



Diabetes in Ontario 2024 Backgrounder

Summary

This backgrounder provides key statistics about diabetes in Ontario, the impact of diabetes on the population of Ontario, and Diabetes Canada's recommendations to the Government of Ontario to address diabetes prevention and management.

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About Diabetes Canada

Diabetes Canada is a national health charity representing more than 4 million people in Canada diagnosed with diabetes. Our mission is to prevent diabetes and its complications; help people with diabetes live healthy lives; and work to find a cure. It has a heritage of excellence and leadership, and its co-founder, Dr. Charles Best, along with Dr. Frederick Banting, is credited with the co-discovery of insulin. Diabetes Canada is supported in its efforts by a community-based network of volunteers, employees, health care professionals, researchers, and partners. By providing education and services, advocating on behalf of people living with diabetes, supporting research, and translating research into practical applications, Diabetes Canada is delivering on its mission. Diabetes Canada will continue to change the world for those affected by diabetes through healthier communities, exceptional care, and high-impact research.

For more information, please visit: www.diabetes.ca

Contact

advocacy@diabetes.ca with inquiries about this Diabetes Canada report.

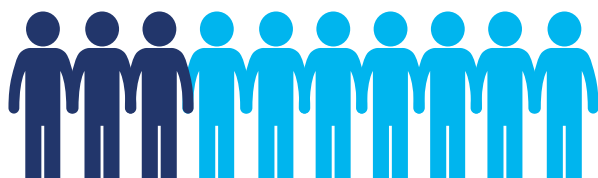
Estimated Prevalence and Cost of Diabetes - Ontario

Prevalence (1)	2024	2034
Diabetes (type 1 + type 2 diagnosed + type 2 undiagnosed)	2,403,440 / 15%	3,081,950 / 17%
Diabetes (type 1 and type 2 diagnosed)	1,700,990 / 11%	2,288,510 / 13%
Diabetes (type 1)	5-10% of diabetes prevalence	
Diabetes (type 1 + type 2 diagnosed + type 2 undiagnosed) and prediabetes (includes undiagnosed)	4,793,340/ 31%	5,785,130 / 33%
Increase in diabetes (type 1 and type 2 diagnosed), 2024-2034	35%	
Direct cost to the Health Care System in 2024	\$2,209 billion	
Out-of-pocket cost per year (2)		
Type 1 diabetes costs, % of family income	\$694-\$5,245 / 2%-17%	
Type 2 diabetes costs, % of family income	\$287-\$4,985 / 1%-17%	



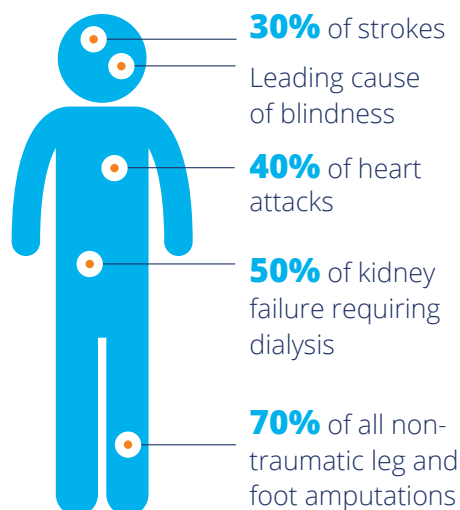
Impact of Diabetes

- Among Ontarians (1):
 - 31%** live with diabetes or prediabetes;
 - 11%** live with diagnosed diabetes, a figure that climbs to **15%** when cases of undiagnosed type 2 diabetes are included.

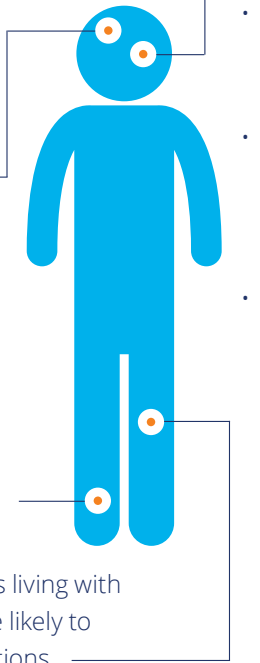


- Diabetes complications are associated with premature death (3). Diabetes can reduce lifespan by **five to 15 years** (3). It is estimated that the all-cause mortality rate among people living with diabetes is **twice** as high as the all-cause mortality rate for those without diabetes (4).

