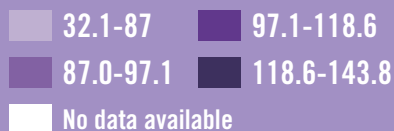


# CANCER IN THE AMERICAS

## BASIC INDICATORS

# 2013

Age-standardized mortality rate from all cancer types except skin non-melanoma per 100,000 pop, latest year available (2008-2010).





# PREFACE

Cancer is the second leading cause of death in the countries of the Americas<sup>1</sup>, yet there is limited information available on how each country in this Region is responding to this public health problem. The recent global and regional commitments on noncommunicable diseases (NCD), including cancer, have called attention to the need for more available and accurate information on the country situation with respect to epidemiological status of NCDs and the capacity for public health programs for prevention and control. Furthermore, the World Health Organization global monitoring framework<sup>2</sup> includes specific indicators related to cancer, and which require on-going monitoring and reporting on global progress towards NCD. Meanwhile, the Member States of the Pan American Health Organization (PAHO) provide annual mortality statistics, as well as information about their NCD programs and services through the national capacity survey of NCD programs, which was carried out in 2013.

The purpose of *“Cancer in the Americas. Basic Indicators 2013”* is to disseminate data made available to the Pan American Health Organization by its Member States on the current state of risk factors, cancer mortality as well as cancer plans, policies and services. The data presented in this publication are based on *“Cancer in the Americas. Cancer profiles 2013”*<sup>3</sup>, facilitating a regional overview of the information as well as country comparison, where appropriate.

On the cover, a map has been included showing the distribution of mortality from all cancer types except skin non-melanoma for both sexes. Furthermore, based on the importance of cervical and breast cancer as detectable and treatable cancers, a trends analysis of these two women cancer types is included inside the brochure.

The information on cancer control in the countries of the Americas synthesized in this brochure aims to facilitate decision making and formulation of policies and interventions for the prevention and control of this group of diseases.

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<sup>1</sup> Pan American Health Organization. Health in the Americas: 2012 edition. Regional outlook and country profiles. Washington, DC. 2012, available from: <http://bit.ly/LUva9a>

<sup>2</sup> World Health Organization. NCD Global Monitoring Framework 2013, available from: <http://bit.ly/1c7RRx2>

<sup>3</sup> PAHO/WHO Cancer in the Americas. Country profiles, 2013, available from: <http://bit.ly/1b5chfx>



| Demographic and Socioeconomic Indicators    |                  |                       |                                  |      |        |                         |                                    |
|---|------------------|-----------------------|----------------------------------|------|--------|-------------------------|------------------------------------|
|   | 1                | 2                     | 3T                               | 3M   | 3F     | 4                       | 5                                  |
|   | Total population | Average annual deaths | Life expectancy at birth (years) |      |        | Adult literacy rate (%) | GNI per capita (USD, Atlas method) |
|   |                  |                       | Total                            | Male | Female |                         |                                    |
| Northern America                            |                  |                       |                                  |      |        |                         |                                    |
| Canada                                      | 34,349,600       | 262,800               | 81                               | 79   | 83     | ...                     | 41,980                             |
| United States of America                    | 313,085,400      | 2,621,700             | 79                               | 76   | 81     | ...                     | 46,360                             |
| Mexico, Central America and Latin Caribbean |                  |                       |                                  |      |        |                         |                                    |
| Costa Rica                                  | 4,726,600        | 20,400                | 79                               | 77   | 82     | 96.1                    | 6,260                              |
| Cuba  | 11,253,700       | 83,900                | 79                               | 77   | 81     | 99.8                    | 5,500                              |
| Dominican Republic                          | 10,056,200       | 60,100                | 74                               | 71   | 76     | 88.2                    | 4,550                              |
| El Salvador                                 | 6,227,500        | 41,000                | 72                               | 67   | 77     | 84.1                    | 3,370                              |
| Guatemala                                   | 14,757,300       | 80,500                | 71                               | 68   | 75     | 74.5                    | 2,650                              |
| Honduras                                    | 7,754,100        | 37,500                | 73                               | 71   | 76     | 83.6                    | 1,800                              |
| Mexico                                      | 114,793,300      | 549,400               | 77                               | 75   | 79     | 93.4                    | 8,960                              |
| Nicaragua                                   | 5,869,900        | 27,500                | 74                               | 71   | 77     | 93.6                    | 1,000                              |
| Panama                                      | 3,571,200        | 18,100                | 76                               | 74   | 79     | 93.6                    | 6,570                              |
| Puerto Rico                                 | 3,745,500        | 29,100                | 79                               | 75   | 83     | 90.5                    | ...                                |
| South America                               |                  |                       |                                  |      |        |                         |                                    |
| Argentina                                   | 40,764,561       | 315,600               | 76                               | 72   | 80     | 97.7                    | 7,550                              |
| Bolivia (Plurinational State of)            | 10,088,100       | 72,900                | 67                               | 65   | 69     | 90.7                    | 1,630                              |
| Brazil                                      | 196,655,000      | 1,261,100             | 74                               | 70   | 77     | 90.0                    | 8,070                              |
| Chile                                       | 17,269,500       | 98,200                | 79                               | 76   | 82     | 98.6                    | 9,470                              |
| Colombia                                    | 46,927,100       | 260,600               | 74                               | 70   | 77     | 93.2                    | 4,990                              |
| Ecuador                                     | 14,757,300       | 74,500                | 76                               | 73   | 79     | 84.2                    | 3,970                              |
| Paraguay                                    | 6,568,300        | 36,100                | 73                               | 71   | 75     | 94.6                    | 2,250                              |
| Peru  | 29,399,800       | 161,400               | 74                               | 72   | 77     | 89.6                    | 4,200                              |
| Uruguay                                     | 3,380,000        | 31,300                | 77                               | 74   | 81     | 98.3                    | 9,010                              |
| Venezuela (Bolivarian Republic of)          | 29,436,900       | 153,100               | 75                               | 72   | 78     | 95.2                    | 10,090                             |
| Non-Latin Caribbean                         |                  |                       |                                  |      |        |                         |                                    |
| Anguilla                                    | 15,100           | 1,000                 | 81                               | 78   | 84     | ...                     | ...                                |
| Antigua and Barbuda                         | 87,900           | 500                   | 76                               | 74   | 78     | 99.0                    | 12,130                             |
| Bahamas                                     | 347,200          | 1,900                 | 76                               | 73   | 79     | ...                     | 29,550                             |
| Barbados                                    | 286,700          | 2,400                 | 74                               | 72   | 77     | ...                     | 18,850                             |
| Belize                                      | 317,900          | 1,200                 | 76                               | 75   | 78     | ...                     | 3,740                              |
| Dominica                                    | 73,100           | 600                   | 76                               | 73   | 79     | ...                     | 4,900                              |
| Grenada                                     | 108,400          | 900                   | 73                               | 71   | 76     | ...                     | 5,580                              |
| Guyana                                      | 756,000          | 4,400                 | 70                               | 67   | 73     | ...                     | 2,660                              |
| Jamaica                                     | 2,751,300        | 19,900                | 73                               | 71   | 76     | 86.4                    | 4,590                              |
| Saint Kitts and Nevis                       | 50,300           | 400                   | 75                               | 72   | 77     | ...                     | 10,150                             |
| Saint Lucia                                 | 161,600          | 1,100                 | 77                               | 74   | 80     | ...                     | 5,190                              |
| Suriname                                    | 529,400          | 3,800                 | 71                               | 68   | 74     | 94.6                    | 4,760                              |
| Trinidad and Tobago                         | 1,346,100        | 11,000                | 70                               | 68   | 74     | 98.7                    | 16,700                             |

