

Non-Insulin Injectable Medications

Drug Brand Name(s) (Generic)	Storage Recommendations
Injectable Products	For additional information or for products not specifically mentioned elsewhere refer to the manufacturer's recommendations. Discard any product that becomes discolored or contains particulate matter.
Multiple-Dose Vials for Injection (not specifically mentioned elsewhere)	Date when opened and discard unused portion after 28 days or in accordance with manufacturer's recommendations. If being used for more than one resident, keep in a centralized medication area (e.g., medication room or cart). Discard immediately if it enters an immediate treatment area (e.g., resident room).
Abrysvo Vaccine (respiratory syncytial virus vaccine)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Do not freeze. Reconstituted vaccine may be stored at room temperature 59° to 86°F (15° to 30°C) for up to 4 hours prior to use. Do not refrigerate reconstituted vaccine.
Aranesp Injection (darbepoetin alfa)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Do not freeze or shake. Discard unused portion.
Arexvy Vaccine (respiratory syncytial virus vaccine, adjuvanted)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Do not freeze. Reconstituted vaccine may be stored in the refrigerator or at room temperature up to 77°F (25°C) for up to 4 hours prior to use.
Ativan Injection (lorazepam)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light.
Bacteriostatic Normal Saline or Water for Injection Multiple-Dose Vials	Store at 68° to 77°F (20° to 25°C). Date when opened and discard after 28 days .
Bydureon BCise Injection (exenatide extended release)	Prior to first use, store flat in the refrigerator at 36° to 46°F (2° to 8°C). Date when opened or when removed from the refrigerator and store flat for up to 28 days at room temperature not to exceed 86°F (30°C). Protect from light. Do not freeze.
Copaxone Injection or Glatopa Injection (glatiramer)	Store in the refrigerator at 36° to 46°F (2° to 8°C). If refrigeration is not possible, this product may be stored at room temperature at 59° to 86°F (15° to 30°C) for up to 1 month . Protect from light. Do not freeze.
COVID-19 Vaccine	Refer to manufacturer's recommendations.
Epogen Injection (epoetin alfa) Procrit Injection (epoetin alfa) Retacrit Injection (epoetin alfa-epbx)	Store in the refrigerator at 36° to 46°F (2° to 8°C). For multi-dose vials, date when opened, and discard after 21 days . Protect from light. Do not freeze or shake.
Evenity Injection (romosozumab-aqqg)	Store in the refrigerator at 36° to 46°F (2° to 8°C) in the original carton. If refrigeration is not possible, this product may be stored at room temperature up to 77°F (25° C) for up to 30 days . Protect from light. Do not freeze or shake.
Forteo Injection (teriparatide)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Date when opened and discard after 28 days . Do not freeze. Protect from light (e.g., recap the delivery device when not in use).
GlucaGen Injection (glucagon [rDNA origin])	Store at 68° to 77°F (20° to 25°C) for up to 24 months prior to reconstitution. Do not freeze. Protect from light. After reconstitution, use immediately and discard unused portion.
Gvoke Injection (glucagon)	Store at 68° to 77°F (20° to 25°C) in the original sealed foil pouch with excursions from 59° to 86°F (15° to 30°C) permitted. Do not refrigerate or freeze. Discard unused portion immediately after initial use.
Influenza Vaccine	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Do not freeze. Opened multi-dose vials (except Afluria Quadrivalent) may be used until the expiration date printed on the package unless visibly contaminated. Date vials of Afluria Quadrivalent when opened and discard after 28 days .
Ozempic Injection (semaglutide)	Prior to first use, store in the refrigerator at 36° to 46°F (2° to 8°C). Date when opened or when removed from the refrigerator and store for up to 56 days either at 59° to 86°F (15° to 30°C) or at 36° to 46°F (2° to 8°C). Keep pen cap on when not in use. Protect from excessive heat and sunlight. Do not freeze.

