

Injectable Medications for Diabetes

Short/Rapid-Acting Insulin	
<p>Rapid-Acting Analogues</p> <ul style="list-style-type: none"> • Insulin aspart (<i>Fiasp</i>) • Insulin aspart (<i>NovoRapid</i>) • Insulin glulisine (<i>Apidra</i>) • Insulin lispro (<i>Humalog</i>) • Insulin lispro 200 units/mL (<i>Humalog 200</i>) <ul style="list-style-type: none"> - inject 0 to 15 minutes before meals - start to work in 10 to 15 minutes - peak 1 to 2 hours after injection - last about 3 to 5 hours - clear, colourless - <i>Fiasp</i> starts to work twice as fast as <i>Novorapid</i> - inject <i>Fiasp</i> up to 2 minutes before meals 	<p>Short-Acting</p> <ul style="list-style-type: none"> • Regular (<i>Humulin R; Novolin ge Toronto</i>) • Regular 500 units/mL (<i>Entuzity</i>) <ul style="list-style-type: none"> - inject 30 minutes before meals - start to work in about 30 minutes - Regular peaks 2 to 3 hours after injection - Regular lasts 5 to 8 hours - <i>Entuzity</i> peaks 4 to 8 hours after injection - <i>Entuzity</i> lasts up to 24 hours - clear, colourless

Intermediate/Long-Acting Insulin	
<p>Intermediate-Acting</p> <ul style="list-style-type: none"> • NPH (<i>Humulin N; Novolin ge NPH</i>) <ul style="list-style-type: none"> - usually injected once or twice daily - starts to work in about 1 to 3 hours - peaks 5 to 8 hours after injection - lasts up to 18 hours - cloudy; must be gently mixed before injection 	<p>Long-Acting Analogues</p> <ul style="list-style-type: none"> • insulin degludec 100 units/mL & 200 units/mL (<i>Tresiba</i>) • insulin detemir (<i>Levemir</i>) • insulin glargine (<i>Lantus; Basaglar</i>) • insulin glargine 300 units/mL (<i>Toujeo</i>) <ul style="list-style-type: none"> - usually injected once or twice daily - <i>Lantus, Levemir</i> and <i>Basaglar</i> start to work in about 1 to 2 hours - <i>Lantus, Levemir</i> and <i>Basaglar</i> last about 16 to 24 hours with no peak - <i>Toujeo</i> starts to work in about 6 hours and lasts up to 30 hours with no peak - <i>Tresiba</i> starts to work in about 1 hour and lasts more than 42 hours with no peak - clear, colourless

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Pre-Mixed Insulin

Pre-Mixed

- *Humulin 30/70* (30% regular; 70% NPH)
- *Novolin ge 30/70* (30% regular; 70% NPH)
- *Novolin ge 40/60* (40% regular; 60% NPH)
- *Novolin ge 50/50* (50% regular; 50% NPH)

- usually injected twice daily (breakfast & supper)
- cloudy; must be gently mixed before injection

Pre-Mixed Analogues

- *Humalog Mix25* (25% rapid-acting; 75% longer-acting)
- *Humalog Mix50* (50% rapid-acting; 50% longer-acting)
- *NovoMix 30* (30% rapid-acting; 70% longer-acting)

- usually injected twice daily (breakfast & supper)
- cloudy; must be gently mixed before injection

GLP-1 Analogues

Daily

- liraglutide (*Victoza*) 0.6mg-1.8mg per day (with or without food)
- lixisenatide (*Adlyxine*) 10mcg-20mcg per day (within 1 hour prior to any meal)

Weekly

- dulaglutide (*Trulicity*) 0.75mg-1.5mg once weekly
- semaglutide (*Ozempic*) 0.25mg-1mg once weekly

- replaces GLP-1 usually made by the body
- ONLY approved for people with Type 2 Diabetes
- may result in some weight loss
- nausea is a common side effect; it decreases over time in most people
- clear, colourless

Basal Insulin/GLP-1 Analogue combinations

- insulin glargine/lixisenatide (*Soliqua*) 15-60 units once daily (within 1 hour of first meal of the day)
- insulin degludec/liraglutide (*Xultophy*) 16-50 units per day (with or without food)

- provides insulin and GLP-1 analogue in single daily injection
- ONLY approved for people with Type 2 Diabetes
- may result in some weight loss
- nausea is a common side effect; it decreases over time in most people
- clear, colourless

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