# MORTALITY INDICATORS

|  | Years with available mortality data | 6Mf   | 6Ms        | 6Mt        | 6Ff     | 6Fs         | 6Ft        |
|--|-------------------------------------|---|------------|------------|---------|-------------|------------|
|  |                                     | MORTALITY RANKING BY CANCER TYPES (latest year with available data) |            |            |         |             |            |
|  |                                     | Male  |            |            | Female  |             |            |
|  |                                     | First   | Second     | Third      | First   | Second      | Third      |
| <b>Northern America</b>                            |                                     |   |            |            |         |             |            |
| Canada   | 2000-2009                           | Lung  | Colorectal | Prostate   | Lung    | Breast      | Colorectal |
| United States of America                           | 2000-2009                           | Lung  | Prostate   | Colorectal | Lung    | Breast      | Colorectal |
| <b>Mexico, Central America and Latin Caribbean</b> |                                     |   |            |            |         |             |            |
| Costa Rica   | 2000-2011                           | Prostate  | Stomach    | Lung       | Breast  | Colorectal  | Stomach    |
| Cuba   | 2001-2010                           | Lung  | Prostate   | Colorectal | Lung    | Breast      | Colorectal |
| Dominican Republic                                 | 2000-2004, 2010                     | Prostate  | Lung       | Liver      | Breast  | Lung        | Cervix     |
| El Salvador  | 2000-2009                           | Stomach   | Prostate   | Leukemia   | Stomach | Cervix      | Liver      |
| Guatemala  | 2005-2009                           | Stomach   | Liver      | Prostate   | Stomach | Liver       | Cervix     |
| Honduras   | 2012 <sup>b</sup>                   | Stomach   | Prostate   | Liver      | Cervix  | Stomach     | Liver      |
| Mexico   | 2000-2010                           | Prostate  | Lung       | Stomach    | Breast  | Cervix      | Liver      |
| Nicaragua  | 2000-2011                           | Prostate  | Stomach    | Liver      | Cervix  | Liver       | Breast     |
| Panama   | 2000-2009                           | Prostate  | Stomach    | Lung       | Breast  | Cervix      | Colorectal |
| Puerto Rico  | 2000-2009                           | Prostate  | Lung       | Colorectal | Breast  | Colorectal  | Lung       |
| <b>South America</b>                               |                                     |   |            |            |         |             |            |
| Argentina  | 2000-2010                           | Lung  | Prostate   | Colorectal | Breast  | Colorectal  | Lung       |
| Bolivia (Plurinational State of)                   | 2012 <sup>b</sup>                   | Stomach   | Prostate   | Lung       | Cervix  | Stomach     | Breast     |
| Brazil   | 2000-2010                           | Lung  | Prostate   | Stomach    | Breast  | Lung        | Colorectal |
| Chile  | 2000-2009                           | Stomach   | Prostate   | Lung       | Breast  | Gallbladder | Stomach    |
| Colombia   | 2000-2009                           | Stomach   | Lung       | Prostate   | Breast  | Stomach     | Cervix     |
| Ecuador  | 2000-2010                           | Stomach   | Prostate   | Lung       | Stomach | Breast      | Liver      |
| Paraguay   | 2000-2010                           | Lung  | Prostate   | Stomach    | Breast  | Cervix      | Colorectal |
| Peru   | 2000-2010                           | Stomach   | Prostate   | Lung       | Stomach | Cervix      | Breast     |
| Uruguay  | 2000-01, 2003-04, 2009              | Lung  | Prostate   | Colorectal | Breast  | Colorectal  | Pancreas   |
| Venezuela (Bolivarian Republic of)                 | 2000-2009                           | Prostate  | Lung       | Stomach    | Breast  | Cervix      | Lung       |
| <b>Non-Latin Caribbean</b>                         |                                     |   |            |            |         |             |            |
| Anguilla   | 2000-2008                           | Prostate  | Lung       | Colorectal | Cervix  | Liver       | Renal      |
| Antigua and Barbuda                                | 2000-2008                           | Prostate  | Lung       | Colorectal | Breast  | Cervix      | Colorectal |
| Bahamas  | 2000-2008                           | Prostate  | Colorectal | Lung       | Breast  | Colorectal  | Ovary      |
| Barbados   | 2000-2008                           | Prostate  | Colorectal | Lung       | Breast  | Colorectal  | Cervix     |
| Belize   | 2000-2009                           | Prostate  | Liver      | Lung       | Breast  | Cervix      | Colorectal |
| Dominica   | 2000-2008                           | Prostate  | Lung       | Pancreas   | Breast  | Lung        | Colorectal |
| Grenada  | 2000-2008                           | Prostate  | Colorectal | Lung       | Breast  | Colorectal  | Cervix     |
| Guyana   | 2000-2009                           | Prostate  | Liver      | Colorectal | Breast  | Cervix      | Ovary      |
| Jamaica  | 2012 <sup>b</sup>                   | Prostate  | Lung       | Stomach    | Breast  | Cervix      | Stomach    |
| Saint Kitts and Nevis                              | 2000-2008                           | Prostate  | Liver      | Esophagus  | Breast  | Cervix      | Liver      |
| Saint Lucia  | 2000-2008                           | Prostate  | Lung       | Esophagus  | Ovary   | Pancreas    | Breast     |
| Suriname   | 2000-2009                           | Colorectal  | Lung       | Prostate   | Breast  | Cervix      | Colorectal |
| Trinidad and Tobago                                | 2000-2008                           | Prostate  | Lung       | Colorectal | Breast  | Cervix      | Colorectal |

