

## Insulin modes of action

		Insulin Trade name (generic name)	Mode of action		
			Onset	Peak	Duration
Fast-acting (or mealtime/ bolus) insulins	Ultra-rapid	Fiasp (Rapid Aspart)	4 min	1 to 2hrs	3 to 4hrs
	Rapid-acting (analog)	Trurapi (Aspart; biosimilar)	10 to 20 min	1 to 3hrs	3 to 5hrs
		Kirsty (Aspart; biosimilar)			
		Novorapid (Aspart)			
		Apidra (Glulisine)	10 to 15 min	1h to 1.5 hrs	3 to 5hrs
		Admelog (Lispro; biosimilar)	10 to 15 min	1 to 2hrs	3 to 4 3/4 hrs
		Humalog (Lispro; U100 and U200)			
	Short-acting	Humulin R (Regular insulin)	30 min	2 to 4hrs	6 to 8hrs
		Novolin ge Toronto (Regular insulin)			
Basal insulins	Intermediate- acting	Humulin N (NPH insulin)	1 to 2hrs	6 to 12hrs	18 to 24hrs
		Novolin ge NPH (NPH insulin)			
	Long-acting (analog)	Levemir (Detemir)	1 to 2hrs	1 to 2 hrs	up to 24hrs
		Basaglar (Glargine; biosimilar)	1 to 1.5 hrs		24hrs
		Lantus (Glargine)			
		Semglee (Glargine; biosimilar)			
	Ultra-long acting	Toujeo (Glargine U300)	up to 6hrs		30hrs
		Tresiba (Degludec; U100, U200)	1hr		42hrs
	Weekly basal	Awiqly (Icodec; U700)			
Premixed Insulins	Humulin 30/70 (30% Regular, 70% NPH)		30 min	2 to 3hrs and 5 to 8hrs	up to 24hrs
	Novolin ge 30/70 (30% Regular, 70% NPH)				
	Humalog Mix25 (25% Lispro, 75% Lispro protamine)		10 to 15 min	1 to 2 hrs and 5 to 8hrs	
	Humalog Mix50 (50% Lispro, 50% Lispro protamine)				
	NovoMix 30 (30% Aspart, 70% Aspart protamine)		10 to 20 min	1 to 4hrs	