## **PostScript**Extra



## Pharmacological management of adult patients with type 2 diabetes, No. 23, November 2013 Appendix 2- Insulin

Type of Insulin/Name of Insulin/(Brand name)	Compatible Injection Devices/(Type of Device <sup>(*)</sup> )	Formulary Status of Insulin
Analogues:		
Insulin lispro (Humalog®)	Autopen <sup>®</sup> Classic (reusable) HumaPen <sup>®</sup> (Luxura <sup>a</sup> , Luxura HD, Memoir) (reusable) KwikPen <sup>®</sup> (disposable)	Preferred List
Insulin aspart (NovoRapid®)	NovoPen <sup>®</sup> (reusable) FlexPen <sup>®</sup> (disposable) FlexTouch <sup>®</sup> (disposable)	Preferred List
Insulin glulisine (Apidra®)  Insulin Category: Short act	Autopen® 24 (reusable) ClikSTAR® (reusable) SoloStar® (disposable)	Total Formulary – restricted to use in patients where regular human soluble insulin is inappropriate.
	nins / Duration of Action* = 6-9 hours	
Type of Insulin/Name of Insulin/(Brand name)	Compatible Injection Devices/(Type of Device <sup>†</sup> )	Formulary Status of Insulin
Soluble or neutral insulin:		
Actrapid <sup>®</sup>	N/A	Preferred List
Humulin S <sup>®</sup>	Autopen <sup>®</sup> Classic (reusable) HumaPen <sup>®</sup> (Luxura <sup>a</sup> , Luxura HD, Memoir) (reusable)	Preferred List
Insuman <sup>®</sup> Rapid	Autopen <sup>®</sup> 24 (reusable) ClikSTAR <sup>®</sup> (reusable)	Preferred List
Hypurin <sup>®</sup> Bovine Neutral	Autopen® Classic (reusable)	Non- Formulary
Hypurin <sup>®</sup> Porcine Neutral	Autopen® Classic (reusable)	Non- Formulary

<sup>\*</sup>These figures are used as a guide only. The time course of action of any insulin may vary considerably in different individuals or at different times in the same individual. The duration of action is dependent on dose, site of injection, blood supply, temperature and physical activity.

<sup>♦</sup> Different devices and presentations for administration of the same insulin may differ in cost. When prescribing for the first time, use the most cost-effective device that best meets the patient's needs.

 $<sup>^{\</sup>rm a}$  HumaPen  $^{\rm g}$  Luxura injection device will be discontinued in March 2014 and replaced with the HumaPen  $^{\rm g}$  Savvio injection device.

Insulin Category: Intermed Onset of Action* = 1-2 hou	liate acting irs / Duration of Action* = 11-	24 hours	
Type of Insulin/Name of Insulin/(Brand name)	Compatible Injection Device Device <sup>(*)</sup>	s/(Type of	Formulary Status of Insulin
Isophanes (suspension of i	nsulin with protamine):		
Insulatard <sup>®</sup>	NovoPen <sup>®</sup> (reusable) InnoLet <sup>®</sup> (disposable)		Preferred List
Humulin I®	Autopen <sup>®</sup> Classic (reusable) HumaPen <sup>®</sup> (Luxura <sup>a</sup> , Luxura HD, Memoir) (reusable) KwikPen <sup>®</sup> (disposable)		Preferred List
Insuman <sup>®</sup> Basal	Autopen® 24 (reusable) ClikSTAR® (reusable) SoloStar® (disposable)		Non- Formulary
Hypurin <sup>®</sup> Bovine Isophane	Autopen® Classic (reusable)		Non- Formulary
Hypurin <sup>®</sup> Porcine Isophane	Autopen® Classic (reusable)		Non- Formulary
Insulin Category: Long actionset of Action* = 2-6 hou	ing irs / Duration of Action* = 24-	36 hours	
Type of Insulin/Name of Insulin/(Brand name)	Compatible Injection Devices/(Type of Device <sup>(*)</sup> )	Formulary Status of Insulin	
Non-analogues:			
Insulin zinc suspension (Hypurin® Bovine Lente)	N/A	Non-Formulary	
Protamine zinc insulin (Hypurin® Bovine Protamine Zinc)	N/A	Non-Formulary	
Analogues:	•	1	
Insulin detemir (Levemir <sup>®</sup> )	NovoPen <sup>®</sup> (reusable) FlexPen <sup>®</sup> (disposable) InnoLet <sup>®</sup> (disposable)	Total Formulary - restricted to initiation by consultant diabetologists in patients with severe/ frequent nocturnal hypoglycaemia. Not for routine use in type 2 diabetes unless patients suffers from recurrent episodes of hypoglycaemia.	
Insulin glargine (Lantus <sup>®</sup> )	Autopen® 24 (reusable) ClikSTAR® (reusable) SoloStar® (disposable)	Preferred List – In type 2 diabetes, restricted to those who suffer from recurrent episodes of hypoglycemia or require assistance with their insulin injections.	
Insulin degludec (Tresiba®)	FlexTouch® (disposable)	Non-Formu	lary