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Pneumovax 23 Injection (pneumococcal vaccine polyvalent)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Do not freeze. Discard after manufacturer's expiration date.
Prevnar 13 Injection (pneumococcal 13-valent conjugate vaccine)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Do not freeze. Discard after manufacturer's expiration date. Discard after 4 days if left outside of the refrigerator at temperatures up to 77°F (25°C).
Prevnar 20 Injection (pneumococcal 20-valent conjugate vaccine)	Store horizontally in the refrigerator at 36° to 46°F (2° to 8°C). Do not freeze. Discard after manufacturer's expiration date. Discard if cumulative time out of refrigeration exceeds 96 hours between 46°F to 77°F (8° to 25°C) or 72 hours between 32°F to 36°F (0° to 2°C).
Prolia Injection (denosumab)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Do not freeze or shake. Protect from direct light and heat. May be allowed to reach room temperature, not to exceed 77°F (25°C), prior to administration. Once removed from the refrigerator, use or discard within 14 days .
Risperdal Consta Injection (risperidone)	Store in the refrigerator at 36° to 46°F (2° to 8°C). If refrigeration is not possible, this product may be stored at temperatures not exceeding 77°F (25°C) for no more than 7 days . Do not store suspension after reconstitution. Protect from light.
Shingrix Injection (zoster vaccine recombinant, adjuvanted)	Store unopened vaccine and adjuvant suspension vials in the refrigerator at 36° to 46°F (2° to 8°C). After reconstitution, vaccine may be stored in the refrigerator at 36° to 46°F (2° to 8°C) for up to 6 hours . Protect from light. Do not freeze.
Trulicity Injection (dulaglutide)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Do not freeze. Individual single-dose pens may be stored at room temperature, up to 86°F (30°C) for no more than 14 days .
Tuberculin Tests: Aplisol Injection; Tubersol Injection	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Do not freeze. Date when opened and discard unused portion after 30 days .
Vaxneuvance Injection (pneumococcal 15-valent conjugate vaccine)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Do not freeze.
Victoza Injection (liraglutide)	Prior to first use, store in the refrigerator at 36° to 46°F (2° to 8°C). Date when opened or when removed from the refrigerator and store for up to 30 days either at 59° to 86°F (15° to 30°C) or at 36° to 46°F (2° to 8°C). Keep pen cap on when not in use. Protect from excessive heat and sunlight. Do not freeze.
Zegalogue Injection (dasiglucagon)	Store in the refrigerator at 36° to 46°F (2° to 8°C). If stored at room temperature 68° to 77°F (20° to 25°C), date when removed from refrigeration and discard after 12 months . Do not return to the refrigerator after storing at room temperature. Store in the protective case and protect from light.
Zimhi Injection (naloxone)	Store in the outer case at 68° to 77°F (20° to 25°C) with excursions of 59° to 86°F (15° to 30°C) permitted. Do not refrigerate. Protect from light, extreme heat, and freezing.

*Tables are not all-inclusive

For additional information please refer to individual prescribing information available at <https://dailymed.nlm.nih.gov/dailymed/>

