

Diabetes in Manitoba

2023 Background

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

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About Diabetes Canada: Diabetes Canada is a national health charity representing more than 11.9 million people in Canada living with diabetes or prediabetes. Diabetes Canada leads the fight against diabetes by helping those affected by diabetes live healthy lives, preventing the onset and consequences of diabetes, and discovering 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.

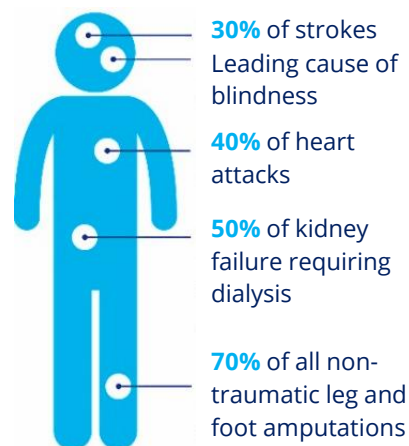
Estimated Prevalence and Cost of Diabetes - Manitoba

Prevalence (1)	2023	2033
Diabetes (type 1 + type 2 diagnosed + type 2 undiagnosed)	233,000 / 15%	289,000 / 18%
Diabetes (type 1 and type 2 diagnosed)	156,000 / 11%	202,000 / 13%
Diabetes (type 1)	5-10% of diabetes prevalence	
Diabetes (type 1 + type 2 diagnosed + type 2 undiagnosed) and prediabetes (includes undiagnosed)	421,000 / 29%	504,000 / 32%
Increase in diabetes (type 1 and type 2 diagnosed), 2023-2033	29%	
Direct cost to the health care system	\$157 million	\$203 million
Out-of-pocket costs per year (2)		
Type 1 diabetes costs, % of family income	\$1,426-\$9,520 / 5%-6%	
Type 2 diabetes costs, % of family income	\$554-\$6,702 / 2%-9%	

Impact of Diabetes

- Among Manitobans (1):
 - **29%** live with diabetes or prediabetes and
 - **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 Canadians living with diabetes is **twice** as high as the all-cause mortality rate for those without diabetes (4).
- 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).

- Diabetes contributes to (5):



- **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).
 - 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).
 - Foot ulceration affects an estimated **15-25%** 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).
 - 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 6% of their gross annual income on medications and devices that range from \$1,381 to \$9,475.
 - Those living with type 2 diabetes can pay up to 9% of their gross annual income on medications and devices that range from \$554 to \$6,702.
- likely involved (11). Type 2 diabetes is caused by a combination of individual,
- 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,

Risk Factors for Diabetes

- The risk factors for type 1 diabetes are not well understood, but interaction between genetic and environmental factors are

physical environments, social supports, access to health services, and racism (13).

prevention strategy based on the Diabetes 360° framework.

Policy, Programs, and Services Related to Diabetes

- On July 19, 2023 the government released its *Diabetes Action Plan* positioning Manitoba as the first province to release a comprehensive diabetes strategy that aligns with the [Framework for Diabetes in Canada](#).
- In March, 2023 the government expanded pharmacare eligibility for continuous glucose monitors (CGM) and insulin pumps. Regardless of age, Individuals with type 1 or type 2 diabetes requiring the use of both basal and bolus insulins and who meet the eligibility criteria may access a CGM with a prescription from their physician. For individuals living with type 1 diabetes, the age barrier to access an insulin pump has been removed.
- In February, 2022 the government released the province's five-year plan, [A Pathway to Mental Health and Community Wellness: A Roadmap for Manitoba](#), that includes implementing the first diabetes strategy in Manitoba.
- In November 2021, the cut-off age to qualify for public coverage of an insulin pump was extended to age 25.
- In September 2021, the government introduced coverage of glucose monitoring devices (rtCGM & isCGM) for eligible Manitobans with diabetes age 25 and younger.
- In December 2019, the Ministry of Health, Seniors and Active Living confirmed its mandate to develop a provincial diabetes

Challenges

Manitoba 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 Manitoba is **38.3 years** (14). **15.6%** of people in Manitoba 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 **18.0%** of people in Manitoba 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 **223,310** Indigenous Peoples in Manitoba, who face significantly higher rates of diabetes and adverse health consequences than the overall population (16).
- Manitoba has high rates of individual-level modifiable risk factors (17):
 - **45.6%** of adults and **79.9%** of youth aged 12-17 are physically inactive;
 - **34.5%** of adults are living with overweight and **30.2%** of adults are living with obesity;
 - **74.9%** of adults are not eating enough fruits and vegetables; and

- **18.8%** of adults are current tobacco smokers.
- Factors related to the social determinants of health and that can influence the rate of individual-level modifiable risk factors among Manitobans include income, education, food security, the built environment, social support, and access to health care (3).

Diabetes Canada’s Recommendations to the Government of Manitoba

- 1. Dedicate funding to implement the five-year provincial diabetes strategy**
 - Ensure funding is allocated annually to implement the Diabetes Action Plan released June 2023.
- 2. Expand access: Put patients at the centre of policy decisions**
 - Eliminate barriers to access evidence-based, personalized diabetes treatments, including diabetes medications, devices, and supplies.
 - Provide equitable access to continuous glucose monitoring systems (isCGM & rtCGM) according to Diabetes Canada’s [reimbursement recommendations](#).
- 3. Protect students with diabetes**
 - 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](#).
- 4. Prevent amputations**
 - Implement health policies that support the prevention and management of diabetes foot complications and reduce the risk of lower limb amputations.

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