# MORTALITY INDICATORS

|  | 7Md                         | 7Mr                | 7Ma    | 7Fd                         | 7Fr                | 7Fa    | 8Fd                            | 8Fr                | 8Fa    |
|--|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|--------------------------------|--------------------|--------|
|  | ALL CANCER TYPES            |                    |        |                             |                    |        | BREAST CANCER                  |                    |        |
|  | Male                        |                    |        | Female                      |                    |        |                                |                    |        |
|  | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number of deaths (latest year) | ASMR (latest year) | AAPC   |
|  | 37,204                      | 145.56             | -1.87* | 33,551                      | 108.02             | -1.12* | 4,944                          | 16.68              | -2.46* |
|  | 294,731                     | 141.05             | -1.85* | 270,034                     | 102.03             | -1.53* | 40,684                         | 16.31              | -2.10* |
|  | 2,559                       | 130.83             | 0.17   | 2,035                       | 90.46              | 0.60   | 296                            | 13.10              | 1.03*  |
|  | 12,599                      | 164.31             | 0.80*  | 9,368                       | 112.01             | 0.43*  | 1,470                          | 17.58              | 0.55*  |
|  | 4,578                       | 115.82             | NC     | 3,855                       | 93.91              | NC     | 699                            | 17.00              | NC     |
|  | 2,022                       | 91.15              | -0.70  | 2,900                       | 101.79             | -1.20* | 191                            | 7.07               | 1.45   |
|  | 3,220                       | 88.91              | NC     | 3,845                       | 90.15              | NC     | 215                            | 5.21               | NC     |
|  | 2,386                       | 89.30              | NC     | 2,664                       | 92.20              | NC     | 224                            | 8.00               | NC     |
|  | 33,263                      | 78.30              | -1.00* | 34,745                      | 69.39              | -1.00* | 4,966                          | 9.92               | 0.51*  |
|  | 1,469                       | 83.72              | -2.38* | 1,846                       | 89.77              | -3.42* | 219                            | 11.03              | -0.50  |
|  | 1,407                       | 105.72             | -1.18* | 1,279                       | 85.56              | -0.93  | 191                            | 12.62              | -1.50  |
|  | 2,846                       | 117.21             | -0.40  | 2,193                       | 70.90              | -0.36  | 440                            | 15.53              | 0.79   |
|  | 30,365                      | 148.02             | -1.08* | 27,094                      | 97.98              | -0.67* | 5,446                          | 20.30              | -1.27* |
|  | 2,984                       | 86.20              | NC     | 3,955                       | 96.30              | NC     | 299                            | 7.20               | NC     |
|  | 101,362                     | 127.71             | -1.50* | 93,313                      | 95.74              | -1.30* | 15,087                         | 15.39              | -1.00  |
|  | 11,630                      | 143.41             | -1.48* | 10,794                      | 102.26             | -1.40* | 1,338                          | 12.92              | -0.83  |
|  | 19,410                      | 128.31             | -0.31  | 21,878                      | 113.00             | -0.93* | 3,030                          | 15.18              | 1.00   |
|  | 5,103                       | 93.96              | -0.20  | 5,385                       | 87.03              | 0.02   | 564                            | 9.29               | 1.56*  |
|  | 2,449                       | 116.65             | -2.50* | 2,525                       | 106.92             | -2.90* | 407                            | 17.64              | 0.41   |
|  | 14,084                      | 134.78             | 0.31   | 14,965                      | 123.95             | -0.21  | 1,349                          | 11.27              | -0.13  |
|  | 4,145                       | 197.26             | NC     | 3,202                       | 107.54             | NC     | 622                            | 23.10              | NC     |
|  | 10,152                      | 104.86             | -2.00* | 9,852                       | 86.38              | -3.10* | 1,643                          | 14.12              | -1.80  |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 89                          | 112.25             | -1.91  | 66                          | 77.14              | -2.94  | 13                             | 14.85              | NC     |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 175                         | 95.39              | -1.88  | 220                         | 81.92              | -6.80* | 39                             | 14.57              | NC     |
|  | 1,961                       | 133.50             | NC     | 1,442                       | 87.60              | NC     | 290                            | 18.60              | NC     |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 1,756                       | 139.49             | -0.07  | 1,452                       | 98.93              | 0.57   | 286                            | 25.05              | 1.27   |
|  | 182                         | 96.69              | 1.89   | 159                         | 68.99              | 0.48   | 28                             | 12.53              | NC     |
|  | 746                         | 173.32             | 0.51   | 671                         | 95.49              | 0.54   | 155                            | 21.96              | NC     |

