Insulin specific properties - Prandial (bolus) insulin								
Agent (100 units/mL unless otherwise specified)	Onset ¹	Peak ¹	Dura- tion ¹	Comments	Coverage (ODB ²⁸ , NIHB ²⁹)	Dosage forms ²⁸	Drug cost for dosage forms ³⁰	Drug cost for usual dose* (25 units/day for 100 days supply)
Rapid-acting								
Aspart (Novorapid®)	9-20 min	1-3h	3-5h	 Inject immediately (not more than 5-10 minutes) before or immediately after a meal Max units/dose:** 80 for prefilled pen, 60 for reusable pen¹¹ 	ODB ✓ <u>LU 388, 389,</u> <u>390</u> ³⁵ NIHB ✓	5x3mL prefilled pens 5x3mL cartridges 10mL vial	\$78 \$75 \$42	\$147 \$142 \$107
†(Fiasp®)	4 min	0.5-1.5h	3-5h	 Faster-acting insulin Suggested initial dose for type 2 diabetes in adults is 4 units at one or more meals Inject at the start of the a meal (up to 2 minutes before meal) or within 20 minutes after starting the meal Max units/dose:** 80 for prefilled pen, 60 for reusable pen¹¹ 	ODB X NIHB X	5x3mL prefilled pens 5x3mL cartridges 10mL vial	\$84 \$81 \$45	\$157 \$152 \$115
Glulisine (Apidra®)	10-15 min	1-1.5h	3.5-5h	 Inject within 15 minutes before or within 20 minutes after starting a meal Max units/dose:** 80 for prefilled and reusable pens¹¹ 	ODB ✓ NIHB ✓	5x3mL prefilled pens 5x3mL cartridges 10mL vial	\$67 \$66 \$38	\$124 \$123 \$95
Lispro (Humalog®) (Admelog®) Lispro	10-15 min	0.75-2.5h	3.5-4.75h	 Inject within 15 minutes before a meal or within 20 minutes after starting the meal Admelog® is biosimilar to Humalog® (Health Canada: no clinically meaningful differences in pharma- cokinetics, pharmaco- dynamics, clinical efficacy, safety or immunogenicity)³³ Max units/dose:** 60 for Humalog® prefilled and reusable pens, 80 for Admelog® prefilled and reusable pens¹¹ Higher concentration requires 	ODB ✓ <u>LU 599</u> ³⁶ NIHB ✓ ODB ✓ NIHB ×	5x3mL prefilled pens 5x3mL cartridges 10mL vial 5x3mL prefilled pens 5x3mL cartridges 10mL vial	\$74 \$74 \$42 \$63 \$37 \$129	\$138 \$139 \$107 \$112 \$112 \$87 \$129
200 units/mL (Humalog®)			5.5 4.7 51	 Recommend for patients who require >20 units of prandial (bolus) insulin/day, and counsel on change of concentration Max units/dose:** 60 for prefilled pen¹¹ 	NIHB 🗸	pens	+125	
Short-acting								
Regular insulin (Humulin [®] R) (Novolin [®] ge	30-60 min	2-4h	5-8h	 Inject 15-30 minutes before meals Entuzity[®] should be reserved for patients who require 	ODB ✓ NIHB ✓	5x3mL cartridges 10mL vial 5x3mL cartridges	\$62 \$36 \$61	\$115 \$89 \$112
Toronto)				 > 200 units/day and delivers insulin in 5-unit increments • Entuzity[®] has a unique 		10mL vial	\$36	\$88
'Regular insulin 500 units/mL (Entuzity®)	3-58 min	0.5-8.0h	17-24h	 pharmacokinetic profile with an onset similar to regular insulin and a duration similar to some basal/premixed insulins Max units/dose:** 60 for Humulin-R[®] reusable pen, 60 for Novolin ge Toronto[®] reusable pen, 300 for Entuzity[®] prefilled pen¹¹ 	ODB x NIHB x	2x3mL prefilled pens	\$120	\$120

* Prices reflect the cost to the consumer and include a markup and dispensing fee (the cost per dosage form and the 100-day cost both include one dispensing fee and reflect the usual pharmacy practice of dispensing a full box or vial; e.g., 5x3mL pens). The cost for a usual dose assumes a 100 kg patient. The price for vials does not include the cost of syringes.

** This reflects the maximum amount given for 1 injection, not the maximum amount of insulin that is required. Multiple injections may be required to achieve blood glucose targets.

t = not on Ontario drug formulary, \checkmark = general benefit, x = not a benefit, bid = twice daily, h = hour, kg = kilogram, LU = limited use, max = maximum, μg = microgram, mg = milligram, mL = milliliter, NIHB = non-insured health benefits for First Nations and Inuit, NPH = neutral protamine Hagedorn, ODB = Ontario Drug Benefit, SC = subcutaneous