

Insulin Overview



Insulin Action	BOLUS Insulin	BOLUS Insulin	Intermediate Basal Insulin	24 hour basal Insulin	24-42 hour Basal insulin	24 hour basal insulin	24 hour Basal insulin
	REGULAR	Humalog (lispro) Novolog (aspart) Apidra (glulisine)	NPH	Lantus/ Basaglar (glargine)	Tresiba (Degludec) Very long acting	Toujeo (concentrated Glargine)	Levemir (Detemir)
Onset	30 minutes	5-10 minutes	1-2 hours	1-2 hours	1-2 hours	1-2 hours	1-2 hours
Peak	2-3 hours	1-2 hours	6-8 hours	none	none	none	none
Duration	4-6 hours	3-4 hours	10-12 hours	24 hours	42 hours	24 hours	12-18 hours
Other	<ul style="list-style-type: none"> • Clear • U-100 • Vial • only 	<ul style="list-style-type: none"> • Clear • U-100 • Vial, pen cartridge • Keep pen 1 month only at room temp OR in refrig • Can mix • With NPH only • Open pens • At room temp 	<ul style="list-style-type: none"> • Cloudy • U-100 • Vial or pen • Keep open pen at room temp for 10 days 	<ul style="list-style-type: none"> • Clear • U-100 • Vial or pen • Keep for 1 month only • Do not mix with other insulins in same syringe • Give once a day within 2 hr window • Open pens must be at room temp 	<ul style="list-style-type: none"> • Clear • U-100 or U-200 • Pen only • Good for 56 days (8 wks) @ room temp OR refrigerated • Give @same time each day if possible • Never use a syringe to remove Tresiba from pen • Wait 3-4 days between dose changes 	<ul style="list-style-type: none"> • Clear • U-300 (1.5 ml) 450 units/pen • Pen only • Good for 42 days (6 wks) • Open pens must be at room temp • Give once/day within 2 hour window • Never use a syringe to remove Toujeo from the pen 	<ul style="list-style-type: none"> • Clear • U-100 • Vial or pen • Keep for 42 days (6 weeks only) • Usually 2 injections/ day 12 hours apart • Do not mix with other insulins in the same syringe. • May need twice a day • Open pens must be at room temp