

Diabetes Medications

Oral Medications - Pills

These are some of the pills that are currently available in Canada to treat diabetes. Each medication has benefits and side effects you should be aware of. Your diabetes team will work with you to decide which one(s) will work best for you.

Class of Drug	Drug (Brand Name)	How it Works	What the Pill Looks Like	Medication Instructions	Other Information
Alpha-Glucosidase Inhibitors \$\\$A1C\$ by 0.6% Cost: \$\$\$ Insurance Coverage: Alberta Blue Cross Private Plans	Acarbose (Glucobay)	Slows carbohydrate absorption	EAVER 6	50-100 mg Taken with each meal	 May cause gas and bloating Must treat low blood sugar with Dex4, milk, or honey Not likely to cause low blood sugars Targets after meal blood sugars
Di-Peptidyl Peptidase-4 (DPP-4) Inhibitors \$\\$\Implies A1C \text{ by 0.7%}\$ Cost: \$\$\$\$ Insurance Coverage: Alberta Blue Cross - Special Authorization Private Plans	Sitagliptin (Januvia) Saxagliptin (Onglyza) Linagliptin (Trajenta)	Reduces amount of sugar made by the liver Increases release of insulin	277 5 4215	Januvia: 25 - 100 mg Once daily Onglyza: 2.5 - 5 mg Once daily Trajenta: 5 mg Once daily	 May cause stomach discomfort and diarrhea Doses should be lowered or use Trajenta if poor kidney function Not likely to cause low blood sugars Targets after meal blood sugars Available as a combination pill with Metformin
Sulfonylureas \$\\$\\$A1C by 0.8%\$ Cost: \$ Insurance Coverage: Alberta Blue Cross (except Amaryl) Private Plans	Gliclazide (Diamicron) Diamicron MR (Modified Release) Glimepiride (Amaryl) Glyburide (Diabeta)	Increases release of insulin	DIA 60	Diamicron: 80-160 mg Twice a day Diamicron MR: 30-120 mg Once daily Amaryl: 1-8 mg Once daily Diabeta: 2.5-20 mg Once daily with food	 May cause weight gain May cause low blood sugars (Highest risk with Diabeta, Lowest risk with Diamicron) Targets after meal blood sugars Rash may occur if allergic to sulfa drugs

Approximate Monthly Cost at Maximum Dose: \$ = \$5-25 | \$\$ = \$25-75 | \$\$\$ = \$75-125 | \$\$\$\$ = \$200-425 |

Dia	lberta betes ink.ca lass of Drug	Drug (Brand Name)	How it Works	What the Pill Looks Like	Medication Instructions	Other Information
	Meglitinides ↓A1C by 0.7% Cost: \$ Insurance Coverage: Alberta Blue Cross Private Plans	Repaglinide (GlucoNorm)	Increases release of insulin	0.5 mg	0.5-4 mg Taken with each meal	 May cause weight gain May cause low blood sugars MUST be taken with food Targets after meal blood sugars
	Biguanides ↓A1C by 1.0-1.5 % Cost: \$ to \$\$ Insurance Coverage: Alberta Blue Cross (except Glumetza) Private Plans	Glucophage (Metformin) Metformin Extended Release (Glumetza)	Enhances body's use of insulin Reduces amount of sugar made by the liver	M1000	Metformin: 250-2000 mg Taken with food Glumetza: 1000-2000 mg Take with largest meal	 May cause diarrhea, nausea and bloating May cause B12 deficiency Not likely to cause low blood sugars Targets fasting blood sugars Should not be taken if impaired kidney or liver function Available in combination with DPP-4s or SGLT-2
	Thiazolidinediones \$\\$\\$A1C by 0.8 \%\$ Cost: \$\$ Insurance Coverage: Alberta Blue Cross — Special Authorization Private Plans	Pioglitazone (Actos) Rosiglitazone (Avandia)	Enhances body's use of insulin	ACTOS	Actos: 15-45 mg Once daily Avandia: 2-8 mg Once daily	 May cause weight gain May cause fluid retention Should not be taken if you have a heart condition Can not be taken if you use insulin Targets fasting blood sugars Not likely to cause low blood sugars

Approximate Monthly Cost at Maximum Dose: \$ = \$5-25 | \$\$ = \$25-75 | \$\$\$ = \$75-125 | \$\$\$ = \$200-425 |

