

VACCINE PREPARATION AND ADMINISTRATION (Post in Vaccine Prep Area)

VACCINE	INSTRUCTIONS FOR RECONSTITUTION OR USE ¹	SHELF LIFE AFTER RECONSTITUTION, THAWING OR OPENING ^{2,3}
DTaP, DTaP-HepB-IPV (Pediarix [®]), DTaP-IPV (Quadracel [®] , Kinrix [®]), DT, Td, Tdap, HepA, HepB, HepA-HepB (Twinrix [®]), Hib (PedvaxHIB [®]), 9vHPV, PCV13, PPSV23, aIIV3 (Fluad [®]), HD-IIV3 (Fluzone [®] High-Dose), IIV4, ccIIV4 (Flucelvax [®]), RIV4 (Flublok [®]), MenB (Trumenba [®] , Bexsero [®]), MenACWY-D (Menactra [®])	Shake vial well to obtain a uniform suspension prior to withdrawing dose. The vaccine should not be used if it cannot be re-suspended ¹ . MenB (Trumenba) syringes are recommended to lay flat on the shelf to minimize re-dispersion time; shake syringe vigorously to obtain uniform suspension ¹ . When using a prefilled syringe, attach a sterile needle to the prefilled syringe by twisting it in a clockwise direction until the needle fits securely on the syringe. ADMINISTER INTRAMUSCULAR (IM). PPSV23 may also be administered subcutaneous (SC).	Once drawn into syringe, administer immediately. Protect 9vHPV, aIIV3, IIV4, ccIIV4, RIV4, and MenB (Bexsero) from light. Return multi-dose vial (MDV) to recommended storage conditions between uses ⁴ . Use MDV until expiration date, unless contaminated or otherwise stated in the manufacturer's product information (e.g., some flu vaccines). Do not freeze ⁵ .
DTaP-IPV/Hib (Pentacel [®]) Hib (ActHIB [®] , Hiberix [®])	RECONSTITUTE JUST BEFORE USING. Use only the diluent that comes with the vaccine. Diluents for these vaccines are not interchangeable . For Pentacel, gently shake the DTaP-IPV vial, withdraw entire contents and inject into lyophilized ActHIB vial, then gently swirl. For ActHIB, agitate the reconstituted vaccine. For Hiberix, once reconstituted shake the vial well to mix thoroughly ¹ . Withdraw entire contents and inject the total volume of vaccine. ADMINISTER INTRAMUSCULAR (IM).	Administer immediately. Discard Pentacel if not used within 30 minutes after reconstitution. Discard ActHIB and Hiberix after reconstitution if not used by the end of the clinic day. Protect Hiberix from light. If either vaccine is stored after reconstitution, store at recommended storage conditions and reagitrate prior to administration ⁴ . Do not freeze ⁵ .
Inactivated Poliovirus Vaccine (IPV)	ADMINISTER SUBCUTANEOUS (SC) OR INTRAMUSCULAR (IM)¹.	Use MDV until expiration date, unless contaminated. Return MDV to recommended storage conditions between uses ⁴ . Protect from light. Do not freeze ⁵ .
MenACWY-CRM (Menveo [®])	RECONSTITUTE JUST BEFORE USING. Use only the diluent that comes with the vaccine. Draw up MenCWY liquid (diluent); add to MenA vial; invert; shake well ¹ . Withdraw entire contents and inject the total volume of vaccine. ADMINISTER INTRAMUSCULAR (IM).	Administer immediately. Discard reconstituted vaccine if not used within 8 hours. If Menveo is stored after reconstitution, store at recommended storage conditions and reagitrate prior to administration ⁴ . Protect from light. Do not freeze ⁵ .
Rotavirus Vaccines (RV): RV1 (Rotarix [®]) RV5 (RotaTeq [®])	RV1: RECONSTITUTE JUST BEFORE USING. Use only the applicator, transfer adaptor, and diluent supplied with the vaccine. ADMINISTER ORAL , RV1 dose is 1mL. RV5: ADMINISTER ORAL , RV5 dose is 2mL.	Administer immediately. Discard RV1 after reconstitution if not used by the end of the clinic day. If stored after reconstitution, store at recommended storage conditions and reagitrate prior to administration ⁴ . Protect RV1 and RV5 from light. Do not freeze ⁵ .

See footnotes and additional information on page 2.

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Recombinant Zoster Vaccine (RZV, Shingrix)	RECONSTITUTE JUST BEFORE USING. Use only the diluent that comes with the vaccine. Inject the entire volume of diluent into the vial of lyophilized vaccine. Gently shake the vial to mix thoroughly ¹ . After reconstitution, withdraw 0.5mL and ADMINISTER INTRAMUSCULAR (IM).	Administer immediately. Discard RZV if not used within 6 hours after reconstitution. If RZV is stored after reconstitution, store at recommended storage conditions and reagitrate prior to administration ⁴ . Do not freeze ⁵ . Protect from light.
Varicella (Var) Measles, Mumps, Rubella (MMR) Measles, Mumps, Rubella, Varicella (MMRV, ProQuad®) Zoster Vaccine Live (ZVL, Zostavax®)	RECONSTITUTE JUST BEFORE USING. Use only the diluent that comes with the vaccine. Inject the entire volume of diluent into the vial of lyophilized vaccine. Shake vial well to mix thoroughly ¹ . Withdraw entire contents and inject the total volume of vaccine. ADMINISTER SUBCUTANEOUS (SC).	Administer immediately. Discard MMR if not used within 8 hours after reconstitution. Discard Varicella, MMRV, and ZVL if not used within 30 minutes after reconstitution. If these vaccines are stored after reconstitution, store at recommended storage conditions and reagitrate prior to administration ⁴ . Protect from light. Do not freeze reconstituted vaccine ⁵ .
Live Attenuated Influenza Vaccine Quadrivalent (LAIV4, FluMist®)	Remove rubber tip protector. With the patient sitting upright, place the tip just inside the nostril. Depress the plunger rapidly until the dose-divider clip prevents you from going further. Pinch and remove the dose-divider clip and place the tip inside the other nostril. Depress the plunger rapidly to deliver the remaining vaccine for a total of 0.2mL (0.1mL per nostril). Active inhalation (i.e., sniffing) is not required by the patient during administration. ADMINISTER INTRANASAL (NAS).	Store in a refrigerator at 36.0°F to 46.0°F (2.0° to 8.0°C). Do not freeze ⁵ . Protect from light.

PLEASE NOTE: These recommendations are not a substitute for the manufacturer’s package insert included with each biologic. This reference is for preparation and administration informational purposes only.

¹Visually inspect for particulate matter and discoloration prior to administration. Do not use if particulate matter and/or discoloration is found.

²Once vaccine is drawn into a syringe or the syringe is activated, the vaccine **MUST** be used by the end of the clinic day. **If it’s not used, it must be discarded.**

³For more information on preparation and administration of vaccines, refer to CDC’s “Vaccine Storage and Handling Toolkit” at: www.cdc.gov/vaccines/hcp/admin/storage/toolkit/index.html.

⁴Store vaccines at recommended storage conditions. Vaccines stored in the refrigerator should be stored at 36.0°F to 46.0°F (2.0°C to 8.0°C). Vaccines stored in the freezer should be stored at -58.0°F to +5.0°F (-50.0°C to -15.0°C). NOTE: Reconstituted vaccine should never be placed in the freezer.

⁵Discard if the vaccine has been frozen.