Oral, Enteral, Ophthalmic, Otic, and Topical Medications

Drug Brand Name(s) (Generic)	Storage Recommendations
Oral Solids, Oral or Enteral Liquids in Original Bottles, Otic Products and Topical Preparations (not specifically mentioned elsewhere)	Refer to manufacturer's recommendations.
Ophthalmic Products (not specifically mentioned elsewhere)	Discard and date in accordance with manufacturer's recommendations or facility policy. Storage in an upright position may be warranted – refer to manufacturer's recommendations.
Aggrenox Capsules (aspirin/dipyridamole ER)	Store in the original unit-of-use container at 77°F (25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. If dispensing in the original container is not possible, storage in a USP tight container may be allowed, but remaining capsules should be discarded after 60 days . Protect from moisture.
Ativan Concentrate Oral Solution (lorazepam) <i>Note: Brand no longer available</i>	Store original dropper bottle in the refrigerator at 36° to 46°F (2° to 8°C). Date when opened and discard 90 days after opening. Protect from light.
CellCept Oral Suspension (mycophenolate mofetil)	Store at 77°F (25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Storage in a refrigerator at 36° to 46°F (2° to 8°C) is acceptable. Do not freeze. Date when reconstituted and discard after 60 days .
Firvanq Oral Solution (vancomycin)	Store at 36° to 46°F (2° to 8°C). Discard 14 days after reconstitution or if it appears hazy or contains particulate matter. Do not freeze. Protect from light.
Irrigation Solutions (e.g., sterile water, sterile sodium chloride)	Discard unused portion immediately after initial use.
Lasix Oral Solution (furosemide) <i>Note: Brand no longer available</i>	Store at 68° to 77°F (20° to 25°C). Excursions of 59° to 86°F (15° to 30°C) are permitted by certain manufacturers (refer to individual prescribing information as necessary). Protect from light. Date when opened and discard after 90 days .
Lybalvi Tablets (olanzapine/samidorphan)	Store at 68°F to 77°F (20°C to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Store in the original bottle with desiccant. Protect from moisture.
Marinol Capsules (dronabinol)	Store in the refrigerator at 36° to 46°F (2° to 8°C). Do not freeze.
Morphine Sulfate Concentrate Oral Solution	Store at 68° to 77°F (20° to 25°C). Excursions of 59° to 86°F (15° to 30°C) are permitted by certain manufacturers (refer to individual prescribing information as necessary). Protect from light and moisture. Discard after manufacturer's expiration date unless otherwise indicated (i.e., if poured into a different bottle by the pharmacy, discard after 1 year or manufacturer's expiration date if sooner).
Nitroglycerin Sublingual Tablets	Store at 68° to 77°F (20° to 25°C) in the original glass container. Keep tightly closed to prevent exposure to air, heat or moisture. Discard unused medication after product expiration date.
Oxycodone Concentrate Oral Solution	Store at 68° to 77°F (20° to 25°C). Excursions of 59° to 86°F (15° to 30°C) are permitted by certain manufacturers (refer to individual prescribing information as necessary). Protect from light and moisture.
Pradaxa Capsules (dabigatran)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Protect from moisture. Must store in original manufacturer bottle or in manufacturer blister packaging. When dispensed in original bottle, date when opened and discard after 4 months . When dispensed in blister packaging, discard after manufacturer's expiration date.
Pred Forte Ophthalmic Solution (prednisolone)	Store at room temperature up to 77°F (25°C) in an upright position.

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Oral, Enteral, Ophthalmic, Otic, and Topical Medications

Drug Brand Name(s) (Generic)	Storage Recommendations
Rhopressa Ophthalmic Solution (netarsudil)	Store in the refrigerator at 36° to 46°F (2° to 8°C) until ready to use. Date when opened. If kept in the refrigerator, discard after manufacturer's expiration date. If refrigeration is not possible, store at 36° to 77°F (2° to 25°C) and discard after 6 weeks .
Timoptic-XE Ophthalmic Solution (timolol)	Store at 59° to 77°F (15° to 25°C) in an upright position. Protect from light.
Veltassa Oral Suspension (patiomer)	Store in the refrigerator at 36° to 46°F (2° to 8°C). If stored at room temperature 73° to 81°F (23 to 27°C), discard after 3 months .
Vimpat Oral Solution (lacosamide)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date when opened and discard after 7 weeks .
Vyzulta Ophthalmic Solution (latanoprostene bunod)	Store in the refrigerator at 36° to 46°F (2° to 8°C) until ready to use. Date when opened and discard after 8 weeks . Store at 36° to 77°F (2° to 25°C) after opening. Protect from light. Do not freeze.
Xalatan Ophthalmic Solution (latanoprost)	Store in the refrigerator at 36° to 46°F (2° to 8°C) until ready to use. Date when opened and discard after 6 weeks . Store at room temperature up to 77°F (25°C) after opening. Protect from light.

