

# Insulin PocketCard™



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Action		Insulin Name	Onset	Peak	Effective Duration	Considerations
<b>Bolus</b>	Rapid Acting Analogs	Aspart (Fiasp)	2.5 min	~ 60 min	3 - 5 hrs	Bolus insulin lowers after-meal glucose. Post meal BG reflects efficacy.  Basal insulin controls BG between meals and nighttime. Fasting BG reflects efficacy.
		Aspart (Novolog)	5 - 15 min	30 - 90 min	< 5 hrs	
		Lispro (Humalog)*, Admelog				
		Glulisine (Apidra)				
Short Acting	Regular*	30 - 60 min	2 - 3 hrs	5 - 8 hrs		
<b>Basal</b>	Intermediate	NPH	2 - 4 hrs	4 - 10 hrs	10 - 16 hrs	Side effects: hypoglycemia, weight gain.  Typical dosing range: 0.5-1.0 units/kg body wt/day.  Discard open vials after 28 days. For pen storage guidelines, see package insert.
	Long Acting	Detemir (Levemir)	3 - 8 hrs	No peak	6 - 24 hrs	
		Glargine (Lantus*/ Basaglar) Degludec (Tresiba)*	2 - 4 hrs		~ 1 hr	
<b>Basal + Bolus</b>	Intermediate + short	Combo of NPH + Reg 70/30 = 70% NPH + 30% Reg 50/50 = 50% NPH + 50% Reg	30 - 60 min	Dual peaks	10 - 16 hrs	
	Intermediate + rapid	Novolog® Mix - 70/30 Humalog® Mix - 75/25 or 50/50	5 - 15 min		24 hrs	

\*Concentrated insulins available - see next page for details.

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Insulin action times vary. Time periods listed here are general guidelines only; please consult prescribing information for details.

# Concentrated & Inhaled Insulins

Name/Concentration	Insulin/Action	Considerations
Humulin Regular U-500 <ul style="list-style-type: none"><li>500 units insulin/mL</li><li>KwikPen or Vial</li></ul>	Regular Bolus / Basal	5 xs concentration of u-100 insulin. Indicated for pts taking 200+ units insulin daily. 3 mL Pen – Once opened, good for 28 days. 20 mL Vial – Once opened, good for 40 days. Use designated U-500 insulin syringe.
Humalog KwikPen U-200 200 units insulin/mL	Lispro (Humalog) Bolus	2 xs concentration of u-100 insulin. 3 mL Pen. Once opened, good for 28 days
Toujeo Solostar U-300 Pen 300 units insulin/mL	Glargine (Lantus) Basal	3 xs concentration of u-100 insulin 1.5 mL or 3 mL (Max Solostar) Pen.
Tresiba FlexTouch U-200 Pen 200 units insulin/mL	Degludec (Tresiba) Ultra basal	2 xs concentration of u-100 insulin 3 mL Pen. Once opened, good for 8 weeks

**All concentrated insulin pens and the U-500 syringe automatically deliver correct dose (in less volume). No conversion, calculation or adjustments required. For example, if order reads 30 units, dial the concentrated pen to 30 units or draw up 30 units on the U-500 syringe. Important – never withdraw concentrated insulin from the pen using a syringe.**

## Inhaled Insulin

Action	Insulin Name	Dose Range	Onset	Peak	Duration	Considerations
Bolus – Rapid-acting	Afrezza Inhaled regular human insulin	4, 8, and 12 unit cartridges before meals	~ 12 min	35 - 45 mins	1.5 - 3 hrs	Assess lung function. Avoid in lung disease — bronchospasm risk. Side effects: hypo, cough, throat irritation.