# MORTALITY INDICATORS

|  | 9Fd                         | 9Fr                | 9Fa    | 10Md                        | 10Mr               | 10Ma   | 10Fd                        | 10Fr               | 10Fa   |
|--|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|
|  | CERVICAL CANCER             |                    |        | COLORECTAL CANCER           |                    |        |                             |                    |        |
|  |                             |                    |        | Male                        |                    |        | Female                      |                    |        |
|  | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   |
| <b>Northern America</b>                            |                             |                    |        |                             |                    |        |                             |                    |        |
| Canada   | 370                         | 1.45               | -2.61* | 4,203                       | 16.33              | -1.01* | 3,607                       | 10.61              | -0.92* |
| United States of America                           | 3,913                       | 1.88               | -1.80* | 26,976                      | 12.89              | -2.81* | 25,424                      | 8.93               | -2.76* |
| <b>Mexico, Central America and Latin Caribbean</b> |                             |                    |        |                             |                    |        |                             |                    |        |
| Costa Rica   | 117                         | 5.12               | -3.45* | 205                         | 10.37              | 2.26*  | 247                         | 10.75              | 1.43   |
| Cuba   | 439                         | 5.64               | 0.10   | 938                         | 11.95              | 0.73   | 1,295                       | 14.14              | 0.13   |
| Dominican Republic                                 | 416                         | 9.93               | NC     | 306                         | 7.82               | NC     | 260                         | 6.27               | NC     |
| El Salvador  | 304                         | 11.26              | -4.09* | 84                          | 3.93               | -0.84  | 147                         | 5.04               | 0.84   |
| Guatemala  | 389                         | 9.22               | NC     | 110                         | 3.13               | NC     | 122                         | 2.98               | NC     |
| Honduras   | 417                         | 14.10              | NC     | 113                         | 4.40               | NC     | 135                         | 4.60               | NC     |
| Mexico   | 3,864                       | 7.69               | -4.61* | 2,090                       | 4.90               | 1.98*  | 1,892                       | 3.79               | 0.59   |
| Nicaragua  | 374                         | 18.43              | -3.91* | 102                         | 6.01               | 1.80   | 112                         | 5.47               | -1.63  |
| Panama   | 130                         | 8.48               | -5.30* | 134                         | 10.03              | -0.31  | 125                         | 8.50               | -0.54  |
| Puerto Rico  | 58                          | 2.16               | -0.94  | 397                         | 16.59              | 2.13*  | 334                         | 9.93               | 0.41   |
| <b>South America</b>                               |                             |                    |        |                             |                    |        |                             |                    |        |
| Argentina  | 980                         | 4.43               | -0.68  | 3,623                       | 17.60              | 0.40   | 3,127                       | 10.34              | -0.20  |
| Bolivia (Plurinational State of)                   | 845                         | 21.00              | NC     | 190                         | 5.70               | NC     | 234                         | 5.80               | NC     |
| Brazil   | 6,006                       | 6.08               | -2.53* | 6,963                       | 8.81               | 0.31   | 7,860                       | 8.03               | -0.30  |
| Chile  | 646                         | 6.38               | -3.76* | 829                         | 10.25              | 1.54*  | 977                         | 8.92               | 0.46   |
| Colombia   | 2,169                       | 10.75              | -2.56* | 1,441                       | 9.39               | 2.88*  | 1,809                       | 9.52               | 1.23   |
| Ecuador  | 395                         | 6.49               | -0.12  | 302                         | 5.63               | 4.20*  | 401                         | 6.47               | 2.49*  |
| Paraguay   | 383                         | 16.04              | 0.34   | 188                         | 8.94               | 3.02*  | 194                         | 8.37               | 1.49   |
| Peru   | 1,707                       | 14.16              | 0.20   | 859                         | 8.42               | 3.54*  | 921                         | 7.72               | 2.84*  |
| Uruguay  | 75                          | 3.48               | NC     | 412                         | 19.29              | NC     | 445                         | 12.93              | NC     |
| Venezuela (Bolivarian Republic of)                 | 1,199                       | 9.91               | -3.10* | 655                         | 6.79               | -1.94* | 722                         | 6.55               | -3.50* |
| <b>Non-Latin Caribbean</b>                         |                             |                    |        |                             |                    |        |                             |                    |        |
| Anguilla   | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Antigua and Barbuda                                | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Bahamas  | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Barbados   | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Belize   | 11                          | 11.29              | NC     | 6                           | 7.51               | NC     | 6                           | 6.55               | NC     |
| Dominica   | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Grenada  | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Guyana   | 29                          | 10.22              | NC     | 13                          | 7.63               | NC     | 9                           | 3.71               | NC     |
| Jamaica  | 185                         | 11.90              | NC     | 126                         | 8.80               | NC     | 131                         | 6.90               | NC     |
| Saint Kitts and Nevis                              | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Saint Lucia  | 78                          | 8.81               | -2.26  | 160                         | 20.33              | 3.40   | 137                         | 13.64              | 1.19   |
| Suriname   | 21                          | 8.99               | NC     | 31                          | 17.16              | NC     | 17                          | 7.40               | NC     |
| Trinidad and Tobago                                | 74                          | 10.48              | NC     | 86                          | 18.80              | NC     | 74                          | 10.7               | NC     |



