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| --- | --- | --- | --- | --- | --- | --- | --- |
| Type | Onset | Peak | Duration | Meal timing | Rx/ OTC  | Expirationonce opened  | Color  |
| Rapid Acting * Humalog® (lispro)
* Humalog® U-200
* Novolog®  (aspart)
* Apidra®  (glulisine)
* Fiasp® (aspart)
 | 5-15 minutes2 min (Fiasp) | 1-3 hours | 3-5 hours | Inject 5-15 minutes before meals OR at first bite. Glulisine & aspart (Fiasp®) are approved for use up to 20 minutes after meals.  | Rx only | Pen: 28 daysCartridge (Novolog, Humalog): 28 daysVial: 28 daysNote: Humalog® U-200 is only available in a kwikpen  | Clear |
| Short Acting * Humulin R®  (regular)
* Novolin R®

(regular) | 30-60 minutes | 2-4 hours | 5-7 hours | Instruct patient to take 30 (or 60) minutes before meals. | Rx/OTC | Humulin R vial: 31 days | Clear |
| Novolin R vial: 42 days Novolin R Pen: 28 days |
| Intermediate Acting* Humulin N®  (NPH)
* Novolin N®  (NPH)
* Humulin R U-500
 | 2-4 hours30 minutes | 4-8 hours1-3 hours | 8-12 hours8-24 hours | If used alone, patient can use with or without food.Take 30 minutes before eating | Rx / OTCRx only  | Humulin N pen: 14 days Humulin N vial: 31 daysNovolin N vial:42 daysNovolin N Pen: 28 daysHumulin R U-500 pen:28 days Humulin R U500 vials: 40 days | CloudyClear (U-500) |
| Long acting* Lantus®, Basaglar®  (U-100 glargine)
* Levemir®  (detemir)
* Toujeo®  (U-300 glargine)
* Tresiba® (U-100, U-200 degludec)
 | 1-2 hr1-2 hr6 hr0.5-1.5 hr | No significant peak | 22- 24 hr14-24 hr36 hr~ 42 hr | Patient can use with or without food.  | Rx only | Lantus, Basaglar Pen: 28 days (Basaglar only available as pen)Vial: 28 days | Clear |
| Levemir Pen: 42 daysVial: 42 days |
| ToujeoPen: 42 daysTresibaPen: 56 days  |
| Pre-mixed insulin * Novolog 70/30®
* Humalog 75/25®
* Humalog 50/50®
* Novolin 70/30®
* Humulin 70/30®
 | Onset, peak, duration and meal timing are dependent on the individual components. See above notes.  | Rx only | Novolog 70/30Pen: 14 daysVial: 28 days | Cloudy |
| Humalog (75/25, 50/50)Pen: 10 daysVial: 28 days |
| Novolin 70/30Vial: 42 days |
| Humulin 70/30Pen: 10 daysVial: 31 days |
| Inhaled insulin* Afrezza® (human insulin, inhaled)
 | Onset:12-15 minutes | Peak: 30 minutes | Duration:~ 1.5 hours | Rx only \*\*Inhale at the beginning of the meal\*\*  | Inhaler must be used within 15 days of 1st use. After 15 days, discard inhaler and replace with a new one. Cartridges (in use OR at room temperature)Sealed: 10 days Opened strips: 3 days \*Before use, cartridges should be at room temperature for 10 minutes | N/A (dry powder) |

***Non-insulin agents (GLP-1 agonists & Amylin analogs)***

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| Brand (generic) | Expiration once opened |
| Byetta® (exenatide) | 30 days |
| Bydureon® (exenatide ER) | 28 days  |
| Victoza® (liraglutide) | 30 days  |
| Trulicity® (dulaglutide) | 14 days  |
| Ozempic® (semaglutide) | 56 days |
| Adlyxin (lixisenatide) | 14 days  |
| Symlin® (pramlintide) | 30 days  |