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<sup>♦</sup> Different devices and presentations for administration of the same insulin may differ in cost. When prescribing for the first time, use the most cost-effective device that best meets the patient's needs.

 $<sup>^{\</sup>rm a}$  HumaPen  $^{\rm @}$  Luxura injection device will be discontinued in March 2014 and replaced with the HumaPen  $^{\rm @}$  Savvio injection device.

Onset of Action* = 15 mins-2 hours / Duration of Action* = 11-24 hours				
Type of Insulin/Name of Insulin/(Brand name)	Compatible Injection Devices/(Type of Device <sup>(*)</sup> )	Formulary Status of Insulin		
Non-analogues (biphasic is	sophane insulin):			
Humulin M3 <sup>®</sup>	Autopen <sup>®</sup> Classic (reusable) HumaPen <sup>®</sup> (Luxura <sup>a</sup> , Luxura HD, Memoir) (reusable) KwikPen <sup>®</sup> (disposable)	Preferred List		
Insuman <sup>®</sup> Comb 15	Autopen <sup>®</sup> 24 (reusable) ClikSTAR <sup>®</sup> (reusable)	Non- Formulary		
Insuman <sup>®</sup> Comb 25	Autopen <sup>®</sup> 24 (reusable) ClikSTAR <sup>®</sup> (reusable) SoloStar <sup>®</sup> (disposable)	Non- Formulary		
Insuman <sup>®</sup> Comb 50	Autopen <sup>®</sup> 24 (reusable) ClikSTAR <sup>®</sup> (reusable)	Non- Formulary		
Hypurin <sup>®</sup> Porcine 30/70 Mix	Autopen® Classic (reusable)	Non- Formulary		
Analogues:				
Biphasic insulin aspart:		1		
NovoMix® 30	NovoPen <sup>®</sup> (reusable) FlexPen <sup>®</sup> (disposable)	Preferred List		
Biphasic insulin lispro:				
Humalog <sup>®</sup> Mix25	Autopen <sup>®</sup> Classic (reusable) HumaPen <sup>®</sup> (Luxura <sup>a</sup> , Luxura HD, Memoir) (reusable) KwikPen <sup>®</sup> (disposable)	Preferred List		
Humalog <sup>®</sup> Mix50	Autopen <sup>®</sup> Classic (reusable) HumaPen <sup>®</sup> (Luxura <sup>a</sup> , Luxura HD, Memoir) (reusable) KwikPen <sup>®</sup> (disposable)	Preferred List		

## For advice on insulin regimens and dosage adjustment refer to NHSGGC Diabetes Guideline

## References

BNF No. 66 Sep 2013

Manufacturer's Summary of Product Characteristics (SPC) available at <a href="http://www.medicines.org.uk/emc/">http://www.medicines.org.uk/emc/</a>

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