

SECTION B: Selecting insulin (continued)

 **Insulin specific properties - Prandial (bolus) insulin**
See the bottom of [page 6](#) for definitions of acronyms and symbols used throughout this table

Agent (100 units/mL unless otherwise specified)	Onset ¹	Peak ¹	Duration 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	<ul style="list-style-type: none"> 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 ✓ LU 628 ⁹⁰ (prefilled pens and cartridges) LU 388, 389, 390 ³⁵ (vial) NIHB ✓	5x3mL prefilled pens 5x3mL cartridges 10mL vial	\$78 \$75 \$42	\$147 \$142 \$107
(Trurapi [™])	10-20 min ⁸⁸	1-3 hours ⁸⁸	3-5 hours ⁸⁸	<ul style="list-style-type: none"> Inject immediately (not more than 5-10 minutes) before or immediately after a meal Trurapi[®] is biosimilar to Novorapid[®] (Health Canada: no clinically meaningful differences in pharmacokinetics, pharmacodynamics, clinical efficacy, safety or immunogenicity)³³ Max units/dose:** 80 for prefilled pen, 60 for reusable pen 	ODB ✓ NIHB x	5x3mL prefilled pens 5x3mL cartridges	\$57 \$57	\$106 \$106
t(Fiasp [®])	4 min	0.5-1.5h	3-5h	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 [®])				<ul style="list-style-type: none"> Inject within 15 minutes before a meal or within 20 minutes after starting the meal 	ODB ✓ LU 599 ³⁶ NIHB ✓	5x3mL prefilled pens 5x3mL cartridges 10mL vial	\$74 \$74 \$42	\$138 \$139 \$107
(Admelog [®])	10-15 min	0.75- 2.5h	3.5- 4.75h	<ul style="list-style-type: none"> Admelog[®] is biosimilar to Humalog[®] (Health Canada: no clinically meaningful differences in pharmacokinetics, pharmacodynamics, clinical efficacy, safety or immunogenicity)³³ Max units/dose:** 60 for Humalog[®] prefilled and reusable pens, 80 for Admelog[®] prefilled and reusable pens¹¹ 	ODB ✓ NIHB x	5x3mL prefilled pens 5x3mL cartridges 10mL vial	\$63 \$63 \$37	\$112 \$112 \$87
Lispro 200 units/mL (Humalog [®])	10-15 min	0.75- 2.5h	3.5- 4.75h	<ul style="list-style-type: none"> Higher concentration requires a smaller volume 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 	ODB ✓ NIHB ✓	5x3mL prefilled pens	\$129	\$129
Short-acting								
Regular insulin (Humulin [®] R)				<ul style="list-style-type: none"> Inject 15-30 minutes before meals 		5x3mL cartridges 10mL vial	\$62 \$36	\$115 \$89
(Novolin [®] ge Toronto)	30-60 min	2-4h	5-8h	<ul style="list-style-type: none"> Entuzity[®] should be reserved for patients who require > 200 units/day and delivers insulin in 5-unit increments Entuzity[®] has a unique pharmacokinetic profile with an onset similar to regular insulin and a duration similar to some basal/premixed insulins 	ODB ✓ NIHB ✓	5x3mL cartridges 10mL vial	\$61 \$36	\$112 \$88
[†] Regular insulin 500 units/mL (Entuzity [®])	3-58 min	0.5-8.0h	17-24h	<ul style="list-style-type: none"> 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