| Mortality Indicators |                             |                    |        |                             |                    |        |                             |                    |        |                             |                    |        |
|----------------------|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|
| Cancer Type          | 11Md                        | 11Mr               | 11Ma   | 11Fd                        | 11Fr               | 11Fa   | 12Md                        | 12Mr               | 12Ma   | 12Fd                        | 12Fr               | 12Fa   |
|                      | Liver Cancer                |                    |        |                             |                    |        | Lung Cancer                 |                    |        |                             |                    |        |
|                      | Male                        |                    |        | Female                      |                    |        | Male                        |                    |        | Female                      |                    |        |
|                      | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   |
| Total                | 1,256                       | 5.01               | 1.90*  | 694                         | 2.16               | 1.59*  | 10,572                      | 51.54              | -2.10* | 8,540                       | 28.52              | 0.20   |
|                      | 13,038                      | 6.40               | 2.94*  | 6,319                       | 2.36               | 1.51*  | 87,744                      | 42.31              | -2.60* | 70,417                      | 26.82              | -1.00* |
| Breast               | 173                         | 8.92               | 0.29   | 85                          | 3.82               | -2.04  | 230                         | 12.11              | 0.80   | 97                          | 4.41               | -2.47  |
|                      | 357                         | 4.71               | -0.59  | 387                         | 4.50               | -0.14  | 3,286                       | 43.20              | 0.50   | 1,842                       | 22.19              | 2.42*  |
|                      | 372                         | 9.34               | NC     | 296                         | 7.25               | NC     | 557                         | 14.52              | NC     | 431                         | 10.59              | NC     |
|                      | 115                         | 5.50               | -0.86  | 214                         | 7.49               | -1.07  | 126                         | 5.73               | -3.08  | 145                         | 5.00               | -1.90  |
|                      | 556                         | 15.47              | NC     | 568                         | 13.84              | NC     | 206                         | 5.92               | NC     | 174                         | 4.22               | NC     |
|                      | 282                         | 11.80              | NC     | 290                         | 10.40              | NC     | 185                         | 7.30               | NC     | 125                         | 4.40               | NC     |
|                      | 2,539                       | 6.12               | -0.93* | 2,746                       | 5.60               | -1.16* | 4,300                       | 10.47              | -3.7*  | 2,331                       | 4.70               | -1.96* |
|                      | 161                         | 9.96               | -0.20  | 179                         | 9.10               | -3.73* | 153                         | 9.22               | -2.31* | 90                          | 4.66               | -1.73  |
|                      | 87                          | 5.03               | 0.18   | 74                          | 6.48               | 3.17   | 172                         | 13.16              | -0.68  | 95                          | 6.51               | -1.37  |
|                      | 90                          | 9.07               | 0.72   | 212                         | 2.79               | -0.50  | 417                         | 17.18              | -0.99  | 194                         | 6.10               | -0.17  |
| Prostate             | 992                         | 4.83               | -1.17* | 817                         | 2.81               | -2.63* | 6,394                       | 31.3               | -1.68* | 2,540                       | 9.45               | 2.32*  |
|                      | 121                         | 3.50               | NC     | 142                         | 3.50               | NC     | 164                         | 5.00               | NC     | 172                         | 4.20               | NC     |
|                      | 4,786                       | 6.00               | -0.37  | 3,786                       | 3.91               | -1.50* | 14,664                      | 18.85              | -2.00* | 9,418                       | 9.80               | 0.70   |
|                      | 518                         | 6.40               | 0.92   | 461                         | 4.24               | 2.06*  | 1,585                       | 19.56              | -1.35* | 947                         | 9.07               | 1.47*  |
|                      | 890                         | 6.01               | -0.56  | 1,096                       | 5.86               | -1.82* | 2,820                       | 19.28              | 0.51   | 1,981                       | 10.69              | 0.50*  |
|                      | 372                         | 6.97               | -0.22  | 420                         | 6.84               | -0.26  | 483                         | 9.11               | 0.26   | 319                         | 5.24               | 1.67   |
|                      | 80                          | 3.80               | -4.06* | 72                          | 3.03               | -2.39  | 480                         | 23.44              | -1.08  | 152                         | 6.80               | -0.58  |
|                      | 908                         | 8.49               | -0.62  | 1,070                       | 8.92               | -0.09  | 1,583                       | 15.50              | 0.00   | 1,252                       | 10.54              | 2.79*  |
|                      | 74                          | 3.64               | NC     | 38                          | 1.29               | NC     | 1,003                       | 49.27              | NC     | 231                         | 8.47               | NC     |
|                      | 443                         | 4.60               | -1.75* | 424                         | 3.87               | -3.71* | 1,916                       | 19.69              | -1.00  | 1,184                       | 10.71              | -1.70* |
| Colorectal           | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 10                          | 12.13              | NC     | 4                           | 4.39               | NC     | 9                           | 12.27              | NC     | 6                           | 7.46               | NC     |
|                      | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 16                          | 7.47               | NC     | 9                           | 3.61               | NC     | 13                          | 7.46               | NC     | 7                           | 2.49               | NC     |
|                      | 75                          | 5.20               | NC     | 55                          | 3.00               | NC     | 357                         | 18.20              | NC     | 103                         | 6.10               | NC     |
|                      | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 51                          | 10.23              | 4.59   | 39                          | 9.69               | 6.32   | 178                         | 25.11              | 1.44   | 90                          | 12.51              | -1.58  |
|                      | 14                          | 7.03               | NC     | 9                           | 3.89               | NC     | 31                          | 16.26              | NC     | 13                          | 5.77               | NC     |
|                      | 15                          | 3.46               | NC     | 13                          | 1.83               | NC     | 95                          | 19.57              | NC     | 33                          | 4.72               | NC     |

## SPECIAL ANALYSIS: BREAST AND CERVICAL CANCER

An estimated 110,788 women in the Americas died from breast cancer (86,169 women) and cervical cancer (24,619 women), in 2010 according to PAHO/WHO mortality data (latest year of country data 2009–2011) (BI 8fd, 9Fd). Furthermore, breast cancer ranks as the most common cause of cancer-related deaths among women in the majority of countries in the Americas, while cervical cancer remains the most frequent cause of cancer mortality in four countries [Honduras, Nicaragua, Bolivia and Anguilla] (BI 6Ft).

Age-standardized mortality rates from breast cancer are highest in the countries of the Southern Cone and the “English” Caribbean, with over 20.0 deaths per 100,000 women; while the lowest rates are observed in Guatemala, El Salvador and Ecuador, with less than 10.0 deaths per 100,000 women (IB 8Fr). Cervical cancer age-standardized mortality rates are highest in Nicaragua, Paraguay and Peru, with mean values of 16.2 deaths per 100,000 women; and the lowest rates are in Canada, USA and Puerto Rico, where rates are more than 7 times lower (BI 9Fr).

