

Brand Name	generic	Unit Format	Price/unit	expiry	Price/day	teststrips	total price/day	Incl. savings	incl. savings	incl. savings	incl. savings	incl. savings
	name			(days)		per day	incl. teststrips	fewer teststrips	fewer hypo	fewer DKAs	reduced absenteeism	fewer late complcs
Freestyle Libre sensor	flash	sensor + smartphone	\$ 96.00	14	\$6.86	1	\$7.59	\$2.71	\$0.64	-\$0.68	-\$2.11	-\$6.43
Freestyle Libre + reader	flash	sensor + reader	\$ 96.00	14	\$6.93	1	\$7.66	\$2.78	\$0.71	-\$0.61	-\$2.04	-\$6.36
MiaoMiao/Blucon	ansmitte	transmitter	\$ 199.00	365	\$0.55		\$0.55					
Freestyle Libre + MiaoMiao/Blucon	CGM	sensor/transmitter+smartphone			\$7.40	1	\$8.13	\$3.25	\$1.18	-\$0.13	-\$1.56	-\$5.88
Dexcom G6 no subscription	CGM	sensor/transmitter+smartphone			\$12.53	1	\$13.26	\$8.38	\$6.31	\$4.99	\$3.56	-\$0.76
Dexcom G6 annual subscription	CGM	sensor/transmitter+smartphone			\$9.83	1	\$10.56	\$5.68	\$3.61	\$2.29	\$0.87	-\$3.45
Dexcom system Spike or xDrip+	CGM	assumes 200 day/transmit, 16 day/sensor			\$7.63	0.4	\$7.92	\$3.04	\$0.97	-\$0.34	-\$1.77	-\$6.09
Medtronic Guardian Connect	CGM	Sensor + transmitter + Smartphone		7	\$12.25	2	\$13.71	\$8.83	\$6.76	\$5.44	\$4.02	-\$0.30
Medtronic Guardian Sensor MMT7	CGM	Sensor/transmit 670G pump subscription	\$ 71.82	7	\$10.26	2	\$11.72	\$6.84	\$4.77	\$3.45	\$2.03	-\$2.29
Freestyle mini test-strips	nger-pok	old paradigm finger-poking only	\$ 0.73		\$4.38	6	\$4.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

short URL=<http://bit.ly/2ZruLbL>

[Freestyle Libre pricing UK NHS](http://bit.ly/2ZruLbL)

GBP32.47=CAD\$53.30

SAVINGS FROM REDUCED DIABETES MORBIDITY (see Table 2 row 45 for details)

Severe hypoglycemia reduction

reduct days hospitaliz/patient/yr 0.260 based on Charleer 2018 <http://bit.ly/2XLbc5K> see table 2 below see table 2 below

cost per hospitaliz for hypo \$2,910.0 based on O' Reilly 2018 <http://bit.ly/2XJ66XS>

cost reduction/patient/year \$756.60

cost reduction/patient/day \$2.07

DKA reduction

reduct days hospitaliz/patient/yr 0.096 based on Charleer 2018 <http://bit.ly/2XLbc5K> see table 2 below see table 2 below

cost per hospitaliz for DKA/day \$5,000.0 assuming high acuity hospitalization at \$5000/day based on Tom Elliott experience

cost reduction/patient/year \$480.00

cost reduction/patient/day \$1.31

Work absenteeism

reduct days absenteeism/patient/yr 2.607 based on Charleer 2018 <http://bit.ly/2XLbc5K> see table 2 below see table 2 below

cost absenteeism/day \$200.00 based on BCDiabetes experience

cost reduction/patient/year \$521.40

cost reduction/patient/day \$1.43

Long-term hyperglycemic complications

cost savings for A1c reduction 1% \$ 817.0 based on Wagner 2001 <http://bit.ly/2UJy9Ky>

(per patient per year 2001 US\$)

assume inflation rate 2% for 18 yr

(2019 = 2001 *1.43) = USD

2019 CAD\$ (/0.74) = CAD

assuming 1% A1c reduction

\$ savings per patient/yr = \$ 4.32

Table 2. Evolution of Diabetes-Related Hospital Admissions and Work Absenteeism

	Before Reimbursement (n = 496)	12 Months of Reimbursement (n = 379)	P Value
Patients with			
Hospitalizations due to hypoglycemia and/or ketoacidosis	77 (16%)	14 (4%)	<0.0005
Hospitalizations due to hypoglycemia	59 (11%)	12 (3%)	<0.0005
Hospitalizations due to ketoacidosis	23 (5%)	4 (1%)	0.092
Work absenteeism*	123 (25%)	36 (9%)	<0.0005
Days (per 100 patient years) of			
Hospitalizations due to hypoglycemia and/or ketoacidosis	53.5	17.8	<0.0005
Hospitalizations due to hypoglycemia	38.5	12.5	0.001
Hospitalizations due to ketoacidosis	14.9	5.3	0.220
Work absenteeism	494.5	233.8	0.001

Data are n (%).

*Work absenteeism of at least half a day. Patient-reported hospital admissions were validated by clinicians.

