Proper storage and handling practices play a very important role in the safety and efficacy of vaccines in protecting individuals and communities from vaccine-preventable diseases. CDC recommends providers follow vaccine storage and handling best practices outlined in CDC’s Vaccine Storage and Handling Toolkit, including:

- Store each type of vaccine or diluent, if applicable, in its original packaging and in a separate container or bin within the storage unit.
- Use storage labels to help staff easily identify vaccines. The following labels are examples that may be used to help organize vaccines.
- Label shelves and containers to clearly identify where each vaccine and diluent, if applicable, is stored.
- Store vaccines and diluents with similar packaging or names or with pediatric and adult formulations on different shelves.
- If possible, color-code labels (e.g., one color for pediatric and another for adult vaccines).
Dengvaxia—Vaccine & Diluent

Store between 2°C and 8°C (36°F and 46°F)

Ages: 9 through 16 years (with laboratory confirmed previous dengue infection and living in dengue-endemic area)

Presentation: Single-dose vial lyophilized vaccine and single-dose vial diluent

Protect From Light

Do Not Freeze

Beyond Use Time: After reconstitution, administer immediately or store between 2°C and 8°C (36°F and 46°F) and use within 30 minutes

Updated 3/6/2024

Daptacel (DTaP)

Store between 2°C and 8°C (36°F and 46°F)

Ages: 6 weeks through 6 years

Presentation: Single-dose vial

Do Not Freeze

Updated 3/6/2024

Infanrix (DTaP)

Store between 2°C and 8°C (36°F and 46°F)

Ages: 6 weeks through 6 years

Presentation: Manufacturer-filled syringe

Do Not Freeze

Updated 3/6/2024

Kinrix (DTaP-IPV)

Store between 2°C and 8°C (36°F and 46°F)

Ages: 4 through 6 years

Presentation: Manufacturer-filled syringe

Do Not Freeze

Updated 3/6/2024

Quadracel (DTaP-IPV)

Store between 2°C and 8°C (35°F and 46°F)

Ages: 4 through 6 years

Presentation: Single-dose vial

Do Not Freeze

Updated 3/6/2024

Pediarix (DTaP-IPV-HepB)

Store between 2°C and 8°C (36°F and 46°F)

Ages: 6 weeks through 6 years

Presentation: Manufacturer-filled syringe

Do Not Freeze

Updated 3/6/2024
**Pentacel (DTaP-IPV-Hib)**

Store between 2°C and 8°C (35°F and 46°F)

**Ages:** 6 weeks through 4 years  
**Presentation:** Single-dose vial DTaP-IPV component and single-dose vial lyophilized ActHIB component  
**Do Not Freeze**  
**Beyond Use Time:** Use immediately after reconstitution

**ActHIB (Hib)**

Store between 2°C and 8°C (35°F and 46°F)

**Ages:** 6 weeks through 4 years  
5 years and older with indications  
**Presentation:** Single-dose vial lyophilized vaccine and single-dose vial diluent  
**Do Not Freeze**  
**Beyond Use Time:** If not used immediately after reconstitution, store between 2°C and 8°C (35°F and 46°F) and discard if not used within 24 hours

**PedvaxHIB (Hib)**

Store between 2°C and 8°C (36°F and 46°F)

**Ages:** 6 weeks through 4 years  
5 years and older with indications  
**Presentation:** Single-dose vial  
**Do Not Freeze**

**Vaxelis (DTaP-IPV-HepB-Hib)**

Store between 2°C and 8°C (36°F and 46°F)

**Ages:** 6 weeks through 4 years  
**Presentation:** Single-dose vial OR manufacturer-filled syringe  
**Protect From Light**  
**Do Not Freeze**

**Hiberix (Hib)**

Store between 2°C and 8°C (36°F and 46°F)

**Ages:** 6 weeks through 4 years  
5 years and older with indications  
**Presentation:** Single-dose vial lyophilized vaccine and single-dose vial or manufacturer-filled syringe diluent  
**Protect From Light**  
**Do Not Freeze**

