

INSULIN[®] THERAPY 2012

CLASS	INSULIN TYPE	BRAND	FORMULATIONS	ONSET of Action	PEAK	DURATION of Action	BASAL/ BOLUS	MEAL TIMING	APPEARANCE
Rapid Acting	Lispro	Humalog [❖]	Vials, cartridges, pens	5-15 min	1-2 hours	2-4 hours	Bolus	15 min before or immediately after	Clear
	Aspart	Novolog	Vials, cartridges, pens			2-4 hours		5-10 min before	
	Glulisine	Apidra	Vials, pen			2-4 hours		Within 15 min before or within 20 min after starting a meal	
Short Acting	Regular	Humulin R [❖]	Vials	30-60 min	2-4 hours	4-6 hours	Bolus	30 min before meals	Clear
		Novolin R	Vials						
Intermediate Acting	NPH	Humulin N [❖]	Vials, cartridges	1-2 hours	4-8 hours	10- 20 hours	Basal	Within 15 min before meals when mixed with rapid-acting insulin; 30 min before meals when mixed with regular insulin	Cloudy
		Novolin N	Vials						
	Detemir	Levemir	Vials, pen	1-2 hours	6-8 hours	Dose-dependent [#]	Basal	N/A	Clear
Long Acting	Glargine	Lantus	Vials, pens	1-2 hours [★]	Flat [◆]	~24 hours [▲]			
	Detemir	Levemir	Vials, pen	1-2 hours	6-8 hours	Dose-dependent [#]	Basal	N/A	
Combination	70 NPH/30 Regular	Humulin 70/30 [❖]	Vials, pens	30-60 min		10-16 hours		Approximately 30 min before meals	Cloudy
		Novolin 70/30	Vials						
	70 aspart protamine/30 insulin aspart	Novolog Mix 70/30	Vials, cartridges, pens	10-20 min				Within 15 min of meal	
	75 lispro protamine/25 lispro	Humalog Mix 75/25	Vials, pens	Less than 30 min		15-18 hours			
High Strength U-500 Insulin	Regular	Humulin RU-500 [⌘]	Vials	30 min	2-4 hours	6.5-8 hours	Basal/ Bolus	Varies [⌘]	Clear

⊙ The time course of action (onset of action, peak, duration of action) of any insulin may vary in different individuals or at different times in the same individual and can sometimes be dependent on dose. Time periods indicated should be considered a general guide only. Time may vary based on initial and subsequent doses. Consult with insulin package insert for additional information.

⌘ U-500 is a high-strength concentration of insulin (5-fold higher concentration than U-100 insulin) and typically used in people with very high insulin resistance; consultation with a diabetes specialist is recommended. See Section 4: Glycemic Control for more information related to U-500 use and precautions.

◆ Some people may have a peak at 10-14 hours and the duration may be <24 hours.

Dose response studies indicate an approximate duration of action of 6-12 hours for Detemir dose of <0.4 units/kg and duration of action of 20-24 hours for Detemir dose of ≥0.4 units/kg.

★ A 4-5 hour onset of action with initial dosing may occur based on expert opinion.

▲ Some people may benefit from a BID dose schedule.

❖ Available in Humulin[®]/ReliOn[®] insulin manufactured for Walmart by Eli Lilly