Appendix 1. Types of insulin available

Туре	Brand name	Manufacturer	Nature	
Mealtime or prandial insulins		<u>'</u>		
Ultra rapid-acting (onset in 5-10 minutes, peak at 30 minutes, du	ration for 3.5-4 hor	urs)		
Faster insulin aspart	FiAsp	Novo Nordisk	Analogue	
Rapid-acting (onset in 15–20 minutes, peak at one hour, duration				
Insulin lispro	Humalog	Lilly	Analogue	
Insulin aspart	NovoRapid	Novo Nordisk	Analogue	
Insulin glulisine	Apidra	Sanofi	Analogue	
Short-acting (onset in ~1 hour, peak at two to five hours, duration for six to eight hours)				
Neutral	Actrapid	Novo Nordisk	Human	
	Humulin R	Lilly	Human	
Basal insulins				
Intermediate-acting				
Isophane	Humulin NPH	Lilly	Human	
	Protaphane	Novo Nordisk	Human	
Insulin detemir	Levemir	Novo Nordisk	Analogue	
Onset in three to four hours, peak at three to eight hours, duration for 20–24 hours				
Insulin glargine (U100)	Optisulin	Sanofi	Analogue	
Onset in one to two hours, flat, duration for 18-24 hours				
	Semglee	Alphapharm	Analogue	
Insulin glargine (U300)	Toujeo	Sanofi	Analogue	
Onset in one to two hours, flat, duration for 24–36 hours				
Premixed insulins				
Lispro 25%/lispro protamine 75%	Humalog Mix 25	Lilly	Analogue	
Onset in 15–20 minutes, peak at one hour, duration for 14–24 hours				
Lispro 50%/lispro protamine 50%	Humalog Mix 50	Lilly	Analogue	
Onset in 15–20 minutes, peak at one hour, duration for 14–24 hours				

Туре	Brand name	Manufacturer	Nature
Insulin aspart 30%/insulin aspart protamine 70%	NovoMix 30	Novo Nordisk	Analogue
Onset in 15-20 minutes, peak at one hour, duration for 14-24 hours			
Neutral 30%/isophane 70%	Humulin 30/70	Lilly	Human
Onset in one to two hours, peak at two to five hours, duration for 12–18 hours			
	Mixtard 30/70	Novo Nordisk	Human
Neutral 50%/isophane 50%	Mixtard 50/50	Novo Nordisk	Human
Onset in one to two hours, peak at two to five hours, duration for 12–18 hours			
Insulin co-formulation			,
Insulin degludec 70% and insulin aspart 30%	Ryzodeg 70/30	Novo Nordisk	Analogue
Onset in 5–20 minutes, peak at one hour, duration for 36–48 hours			

Ultra-rapid acting insulin should be administered from up to two minutes before a meal, or at the start of a meal, or up to 20 minutes after starting a meal.

Rapid-acting, pre-mixed and co-formulated insulin should be administered 15 minutes prior to a meal.

Short-acting insulin should be administered 20-30 minutes prior to a meal.

Intermediate- and long-acting basal insulins can be given irrespective of a meal.