From Table 2 Charleer 2018 see immediately above

	before reimbursement	after reimbursement	difference
Days (per 100 patient years) of			
Hospitalization due to hypo	38.50	12.50	26.00
Hospitalization due to DKA	14.90	5.30	9.60
Work absenteeism	494.50	233.80	260.70
Work "presenteeism"			0.00

on label \$ 47.44

transmitt 289.000

sensors 299.000

Brand Name	generic name	Unit Format	Price*	Price Per Unit insulin	Pharmacare subsidy
Novolin N	NPH	vial	25.10	0.025	70.00%
Novolin 30/70	30/70	vial	25.22	0.025	69.67%
Humulin N/R/30-70	30/70	vial	25.58	0.026	68.69%
Lantus	glargine U100	vial	62.00	0.062	28.34%
Basaglar	glargine U100	disposable pen	70.50	0.047	37.38%
Lantus Solostar	glargine U100	disposable pen	93.00	0.062	28.34%
Levemir FlexTouch	detemir	disposable pen	116.45	0.078	22.63%
Novolin 30/70	30/70	cartridge	48.78	0.033	54.03%
Novolin 50/50 or 40/60	50/50, 40/70	cartridge	49.12	0.033	53.65%
Novolin N	NPH	cartridge	49.34	0.033	53.42%
Humulin N/R/30-70 cartridge/Kwikpen	30/70	cartridge	50.19	0.033	52.51%
NovoMix 30	NPL/aspart	cartridge	59.80	0.040	44.07%
Humalog Mix 25/50 cartridge/Kwikpen	NPL/lispro	cartridge	61.16	0.041	43.09%
Lantus	glargine U100	cartridge	93.00	0.062	28.34%
Toujeo	glargine U300	cartridge	66.63	0.067	n/a
Levemir	detemir	cartridge	113.91	0.076	23.14%
Tresiba U100	degludec U100	cartridge	113.91	0.076	n/a
Tresiba U200	degludec U200	cartridge	113.91	0.076	n/a
Soliqua 100/33	glargine/lixisenatide	cartridge	270.00	0.180	n/a
Xultophy 100/3.6	degludec/liraglutide	cartridge	350.00	0.233	n/a

Brand Name	generic name	Unit Format	Price*	Price Per Unit insulin	Pharmacare subsidy
Novolin Toronto	regular	vial	24.55	0.025	80.79%
Humulin R	regular	vial	25.58	0.026	77.54%
Apidra	glulisine	vial	28.04	0.028	70.74%
Humalog	lispro	vial	30.78	0.031	64.44%
NovoRapid	aspart	vial	31.85	0.032	62.27%
Fiasp	aspart fiasp	vial	31.85	0.032	62.27%
Apidra Solostar	glulisine	disposable pen	56.11	0.037	53.02%
Humalog Kwikpen	lispro	disposable pen	61.15	0.041	48.65%
NovoRapid FlexTouch	aspart	disposable pen	64.00	0.043	46.49%
Fiasp FlexTouch	aspart fiasp	disposable pen	64.00	0.043	46.49%
Fiasp	aspart fiasp	cartridge	64.00	0.043	46.49%
Novolin Toronto	regular	cartridge	48.18	0.032	61.75%
Humulin R	regular	cartridge	50.19	0.033	59.28%
Apidra	glulisine	cartridge	55.57	0.037	53.54%
NovoMix 30 Penfill®	NPL/aspart	cartridge	59.80	0.040	49.75%
Humalog cartridge	lispro	cartridge	61.15	0.041	48.65%
Humalog Mix 25/50 cartridges/Kwikpen	NPL/lispro	cartridge	61.16	0.041	48.65%
NovoRapid Penfill	aspart	cartridge	64.00	0.043	46.49%
	=reference insulin				

Brand Name		Unit Format	Price*	Price Per Day	Notes
Victoza	liraglutide	3 pre-filled pens	\$192.61	9.172	on full dose 1.8 mg/day
Saxenda	liraglutide	3 pre-filled pens	\$192.61	6.420	on full dose 1.8 mg/day
Trulicity	dulaglutide	4 x 0.75 mg pens	\$147.47	\$5.27	on 0.75 mg once weekly
Trulicity	dulaglutide	4 x 1.5 mg pens	\$147.47	\$5.27	on 1.5 mg once weekly
Ozempic	semaglutide	2 x 2 mg pens	\$159.00	\$5.68	on 1.0 mg once weekly
			innovicares.ca/en		

Drug	Strengths	Price
metformin	500 mg	\$0.05
metformin SR	500 mg	\$0.64
metformin SR	1000 mg	\$1.29

Drug	Strengths	Price
glyburide	5 mg	\$0.06
gliclize	80 mg	\$0.10
gliclize MR	30 mg	\$0.10
gliclazide MR	60 mg	\$0.14

Brand Name	Price	Coverage	price % of cheapest alternative
Januvia 100 mg	\$3.27	not covered by Pharmacare	134.57%
Trajenta 5 mg	\$2.43	covered by Pharmacare	100.00%
Onglyza 5 mg	\$3.10	covered by Pharmacare	127.57%
Onglyza 2.5 mg	\$2.59	covered by Pharmacare	
Jentaduetto 2.5/1000 X 2	\$2.55	covered by Pharmacare	93.07%
Komboglyza 2.5/500/850/1000 X 2	\$2.74	covered by Pharmacare	100.00%
Janumet 50/1000, 50/850, 50/500	\$3.55	not covered by Pharmacare	129.56%
Janumet XR 50/1000 X 2	\$3.55	not covered by Pharmacare	129.56%
Glumetza 500 mg x 4	2.57		

Brand name	generic name	Strengths	\$ Cost per Tab
Invokana	canagliflozin	100, 300 mg	\$2.94
Forxiga	dapagliflozin	5, 10 mg	\$2.83
Jardiance	empagliflozin	10, 25 mg	\$2.83
Synjardy	empagliflozin/metformin	12.5/500, 12.5/850, 12.5/1000, 5/1000	\$1.46
Invokamet	canagliflozin/metformin	150/1000, 150/500, 150/850, 50/1000, 50/500, 50/850	\$1.66