Canadian Strategy for Cancer Control Companion Data





The 2019-2029 Canadian Strategy for Cancer Control (the Strategy) is a 10-year road map to improve the quality and outcomes of cancer care for all people in Canada.

This document is a companion to the Strategy's Priority 1. It highlights **data and evidence** showing the magnitude of gaps in care and where action on cancer control could have the greatest impact across Canada.

As Steward of the Strategy, the Canadian Partnership Against Cancer (the Partnership) is responsible for monitoring and reporting on progress that has been made towards achieving the Strategy's goals. The Partnership is working with partners across the country to develop a set of indicators for measuring progress towards the Strategy's goals and associated targets. They will be used to report to Canadians starting in the fall 2020.



For more information about the Canadian Strategy for Cancer Control, visit **partnershipagainstcancer.ca/** cancer-strategy

Decrease the risk of people getting cancer

ACTION 1:

Help people to stop smoking or not start in the first place and live healthier lives.

ACTION 2:

Adopt proven practices known to reduce the risk of cancer.

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Up to four in 10 cancer cases are preventable — which means in Canada, up to 40,000 fewer people could develop cancer each year.¹

Ways to reduce cancer risk:

Not smoking







(**43**[%] to HPV research)

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Eating well

Estimated economic burden (direct and indirect costs) of not meeting Canadian food recommendations²¹

37%

Nunavut had the

food insecurity¹⁵

highest rate of

Food insecurity affects the quality and amount of food people eat, which potentially increases cancer risk.⁽¹⁴⁾

8% of households in Canada reported experiencing food insecurity in 2011-12

^{\$}**13.8** billion

% of people who reported eating fruit and vegetables 5+ times a day:¹⁶

19% severely food insecure households

VS

food secure households

By 2042,



Eating more fruits could prevent over 20,000 cancers¹³



Eating more vegetables could prevent over 10,000 cancers¹³



Eating less red and processed meat could prevent approximately 67,000 cancers²²

Limiting alcohol consumption

% of adults who were drinking in excess of Canada's low-risk alcohol guideline in 2015-16



New Brunswick

7%

Northwest Territories

If Canadians drank % less alcohol by 2032,

> 70,000 cancers could be prevented by 2042²⁵

Moving more, sitting less



cancers could be prevented by 2042²⁴

Practicing sun safety



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Having a healthy body weight



After smoking, excess weight is expected to become the second leading preventable cause of cancer in Canada by 2042

7%

of cancers are due to excess body weight¹⁷



If Canadians could reduce their body mass index by one unit, **42,000+**

cancers could be prevented by 2042²³

1 in 3 children aged 5–17 were overweight or obese in 2017¹⁸



Preventive surgery

Some people have an increased risk of developing certain cancers because of inherited gene mutations and, in a few situations, preventive surgeries may be used to reduce cancer risk.

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Opportunistic salpingectomy – removal of the fallopian tubes during a hysterectomy – substantially reduces the risk of ovarian cancer because many ovarian cancers start in the fallopian tubes. In 2019, 3,000 Canadian women were diagnosed with ovarian cancer and 1,900 died from it.²⁹ Given the high proportion of women who die from this disease and the lack of effective screening for it, finding ways to prevent ovarian cancer is important.



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What's next? We need more evidence on:

- Effectiveness and cost-effectiveness of tobacco cessation and avoidance among the public (including adolescents) and cancer patients
- Impact of other forms of inhaled substances, including vaping, cannabis smoking and cannabis edibles
- Enablers (e.g., individual, social and physical environment, policy) that promote healthy lifestyles such as healthier diets, safer levels of alcohol consumption, increased physical activity and safer sun practices
- Availability of, access to and cost-effectiveness of genetic testing to identify individuals at higher risk of cancer and help them take important steps to reduce their chance of getting cancer
- Availability and uptake of evidence-based preventive interventions such as vaccination and preventive surgeries that can reduce risk of certain types of cancer
- Cancer prevention programs and whether they are delivered in a way that is sensitive to cultural and social norms of communities in Canada, including First Nations, Inuit and Métis

References

- Poirier AE, Ruan Y, Volesky KD, King WD, O'Sullivan DE, Gogna P, et al. The current and future burden of cancer attributable to modifiable risk factors in Canada: Summary of results. Prev Med. 2019;122:140-7.
- Canadian Cancer Society. Media backgrounder: ComPARe study [Internet]. Toronto (ON): Canadian Cancer Society; 2019 [updated 8 May 2019].
- Poirier AE, Ruan Y, Volesky KD, King WD, O'Sullivan DE, Gogna P, et al. The current and future burden of cancer attributable to modifiable risk factors in Canada: Summary of results. Prev Med. 2019;122:140-7.
- 4. Health Canada. Canada's tobacco strategy. Ottawa (ON); 2018.
- 5. Canadian Partnership Against Cancer. 2018 Cancer System Performance Report. Toronto (ON); 2018.
- Hammond D, Reid JL, Rynard VL, Fong GT, Cummings KM, McNeill A, et al. Prevalence of vaping and smoking among adolescents in Canada, England, and the United States: repeat national cross sectional surveys. BMJ. 2019;365:12219.
- Liu J, Chadder J, Fung S, Lockwood G, Rahal R, Halligan M, et al. Smoking behaviours of current cancer patients in Canada. Current Oncology. 2016;23(3):201-3.
- Iragorri N, Essue B, Timmings C, Keen D, Bryant H, Warren G. The cost of failed first-line cancer treatment due to continued smoking in Canada. ARCC Conference; Halifax (NS)2019.
- 9. Canadian Cancer Research Alliance. Cancer Risk and Prevention Research, 2005–2016. Toronto (ON); 2019.