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Inhaled Medications

Drug Brand Name(s) (Generic)	Storage Recommendations
Orally or Nasally Inhaled Preparations (not specifically mentioned elsewhere)	Refer to manufacturer's recommendations.
Advair Diskus (fluticasone/salmeterol)	Store at 68° to 77°F (20° to 25°C) in a dry place with excursions from 59° to 86°F (15° to 30°C) permitted. Date the Diskus when removed from the foil pouch and discard 1 month after removal from foil pouch or when the dose counter reads " 0 ", whichever comes first.
Advair HFA Inhalation Aerosol (fluticasone/salmeterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Store the inhaler with the mouthpiece down. Discard when the dose counter reads " 000 ".
Afrezza Inhalation Powder (insulin recombinant human)	Store unopened drug in foil pouch in the refrigerator at 36° to 46°F (2° to 8°C). If refrigeration is not possible, unopened product may be stored at 77°F (25°C) with excursions from 59° to 86°F (15° to 30°C) permitted for up to 10 days . Unopened blister cards and strips stored outside of the foil pouch, but in the refrigerator, must be used within 1 month . Date blister cards when foil pouch is opened and date inhaler when first used. Opened blister strips stored at 77°F (25°C) with excursions from 59° to 86°F (15° to 30°C) is permitted for up to 3 days . Inhaler device may be stored at 36° to 77°F (2° to 25°C), but must be kept in a clean, dry place with mouthpiece cover on between doses. The inhaler device must be discarded 15 days after first use. Do not put a blister card or strip back into the refrigerator after being stored at room temperature.
AirDuo Respiclick or Digihaler (fluticasone/salmeterol)	Store at 59° to 77°F (15° to 25°C) with excursions up to 86°F (30°C) permitted. Date after opening the foil pouch and discard after 30 days or when the dose counter reads " 0 ", whichever comes first. Keep the cover closed when not in use and protect from moisture.
Airsupra Inhalation Aerosol (budesonide/albuterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Discard 12 months after opening foil pouch or when the dose counter reads " 0 ", whichever comes first
Alvesco Inhalation Aerosol (ciclesonide)	Store at 77°F (25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Discard when the dose counter reads " 0 ".
Anoro Ellipta Inhalation Powder (umeclidinium/vilanterol)	Store in a dry place away from direct heat or sunlight at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date the inhaler when removed from the foil pouch and discard 6 weeks after opening foil tray or when the dose counter reads " 0 ", whichever comes first.
Arnuity Ellipta Inhalation Powder (fluticasone)	Store in a dry place away from direct heat or sunlight at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Prior to use, store in the moisture-protective foil tray. Date product when foil tray is opened and discard after 6 weeks or when the dose counter reads " 0 ", whichever comes first.
Asmanex HFA Inhalation Aerosol (mometasone)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Discard when the dose counter reads " 0 ".
Asmanex Twisthaler Inhalation Powder (mometasone)	Store at 77°F (25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date the inhaler when the foil pouch is opened and discard after 45 days or when dose counter reads " 00 ", whichever comes first. Replace the cap after each inhalation to protect the inhaler from moisture.
Atrovent Inhalation Solution (ipratropium) <i>Note: Brand no longer available</i>	Store unused solution in foil pouch at 59° to 86°F (15° to 30°C) until ready to use. Protect from light.
Atrovent HFA Inhalation Aerosol (ipratropium)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Discard when the dose counter reads " 0 ".
Baqsimi Nasal Powder (glucagon)	Store at room temperature, up to 86°F (30°C) in the shrink-wrapped tube until ready to use.