- Diabetes contributes to (5):



- People with diabetes are over **three times** more likely to be hospitalized with cardiovascular disease, **12 times** more likely to be hospitalized with end-stage renal disease, and almost **20 times** more likely to be hospitalized for a non-traumatic lower limb amputation compared to the general population (3).
- **33-50%** of people living with diabetes experience diabetes distress (an overwhelming feeling about their condition that can lead to unhealthy habits like not checking their blood sugar or skipping medical appointments, etc.) (6).
- Individuals with depression have a **40% – 60%** increased risk of developing type 2 diabetes (6).
- Foot ulceration affects up to **25%** of people with diabetes in their lifetime (9).
- Compared to the general population, adults living with diabetes in Canada are over **20 times** more likely to undergo non-traumatic lower limb amputations - 85% of which are preceded by foot ulcers (10).
- Diabetic retinopathy, a retinal vascular disorder that occurs as a complication of diabetes, is a leading cause of new cases of blindness in Canada, and often affects working-aged adults (7).
- Vision loss is associated with significant morbidity, including increased falls, hip fractures, and an increased risk of death (8).
- Hypoglycemia (low blood sugar) and hyperglycemia (high blood sugar) may affect mood and behaviour and can lead to emergency situations if left untreated (11).
- For people living with diabetes, adherence to treatment is affected by costs which are not covered by their public drugs and devices coverage (2).
 - Those with type 1 diabetes can pay up to 17% of their gross annual income on medications and devices that range from \$694 to \$5,245.
 - Those living with type 2 diabetes can pay up to 17% of their gross annual income on medications and devices that range from \$287 to \$4,985.



Risk Factors of Diabetes

- The risk factors for type 1 diabetes are not well understood, but interaction between genetic and environmental factors are likely involved (11). Type 2 diabetes is caused by a combination of individual, social, environmental, and genetic factors (11).
- Certain populations are at higher risk of developing type 2 diabetes, such as those of African, Arab, Asian, Hispanic, Indigenous, or South Asian descent, those who are older, have a lower level of income or education, are physically inactive, or are living with overweight or obesity (11).
- The age-standardized prevalence rates for diabetes are **16%** among people of South Asian descent, **13.3%** among Black adults, **12.5%** among people of Arab/West Asian descent, **8.8%** among people of East/Southeast Asian descent, and **5.7%** among people of Latin American descent (12).
- The prevalence of diabetes among First Nations adults living off reserve, Metis adults, and Inuit adults is **1.72 times**, **1.22 times**, and **1.18 times** higher respectively than the prevalence among non-Indigenous adult (12). In addition to the risk factors that impact all people in Canada, the ongoing burden of colonization continues to influence Indigenous peoples' health.
- The prevalence of diabetes among adults in the lowest income groups is **2.1 times** that of adults in the highest income group (12).
- Adults who have not completed high school have a diabetes prevalence **1.9 times** that of adults with a university education (12).
- Social determinants of health can influence the rate of individual-level modifiable risk factors and thus the risk of diabetes. The main determinants of health include income, employment, education, childhood experiences, physical environments, social supports, access to health services, and racism (13).