**Havrix (HepA)**

Store between 2°C and 8°C (36°F and 46°F)

**Ages:** 12 months and older  
**Presentation:** Manufacturer-filled syringe  
**Do Not Freeze**
Vaqta (HepA)

- Store between 2°C and 8°C (36°F and 46°F)
- Ages: 12 months and older
- Presentation: Single-dose vial OR manufacturer-filled syringe
- Do Not Freeze

Engerix-B (HepB)

- Store between 2°C and 8°C (36°F and 46°F)
- Ages: Birth and older
- Presentation: Single-dose vial OR manufacturer-filled syringe
- Do Not Freeze

Recombivax HB (HepB)

- Store between 2°C and 8°C (36°F and 46°F)
- Ages: Birth and older
- Presentation: Single-dose vial OR manufacturer-filled syringe
- Protect From Light
- Do Not Freeze

Heplisav-B (HepB)

- Store between 2°C and 8°C (36°F and 46°F)
- Ages: 18 years and older
- Presentation: Manufacturer-filled syringe
- Do Not Freeze

PreHevbrio (HepB)

- Store between 2°C and 8°C (36°F and 46°F)
- Ages: 18 years and older
- Presentation: Single-dose vial
- Protect From Light
- Do Not Freeze

Twinrix (HepA/B)

- Store between 2°C and 8°C (36°F and 46°F)
- Ages: 18 years and older
- Presentation: Manufacturer-filled syringe
- Do Not Freeze

Updated 3/6/2024
<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Store Conditions</th>
<th>Ages</th>
<th>Presentation</th>
<th>Protect From Light</th>
<th>Do Not Freeze</th>
<th>Beyond Use Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gardasil 9 (HPV)</td>
<td>Store between 2°C and 8°C (36°F and 46°F)</td>
<td>9 through 45 years</td>
<td>Single-dose vial OR manufacturer-filled syringe</td>
<td>Protect From Light</td>
<td>Do Not Freeze</td>
<td></td>
</tr>
<tr>
<td>M-M-R II (MMR)</td>
<td>Store between -50°C and 8°C (-58°F and 46°F)</td>
<td>12 months and older</td>
<td>Single-dose vial lyophilized vaccine and manufacturer-filled syringe or single-dose vial diluent</td>
<td>Protect From Light</td>
<td>Do Not Freeze</td>
<td>If not used immediately after reconstitution, store vaccine between 2°C and 8°C (36°F and 46°F), protect from light, and discard if not used within 8 hours</td>
</tr>
<tr>
<td>Menveo (MenACWY) Two-Vial (Reconstitute Before Using)</td>
<td>Store between 2°C and 8°C (36°F and 46°F)</td>
<td>2 months and older</td>
<td>Single-dose vial liquid component (gray cap) and single-dose vial lyophilized component (orange cap)</td>
<td>Protect From Light</td>
<td>Do Not Freeze</td>
<td>Use immediately after reconstitution; however, may be stored between 2°C and 25°C (36°F and 77°F) for up to 8 hours</td>
</tr>
<tr>
<td>Menveo (MenACWY) Single-Vial (Ready-to-Use)</td>
<td>Store between 2°C and 8°C (36°F and 46°F)</td>
<td>10 years and older</td>
<td>Single-dose vial (pink cap)</td>
<td>Protect From Light</td>
<td>Do Not Freeze</td>
<td></td>
</tr>
<tr>
<td>Penbraya (MenABCWY)</td>
<td>Store between 2°C and 8°C (36°F and 46°F)</td>
<td>10 through 25 years</td>
<td>Single-dose vial lyophilized MenACWY component and manufacturer-filled syringe MenB component</td>
<td>Do Not Freeze</td>
<td>Beyond Use Time: After reconstitution, administer immediately or store between 2°C and 30°C (36°F and 86°F) and use within 4 hours</td>
<td></td>
</tr>
<tr>
<td>MenQuadfi (MenACWY)</td>
<td>Store between 2°C and 8°C (35°F and 46°F)</td>
<td>2 years and older</td>
<td>Single-dose vial</td>
<td>Do Not Freeze</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Updated 3/6/2024
Bexsero (MenB)
Store between 2°C and 8°C (36°F and 46°F)