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Bevespi Aerosphere (formoterol/glycopyrrolate)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date when removed from the foil pouch and discard after 3 months (120 inhalation canister) or 3 weeks (28 inhalation canister) or when the dose counter reads “ 0 ”, whichever comes first.
Breo Ellipta Inhalation Powder (fluticasone/vilanterol)	Store in a dry place away from direct heat or sunlight at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date when opening the foil tray and discard after 6 weeks or when the dose counter reads “ 0 ”, whichever comes first.
Breyna Inhalation Aerosol (budesonide/formoterol)	Store at 68° to 77°F (20° to 25°C) with the mouthpiece down. Discard when the dose counter reaches “ 0 ” or 3 months after it is taken out of its foil pouch, whichever comes first.
Breztri Aerosphere Inhalation Aerosol (budesonide/ glycopyrrolate/ formoterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date when removed from the foil pouch and discard after 3 months (120 inhalation canister) or 3 weeks (28 inhalation canister) or when the dose counter reads “ 0 ”, whichever comes first.
Brovana Inhalation Solution (arformoterol)	Store product in sealed foil pouch in the refrigerator at 36° to 46°F (2° to 8°C). Protect from light. Opened or unopened pouches may be stored at 68° to 77°F (20° to 25°C) for no more than 6 weeks . An opened unit dose vial should be used right away. Unused unit dose vials should be returned to and stored in pouch.
Calcitonin salmon Nasal Spray	Store unopened bottle in the refrigerator at 36° to 46°F (2° to 8°C). Date when opened and store at 68° to 77°F (20° to 25°C) in an upright position. Discard the open 2 mL product after 14 doses or 30 days , whichever comes first. Discard the open 3.7 mL product after 30 doses or 35 days , whichever comes first.
Combivent Respimat Inhalation Spray (ipratropium/albuterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. After initial assembly, the inhaler should be discarded after 3 months or when the locking mechanism is engaged (e.g., dose counter reads “ 0 ”), whichever comes first.
Duaklir Pressair Inhalation Powder (aclidinium/formoterol)	Store in a dry place at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date when first opening the pouch and discard after 2 months or when the counter reads “ 0 ”, whichever comes first. Do not store on a vibrating surface.
Dulera Inhalation Aerosol (mometasone/formoterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Discard when dose counter reads “ 0 ”. For the 60-inhalation inhaler only, after priming, store the inhaler with the mouthpiece down or in a horizontal position.
DuoNeb Solution for Nebulization (ipratropium/albuterol) <i>Note: Brand no longer available</i>	Store unused solution in foil pouch at 36° to 77°F (2° to 25°C) until ready to use. Protect from light. Refer to specific manufacturer information as some products must remain stored in the foil pouch at all times and some may be stored outside of the pouch for up to 14 days .
Flovent Diskus (fluticasone)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Protect from direct heat or sunlight. Date the Diskus when removed from the foil pouch and discard 6 weeks (for 50 mcg strength) or 2 months (for 100 mcg or 250 mcg strengths) after removal from foil pouch or when dose counter reads “ 0 ”, whichever comes first.
Flovent HFA Inhalation Aerosol (fluticasone)	Store at 68° to 77°F (20° to 25°C) with excursions of 59° to 86°F (15° to 30°C) permitted. Store the inhaler with the mouthpiece down. Discard when the dose counter reads “ 000 ”.
Incruse Ellipta Inhalation Powder (umeclidinium)	Store in a dry place away from direct heat or sunlight at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Date when foil tray is opened and discard after 6 weeks or when the counter reads “ 0 ”, whichever comes first.
Kloxxado Nasal Spray (naloxone)	Store in the blister and cartons provided at 68° to 77°F (20° to 25°C) with excursions from 41°F (5°C) to 104°F (40°C) permitted. Protect from light.
Perforomist Inhalation Solution (formoterol)	Store vials in foil pouch in the refrigerator at 36° to 46°F (2° to 8°C) until manufacturer's expiration date or store at room temperature, 68°F to 77°F (20°C to 25°C) and discard after 3 months . Protect from light and heat.

