

CONCEPTT Cost Implications

S2. Average or general unit cost of physician services per woman/infant by province and study group

Service	Province	CGM Group N=100			SMBG Group N=102		
		n women/infant dyads	Average Cost Per Patient	Standard Deviation	n women/infant dyads	Average Cost Per Patient	Standard Deviation
1. Number of "unscheduled" contacts (via phone, patient visits/appointments, email, text, etc) with the nurse, doctor, any research staff, or the CGM helpline since the last study visit	Ontario	96	\$247.58	\$218.67	91	\$154.15	\$98.38
	British Columbia	96	\$235.32	\$207.82	91	\$146.54	\$93.52
	Alberta	96	\$259.62	\$229.31	91	\$161.65	\$103.17
1a. For diabetes management	Ontario	89	\$126.69	\$103.94	87	\$131.76	\$93.26
	British Columbia	89	\$120.44	\$98.80	87	\$125.25	\$88.65
	Alberta	89	\$132.86	\$108.99	87	\$138.17	\$97.79
1b. For CGM device	Ontario	63	\$44.75	\$38.78	6	\$17.81	\$6.90
	British Columbia	63	\$42.53	\$36.86	6	\$16.93	\$6.56
	Alberta	63	\$46.92	\$40.66	6	\$18.68	\$7.23
1c. For both diabetes management and CGM device questions	Ontario	42	\$171.14	\$182.09	14	\$47.71	\$29.97
	British Columbia	42	\$162.62	\$173.03	14	\$45.34	\$28.48
	Alberta	42	\$179.46	\$190.95	14	\$50.04	\$31.43
1d. Other (reason not specified)	Ontario	51	\$48.72	\$57.61	46	\$38.92	\$34.01
	British Columbia	51	\$46.32	\$54.76	46	\$37.00	\$32.33
	Alberta	51	\$51.10	\$60.41	46	\$40.81	\$35.67
2.a. Maternal antenatal hospital admission not for delivery \geq 24 hours physician fees and ward cost	Ontario	22	\$1,993.31	\$1,376.42	17	\$2,008.27	\$1,067.96
	British Columbia	22	\$1,963.55	\$1,338.12	17	\$1,980.10	\$1,037.16
	Alberta	22	\$1,951.74	\$1,336.93	17	\$1,968.02	\$1,036.60
2.b. Maternal antenatal hospital length of stay not for delivery <24 hours (Obstetrical Day Unit) physician fees and ward cost	Ontario	7	\$335.03	\$127.15	8	\$260.58	\$0.00
	British Columbia	7	\$298.41	\$113.25	8	\$232.10	\$0.00
	Alberta	7	\$303.60	\$115.22	8	\$236.13	\$0.00
3. Pregnancy termination \geq 20 weeks physician fees	Ontario	0	-	-	1	\$310.03	-
	British Columbia	0	-	-	1	\$404.20	-
	Alberta	0	-	-	1	\$446.85	-
4. Stillbirth physician fees	Ontario	0	-	-	1	\$937.30	-
	British Columbia	0	-	-	1	\$834.70	-
	Alberta	0	-	-	1	\$690.67	-
5. Induction	Ontario	49	\$67.75	-	42	\$67.75	-

Appendix 2, as supplied by the authors. Appendix to: Ahmed RJ, Gafni A, Hutton EK, et al. The cost implications of continuous glucose monitoring in pregnant women with type 1 diabetes in 3 Canadian provinces: a posthoc cost analysis of the CONCEPTT trial. *CMAJ Open* 2021. DOI:10.9778/cmajo.20200128. Copyright © 2021 The Author(s) or their employer(s). To receive this resource in an accessible format, please contact us at cmajgroup@cmaj.ca.