Ages: 10 years and older
Presentation: Manufacturer-filled syringe
Protect From Light
Do Not Freeze

Trumenba (MenB)
Store between 2°C and 8°C (36°F and 46°F)

Ages: 10 years and older
Presentation: Manufacturer-filled syringe
Do Not Freeze

Jynneos (Mpox)
Store between -25°C and -15°C (-13°F and 5°F)

Ages: 18 years and older
Presentation: Single-dose vial
Protect From Light
Beyond Use Time: Unpunctured vials may be stored in the refrigerator between 2°C and 8°C (36°F and 46°F) for up to 8 weeks from thawing

PCV15 (Vaxneuvance)
Store between 2°C and 8°C (36°F and 46°F)

Ages: 6 weeks through 4 years
5 years and older with indications
Presentation: Manufacturer-filled syringe
Protect From Light
Do Not Freeze

PCV20 (Prevnar 20)
Store between 2°C and 8°C (36°F and 46°F)

Ages: 6 weeks through 4 years
5 years and older with indications
Presentation: Manufacturer-filled syringe
Do Not Freeze

PPSV23 (Pneumovax 23)
Store between 2°C and 8°C (36°F and 46°F)

Ages: 2 years and older with indications
Presentation: Single-dose vial or manufacturer-filled syringe
### IPOL (Polio)

**Store between 2°C and 8°C (35°F and 46°F)**

**Ages:** 6 weeks and older  
**Presentation:** Multi-dose vial  
**Protect From Light**  
**Do Not Freeze**

Updated 3/6/2024

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### Rotarix (Rotavirus)

**Vial plus Oral Applicator**

**Store vaccine vial between 2°C and 8°C (36°F and 46°F)**  
**Store diluent between 2°C and 8°C (36°F and 46°F) or up to 25°C (77°F)**

**Ages:** 6 weeks and older  
**Presentation:** Single-dose vial and oral dropper diluent  
**Protect From Light**  
**Do Not Freeze**  

**Beyond Use Time:** If not used immediately after reconstitution, store between 2°C and 8°C (36° and 46°F) or at controlled room temperature up to 25°C (77°F) and discard if not used within 24 hours

Updated 3/6/2024

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### Rotarix (Rotavirus)

**Ready to Use Oral Applicator**

**Store between 2°C and 8°C (36°F and 46°F)**

**Ages:** 6 weeks through 8 months, 0 days  
**Presentation:** Oral dropper  
**Protect From Light**  
**Do Not Freeze**

Updated 3/6/2024

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### RotaTeq (Rotavirus)

**Store between 2°C and 8°C (36°F and 46°F)**

**Ages:** 6 weeks through 8 months, 0 days  
**Presentation:** Oral dropper  
**Protect From Light**  

**Beyond Use Time:** Administer as soon as possible after removing from refrigeration

Updated 3/6/2024

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### Abrysvo (RSV [Pfizer])

**Store between 2°C and 8°C (36°F and 46°F)**

**Ages:** 60 years and older; Pregnant people at 32–36 weeks gestation  
**Presentation:** Single-dose vial lyophilized vaccine and manufacturer-filled syringe diluent  
**Protect From Light**  
**Do Not Freeze**  

**Beyond Use Time:** If not used immediately after reconstitution, store at room temperature 15°C and 30°C (59°F and 86°F) and discard if not used within 4 hours

Updated 3/6/2024

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### Arexvy (RSV [GSK])

**Store between 2°C and 8°C (36°F and 46°F)**

**Ages:** 60 years and older  
**Presentation:** Single-dose vial of lyophilized antigen component and single-dose vial of adjuvant suspension component  
**Protect From Light**  
**Do Not Freeze**  

