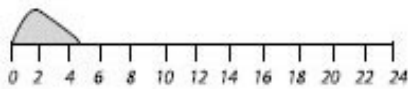
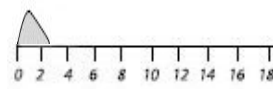

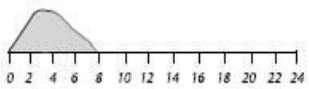
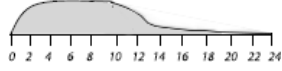
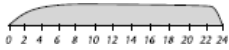
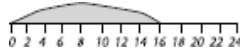
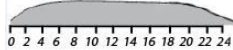
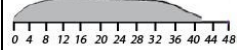
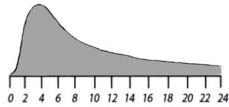
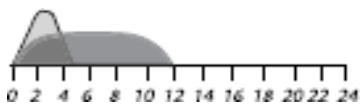

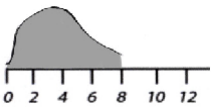
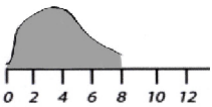


Insulin Products

	Rapid-Acting			Ultra-Rapid Acting	Short-Acting	
	(Meal Time and Correction Scale Coverage)			(Meal Time and Correction Scale Coverage)	(Meal Time and Correction Scale Coverage)	
Brand Name	Apidra	Novolog	Humalog Admalog	Afrezza	Fiasp	Humulin R, Novolin R
Generic name	Glulisine	Aspart	Lispro		Aspart	Regular
Formulations	Vial, Pen			Inhaled	Vial, Pen	Vial, Pen Vial
Color	Clear			N/A	Clear	Clear
Action Curve						
Onset	5-15 minutes			< 15 minutes	2.5 minutes	30 to 60 minutes
Peak	1 to 2 hours			50 minutes	30-90 minutes	2 to 4 hours
Duration	3 to 5 hours			2-3 hours	3-5 hours	6-8 hours
Notes	May need to take 5 -15 minutes before meal					Take 30 minutes before meal

	Intermediate-Acting (Basal Coverage)		Long-acting (Basal Coverage)		Ultra-long Acting	
Brand Name	Novolin N	Humulin N	Lantus	Levemir	Toujeo	Tresiba
Generic name	NPH		Glargine	Detemir	Glargine U-300	Degludec
Formulations	Vial	Vial, Pen	Vial, Pen	Vial, Pen	Pen	Pen
Color	Cloudy		Clear	Clear	Clear	Clear
Action Curve						
Onset	2 to 4 hours		Begins working in 1 hour. Reaches full activity within 4 to 5 hours and continues at a constant level for 24 hours.	50 to 120 minutes	6 hours	30 to 90 minutes
Peak	4 to 10 hours			6 to 8 hours	No peak	No peak
Duration	14 to 24 hours			16 hours	36 hours	42 hours
Notes			Do not mix with other insulin. Given once or twice daily.			

	Combination Insulin			Other Insulins	
Brand Name	Humalin 70/30	Novolog 70/30 Humalog 75/25	Novolin 70/30	Humalin R U-500	Humalog U-200
Generic name	NPH/Regular	Aspart Lispro	NPH/Regular	Regular U-500	Lispro U-200
Formulations	Vial, Pen	Vial, Pen	Vial	Vial, Pen	Pen
Color	Cloudy	Cloudy	Cloudy	clear	
Action Curve					
Onset	30-60 minutes	10 to 20 minutes	30 to 60 minutes	30 minutes	15 minutes
Peak	varies	1 to 3 hours & 6 to 10 hours	2 to 3 hours & 6 to 10 hours	8 hours	30-90 minutes
Duration	10-16 hours	10 to 12 hours	10 to 12 hours	Up to 24 hours	3-5 hours
Notes		Do not mix with other insulin. Mixing could alter insulin action.		If using vial: there are special insulin syringes	

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