

INSULIN ANALOGUES	Ultra short acting: Lispro,Aspart,Glulisine (RAPID)	Shot acting: Regular insulins.	Intermediate acting: <b>NPH.</b>	Intermediate acting: <b>LENTE.</b> (Humulin, Novilin)	Long acting: Glargine (lantus), detemer (levemir)
<b>Physical Characteristics</b>	Clear solution	Clear solution	Turbid suspension	Turbid suspension	Clear solution BUT precipitates at site of injection.
<b>Chemistry</b>	-Monomer -When mixed with other insulins, it must be used immediately	Hexamer	Combination of protamine & crystalline Zinc	30% semilente 70% ultralente	Should not be mixed with other insulins in same syringe.
<b>ROUTE</b>	S.C (before meal 5-15min) I.V for emergency DKA	S.C (before meal 30-45min) I.V for emergency DKA	<b>S.C ONLY</b>	<b>S.C ONLY</b>	<b>S.C ONLY</b>
<b>Onset of action</b>	<b>5-15 MIN</b>	<b>30-45 MIN</b>	<b>1-2 HOURS</b>	<b>1-3 HOURS</b>	<b>2 HOURS</b>
<b>Peak level</b>	30-90 MIN	2-4 HOURS	<b>5-7 HOURS</b>	<b>4-8 HOURS</b>	Peakless profile, max effect: 4-5h
<b>Duration of action</b>	<b>3-5 HOURS</b>	<b>6-8 HOURS</b>	<b>13-18 HOURS</b>	<b>13-20 HOURS</b>	24 HOURS
<b>Uses</b>	Postprandial hyperglycemia & emergency DKA.	Postprandial hyperglycemia & emergency DKA.	Combined with lispro,aspart or regular insulin	-	-Produce plasma conc. Plateau (low continuous insulin level) -Used with rapid or short acting regimens