TYPES OF INSULINS						
TYPE OF INSULIN	BRAND NAME	ONSET OF ACTION	PEAK ACTION	DURATION OF ACTION	APPEAR- ANCE	CAN BE MIXED WITH:
RAPID-ACTIN	G (BOLUS/MEAI	TIME) INSULI	NS			
Insulin aspart	NovoLog	5–10 minutes	1–3 hours	3–5 hours	clear	NPH, but only on the advice of a doctor. If mixed, aspart should be drawn into the syringe first, and the mix- ture injected immediately
Insulin glulisine	Apidra	15 minutes	30 minutes to 1½ hours	3–5 hours	clear	NPH
Insulin lispro	Humalog	15 minutes	30 minutes to 1½ hours	4–5 hours	clear	NPH, Ultralente, but only on the advice of a doctor. If mixed, lispro should be drawn into the syringe first, and the mixture injected immediately.
SHORT-ACTIN	NG (BOLUS/MEA	LTIME) INSUL	IN			
Regular	Humulin R Novolin R	30 minutes to 1 hour	2–4 hours	5–7 hours	clear	NPH, Lente, Ultralente
INTERMEDIA	ΓΕ-ACTING (BASA	AL/BACKGROU	UND) INSULIN	1		
NPH	Humulin N Novolin N	1–2 hours	6–14 hours	24+ hours	cloudy	Regular
LONG-ACTIN	G (BASAL/BACKO	GROUND) INSU	ULINS			
Insulin detemir	Levemir	1½ hours	"peakless" action	up to 24 hours	clear	Do not mix with other insulins.
Insulin glargine	Lantus	1½ hours	"peakless" action	24 hours	clear	Do not mix with other insulins.
PREMIXED IN	SULINS					
Insulin aspart protamine suspension/ aspart	NovoLog Mix 70/30	10–20 minutes	1–3¾ hours	up to 24 hours	cloudy	Do not mix with other insulins.
Insulin lispro protamine suspension/ lispro	Humalog Mix 50/50	15–30 minutes	30 minutes to 2½ hours	14–24 hours	cloudy	Do not mix with other
Insulin lispro protamine suspension/ lispro	Humalog Mix 75/25	15–30 minutes	30 minutes to 2½ hours	14–24 hours	cloudy	Do not mix with other insulins.
NPH suspen- sion/Regular	Humulin 50/50	30 minutes to 1 hour	2–5½ hours	14–24 hours	cloudy	Do not mix with other insulins.
NPH suspen-	Humulin70/30	30-60	2–6 hours	14–24 hours	cloudy	Do not mix with other

The insulins and insulin mixtures listed in this table are currently approved for marketing in the United States. All are stable at room temperature for 28 days in the original vial. For insulin pens and similar delivery devices, see the package insert for the amount of time the pen or device may be stored at room temperature. All of the action times shown are estimates: The onset, peak, and duration of action may vary considerably from the times listed due to individual variations.

insulins.

Diabetes Self-Management, "Understanding Insulin" by Laura Hieronymus, M.S.Ed., A.P.R.N., B.C.-A.D.M., C.D.E., and Patti Geil, M.S., R.D., C.D.E.

Novolin 70/30

minutes

sion/Regular

^{*} Humulin L and Humulin U were discontinued in July 2005; existing supplies were expected to last through December 2005.