

## INSULINS

Types of insulin	Onset of action	Peak of action	Duration of action	Injection time
Rapid-acting insulin analogue <sup>1</sup>				
Apidra <sup>MD</sup> (glulisine)	10 to 15 minutes	1 to 1.5 hour	3 to 5 hours	0 to 15 minutes before meals
Humalog <sup>MD</sup> (lispro)	10 to 15 minutes	1 to 2 hours	3.5 to 4.75 hours	
Humalog 200 <sup>MD</sup> (lispro)	10 to 15 minutes	1 to 2 hours	3.5 to 4.75 hours	
NovoRapid <sup>MD</sup> (aspart)	10 to 20 minutes	1 to 3 hours	3 to 5 hours	0 to 10 minutes before meals
Fiasp <sup>®</sup> (rapid aspart)	4 minutes	1 to 2 hours	3 to 4 hours	0 to 2 minutes before meals. When necessary, may be administered up to 20 minutes after starting the meal
Short-acting insulin				
Humulin <sup>MD</sup> R	30 minutes	2 to 4 hours	6 to 8 hours	Approximately 30 minutes before meals
Novolin <sup>MD</sup> ge Toronto				
Intermediate-acting insulin				
Humulin <sup>MD</sup> N	1 to 2 hours	6 to 12 hours	18 to 24 hours	In the morning and/or evening, according to doctor's recommendations
Novolin <sup>MD</sup> ge NPH				
Long-acting insulin analogue				
Basaglar <sup>MC</sup> (glargine) <sup>2</sup>	1 to 1,5 hour	---	24 hours	In the morning and/or evening, according to doctor's recommendations
Lantus <sup>MD</sup> (glargine)	1 to 1,5 hour	---	24 hours	
Levemir <sup>MD</sup> (detemir)	1 to 2 hours	---	≤ 24 hours	
Toujeo <sup>MD</sup> (glargine-300 U/ml)	Up to 6 hours	---	30 hours	

There are also premixed insulins, which combine two types of insulin:

<b>Rapid-acting and intermediate-acting (analogues)<sup>1-2</sup></b>				
Humalog <sup>MD</sup> Mix 25	0 to 15 minutes	1 to 2 hours and 6 to 12 hours	18 to 24 hours	0 to 15 minutes before meals
Humalog <sup>MD</sup> Mix 50	0 to 15 minutes	1 to 2 hours and 6 to 12 hours	18 to 24 hours	
NovoMix <sup>MD</sup> 30	10 to 20 minutes	1 to 4 hours	≤ 24 hours	0 to 10 minutes before meals
<b>Short-acting and intermediate-acting<sup>3</sup></b>				
Novolin <sup>MD</sup> ge 30/70	30 minutes	2 to 4 hours et 6 to 12 hours	18 to 24 hours	Approximately 30 minutes before meals
Novolin <sup>MD</sup> ge 40/60				
Novolin <sup>MD</sup> ge 50/50				
Humulin <sup>MD</sup> 30/70				

<sup>1</sup> These insulins are sometimes injected after meals (< 15 minutes).

<sup>2</sup> This insulin is a subsequent entry biologic (SEB) product from biotechnology which presents a similarity with the reference product Lantus<sup>®</sup>.

<sup>3</sup> The number represents the percentage of rapid-acting insulin analogue.

<sup>4</sup> The first number represents the percentage of short-acting insulin and the second, the percentage of intermediate-acting insulin.