

## Statistics Canada

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## Table **103-0553**<sup>1, 2, 3, 26</sup>

New cases and 1991 age-standardized rate for primary cancer (based on the August 2015 CCR tabulation file), by cancer type and sex, Canada, provinces and territories annual

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Geography = Nunavut<sup>2</sup> Sex = Both sexes

Census population structure = 1991 Census population structure

census population structure = 1991 Census population structure										
Primary types of cancer (ICD-O-3) <sup>2. 2. 10</sup>	Characteristics 20, 22, 23	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Number of new cancer cases	75	65	55	55	55	60	60	50	60
Total, all primary sites of cancer	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	681.5	537.2	420.4	346.9	403.0	381.9	353.7	344.1	331.8
Lip [C00.0-C00.9] <sup>11</sup>	Number of new cancer cases	0	0	0	0	0	0	0	0	0
	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	х	x	x	х	x	×	x	×
	Number of new cancer cases	0	5	0	0	0	0	0	0	0
Tongue [C01.9-C02.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	10.8	x	x	x	x	×	x	×
Nt	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Salivary gland [C07.9-C08.9] 11	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	×	x	×
Floor of mouth [C04.0-C04.9] <sup>11</sup>	Number of new cancer cases	0	0	0	0	0	0	0	0	0
	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	×	x	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Gum and other mouth [C03.0-C03.9, C05.0-C05.9, C06.0-C06.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	×	x	×
	Number of new cancer cases	5	5	0	5	5	0	5	0	0
Nasopharynx [C11.0-C11.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	25.0	12.3	x	18.1	17.9	x	18.1	x	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Oropharynx [C10.0-C10.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	х	x	х	х	x	×	x	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Hypopharynx [C12.9, C13.0-C13.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	×	×	×	×
	Numbe2 of new cancer cases	0	0	0	0	0	0	0	5	0
Other oral cavity and pharynx [C09.0-C09.9, C14.0-C14.8] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	х	x	x	x	x	x	7.1	x

Primary types of cancer (ICD-0-3) <sup>2-3-10</sup>	Characteristics <sup>20, 22, 23</sup> Number of new cancer cases	2005	2006	2007	2008 0	2009 0	2010 0	2011	2012	2013
Esophagus [C15.0-C15.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
	Number of new cancer cases	5	0	5	5	0	0	0	0	5
Stomach [C16.0-C16.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	32.0	x	51.9	13.0	x	x	x	x	21.7
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Small intestine [C17.0-C17.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	×	x	x	x	x	x	×	×
	Number of new cancer cases	15	10	15	10	10	10	10	10	20
Colon and rectum [C18.0-C18.9, C19.9, C20.9, C26.0] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	164.6	113.5	134.3	45.2	50.4	59.6	76.1	56.3	108.4
	Number of new cancer cases	5	0	0	0	0	0	0	5	0
Anus, anal canal and anorectum [C21.0-C21.8] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	3.9	x	x	x	х	x	х	3.8	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
iver [C22.0] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	×	×	x	x	×	×	x	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
allbladder [C23.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	×	x	×	x	x	x	x	x	×
Pancreas [C25.0-C25.9] <sup>11</sup>	Number of new cancer cases	0	0	0	0	5	0	0	5	0
	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	26.1	x	x	27.6	x
	Number of new cancer cases	0	0	0	0	0	0	5	0	0
)ther digestive system [C22.1, C24.0-C24.9, C26.8-C26.9, C48.0-C48.8] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	х	х	x	х	16.2	x	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
arynx [C32.0-C32.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
	Number of new cancer cases	20	20	20	15	20	25	15	15	15
ung and bronchus [C34.0-C34.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	255.4	218.7	159.2	127.7	163.5	182.8	116.0	122.7	119.0
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Other respiratory system [C30.0-C30.1, C31.0-C31.9, C33.9, C38.1-C38.8, C39.0-C39.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
ones and joints [C40.0-C41.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	х	х	х	x	х	х	х	х	×
	Number of new cancer cases	0	0	0	0	0	0	0	5	0
oft tissue (including heart) [C38.0, C47.0-C47.9, C49.0-C49.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	3.8	×
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Velanomas of the skin [C44.0-C44.9, M-8720-M-8790]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	х	x	x	х	х	х	x	x

