can freeze your vaccine shipment.



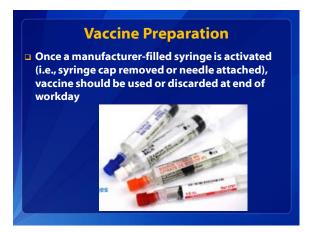
Patient Care Before Administering Vaccines Obtain complete immunization history at every health care visit Accept only written, dated records (exception influenza and PPSV23 self-report) Use recommended schedule to determine vaccines needed based on age, medical condition, and risk factors Screen for contraindications and precautions prior to administering any vaccine(s) Discuss vaccine benefits and risks and vaccine-preventable disease risks using VISs and other reliable resources Provide after-care instructions

Vaccine Administration Best Practices Maintain proper infection control practices while preparing and administering vaccines. Always use aseptic technique. Use proper hand hygiene techniques before preparing vaccines. Prepare vaccines in a clean, designated medication area not adjacent to any area where potentially contaminated items are placed. Prepare vaccines just prior to administration.

Infection Control Hand hygiene should be performed Before vaccine preparation Between patients Any time hands become soiled Gloves are not required when administering vaccines unless the person administering the vaccine is likely to come into contact with potentially infectious body fluids or has open lesions on hands If gloves are worn, they should be changed Hand hygiene performed between patients

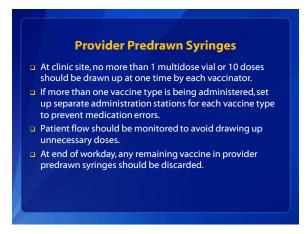
Vaccine Preparation Use a separate 1-mL or 3-mL sterile syringe for each injection Select a separate sterile needle for each injection based on route, size of individual, and injection technique Inspect vaccine and diluent vials for damage or contamination Check the expiration dates on the syringe, needle, vaccine, and diluent Use only the manufacturer supplied diluent to reconstitute a vaccine

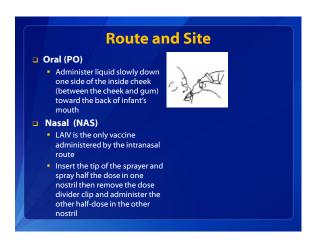
Provider Predrawn Syringes Predrawing vaccine is not recommended: Increases risk for administration errors. May lead to vaccine waste. Can cause bacterial growth in vaccines that do not contain a preservative. Administration syringes are not designed for storage. Consider using manufacturer-filled syringes for large immunization events because they are designed for both storage and administration.

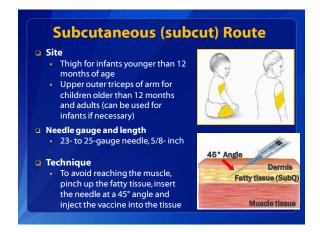


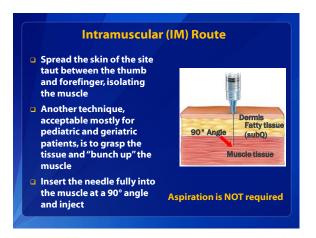


Vaccine Preparation "Nevers" Never combine vaccines into a single syringe except when specifically approved by the FDA and packaged for that specific purpose Never transfer vaccine from one syringe to another Never draw partial doses of vaccine from separate vials to obtain a full dose



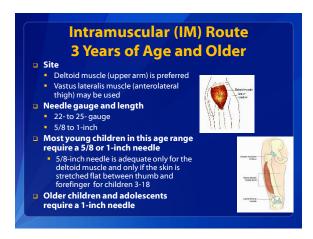


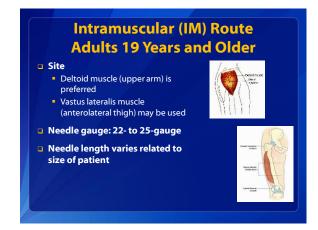














Common S&H and Administration Errors Administering expired vaccine or diluent Leaving storage unit door ajar Using the wrong diluent Failing to take immediate action when a temperature excursion occurs Administering by an incorrect route Violating intervals Failing to use an age-appropriate vaccine formulation