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		n women/infant dyads	Average Cost Per Patient	Standard Deviation	n women/infant dyads	Average Cost Per Patient	Standard Deviation
	British Columbia	49	\$37.77	-	42	\$37.77	-
	Alberta	49	\$120.21	-	42	\$120.21	-
6. Spontaneous vaginal delivery	Ontario	28	\$756.96	\$135.43	18	\$796.53	\$142.72
	British Columbia	28	\$614.65	\$32.36	18	\$623.62	\$31.52
	Alberta	28	\$505.10	\$45.15	18	\$517.85	\$44.78
7. Operative vaginal delivery	Ontario	9	\$743.89	\$165.50	8	\$820.14	\$181.60
	British Columbia	9	\$796.43	\$34.90	8	\$810.98	\$37.47
	Alberta	9	\$624.28	\$43.40	8	\$654.49	\$51.97
8. Elective Caesarean delivery	Ontario	37	\$1,358.67	\$308.19	44	\$1,387.43	\$297.42
	British Columbia	37	\$1,737.03	\$279.70	44	\$1,718.74	\$268.83
	Alberta	37	\$1,291.61	\$148.96	44	\$1,304.93	\$144.95
9. Emergency Caesarean delivery	Ontario	26	\$991.18	\$145.11	30	\$982.06	\$165.57
	British Columbia	26	\$968.87	\$91.73	30	\$964.65	\$112.54
	Alberta	26	\$938.66	\$44.07	30	\$945.71	\$87.04
10. Antenatal ward duration	All Provinces	100	\$719.96	\$1,332.18	102	\$1,253.29	\$2,522.84
11. Labour and delivery ward duration	All Provinces	100	\$3,285.07	\$3,048.77	102	\$4,082.51	\$4,554.21
12. Operating room ward duration	All Provinces	72	\$1,289.97	\$111.12	84	\$1,277.25	\$139.32
13. Postpartum ward duration	All Provinces	100	\$2,463.09	\$2,205.01	102	\$2,415.12	\$1,540.50
14. NICU Level 2 physician care	Ontario	19	\$691.61	\$433.60	30	\$1,064.32	\$1,041.66
	British Columbia	19	\$1,028.57	\$542.11	30	\$1,444.72	\$1,114.31
	Alberta	19	\$1,077.31	\$821.31	30	\$1,783.27	\$1,973.05
15. NICU Level 3 physician care	Ontario	11	\$2,131.23	\$699.76	15	\$2,505.35	\$1,469.30
	British Columbia	11	\$2,883.81	\$732.52	15	\$3,217.04	\$1,637.07
	Alberta	11	\$2,537.45	\$909.55	15	\$3,101.33	\$2,142.06
16. NICU Level 2 hospital ward duration	All Provinces	19	\$4,967.49	\$4,672.21	30	\$9,047.56	\$11,103.68
17. NICU Level 3 hospital ward duration	All Provinces	11	\$25,377.48	\$9,874.10	15	\$31,925.23	\$23,753.01
Medtronic CGM for Medtronic Insulin Pumps	All Provinces	42	\$700.00	\$0.00	0	-	-
Guardian CGM Devices Used for Non-Medtronic Insulin Pumps or Multiple Dose Injection Users	All Provinces	58	\$2,000.00	\$0.00	0	-	-

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CGM Devices for All Pump Types and Multiple Injection Users	All Provinces	100	\$1,454.00	\$644.86	0	-	-
CGM Sensors for All Pump Types and Multiple Daily Injection Users	All Provinces	100	\$1,880.40	\$174.61	0	-	-
Number of Glucometers Used and Cost	All Provinces	100	\$45.00	\$0.00	102	\$45.00	\$0.00
Number of Glucose Testing Strips Used and Cost	All Provinces	100	\$1,231.36	\$113.50	102	\$1,189.44	\$133.62
All CGM Devices and Sensors	All Provinces	100	\$3,334.40	\$635.79	102	-	-
All Glucometers and Glucose Testing Strips	All Provinces	100	\$1,276.36	\$113.50	102	\$1,234.44	\$133.62
Total Cost of CGM Devices, Sensors, glucometers, and glucose testing strips	All Provinces	100	\$4,610.76	\$656.47	102	\$1,234.44	\$133.62

*Note: Average unit costs were calculated using the total cost divided by the number of women or infants that actually incurred that service to illustrate a general form of unit cost; whereas actual fees varied for each study participant depending on the number of services received for each woman/infant, the duration of the service, or the time of day and week physician fee premiums applicable according to each province's Schedule of Medical Benefits.