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ProAir Digihaler or ProAir RespiClick (albuterol)	Store at 59° to 77°F (15° to 25°C). Date when foil pouch is opened and discard after 13 months or when the dose counter reads " 0 ", whichever comes first. Keep the cover closed when not in use and avoid exposure to extreme heat, cold, or humidity.
ProAir HFA Inhalation Aerosol (albuterol)	Store at 59° to 77°F (15° to 25°C). Discard when the dose counter reads " 0 ". Protect from direct sunlight.
Proventil HFA Inhalation Aerosol (albuterol)	Store at 59° to 77°F (15° to 25°C) with the mouthpiece down. Discard when the dose counter reads " 0 ".
Proventil or Ventolin Inhalation Solution (albuterol) <i>Note: Brand no longer available</i>	Refer to manufacturer's recommendations for storage of opened product. Store unused solution in pouch between 36° to 77°F (2° to 25°C), until ready to use. Protect from light.
Pulmicort Flexhaler (budesonide)	Store at 68° to 77°F (20° to 25°C) in a dry place. Keep cover tightly in place when not in use. Discard when dose counter reads " 0 ".
Pulmicort Respules Inhalation Suspension (budesonide)	Store ampules in the foil envelope and in an upright position at 68° to 77°F (20° to 25°C). Date once the foil envelope is opened and discard after 2 weeks . Protect from light. Any opened ampules must be used promptly.
QVAR Redihaler (beclomethasone)	Store at 68° to 77°F (20° to 25°C) with excursions permitted from 59°F to 86°F (15°C to 30°C). Discard when the dose counter reads " 0 ".
Serevent Diskus (salmeterol)	Store at 68° to 77°F (20° to 25°C) with excursions permitted from 59°F to 86°F (15°C to 30°C). Date after opening the foil pouch and discard after 6 weeks or when the dose counter reads " 0 ", whichever comes first. Protect from moisture, direct heat, or sunlight.
Spiriva HandiHaler (tiotropium)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Always keep capsules stored in the blister and only remove immediately before use. Do not store capsules in the HandiHaler device.
Spiriva Respimat Inhalation Spray (tiotropium)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Discard 3 months after first use or when the locking mechanism is engaged (indicating all actuations have been used), whichever comes first.
Stiolto Respimat Inhalation Spray (tiotropium/olodaterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59 to 86°F (15° to 30°C) permitted. Discard 3 months after first use or when the locking mechanism is engaged (indicating all actuations have been used), whichever comes first.
Striverdi Respimat Inhalation Spray (olodaterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Discard 3 months after first use or when the locking mechanism is engaged (indicating all actuations have been used), whichever comes first.
Symbicort Inhalation Aerosol (budesonide/formoterol)	Store at 68° to 77°F (20° to 25°C) with the mouthpiece down. Date after opening the foil pouch and discard after 3 months or when the dose counter reads " 0 ", whichever comes first.
Trelegy Ellipta (fluticasone/umeclidinium/vilanterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Keep dry and away from direct heat or sunlight. Date when the foil tray is opened and discard after 6 weeks or when the dose counter reads " 0 ", whichever comes first.
Tudorza Pressair Inhalation Powder (aclidinium)	Store in a dry place at 77°F (25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Do not store the inhaler on a vibrating surface. Date when first opening the pouch and discard after 45 days or when the dose counter reads " 0 ", whichever comes first.
Ventolin HFA Inhalation Aerosol (albuterol)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Store the inhaler with the mouthpiece down and discard when the dose counter reads " 000 ".

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Wixela Inhub (fluticasone/salmeterol)	Store at 68° to 77°F (20° to 25°C) in a dry place away from direct heat and sunlight. Date when removed from the foil pouch and discard 1 month after removal from foil pouch or when the dose counter reads " 0 ", whichever comes first.
Xopenex HFA Inhaler (levalbuterol)	Store at 68° to 77°F (20° to 25°C) with the mouthpiece down and away from direct sunlight. Discard when the dose counter reads " 0 ".
Xopenex Inhalation Solution (levalbuterol)	Store vials in foil pouch at 68° to 77°F (20° to 25°C). Protect from light and excessive heat. Date after opening foil pouch and discard after 2 weeks . Vials removed from the pouch should be used within 1 week . Individually wrapped 1.25 mg/0.5 mL vials must be used immediately or be discarded.
Yupelri Inhalation Solution (revefenacin)	Store at 68° to 77°F (20° to 25°C) with excursions from 59° to 86°F (15° to 30°C) permitted. Protect from sunlight. Remove vials from the foil pouch immediately before use.