Di	Alberta abetes ink.ca	Drug (Brand Name)	How it Works	What the Pill Looks Like	Medication Instructions	Other Information
	Sodium Glucose Co- Transporter 2 (SGLT-2) Inhibitors ↓A1C by 0.7-1.0 % Cost: \$\$\$ Insurance Coverage: Alberta Blue Cross — Special Authorization Private Plans	Canagliflozin (Invokana) Dapagliflozin (Forxiga) Empagliflozin (Jardiance)	Increases the amount of sugar removed from the body in the urine	Invokana 100 mg 300 mg GFZ 100 mg 300 mg GFZ 300 Forxiga 5 mg 10 mg Jardiance 10 mg 25 mg 25 mg	Invokana: 100-300 mg Once daily Forxiga: 5-10mg Once daily Jardiance: 10 -25mg Once daily	 May cause weight loss May cause UTI/yeast infection, low blood pressure, dehydration Not likely to cause low blood sugars Targets both fasting and after meal blood sugars
	Weight Loss Agent ↓A1C by 0.5% Cost: \$\$\$\$ Insurance Coverage: Some Private Plans	Orlistat (Xenical)	Inhibits fat absorption	XENICA 120 Roche	120 mg Taken with meals (Skip dose if not eating a meal or if meal does not contain fat)	 May cause significant weight loss May cause diarrhea and other GI side effects Not likely to cause low blood sugars Targets after meal blood sugars

Approximate Monthly Cost at Maximum Dose: \$ = \$5-25 | \$\$ = \$25-75 | \$\$\$ = \$75-125 | \$\$\$ = \$200-425 |



Injectable Medications

These are some of the injectable medications that are currently available in Canada to treat diabetes. Each medication has benefits and side effects you should be aware of. Most of these medications will lead to some weight loss and some have heart-protective benefits if you have a history of heart disease. Your diabetes team will work with you to decide which one will work best for you.

Class of Drug	Drug (Brand Name)	How it Works	What the Pen Looks Like	Medication Instructions	Other Information
Glucagon-Like Protein 1 (GLP-1) Receptor Agonist ↓A1C by 0.8-1.0% Cost: \$\$\$\$ Insurance Coverage: Some Private Plans	Exenatide (Byetta) Exenatide XR (Bydureon) Liraglutide (Victoza or Saxenda) Lixisenatide (Adlyxine) Semaglutide (Ozempic) Dulaglutide (Trulicity)	Stimulates release of insulin after meals Slows digestion of carbohydrate Reduces appetite	Acceptance of the second of th	Byetta: 5-10 mcg Twice daily Bydureon: 2mg Once weekly Victoza: 0.6-1.8 mg Once daily (For Diabetes) Saxenda: 0.6-3.0 mg Once daily (For Weight Loss) Adlyxine: 10-20 mcg Once daily Ozempic: 0.25-1.0mh Once weekly Trulicity: 0.75-1.5 mg Once weekly	 May cause significant weight loss May cause nausea, diarrhea, and other GI side effects Not likely to cause low blood sugars Targets both fasting and after meal blood sugars

Approximate Monthly Cost at Maximum Dose: \$ = \$5-25 | \$\$ = \$25-75 | \$\$\$ = \$75-125 | \$\$\$ = \$200-425 |



Insulin

Over time the pancreas may lose its ability to produce insulin and regular insulin injections will often be needed to achieve target blood sugar levels. Rapid and short acting insulins are taken with meals, intermediate or long acting insulins are taken once or twice daily. Your diabetes team will work with you to decide which one will work best for you.

Туре	Brand Name	Delivery Methods	Onset	Peak Action	Duration
Ultra Rapid-Acting (clear)			2.5 minutes	1-2 hours	3-5 hours
Insurance Coverage: Private Plans					
Rapid-Acting Humalog (insulin lispro) (clear) Humalog U200 (concentrated lispro)		Syringe Insulin Pen Pre-filled Pen	10-15 minutes	1-2 hours	3-5 hours
Alberta Blue Cross Private Plans	1 (3 ,				
Short-Acting (clear) Humulin-R Novolin Toronto (Regular) Insurance Coverage: Alberta Blue Cross Private Plans		Syringe Insulin Pen Pre-filled Pen	30 minutes	2-3 hours	6.5 hours
Intermediate-Acting (cloudy)	_		1-3 hours	5-8 hours	Up to 18 hours
Insurance Coverage: Alberta Blue Cross Private Plans					
Long-Acting (clear)	Levemir (insulin detemir) Lantus (insulin glargine) Basaglar (insulin glargine)	Syringe Insulin Pen Pre-filled Pen	90 minutes	No peak	Up to 24 hours
Insurance Coverage: Alberta Blue Cross (except Toujeo/Tresiba)	Toujeo (concentrated glargine)	Toujeo and Tresiba are only available as a pre-	6 hours	No peak	24-36 hours
Private Plans	Tresiba (Degludec)	filled pen	30-90 minutes	No peak	>42 hours

Premixed insulins are available (Humulin 30/70, Novolin ge 30/70, 40/60, 50/50, NovoMix30, Humalog Mix 25 or Mix 50) which is a mixture of rapid or short acting insulin with intermediate insulin. These are typically used twice daily with the two largest meals of the day. The onset, peak action and duration will vary depending on the type of premixed insulin. All pre-mixed insulin is covered by Alberta Blue Cross except NovoMix 30.

All insulin pens contain 300u per pen except for Toujeo (450u per pen) and Tresiba U200 (600u per pen). The cost of insulin depends on the dose you need.