- Volesky KD, El-Zein M, Franco EL, Brenner DR, Friedenreich CM, Ruan Y, et al. Estimates of the future burden of cancer attributable to infections in Canada. Prev Med. 2019:118-27.
- 11. Government of Canada. Vaccination coverage goals and vaccine preventable disease reduction targets by 2025 [Internet]. Ottawa (ON): Government of Canada; 2019 [updated 8 May 2018].
- 12. Canadian Partnership Against Cancer. Cervical Cancer Screening in Canada: Environmental Scan. Toronto (ON); 2018.
- Poirier AE, Ruan Y, Hebert LA, Grevers X, Walter SD, Villeneuve PJ, et al. Estimates of the current and future burden of cancer attributable to low fruit and vegetable consumption in Canada. Preventive medicine. 2019;122:20-30.
- Testa A, Jackson DB. Food Insecurity, Food Deserts, and Waist-to-Height Ratio: Variation by Sex and Race/Ethnicity. Journal of Community Health. 2019;44(3):444-50.
- 15. Roshanafshar S, Hawkins E. Food insecurity in Canada [Internet]. Ottawa (ON): Statistics Canada; 2018 [updated 7 Sep 2018]. Available from: https://www150.statcan.gc.ca/n1/ pub/82-624-x/2015001/article/14138-eng. htm.
- 16. Statistics Canada. Fruit and vegetable consumption, 2017 [Internet]. Ottawa (ON): Statistics Canada; 2019 [updated 30 Apr 2019]. Available from: https://www150. statcan.gc.ca/n1/pub/82-625-x/2019001/ article/00004-eng.htm.

- 17. Brenner DR, Poirier AE, Ruan Y, Hebert LA, Grevers X, Walter SD, et al. Estimates of the current and future burden of cancer attributable to excess body weight and abdominal adiposity in Canada. Prev Med. 2019;122:49-64.
- Government of Canada. Tackling obesity in Canada: Childhood obesity and excess weight rates in Canada [Internet]. Ottawa (ON): Government of Canada; 2018 [updated 2018 Feb 21].
- Canadian Partnership Against Cancer. Commercial tobacco policy pack: Local and provincial/territorial governments. Toronto (ON); 2019.
- 20. Government of Canada. Economic burden of illness in Canada custom report. Ottawa (ON): Government of Canada; 2019 [updated 24 Nov 2019]. Available from: https://cost-illness. canada.ca/custom-personnalise/resultsnational-resultats.php
- 21. Lieffers JR, Ekwaru JP, Ohinmaa A, Veugelers PJ. The economic burden of not meeting food recommendations in Canada: The cost of doing nothing. PLoS One. 2018; 13(4): e0196333.
- 22. Ruan Y, Poirier AE, Hebert LA, Grevers X, Walter SD, Villeneuve PJ, et al. Estimates of the current and future burden of cancer attributable to red and processed meat consumption in Canada. Prev Med. 2019; 122: 31-9.
- 23. Brenner DR, Poirier AE, Ruan Y, Hebert LA, Grevers X, Walter SD, et al. Estimates of the current and future burden of cancer attributable to excess body weight and abdominal adiposity in Canada. Prev Med. 2019; 122-49-64.

- 24. Friedenreich CM, Pader J, Barberio AM, Ruan Y, Poirier AE, Grevers X, et al. Estimates of the current and future burden of cancer attributable to sedentary behavior in Canada. Prev Med. 2019; 122: 73-80.
- 25. Grevers X, Ruan Y, Poirier AE, Walter SD, Villeneuve PJ, Friedenreich M, et al. Estimates of the current and future burden of cancer attributable to alcohol consumption in Canada. Prev Med. 2019; 122: 40-8.
- 26. Canadian Partnership Against Cancer. Key statistics: exposure to solar and artificial UVR in Canada. Toronto (ON): Canadian Partnership Against Cancer; 2019 [updated 1 Feb 2019]. Available from: https://www. partnershipagainstcancer.ca/topics/keystatistics-exposure-to-solar-and-artificialultraviolet-radiation-in-canada/#
- 27. O'Sullivan DE, Brenner DR, Villeneuve PJ, Walter SD, Demers PA, Friedenreich CM, et al. Estimates of the current and future burden of melanoma attributable to ultraviolet radiation in Canada. Prev Med. 2019; 122: 81-90.
- 28. Canadian Partnership Against Cancer. Economic evidence to support UVR policy. Toronto (ON): Canadian Partnership Against Cancer; 2019 [updated 1 Feb 2019]. Available from: https://www.partnershipagainstcancer. ca/topics/economic-evidence-to-supportultraviolet-radiation-policy/#
- 29. Canadian Cancer Statistics Advisory Committee. Canadian Cancer Statistics 2019. Toronto (ON); 2019.