



ADULT

# INSULIN



This document should be read in conjunction with this [DISCLAIMER](#)

**HIGH RISK Medication** 

<b>Presentation</b>	All products contain 100 units of insulin per mL:		
	Insulin Type	Insulin	Form and Brand (Volume)
	<b>Ultra-short acting</b>	Insulin aspart (analogue)	<b>Pen:</b> NovoRapid FlexPen® (3mL) <b>Cartridge:</b> NovoRapid Penfill® (3mL) <b>Vial:</b> NovoRapid® (10mL)
		Insulin lispro (analogue)	<b>Cartridge:</b> Humalog® (3mL)
	<b>Short acting</b>	Neutral insulin (human)	<b>Cartridge:</b> Actrapid Penfill®, Humulin R® (3mL)
	<b>Long acting</b>	Isophane insulin (human)	<b>Cartridge:</b> Humulin NPH®, Protaphane Penfill® (3mL) <b>Innolet:</b> Protaphane InnoLet® (3mL)
		Neutral insulin/ Isophane insulin (human)	<b>Innolet:</b> Mixtard 30/70 InnoLet® (3mL)
		Insulin aspart/ Insulin aspart protamine (analogue)	<b>Pen:</b> NovoMix 30 FlexPen® (3mL)
		Insulin detemir (analogue)	<b>Pen:</b> Levemir FlexPen® (3mL)
		Insulin glargine (analogue)	<b>Cartridge:</b> Lantus® (3mL) <b>Pen:</b> Lantus SoloStar® (3mL)
<b>Dose</b>	Refer to relevant <b>KEMH Clinical Guidelines</b> for appropriate dose regimes (links below)		
<b>Administration</b>	<b>SUBCUT Injection:</b> Inject into the abdomen (preferred), upper arm, thigh or buttocks. Rotate site of injection. Do not massage site after injecting.		

	<p><b><u>IV Infusion:</u></b></p> <p><b>Step 1 Dilution:</b> Dilute 50 units of <b>short acting insulin</b> in 50mL Sodium Chloride 0.9%. Final concentration is 1unit/mL.</p> <p><b>Step 2 Administration:</b> Infuse via syringe pump</p>			
<b>Pregnancy</b>		<b>Safe to use</b>	<b>Considered safe to use</b>	
	<b>1<sup>st</sup> Trimester</b>		Insulin Glargine	
				Insulin Detemir
			Insulin Aspart	
			Insulin Isophane	
			Insulin Lispro	
		Insulin Neutral		
	<b>2<sup>nd</sup> Trimester</b>	As above	As above	
	<b>3<sup>rd</sup> Trimester</b>	As above	As above	
<b>Breastfeeding</b>	Safe to use			
<b>Monitoring</b>	Blood glucose levels, glycosylated haemoglobin (HbA1c)			
<b>Other clinical guidelines</b>	<p><a href="#">Diabetes in Pregnancy</a></p> <p><a href="#">Diabetes in Pregnancy: Medication</a></p> <p><a href="#">Intrapartum Management of Gestational Diabetes</a></p> <p><a href="#">Intrapartum Management of Type 1 Diabetes Mellitus</a></p> <p><a href="#">Intrapartum Management of Type 2 Diabetes Mellitus</a></p> <p><a href="#">Diabetes in Pregnancy: Diabetes Requiring Insulin or Oral Hypoglycaemic agents</a></p> <p><a href="#">Diabetes in Pregnancy: Hypoglycaemia management</a></p> <p><a href="#">Diabetes in Pregnancy: Management of Gestational Diabetes in the Team Obstetric Clinics</a></p> <p><a href="#">Diabetes Education</a></p> <p><a href="#">Insulin Administration – Elective Gynaecological Surgery</a></p> <p><a href="#">Insulin Administration - Emergency Gynaecological Surgery</a></p> <p><a href="#">Corticosteroids: Management in Pregnancy with Diabetes</a></p> <p><a href="#">Western Australia Department of Health: Know your insulins</a></p>			
<b>References</b>	<p>Australian Medicines Handbook. Insulin. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2017 [cited 2017 Sep 12]. Available from: <a href="https://amhonline.amh.net.au/">https://amhonline.amh.net.au/</a></p> <p>The Royal Women's Hospital. Insulin. In: Pregnancy and Breastfeeding Medicines Guide [Internet]. Parkville (Victoria): The Royal Women's Hospital; 2016 [cited 2017 Sep 12]. Available from: <a href="https://thewomenspbmg.org.au/">https://thewomenspbmg.org.au/</a></p>			

	Therapeutic Guidelines. Diabetes: management. In: eTG complete [Internet]. West Melbourne (Victoria): Therapeutic Guidelines; 2017 [cited 2017 Sep 12]. Available from: <a href="https://tgldcdp.tg.org.au">https://tgldcdp.tg.org.au</a>
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