Breast cancer mortality is substantially greater than that from cervical cancer in several countries in the region. One example is Brazil, which in 2010 recorded rates of 15.4 and 6.1 deaths per 100,000 women, from breast and cervical cancer, respectively (Figure 1). In other countries, breast and cervical cancer mortality rates are similar. This is the case in Mexico, which in 2010 recorded 9.9 deaths from breast cancer and 7.7 deaths from cervical cancer per 100,000 women (Figure 2). Yet many countries have cervical cancer mortality rates that are much higher than breast cancer. In Nicaragua, for example, the rate of death from cervical cancer in 2011 was almost twice as high as the rate of death from breast cancer—18.4 and 11.0 deaths per 100,000 women, respectively (Figure 3).

Of the 22 countries<sup>1</sup> included in the analysis of temporal trends in mortality from breast and cervical cancers (BI 8Fa, 9Fa), three countries showed statistically significant declines in breast cancer mortality since 2000, with average annual percentage changes ranging from –1.3% (95% confidence interval, CI: –1.3 to –0.8) in Argentina to –2.5% (95% CI: –2.8 to –2.1) in Canada. Another four countries showed statistically significant increases in breast cancer mortality since 2000, with average annual percentage changes ranging from 1.56% (95% CI: 0.1 to 3.1) in Ecuador to 0.51% (95% CI: 0.1 to 0.9) in Mexico.

Since 2000, mortality from cervical cancer has had statistically significant decreases in 12 of the countries included in the analysis of temporal trends, with the greatest annual percentage changes observed in Panama (–5.3%; 95% CI: –8.6 to –1.8) and Mexico (–4.6%; 95% CI: –4.9 to –4.3).

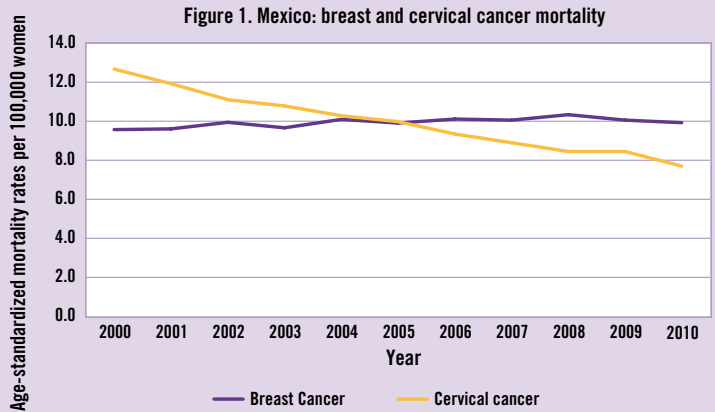
Source: Luciani S, Cabanes A, Prieto-Lara E, Gawryszewski V. Cervical and female breast cancers in the Americas: current situation and opportunities for action. *Bull World Health Organ* 2013; 91: 640–649, updated with the latest mortality data from the PAHO/WHO Mortality Information system.

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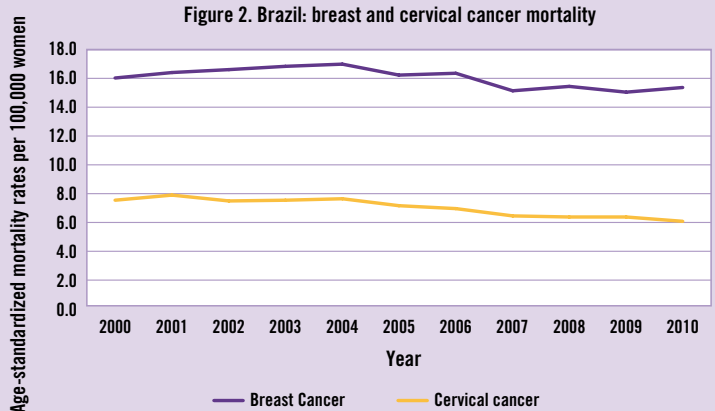
<sup>1</sup> For the purpose of this analysis, Caribbean countries with small populations were grouped together for rate calculation and trend analysis (see technical notes).

# SPECIAL ANALYSIS: BREAST AND CERVICAL CANCER

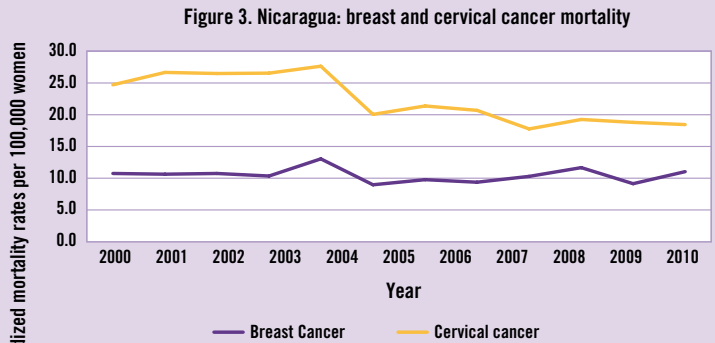
| Mexico |               |                 |
|--------|---------------|-----------------|
| Year   | Breast cancer | Cervical cancer |
| 2000   | 9.6           | 12.7            |
| 2001   | 9.6           | 11.9            |
| 2002   | 9.9           | 11.1            |
| 2003   | 9.7           | 10.8            |
| 2004   | 10.1          | 10.3            |
| 2005   | 9.9           | 10.0            |
| 2006   | 10.1          | 9.3             |
| 2007   | 10.1          | 8.9             |
| 2008   | 10.3          | 8.5             |
| 2009   | 10.1          | 8.4             |
| 2010   | 9.9           | 7.7             |



| Brazil |               |                 |
|--------|---------------|-----------------|
| Year   | Breast cancer | Cervical cancer |
| 2000   | 16.0          | 7.5             |
| 2001   | 16.4          | 7.9             |
| 2002   | 16.6          | 7.5             |
| 2003   | 16.8          | 7.6             |
| 2004   | 17.0          | 7.7             |
| 2005   | 16.2          | 7.2             |
| 2006   | 16.4          | 7.0             |
| 2007   | 15.2          | 6.5             |
| 2008   | 15.5          | 6.4             |
| 2009   | 15.1          | 6.4             |
| 2010   | 15.4          | 6.1             |



| Nicaragua |               |                 |
|-----------|---------------|-----------------|
| Year      | Breast cancer | Cervical cancer |
| 2000      | 10.8          | 24.7            |
| 2001      | 10.6          | 26.6            |
| 2002      | 10.8          | 26.5            |
| 2003      | 10.4          | 26.5            |
| 2004      | 13.1          | 27.6            |
| 2005      | 9.0           | 20.0            |
| 2006      | 9.8           | 21.4            |
| 2007      | 9.3           | 20.7            |
| 2008      | 10.3          | 17.8            |
| 2009      | 11.7          | 19.2            |
| 2010      | 9.2           | 18.8            |
| 2011      | 11.0          | 18.4            |