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Storage Recommendations for Injectable Diabetes Medications* †

Insulin Vials	Unopened		Opened	
	Refrigerated (36° F to 46° F)	Room Temperature (59° F to 86° F)	Refrigerated (36° F to 46° F)	Room Temperature (59° F to 86° F)
Admelog	Until expiration date	28 days	28 days	28 days
Apidra	Until expiration date	28 days	28 days	28 days (up to 77°F)
Fiasp	Until expiration date	28 days	28 days	28 days
Humalog	Until expiration date	28 days	28 days	28 days
Humalog Mix (75/25 or 50/50)	Until expiration date	28 days	28 days	28 days
Humulin (R U-100, N, 70/30)	Until expiration date	31 days	31 days	31 days
Humulin R U-500[†]	Until expiration date	40 days	40 days	40 days
Insulin Aspart	Until expiration date	28 days	28 days	28 days
Insulin Aspart Protamine/ Insulin Aspart	Until expiration date	28 days	28 days	28 days
Insulin Lispro	Until expiration date	28 days	28 days	28 days
Lantus	Until expiration date	28 days	28 days	28 days
Levemir	Until expiration date	42 days	42 days	42 days
Lyumjev	Until expiration date	28 days	28 days	28 days
Novolin (R, N, 70/30)	Until expiration date	42 days (up to 77°F)	Do not refrigerate after opening	42 days (up to 77°F)
Novolog	Until expiration date	28 days	28 days	28 days
Novolog Mix 70/30	Until expiration date	28 days	28 days	28 days
Semglee	Until expiration date	28 days	28 days	28 days
Tresiba	Until expiration date	56 days	56 days	56 days

Insulin Cartridges/Pens (Do NOT refrigerate once in-use)	Unopened		Opened
	Refrigerated (36° F to 46° F)	Room Temperature (59° F to 86° F)	Room Temperature (59° F to 86° F)
Admelog pen	Until expiration date	28 days	28 days
Apidra pen	Until expiration date	28 days	28 days (up to 77°F)
Basaglar pen	Until expiration date	28 days	28 days
Fiasp^S cartridge or pen	Until expiration date	28 days	28 days
Humalog U-100 cartridge or pen	Until expiration date	28 days	28 days
Humalog U-200 pen	Until expiration date	28 days	28 days
Humalog Mix 50/50 pen	Until expiration date	10 days	10 days
Humalog Mix 75/25 pen	Until expiration date	10 days	10 days
Humulin N pen	Until expiration date	14 days	14 days
Humulin 70/30 pen	Until expiration date	10 days	10 days
Humulin R U-500 pen	Until expiration date	28 days	28 days
Insulin Aspart cartridge or pen	Until expiration date	28 days	28 days
Insulin Aspart Protamine/ Insulin Aspart 70/30 pen	Until expiration date	14 days	14 days
Insulin Lispro pen	Until expiration date	28 days	28 days
Lantus pen	Until expiration date	28 days	28 days
Levemir pen	Until expiration date	42 days	42 days

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Storage Recommendations for Injectable Diabetes Medications* †

Insulin Cartridges/Pens (Do NOT refrigerate once in-use)	Unopened		Opened
	Refrigerated (36 ° F to 46 ° F)	Room Temperature (59 ° F to 86 ° F)	Room Temperature (59 ° F to 86 ° F)
Lyumjev U-100 cartridge or pen	Until expiration date	28 days	28 days
Lyumjev U-200 pen	Until expiration date	28 days	28 days
Novolin (R, N, 70/30) pen	Until expiration date	28 days	28 days
Novolog cartridge or pen	Until expiration date	28 days	28 days
Novolog Mix 70/30 pen	Until expiration date	14 days	14 days
Rezvoglar pen	Until expiration date	28 days	28 days
Semglee pen	Until expiration date	28 days	28 days
Toujeo U-300 pen	Until expiration date	56 days	56 days
Toujeo Max U-300 pen	Until expiration date	56 days	56 days
Tresiba U-100 pen	Until expiration date	56 days	56 days [§]
Tresiba U-200 pen	Until expiration date	56 days	56 days [§]