Primary types of cancer (ICD-O-3) <sup>2-2,10</sup>	Characteristics <sup>20, 22, 23</sup>	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Other non-epithelial skin [C44.0-C44.9] <sup>11, 12</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	х	х	x	x	x	х	х	х
	Number of new cancer cases	10	10	0	10	0	5	5	5	0
Breast [C50.0-C50.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	59.7	40.4	х	33.2	x	28.0	25.1	28.8	x
	Number of new cancer cases	0	5	5	5	0	0	0	0	0
Cervix uteri [C53.0-C53.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	3.6	17.7	7.6	x	x	х	х	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Corpus uteri [C54.0-C54.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	х	x	x	x	х	х	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Uterus, not otherwise specified [C55.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
	Number of new cancer cases	0	5	0	0	0	0	0	0	0
Ovary [C56.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	4.2	x	x	x	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Other female genital system [C51.0-C51.9, C52.9, C57.0-C58.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	х	x
ostate [C61.9] <sup>11</sup>	Number of new cancer cases	0	5	0	5	0	5	5	0	0
	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	х	26.9	x	26.1	x	21.6	16.2	x	x
	Number of new cancer cases	0	0	0	0	0	5	0	0	0
Testis [C62.0-C62.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	×	x	x	x	10.2	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Penis [C60.0-C60.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	×	x	x	×	×	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Other male genital organs [C63.0-C63.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	х	х	x
	Number of new cancer cases	0	0	5	0	0	0	5	0	0
Urinary bladder (including in situ) [C67.0-C67.9]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	2.1	x	x	x	5.1	x	x
	Number of new cancer cases	5	5	0	5	5	0	0	0	5
Kidney and renal pelvis [C64.9, C65.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	6.6	17.6	x	19.0	31.9	x	x	x	9.5
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Ureter [C66.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Other urinary organs [C68.0-C68.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	×	×	x	x	x	x

Primary types of cancer (ICD-O-3) <sup>2</sup> <sup>2</sup> <sup>10</sup>	Characteristics 20, 22, 23	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Eye and orbit [C69.0-C69.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	5
Brain [C71.0-C71.9] 14	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	3.6
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Cranial nerves and other nervous system [C71.0-C71.9, M-9530-M-9539; C70.0-C70.9, C72.0-C72.9]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	5	5	5	5
Thyroid [C73.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	3.2	6.5	18.3	13.1
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Other endocrine [C37.9, C74.0-C74.9, C75.0-C75.9] <sup>11</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	×	x	x	x	х	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Hodgkin lymphoma [M-9650-M-9667]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	×	x	x	x	х	x	x	x	x
	Number of new cancer cases	0	5	0	0	0	0	5	5	0
Non-Hodgkin lymphoma <sup>15</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	8.0	x	x	x	x	7.2	10.5	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Myeloma [M-9731, M-9732, M-9734]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	х	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Acute lymphocytic leukemia [M-9826, M-9835-9836;C42.0, M-9811-9818, M-9837;C42.1, M-9811- 9818, M-9837;C42.4, M-9811-9818, M-9837]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	×	x	x	x	x	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Chronic lymphocytic leukemia [C42.0, M-9823; C42.1, M-9823; C42.4, M-9823]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
	Number of new cancer cases	0	0	0	0	5	0	0	0	0
Acute myeloid leukemia [M-9840, M-9861, M-9865, M-9866, M-9867, M-9869, M-9871-M- 9874, M-9895-M-9897, M-9898, M-9910, M-9911, M-9920]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	×	x	x	x	1.8	x	x	x	x
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Chronic myeloid leukemia [M-9863, M-9875, M-9876, M-9945, M-9946]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	х	x	x	х	x	х	x
	Number of new cancer cases	0	5	0	0	0	0	0	0	0
Other leukemia 16	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	2.0	x	x	x	x	x	x	x
	Number of new cancer cases	5	5	0	0	5	0	0	0	0
Other, ill-defined and unknown sites <sup>12</sup>	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	4.5	32.3	x	x	19.5	x	x	x	x
	Number of new cancer cases	5	0	0	0	0	0	0	0	0
Mesothelioma [M-9050-M-9055]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	19.8	x	x	x	x	x	x	x	x