**Beyond Use Time:** If not used immediately after reconstitution, store between 2°C and 8°C (36°F and 46°F) or at room temperature up to 25°C (77°F) and discard if not used within 4 hours

Updated 3/6/2024
TDVAX (Td)
Store between 2°C and 8°C (36°F and 46°F)

Ages: 7 years and older
Presentation: Single-dose vial
Do Not Freeze

Updated 3/6/2024

Tenivac (Td)
Store between 2°C and 8°C (35°F and 46°F)

Ages: 7 years and older
Presentation: Single-dose vial or manufacturer-filled syringe
Do Not Freeze

Updated 3/6/2024

Adacel (Tdap)
Store between 2°C and 8°C (35°F and 46°F)

Ages: 7 years and older
Presentation: Single-dose vial or manufacturer-filled syringe
Do Not Freeze

Updated 3/6/2024

Boostrix (Tdap)
Store between 2°C and 8°C (36°F and 46°F)

Ages: 7 years and older
Presentation: Single-dose vial or manufacturer-filled syringe
Do Not Freeze

Updated 3/6/2024

Varivax (Varicella)
Store between -50°C and -15°C (-58°F and 5°F)

Ages: 12 months and older
Presentation: Single-dose vial lyophilized vaccine and single-dose vial or manufacturer-filled syringe diluent
Protect From Light
Beyond Use Time: Vial may be stored between 2°C and 8°C (36°F and 46°F) for up to 72 continuous hours prior to reconstitution. Discard vaccine not used within 72 hours. Discard reconstituted vaccine if not used within 30 minutes

Updated 3/6/2024

ProQuad (MMRV)
Store between -50°C and -15°C (-58°F and 5°F)

Ages: 12 months through 12 years
Presentation: Single-dose vial lyophilized vaccine and single-dose vial or manufacturer-filled syringe diluent
Protect From Light
Beyond Use Time: Vial may be stored between 2°C and 8°C (36°F and 46°F) for up to 72 hours prior to reconstitution. Discard any vaccine not used within 72 hours. Discard reconstituted vaccine if not used within 30 minutes

Updated 3/6/2024
**Diluent for M-M-R II, Varivax, and ProQuad**

Store between 2°C and 8°C (36°F and 46°F) or 20°C and 25°C (68°F and 77°F)

**Presentation:** Manufacturer-filled syringe or single-dose vial
Use this sterile water diluent only for M-M-R II, Varivax, and ProQuad vaccines

**Do Not Freeze**

**Updated 3/6/2024**

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**Shingrix (RZV)**

Store between 2°C and 8°C (36°F and 46°F)

**Ages:** 50 years and older
19 through 49 years with indications

**Presentation:** Single-dose vial and single-dose vial diluent

**Protect From Light**

**Do Not Freeze**

**Beyond Use Time:** Administer immediately or store between 2°C and 8°C (36°F and 46°F) for up to 6 hours

**Updated 3/6/2024**

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**Nirsevimab Monoclonal Antibody**

**50 mg Manufacturer-filled syringe**

Store between 2°C and 8°C (36°F and 46°F)

**Ages:** Infants younger than 8 months weighing less than 5kg (11 lbs)

**Presentation:** Manufacturer-filled syringe (purple plunger)

**Protect From Light**

**Do Not Freeze**

**Beyond Use Time:** May be kept between 20°C to 25°C (68°F to 77°F) for a maximum of 8 hours. Discard if not used within 8 hours

**Updated 3/6/2024**

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**Nirsevimab Monoclonal Antibody**

**100 mg Manufacturer-filled syringe**

Store between 2°C and 8°C (36°F and 46°F)

**Ages:** Infants younger than 8 months weighing more than 5kg (11 lbs)
Children 8 through 19 months with certain high-risk conditions

**Presentation:** Manufacturer-filled syringe (light blue plunger)

**Protect From Light**

**Do Not Freeze**

**Beyond Use Time:** May be kept between 20°C to 25°C (68°F to 77°F) for a maximum of 8 hours. Discard if not used within 8 hours

**Updated 3/6/2024**