

INSULIN COMPARISON CHART

University of Kentucky Chandler Medical Center



Revised:
3/22/07

<u>Insulin</u>	<u>Type of Insulin</u>	<u>Onset</u>	<u>Peak</u>	<u>Duration</u>	<u>Appearance</u>	<u>SCM Code</u>	<u>Formulary Status</u>
NovO LOG (aspart)	Rapid Onset	10-30 min	1 to 3 hours	3 to 5 hours	Clear	Insulin Aspart (NOVOLOG)	F
Hum A LOG (lispro)	Rapid-Onset	15-30 min	30 min to 1.5 hour	3 to 5 hours	Clear	Therapeutic equivalence with aspart analog	NF
Novo LIN Regular (R)	Short Acting	½ to 1 hour	2-4 hours	6 to 10 hours	Clear	Insulin Regular Inj	F
Hum U LIN Regular (R)	Short Acting	½ to 1 hour	2-4 hours	6 to 10 hours	Clear	Therapeutic equivalence to Novo LIN Regular	NF
Novo LIN NPH (N)	Intermediate Acting	1 to 4 hours	4 to 14 hours	10 to 24 hours	Cloudy	Insulin NPH inj. HUMAN	F
Hum U LIN NPH (N)	Intermediate Acting	1 to 4 hours	4 to 14 hours	10 to 24 hours	Cloudy	Therapeutic equivalence to Novo LIN NPH	NF
Novo LIN Lente (L)	Intermediate Acting	1 to 4 hours	4 to 14 hours	12 to 24 hours	Cloudy	Novo LIN NPH is the formulary intermediate acting insulin	NF
Hum U LIN Lente (L)	Intermediate Acting	1 to 4 hours	4 to 14 hours	12 to 24 hours	Cloudy	Novo LIN NPH is the formulary intermediate acting insulin	NF
Glargine (Lantus®)	Long Acting	1 to 2 hours	2 to 20 hours	20 to 24 hour basal insulin	Clear	Insulin Glargine (Lantus)	F

INSULIN COMPARISON CHART

University of Kentucky Chandler Medical Center



Revised:
3/22/07

<u>Insulin</u>	<u>Type of Insulin</u>	<u>Onset</u>	<u>Peak</u>	<u>Duration</u>	<u>Appearance</u>	<u>SCM Code</u>	<u>Formulary Status</u>
Detemir (Levemir®)	Long Acting	3-4 hours	6-8 hours	6 to 24 hours	Clear	Insulin Detemir (Levemir)	F restricted to pediatrics
NovOLIN 70/30 mix	Intermediate-Acting + Short-Acting	30 min	2 to 12 hours	24+ hours	Cloudy	Insulin 70/30 (NPH/REG)	F
HumULIN 50/50**	Intermediate-Acting + Short-Acting	Approx. ½ to 1 hour	Approx. 2 to 12 hours	18 to 24 hours	Cloudy	Available as separate components	NF
NovOLOG 70/30 mix**	Intermediate-Acting + Rapid-Acting	Approx. 10 to 30 min	Approx. 1 to 3 hours	Up to 24 hours	Cloudy	Available as separate components	NF
HumALOG 75/25 mix**	Intermediate-Acting + Rapid-Acting	Approx. 15 to 30 min	Approx. 1 to 3 hours	16 to 20 hours	Cloudy	Available as separate components	NF
HumULIN Ultra Lente (U)	No longer manufactured	4 to 10 hours	8 to 30 hours	18 to 36 hours	Cloudy	Insulin Glargine is the formulary long acting insulin	NF

- Onset, Peak, and Duration may vary considerably in different people
- Novolog® premix insulins (i.e. 70/30, 75/25) can be approximated utilizing the available separate components
- When mixing insulin in a syringe, draw up the quickest acting insulin first (e.g. draw up NovOLOG before NovOLIN NPH, or draw up NovOLIN R before NovOLIN NPH).
- Only HumULIN R (Regular) insulin may be infused intravenously.
- Do not mix Lantus with any other insulin.
- Products that are considered interchangeable are within the same box on the table.

****NOTE: No sufficient data available for Onset, Peak, and Duration of HumULIN 50/50, NovOLOG 70/30, or Humalog 75/25. Values in chart are APPROXIMATED values.**