

# 3Ts Insulin Formulary

(NOTE: Colour of text indicates formulary traffic light status of the insulin)

## Type 2 Diabetes

NPH basal insulin formulary options			Cost as per MIMS March 17
NPH Basal Insulin	First line	Humulin I	£19.08 (5 × 3mL cart)
		Insulatard	£21.70 (5 × 3mL KwikPen®) £22.90 (5 × 3mL cart) £20.40 (5 × 3mL Innolet®)
		Insuman Basal (if available)	£7.48 (10ml vial) £17.50 (5 × 3ml cart) £19.80 (5 × 3ml Solostar®) £5.61 (5ml vial)
Mix insulin and analogue basal insulin formulary options			Cost as per MIMS March 17
Pre-mixed insulin	First line Choice is dependent on proportion of short acting insulin required.	Humulin M3	£19.08 (5 × 3mL cart) £21.70 (5 × 3mL KwikPen®) £15.68 (10ml vial)
	Alternatives (if available)	Insuman Comb 25	£17.50 (5 × 3mL cart) £19.80 (5 × 3ml SoloSTAR) £5.61 (5ml vial)
	Note: analogue mixes should NOT be used in T2DM unless started <u>with specialist advice</u>	Novomix 30 Humalog Mix 25 Humalog Mix 50	£28.79 (5 × 3mL cart) £29.89 (5 × 3mL FlexPen®) £29.46 (5 × 3mL cart) £30.98 (5 × 3mL KwikPen®) £16.61 (10ml vial) £29.46 (5 × 3mL cart) £30.98 (5 × 3mL KwikPen®)
Analogue basal insulin For patients who have experienced hypoglycaemia on NPH insulin or at very high risk of hypoglycaemia  <b>This is not a standard choice and use should be minimised</b>	First Line	Abasaglar (Insulin Glargine)	£35.28 (5 × 3mL KwikPen®) £35.28 (5 × 3mL cart)
	Alternatives	Lantus (Insulin glargine) For existing pts/those with dexterity problems & needing >60 units per dose. Levemir (Insulin detemir)	£41.50 (5 × 3mL cart) £41.50 (5 × 3mL Solostar®) £30.68 (10ml vial) £42.00 (5 × 3mL cart) £42.00 (5 × 3mL FlexPen®) £44.85 (5 × 3mL Innolet®)
	Criteria for use: <ul style="list-style-type: none"> <li>High volume of 100 unit/ml injections of insulin with dose greater than 1.2 units /kg body weight.</li> <li>Morbidly obese (BMI &gt;35)</li> <li>Severe insulin resistance</li> <li>Poor blood glucose control (HbA1c &gt;70)</li> <li><b>Pt must be able to self-administer</b></li> </ul>	Tresiba insulin degludec 200 units/ml (High concentration insulin) Specialist Initiated Review criteria (at 6/12): <ul style="list-style-type: none"> <li>Improved blood glucose control</li> </ul>	£55.92 (3 × 3mL FlexTouch®)
Other formulary insulin options			Cost as per MIMS March 17
Basal bolus (only for patients with capacity to manage 4 injections/day)	Maintain current basal insulin (NPH is first line for all patients).	NPH Basal Analogue Basal	(as above) (as above)
	Add in HUMAN short acting insulin	Insuman Rapid Humulin S  Actrapid	£17.50 (5x 3mL cart) £19.08 (5x 3mL cart) £15.68 (10ml vial) £7.48 (10ml vial)

## Type 1 Diabetes

Analogue Basal Insulin Formulary Options		Cost as per MIMS March 17	
Choice based upon patient preference and glucose control	First line	<b>Abasaglar</b> ( <i>Insulin Glargine Biosimilar</i> ) <b>FIRST LINE CHOICE</b>	£35.28 (5 × 3mL KwikPen®) £35.28 (5 x 3ml cart)
		<b>Lantus</b> ( <i>Insulin glargine</i> ) EXISTING patients/ those with dexterity problems & needing >60 units per dose.	£41.50 (5 × 3mL cart) £41.50 (5 × 3mL Solostar®) £30.68 (10ml vial)
	Alternative choice	<b>Levemir</b> ( <i>Insulin detemir</i> )	£42.00 (5 × 3mL cart) £42.00 (5 × 3mL FlexPen®) £44.85 (5 × 3mL Innolet®)
	<b>Specialist initiation ONLY</b> Only for Type 1 diabetic patients with: <ul style="list-style-type: none"> <li>Treatment limiting recurrent severe hypoglycaemia despite optimized analogue basal bolus insulin treatment</li> <li>Have recurrent disabling hypoglycaemia prior to insulin pump therapy</li> <li>Patients with recurrent DKA due to delayed/irregular administration due to compliance or lifestyle factors requiring hospital admission</li> </ul>	<b>Tresiba U100</b> ( <i>Insulin degludec</i> ) This is reserved as a last resort when all other options have been trialed.	£46.60 (5 × 3mL cart) £46.60 (5 × 3mL FlexTouch®)
		Ensure correct strength is prescribed. This insulin is also available on formulary as 200 units/ml strength.	
		<b>Review criteria (at 6/12):</b> <ul style="list-style-type: none"> <li>No. of episodes of hypoglycaemia</li> <li>Acute unplanned admissions</li> <li>Improved blood glucose control</li> </ul>	
Analogue Rapid Acting Insulin Formulary Options		Cost as per MIMS March 17	
Choice based upon patient preference and glucose control	Equal choice	<b>Apidra</b> ( <i>insulin glulisine</i> )  <b>Humalog</b> ( <i>insulin lispro</i> )  <b>Novorapid</b> ( <i>insulin aspart</i> )	£28.30 (5x 3mL cart) £28.30 (5x 3mL Solostar®) £16.00 (5ml vial) £28.31 (5 × 3mL cart) £29.46 (5 × 3mL KwikPen®) £16.61 (10ml vial) £28.31 (5 × 3mL cart) £30.60 (5 × 3mL FlexPen®) £32.13 (5 × 3mL FlexTouch®) £28.31 (5 x 3ml cart) £14.08 (10ml vial)
Specialist Populations: Consultant Advice Needed			
Pregnancy	Gestational diabetes / T2DM	NPH Novorapid or Humalog	As per above tables
Severe insulin resistance	To be prescribed by secondary care ONLY	<b>Humulin R U500</b>	Approx £800 (1x 20ml vial) – imported unlicensed from US
Pen devices to use according to manufacturer			
Manufacturer	Pen Device		
Sanofi Aventis Insulin	Clik star ( half unit junior clik star available from DSN)		
Lilly insulin	Humapen Savvio (half unit Humpen Luxura Demi)		
Novo Nordisk	Novopen 5 ( half unit Novopen echo)		