Combination and Non-insulin Pens	Unopened		Opened
	Refrigerated (36 ° F to 46 ° F)	Room Temperature (59 ° F to 86 ° F)	Room Temperature (59 ° F to 86 ° F)
Bydureon BCise pen	Until expiration date	28 days	N/A – single use pen
Mounjaro pen	Until expiration date	21 days	N/A – single use pen
Ozempic pen	Until expiration date	N/A	56 days (at room temp or refrigerator)
Soliqua pen	Until expiration date	N/A	28 days (up to 77°F)
Trulicity pen	Until expiration date	14 days	N/A – single use pen
Victoza pen	Until expiration date	N/A	30 days (at room temp or refrigerator)
Xultophy pen	Until expiration date	N/A	21 days (at room temp or refrigerator)

* Tables are not all-inclusive

† Do not use any insulin products that have been frozen. Protect from light.

‡ Use only with U-500 insulin syringes

§ In-use Fiasp FlexTouch pens and Tresiba FlexTouch pens may be refrigerated or stored at room temperature. Storage at room temperature may reduce injection site discomfort.

For additional information please refer to individual prescribing information available at <https://dailymed.nlm.nih.gov/dailymed/>

GENERAL GUIDANCE

- Safe and secure storage includes abiding by proper temperature controls as well as maintaining appropriate light and humidity exposure
- Products with an expiration date sooner than other guidance will be considered expired after that date
- Temperature ranges are general definitions, but users should adhere to ranges specified in FDA-approved prescribing information
- Unless otherwise noted by the manufacturer, standards of practice, or facility policy (whichever is more stringent), all multi-dose containers will be considered to be expired on the date on the actual container as indicated by the manufacturer unless there is suspected or obvious product contamination
- According to CDC guidelines, refrigerators and freezers used in storing vaccines should have their temperatures monitored at least twice daily unless a temperature monitoring device that records maximum and minimum temperatures is used. Refrigerator units with a freezer compartment inside the refrigerator (dormitory-style) are not recommended.
- All internal and external products should be stored physically separate from one another
- Controlled substances may have additional storage, security and disposal requirements not addressed in this document
- Properly handle and dispose of any expired or unused product in accordance with facility policy or local, state, and federal regulations

STORAGE-RELATED TERMINOLOGY

- **Adulteration:** Conditions by which a product may be contaminated or prepared, packed, or stored in a manner that does not conform to current good manufacturing standards
- **Beyond use date:** the date, often applied during repackaging or compounding, beyond which a dispensed medication should not be administered
- **Controlled storage conditions:** Maintaining the storage conditions of products in regard to proper humidity, temperature, and light
- **Expiration or expiry date:** The date up to which a product is expected to remain usable, if stored correctly. According to the United States Pharmacopeia (USP), expiration dates expressed in the terms of only the month and year can be used until the last day of the stated month and year unless otherwise specified (i.e., an expressed expiration date of 11/2021 should be interpreted as November 30, 2021).
- **External:** Medications intended for application to the skin (e.g., transdermal patch, creams, lotions, ointments)
- **Internal:** Medications intended for ophthalmic, oral, or otic administration, instillation into any orifice, injection, or oral inhalation

United States Pharmacopeial Convention (USP) TEMPERATURE RANGES

Freezer	-13°F to 14°F (-25°C to -10°C)
Cold	Any temperature not exceeding 46°F (8°C)
Refrigerated	Any temperature between 36°F and 46°F (2°C to 8°C)
Cool	Any temperature between 46°F and 59°F (8°C to 15°C)
Controlled Room Temperature	Any temperature between 68°F and 77°F (20°C to 25°C) but may include excursions between 59°F and 86°F (15°C to 30°C) for limited periods of time
Room Temperature	The temperature prevailing in a working environment [e.g., between 59°F and 86°F (15°C to 30°C)].
Warm	Any temperature between 86°F and 104°F (30°C to 40°C)
Temperature excursion	Minimal period of time at which a product is outside of its recommended or labeled storage temperature

* Tables are not all-inclusive

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