

The Economic Burden Associated with Tobacco Smoking, Excess Weight, Alcohol Consumption and Physical Inactivity in Canadian Men

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- Tobacco smoking, excess weight, alcohol consumption and physical inactivity are among the leading causes of chronic disease in Canadian men.
- Together, these four modifiable risk factors contribute to approximately 40 different chronic conditions. For example, we estimate that 78% of chronic lung disease, 73% of cancers of the head and neck, 72% of lung cancers, 67% of type 2 diabetes, 58% of heart disease, 56% of strokes, 52% of colorectal cancers and 30% of chronic back pain could be eliminated based on the removal of these four risk factors in Canadian men.
- By reducing the prevalence of modifiable risk factors in a population, we can subsequently reduce the incidence of many chronic diseases and the economic burden that these diseases pose.
- Chronic diseases have a direct impact on the use of healthcare resources such as hospitalizations, physician services, drug utilization, etc. In addition, they increase the risk of both short- and long-term disability and premature death.
- The economic burden associated with the chronic diseases caused by these risk factors can be grouped into the following two major categories: direct costs (costs associated with hospitalizations, physician services, drug utilization, etc.) and indirect costs (costs associated with short- and long-term disability and premature death).
- In 2013, an estimated 52.9% of Canadian men carried excess weight, 40.9% were inactive, 19.9% smoked tobacco and 12.4% consumed alcohol at levels that are considered to be hazardous or harmful. The annual economic burden attributable to these four risk factors in Canadian men is \$36.9 billion.
- This \$36.9 billion comprises \$11.9 billion in direct health care costs and \$25.1 billion in indirect costs including premature mortality (\$14.0 billion), short-term disability (\$2.4 billion) and long-term disability (\$8.6 billion).

- Of this \$36.9 billion, \$13.0 billion is attributable to tobacco smoking, \$11.9 billion to excess weight, \$7.6 billion to alcohol consumption and \$4.4 billion to physical inactivity.
- The prevalence of the risk factors, and their associated economic burden, varies substantially by province. The proportion of men who smoke ranges from 13.6% in British Columbia to 26.2% in Newfoundland & Labrador. The proportion of men who carry excess weight ranges from 48.6% in British Columbia to 66.8% in Newfoundland & Labrador. The proportion of men who consume alcohol at levels that are considered to be hazardous or harmful ranges from 8.6% in Prince Edward Island to 14.8% in Quebec. The proportion of men who are inactive ranges from 33.8% in British Columbia to 45.7% in Quebec.
- The annual economic burden of these four risk factors in males by province is as follows:
  - o British Columbia \$4,426 million
  - o Alberta \$4,734 million
  - Saskatchewan \$1,350 million
  - o Manitoba \$1,438 million
  - Ontario \$13,848 million
  - Quebec \$8,194 million
  - New Brunswick \$946 million
  - Nova Scotia \$1,163 million
  - o Prince Edward Island \$182 million
  - Newfoundland & Labrador \$706 million
- The per capita economic burden of these four risk factors in Canadian males is \$2,127, ranging from \$1,944 in British Columbia to \$2,712 in Newfoundland & Labrador, as indicated on the following table and chart.

Per Capita Economic Burden Attributable to Tobacco Smoking, Excess Weight, Alcohol Use, and Physical Inactivity in Men													
					Canada a	and the P	rovinces,	2013					
	Tobacco Smoking				Excess Weight			Alcohol Use				Physical Inactivity	Combined Per Capita
_	Light	Moderate	Heavy	Total	Overweight	Obesity	Total	Low	Hazardous	Harmful	Total	Total	Cost
British Columbia	\$172	\$185	\$272	\$628	\$281	\$370	\$650	\$112	\$113	\$224	\$449	\$217	\$1,944
Alberta	\$193	\$289	\$328	\$810	\$311	\$394	\$704	\$134	\$139	\$286	\$558	\$252	\$2,325
Saskatchewan	\$207	\$232	\$295	\$734	\$324	\$617	\$941	\$126	\$111	\$217	\$455	\$294	\$2,423
Manitoba	\$230	\$254	\$267	\$751	\$323	\$452	\$774	\$120	\$114	\$229	\$463	\$300	\$2,288
Ontario	\$165	\$207	\$276	\$648	\$323	\$426	\$749	\$98	\$109	\$225	\$432	\$252	\$2,081
Quebec	\$209	\$253	\$382	\$843	\$217	\$296	\$513	\$107	\$103	\$208	\$418	\$250	\$2,024
New Brunswick	\$205	\$362	\$410	\$977	\$292	\$582	\$874	\$114	\$95	\$196	\$405	\$277	\$2,533
Nova Scotia	\$259	\$328	\$424	\$1,011	\$342	\$495	\$838	\$95	\$100	\$201	\$396	\$269	\$2,515
Prince Edward Island	\$216	\$283	\$430	\$928	\$369	\$559	\$928	\$95	\$99	\$251	\$445	\$272	\$2,574
Newfoundland	\$198	\$355	\$493	\$1,046	\$311	\$567	\$878	\$157	\$102	\$223	\$482	\$307	\$2,712
Canada	\$190	\$238	\$323	\$750	\$288	\$396	\$684	\$95	\$113	\$230	\$437	\$255	\$2,127

