

## Insulin Expiration Dates: An Update

\*\*\*All insulins should be stored in the refrigerator until opening and protected from light. Once opened or removed from the refrigerator for storage in the medication cart, the insulin should be dated as it will expire in a specified time per manufacturer.\*\*\*

### Pens:

Insulin Name	Expiration Upon Opening or Removing from Refrigerator
Insulin Glargine U-100 (Lantus, Basaglar, Semglee)	28 days
Insulin Glargine U-300 (Toujeo Solostar)	56 days
Insulin Detemir (Levemir)	42 days
Insulin Degludec (Tresiba)	56 days
Insulin Glulisine (Apidra)	28 days
Insulin Lispro (Humalog, Admelog, Lyumjev)	28 days
Insulin Lispro; Insulin Lispro Protamine (Humalog Mix 50/50 and 75/25)	10 days
Isophane Insulin (NPH)-Humulin N	14 days
Regular Insulin; Isophane NPH (Humulin 70/30)	10 days
Regular Insulin (Humulin R) U-500	28 days
Insulin Aspart (Novolog)	28 days
Insulin Aspart; Insulin Aspart Protamine (Novolog Mix 70/30)	14 days
Isophane Insulin (NPH)-Novolin N	28 days
Regular Insulin (Novolin R)	28 days
Regular Insulin; Isophane Insulin (NPH) (Novolin 70/30)	28 days

Note: With the exception of Tresiba, all pens should be stored at room temperature once opened. DO NOT refrigerate. Once Tresiba is opened, it may be stored in the refrigerator or at room temperature.

### GLP-pens:

Name	Expiration Upon Opening or Removing from Refrigerator	Storage of Opened Pen Special Instructions
Byetta	30 days	After first use, the Byetta Pen injector can be kept at a temperature not to exceed 77 degrees F.
Trulicity	Single use pens. If needed, a single pen may be stored at room temperature not to exceed 86 degrees F for up to 14 days.	Single-use pens. Store under refrigeration until use.
Victoza	30 Days	Store pens that are in use at 59 to 86 degrees F or in a refrigerator at 36 to 46 degrees F. If exposed to temperatures above 86 degrees F, throw the pen away.

## Vials:

Insulin Name	Expiration Upon Opening or Removing from Refrigerator	Storage of Opened Vial Special Instructions
Insulin Glargine U-100 ( <i>Lantus</i> )	28 days	May refrigerate or store at room temperature.
Insulin Detemir ( <i>Levemir</i> )	42 days	May refrigerate or store at room temperature.
Insulin Glulisine ( <i>Apidra</i> )	28 days	May refrigerate or store at room temperature.
Insulin Lispro ( <i>Humalog, Admelog, Lyumjev</i> )	28 days	May refrigerate or store at room temperature.
Insulin Lispro; Insulin Lispro Protamine ( <i>Humalog Mix 50/50 and 75/25</i> )	28 days	May refrigerate or store at room temperature.
Isophane Insulin (NPH)- <i>Humulin NPH</i>	31 days	May refrigerate or store at room temperature.
Regular Insulin; Isophane NPH ( <i>Humulin 70/30</i> )	31 days	May refrigerate or store at room temperature.
Regular Insulin ( <i>Humulin R</i> ) 100 units/mL	31 days	Store in a cool place
Regular Insulin ( <i>Humulin R</i> ) 500 units/mL	40 days	May refrigerate or store at room temperature.
Insulin Aspart ( <i>Novolog</i> )	28 days	May refrigerate or store at room temperature.
Insulin Aspart; Insulin Aspart Protamine ( <i>Novolog Mix 70/30</i> )	28 days	May refrigerate or store at room temperature.
Isophane Insulin (NPH)- <i>Novolin N</i>	42 days	May refrigerate or store at room temperature.
Regular Insulin ( <i>Novolin R</i> )	42 days	Store in a cool place (below 25 degrees C [77 degrees F]); do not refrigerate.
Regular Insulin; Isophane Insulin (NPH) ( <i>Novolin 70/30</i> )	42 days	Store at room temperature; do not refrigerate.

## References:

1. Clinical Pharmacology Home (clinicalkey.com)/monographs. Accessed 5/18/21.