# MORTALITY INDICATORS

|  | 13Md                        | 13Mr               | 13Ma   | 14Md                        | 14Mr               | 14Ma   | 14Fd                        | 14Fr               | 14Fa   |
|--|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|-----------------------------|--------------------|--------|
|  | PROSTATE CANCER             |                    |        | STOMACH CANCER              |                    |        |                             |                    |        |
|  |                             |                    |        | Male                        |                    |        | Female                      |                    |        |
|  | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   | Number deaths (latest year) | ASMR (latest year) | AAPC   |
| <b>Northern America</b>                            |                             |                    |        |                             |                    |        |                             |                    |        |
| Canada   | 3,745                       | 13.5               | -3.60* | 1,177                       | 4.64               | 2.88*  | 734                         | 2.24               | 2.58*  |
| United States of America                           | 28,091                      | 12.28              | -3.40* | 6,666                       | 3.22               | -3.10* | 4,522                       | 1.65               | -2.83* |
| <b>Mexico, Central America and Latin Caribbean</b> |                             |                    |        |                             |                    |        |                             |                    |        |
| Costa Rica   | 485                         | 25.45              | 2.20   | 414                         | 21.38              | -3.35* | 239                         | 10.49              | -3.09* |
| Cuba   | 2,779                       | 34.06              | 1.67*  | 552                         | 7.21               | -0.26  | 311                         | 3.56               | -0.78  |
| Dominican Republic                                 | 1,573                       | 39.34              | NC     | 324                         | 8.35               | NC     | 229                         | 5.58               | NC     |
| El Salvador  | 294                         | 12.76              | 0.24   | 374                         | 17.22              | -2.93* | 358                         | 12.31              | -2.41* |
| Guatemala  | 494                         | 15.49              | NC     | 641                         | 18.3               | NC     | 759                         | 18.29              | NC     |
| Honduras   | 371                         | 13.80              | NC     | 436                         | 17.00              | NC     | 383                         | 13.50              | NC     |
| Mexico   | 5,404                       | 13.62              | -0.73* | 2,944                       | 6.98               | -2.56* | 2,556                       | 5.08               | -2.30* |
| Nicaragua  | 221                         | 14.44              | -2.50* | 216                         | 12.94              | -3.85* | 163                         | 8.03               | -4.10* |
| Panama   | 277                         | 22.07              | -2.69* | 175                         | 13.14              | -1.82  | 112                         | 7.44               | -1.02  |
| Puerto Rico  | 518                         | 19.08              | -0.61  | 136                         | 5.53               | -4.06* | 77                          | 2.34               | -5.32* |
| <b>South America</b>                               |                             |                    |        |                             |                    |        |                             |                    |        |
| Argentina  | 3,903                       | 18.63              | -1.05* | 1,849                       | 9.04               | -2.10* | 1,056                       | 3.73               | -1.46* |
| Bolivia (Plurinational State of)                   | 515                         | 15.70              | NC     | 244                         | 7.30               | NC     | 269                         | 6.60               | NC     |
| Brazil   | 13,369                      | 17.98              | -0.60  | 9,321                       | 11.81              | -3.20* | 5,447                       | 5.57               | -3.30* |
| Chile  | 1,753                       | 22.11              | -0.97* | 2,235                       | 27.49              | -3.29* | 1,115                       | 10.16              | -2.81* |
| Colombia   | 2,684                       | 20.30              | 1.56*  | 3,287                       | 21.76              | -1.81* | 2,275                       | 11.92              | -3.06* |
| Ecuador  | 956                         | 18.51              | 1.29   | 1,014                       | 18.94              | 1.66*  | 785                         | 12.59              | 2.11*  |
| Paraguay   | 424                         | 23.18              | -0.30  | 210                         | 9.83               | -6.70* | 108                         | 4.74               | -7.69* |
| Peru   | 2,040                       | 21.59              | 1.04   | 2,632                       | 25.64              | -1.30* | 2,261                       | 18.93              | -1.76* |
| Uruguay  | 625                         | 27.01              | NC     | 237                         | 11.40              | NC     | 152                         | 4.79               | NC     |
| Venezuela (Bolivarian Republic of)                 | 2,076                       | 24.57              | -2.03* | 1,167                       | 12.16              | -3.56* | 750                         | 6.50               | -5.92* |
| <b>Non-Latin Caribbean</b>                         |                             |                    |        |                             |                    |        |                             |                    |        |
| Anguilla   | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Antigua and Barbuda                                | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Bahamas  | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Barbados   | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Belize   | 24                          | 33.05              | NC     | 5                           | 6.39               | NC     | 1                           | 1.04               | NC     |
| Dominica   | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Grenada  | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Guyana   | 53                          | 35.18              | NC     | 5                           | 2.96               | NC     | 10                          | 4.05               | NC     |
| Jamaica  | 649                         | 33.10              | NC     | 143                         | 9.80               | NC     | 86                          | 4.60               | NC     |
| Saint Kitts and Nevis                              | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Saint Lucia  | 556                         | 51.35              | 1.00   | 107                         | 20.05              | -0.33  | 81                          | 10.37              | -2.63  |
| Suriname   | 30                          | 17.56              | NC     | 7                           | 3.97               | NC     | 4                           | 1.69               | NC     |
| Trinidad and Tobago                                | 252                         | 67.77              | NC     | 33                          | 7.48               | NC     | 22                          | 3.05               | NC     |