Policy, Programs, and Services Related to Diabetes

- In April 2023, a motion was unanimously passed in the Ontario Legislature asking the Minister of Health and Ontario Health to develop a provincial framework on chronic diseases with an initial focus on diabetes.
- Effective March 2022, the Assistive Devices Program (ADP) provides coverage for real-time continuous glucose monitoring systems (rtCGM) for Ontario residents with type 1 diabetes who have had a severe hypoglycemic event or cannot recognize or communicate the symptoms of hypoglycemia.
- In November 2021, the government expanded public funding of intermittently-scanned continuous glucose monitoring systems (isCGM) to include Freestyle Libre 2 for all Ontario Drug Benefit clients who use insulin and have a valid prescription from their physician or nurse practitioner.
- In September 2019, the government announced public funding for intermittently-scanned continuous glucose monitoring systems (isCGM) for all Ontario Drug Benefit clients who use insulin and have a valid prescription from their physician or nurse practitioner.
- In November 2017, the government announced funding of \$8 million over three years and continues to fund offloading devices to help improve patient outcomes and reduce the risk of amputation for Ontarians with diabetic foot ulcers.
- OHIP+ provides more than 4,400 drug products at no cost for Ontarians 24 years or younger who are not covered by a private plan.
- Seniors 65 years or older, and individuals/families with high-prescription drug costs relative to their income, may receive coverage for prescription drugs through Ontario Drug Benefit and Trillium Drug Program; deductibles and co-pays apply.
- The Monitoring for Health Program provides assistance with the cost of blood glucose testing supplies for Ontarians who use insulin or have gestational diabetes and have no other coverage for their supplies. The maximum reimbursement for strips and lancets is \$920 per year.
- The Insulin Syringes for Seniors Program provides \$170 annual grant to help with the cost of pen needles/syringes for seniors 65 years or older who use insulin.

Challenges

Ontario faces unique challenges in preventing type 2 diabetes and meeting the needs of those living with diabetes:

- Non-modifiable risk factors of type 2 diabetes include age, gender, and ethnicity (11).
 - The median age in Ontario is **41.6 years** (14). **18.5%** of Ontarians are over 65 years old (14). The risk of developing type 2 diabetes increases with age (11). Older adults living with diabetes are more likely to be frail and progressive frailty has been associated with reduced function and increased mortality (15).
 - Adult men are more at risk of type 2 diabetes compared to adult women (11).
- Approximately **34.3%** of Ontarians self-identify as being of African, Arab, Asian, Hispanic, or South Asian descent (14). These groups are at increased risk of developing type 2 diabetes (11).
- There are **405,590** Indigenous people in Ontario, who face significantly higher rates of diabetes and adverse health consequences than the overall population (16).
- Ontario has high rates of individual-level modifiable risk factors (17):
 - **48.5%** of adults and **61.3%** of youth (aged 12 to 17 years) are physically inactive;
 - **34.5%** of adults are living with overweight and **29.7%** of adults are living with obesity;

- **30.5%** of youth (aged 12 to 17) are living with overweight or obesity;
- **18.9%** of adults have high blood pressure;
- **18.1%** of adults are heavy drinkers;
- **80.1%** of adults are not eating enough fruits and vegetables; and
- **8.4%** of adults are current tobacco smokers.



- The strict criteria of the **Ontario Assistive Devices Program (ADP)** results in many individuals who may benefit from use of a rtCGM.
- Factors related to the social determinants of health and that can influence the rate of individual-level modifiable risk factors among Ontarians include income, education, food security, the built environment, social support, and access to health care (3).

- Ontario has one of the highest prevalence of low income among all provinces, based on low-income cut-offs after tax (18). People with diabetes earning a low income may face financial constraints that can make their disease more difficult to manage.
- People living with diabetes in Ontario continue to face high-out-of-pocket costs, to manage their diabetes effectively. This is especially the case for those who do not have coverage for their diabetes medications, supplies, or devices through Ontario's publicly funded programs or private plan. However, even with coverage, many Ontarians face significant out-of-pocket costs due to high public drug program deductibles (e.g., Trillium Drug Program), lack of public funding for diabetes devices (e.g., Continuous Glucose Monitoring systems) and essential diabetes supplies (e.g., insulin pen needles), and/or annual limits on coverage through private plans.

Diabetes Canada's Recommendations to the Government of Ontario



1. Implement the Framework for Diabetes in Canada

- Take prompt action to improve diabetes prevention, screening, management, and health outcomes for the residents of Ontario.



3. Protect students with diabetes and provide them with an equal opportunity to learn and participate at school

- Implement a mandatory standard of care for students with diabetes that aligns with Diabetes Canada's **Guidelines for the Care of Students Living with Diabetes at School**.



2. Provide equitable access to diabetes medication, devices, and supplies

- Reduce barriers to access, such as, ensuring high deductibles and copays are not a barrier or burden to access. Ensure evidence-based, personalized diabetes treatments, including newer insulins and type 2 medications, continuous glucose monitoring systems, insulin pumps, and necessary supplies.

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