Primary types of cancer (ICD-O-3) 2 2 10	Characteristics 20, 22, 23	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Number of new cancer cases	0	0	0	0	0	0	0	0	0
Kaposi sarcoma [M-9140]	New cancer cases (age-standardized rate per 100,000 population) <sup>24</sup>	x	x	x	x	x	x	x	x	x
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**Note:** Due to the change in Age-Standardization base year, this table will only be made available for historical revisions (we now use the final 2011 Canadian postcensal population structure). In place of this table, please consult CANSIM tables 1030554 and 1030556. As a result of the change, users should use caution when comparing the current data in the new tables with the historical table.

## Symbol legend:

x Suppressed to meet the confidentiality requirements of the Statistics Act

## Footnotes:

- 1. Data sources include Statistics Canada's Canada's Canada maintains the CCR which is comprised of data supplied by the provinces and territories whose cooperation is gratefully acknowledged.
- World Health Organization, International Classification of Diseases for Oncology, Third Edition (ICD-O-3) and the International Agency for Research on Cancer (IARC) rules for determining multiple primary types (source: International Agency for Research on Cancer, World Health Organization, International Association of Cancer Registries, and European Network of Cancer Registries. International Rules for Multiple Primary Cancers, ICD-O Third Edition, Internal Report No.2004/02. Lyon: International Agency for Research on Cancer, 2004).
- 3. Cancer incidence refers to new primary sites of malignant neoplasms. The Canadian Cancer Registry (CCR) is a dynamic database that can be updated with new records or changes to previous records, therefore, the incidence counts may vary from one release to the next. In particular, data for the most recent years often represent an undercount of total cases due to a delay in the reporting of new cancer cases to the Canadian Cancer Registry. These missing cases are added to their appropriate diagnosis year with the reporting of a new reference year.
- 5. Although the Canadian Cancer Registry (CCR) strives to achieve national uniformity, reporting procedures and completeness still vary across the country. Specific issues follow: a) Because Quebec relies primarily on hospital data (i.e., hospitalizations or day surgeries) for cancers diagnosed until the end of 2010, the number of cases of some cancers are underestimated (source: Brisson J, Major D, Pelletier E. Evaluation of the completeness of the Fichier des tumeurs du Quebec. Institut national de la santé publique du Québec; 2003). Also, Quebec does not participate in national internal record linkage and national linkage between the CCR and the Canadian Vital Statistics Death Database. These processes reduce duplicate person and tumour records, identify cases missed by provincial/territorial registries, and enhance the accuracy of vital status information. b) There may be under-reporting of cancer data with death data. c) Differences may exist between the content of the CCR and the provincial/territories.
- 9. Nunavut became a territory in April 1999 and historical data are provided for comparison purposes. Current and historical cancer data are presented for the current boundaries of the Northwest Territories and Nunavut.
- 10. Cancer types are defined using the Surveillance, Epidemiology and End Results (SEER) program, based on International Classification of Diseases for Oncology, Third Edition (ICD-O-3). Included are all invasive types and in situ for bladder.
- 11. Excluding morphology types M-9050 to M-9055; M-9140; M-9590 to M-9992.
- 12. Other non-epithelial skin, excluding morphology types M-8000 to M-8005, M-8010 to M-8046, M-8050 to M-8084, M-8090 to M-8110, M-8720 to M-8790, M-9050 to M-9055, M-9140, M-9590 to M-9992.
- 14. Brain, excluding morphology types M-9050 to M-9055; M-9140; M-9530 to M-9539; M-9590 to M-9992.
- 15. Non-Hodgkin lymphoma, M-9590 to M-9597, M-9670 to M-9729, M-9735 to M-9738; M-9811 to M-9818, all sites except C42.0, C42.1, C42.4; M-9823, all sites except C42.0, C42.1, C42.4; M-9837, All sites except
- 16. Other leukemia, M-9733, M-9742, M-9800, M-9801, M-9805, M-9806 to M-9809, M-9820, M-9831, M-9832 to M-9834, M-9860, M-9870, M-9891, M-9930, M-9931, M-9940, M-9948, M-9963, M-9964; C42.0, M-9827; C42.1, M-9827; C42.4, M-9827.
