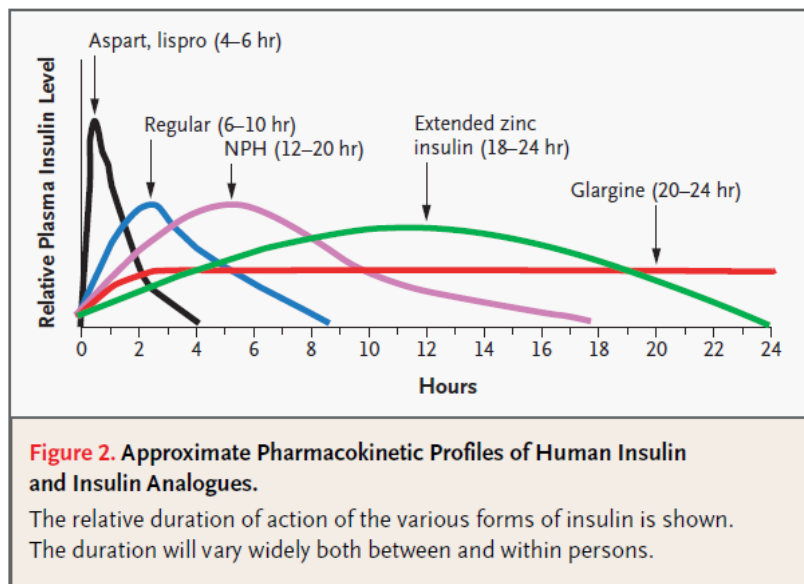


## Insulin Preparations

Insulin Preparations			Onset	Peak	Usual Effective Duration	Comments
	Generic Name	Trade Name				
Rapid acting	Aspart	Novolog®	< 15 min	0.5-3 hr	3-5 hr	Onset and peak varies between products for each patient
	Lispro	Humalog®				
	Glulisine	Apidra®				
Short acting	Regular	Humulin R® Novolin R®	0.5-1 hr	2-3 hr	3-6 hr	U-500 strength has a slower onset and longer duration than U-100
Intermediate acting	NPH	Humulin N® Novolin N®	2-4 hr	4-10 hr	10-18 hr	
Long acting	Glargine	Lantus®	1 hr	No peak	24 hr	U-300 formulation of glargine (Toujeo®) is now available in the community
	Detemir	Levemir®	1-2 hr	No peak	Dose dependent 6-23 hr	Patients often require detemir twice daily
Combinations	70% NPH + 30% Regular	Humulin® 70/30 Novolin® 70/30	0.5-1 hr	Two peaks: 2-3 hr and 4-10 hr	10-18 hr	Humulin 70/30 and Novolog Mix 70/30 are available at MMC
	70% Aspart Protamine + 30% Aspart	Novolog® Mix 70/30	< 15 min	Two peaks: 1-3 hr and 4-10 hr		
	50% Lispro Protamine + 50% Lispro	Humalog® 50/50		Two peaks: 0.5-1.5 hr and 4-10 hr		
	75% Lispro Protamine + 25% Lispro	Humalog® Mix 75/25				



Hirsch IB. Insulin Analogues. *N Engl J Med.* 2005;352:174-83