- 17. Other, ill-defined and unknown sites, M-9740, M-9741, M-9750 to M-9769, M-9950, M-9960 to M-9962, M-9965 to M-9970, M-9970, M-9971, M-9975, M-9980, M-9982, M-9989, M-9989, M-9991, M-9992; C42.0 to C42.4, excluding M-9050 to M-9055, M-9140, M-9590 to M-9055, M-9140, M-950, M-9140, M-950, M-9140, M-91
- 18. Cancer incidence rates are age-standardized using the direct method and the 1991 final post censal Canadian population structure (Age standardization.)
- 20. Confidence intervals convey the degree of precision associated with a rate. Wide confidence intervals convey imprecision (i.e., high variability) and should be interpreted and compared cautiously. Two-sided 95% confidence intervals for agestandardized incidence rates are calculated according to Fay and Feuer (1997) (source: Fay MP, Feuer EJ. Confidence intervals for directly standardized rates: a method based on the gamma distribution. Statistics in Medicine 1997, 16: 791-801).
- 22. To prevent inappropriate disclosure of health-related information, the actual total number of cases is randomly rounded to a lower or higher multiple of 5; true zeros and actual counts evenly divisible by 5 are not affected. Specifically, an unbiased random rounding procedure is applied such that numbers ending in 0 or 5 are not rounded; numbers ending in a 1 or 6 are rounded up with a probability of 0.20 and down with a probability of 0.80; numbers ending in 3 or 8 are rounded up and down with probabilities of 0.40 and 0.60, respectively; and, numbers ending in 4 or 6 are sounded up and down with probabilities of 0.80 and 0.20, respectively; and, numbers ending in 3 or 8 are rounded up and down with probabilities of 0.80 and 0.20, respectively. By design, differences between the rounded and actual total number of cases will never exceed 4 and actual counts are more likely to be rounded to the nearest multiple of 5. The age-standardized incidence rate and 95% confidence interval, however, are calculated using the actual number of cases in the age-specific strata. When the rounded total number of cases is zero, the actual age-standardized incidence rate and 95% confidence interval, users could decipher when the actual value is zero rather than a one to four.
- 23. The following standard symbols are used in this Statistics Canada table: (..) for figures not available for a specific reference period, (...) for figures not applicable and (x) for figures suppressed to meet the confidentiality requirements of the Statistics Act.
- 24. The use of a standard population results in more meaningful incidence rate comparisons, because it adjusts for variations in population age distributions over time and across geographic areas.
- 25. Death certificate only (DCO) cases: Ontario has no DCO cases reported for 2008 to 2010 (just over 1000 DCO cases were reported in 2007); Quebec has no DCO cases reported for 2010 (just under 1400 DCO cases were reported in 2009); and Newfoundland and Labrador only reported DCO cases for 2007.
- 26. To reduce the number of duplicate cases, a national internal record linkage was completed to December 31, 2013 for all provinces and territories, except Quebec and the Yukon. A similar internal record linkage was completed up to December 31, 2008 for Quebec records only. A death clearance linkage was completed to December 31, 2008 for all provinces and territories, except Quebec. Death clearance was performed by linking cancer records to the Canadian Vital Statistics Death Database (excluding Quebec deaths).
- 27. Cancer incidence data for Quebec are not available for 2011, 2012 and 2013 diagnosis years. For CANSIM tables 103-0550, 103-0553 and 103-0554, the 2010 Quebec data have been copied forward into 2011, 2012 and 2013.
- 28. As of October 2014 Ontario has implemented a new cancer reporting system, the Ontario Cancer Registry, and decommissioned the old system, the Ontario Cancer Registry Information System. The new reporting system follows the SEER multiple primary histology rules that are used by all other provinces and territories. The first year reported to the CCR using the new system is the 2013 diagnosis year. The adoption of the new rules has increased the incidence number of certain types of cancers reported by Ontario. Some of the increase for the cancers affected are attributed to the adoption of these new rules.

Source: Statistics Canada. Table 103-0553 - New cases and 1991 age-standardized rate for primary cancer (based on the August 2015 CCR tabulation file), by cancer type and sex, Canada, provinces and territories, annual, CANSIM (database). (accessed: )

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