# RISK FACTORS INDICATORS

| 15T   | 15M   | 15F    | 16T   | 16M  | 16F    | 17T  | 17M  | 17F    | 18  |
|---|-------|--------|---|------|--------|--|------|--------|---|
| TOBACCO USE   |       |        |   |      |        | FRUIT AND VEGETABLE INTAKE   |      |        | HPV PREVALENCE                                      |
| Prevalence (%) of current tobacco smokers among adults† |       |        | Prevalence (%) of current use of any tobacco products among youth |      |        | Percentage of the population who eat 5 or more servings of fruits and vegetables per day |      |        | HPV (%) prevalence among women with normal cytology |
| Total   | Male  | Female | Total   | Male | Female | Total  | Male | Female |   |
|   |       |        |   |      |        |  |      |        |   |
| 18.0  | 20.0  | 15     | 2.8   | 2.8  | 2.7    | ...  | ...  | ...    | 9.9   |
| 19.0†   | 21.6† | 16.5†  | 8.0   | 8.2  | 7.8    | 23.4   | 19.2 | 27.7   | 13.3  |
|   |       |        |   |      |        |  |      |        |   |
| 16.0  | 24.0  | 8.0    | 14.6  | 15.9 | 13.1   | 22.3   | 24.2 | 20.4   | 30.2  |
| 23.7†   | 31.1† | 16.4†  | 17.1  | 19.8 | 15.0   | ...  | ...  | ...    | ...   |
| 16.0  | 17.0  | 16.0   | 18.6  | 24.3 | 14.0   | 24.8   | 29.6 | 19.8   | ...   |
| 13.0  | 24.0  | 3.0    | 14.6  | 18.2 | 11.0   | ...  | ...  | ...    | ...   |
| 10.0  | 20.0  | 2.0    | 16.6  | 19.7 | 13.3   | 19.0   | 20.4 | 18.1   | 33.2  |
| ...   | ...   | ...    | 20.4  | 22.8 | 18.2   | ...  | ...  | ...    | 36.8  |
| 17.0  | 27.0  | 8.0    | 19.8  | 21.6 | 17.7   | ...  | ...  | ...    | 9.4   |
| ...   | ...   | ...    | 25.1  | 30.4 | 20.5   | ...  | ...  | ...    | ...   |
| 14.0  | 23.0  | 4.0    | 12.7  | 15.1 | 10.2   | ...  | ...  | ...    | ...   |
| ...   | ...   | ...    | ...   | ...  | ...    | 17.7   | 17.1 | 18.3   | 30.7  |
|   |       |        |   |      |        |  |      |        |   |
| 23.0  | 30.0  | 16.0   | 24.1  | 22.7 | 25.4   | 4.6  | 4.1  | 5.0    | 20.1  |
| 30.0  | 42.0  | 18.0   | 18.7  | 20.9 | 16.4   | ...  | ...  | ...    | ...   |
| 17.4  | 16.5  | 18.2   | 7.6   | 7.9  | 7.3    | 34   | 26.9 | 40.1   | 40.4□   |
| 41.0  | 44.0  | 38.0   | 35.1  | 29.8 | 39.8   | 15.8   | 13.6 | 17.9   | 11.2  |
| 18.0  | 31.0  | 5.0    | 27.6  | 27.0 | 27.8   | ...  | ...  | ...    | 15.9  |
| ...   | ...   | ...    | 28.6  | 31.2 | 26.1   | ...  | ...  | ...    | ...   |
| 19.0  | 30.0  | 8.0    | 16.7  | 20.8 | 12.9   | 6.3  | 10.7 | 9.2    | 19.8  |
| 13.3†   | 19.7† | 7.8†   | 19.4  | 21.5 | 16.5   | ...  | ...  | ...    | 7.5   |
| 25.0  | 29.0  | 21.0   | 23.2  | 21.4 | 24.5   | 15.1   | 14.9 | 15.1   | ...   |
| 21.5†   | 28.9† | 14.4†  | 9.4   | 11.0 | 7.2    | ...  | ...  | ...    | ...   |
|   |       |        |   |      |        |  |      |        |   |
| ...   | ...   | ...    | ...   | ...  | ...    | ...  | ...  | ...    | ...   |
| ...   | ...   | ...    | 20.1  | 24.3 | 15.9   | ...  | ...  | ...    | ...   |
| ...   | ...   | ...    | 16.4  | 17.8 | 15.1   | ...  | ...  | ...    | ...   |
| 7.0   | 13.0  | 2.0    | 28.6  | 34.5 | 23.2   | 4.6  | 3.4  | 5.7    | ...   |
| 12.0  | 22.0  | 2.0    | 18.3  | 21.8 | 15.3   | ...  | ...  | ...    | 10.1  |
| 8.0   | 11.0  | 4.0    | 25.3  | 30.4 | 19.8   | 8.7  | 8.9  | 7.4    | ...   |
| 14.5†   | 22.1† | 7.2†   | 20.5  | 24.5 | 16.5   | ...  | ...  | ...    | ...   |
| 16.0  | 27.0  | 6.0    | 21.9  | 25.3 | 16.0   | ...  | ...  | ...    | ...   |
| 14.5†   | 22.1† | 7.2†   | 28.7  | 31.3 | 24.6   | ...  | ...  | ...    | 54.0  |
| 7.0   | 12.0  | 3.0    | 9.2   | 10.4 | 7.8    | 2.7  | 2.4  | 3.0    | ...   |
| ...   | ...   | ...    | 20.7  | 24.5 | 17.3   | ...  | ...  | ...    | ...   |
| ...   | 38.4† | 9.9†   | 19.2  | 20.7 | 16.6   | ...  | ...  | ...    | ...   |
| 21.1†   | 33.5† | 9.4†   | 18.4  | 20.0 | 16.3   | ...  | ...  | ...    | 35.2  |

†: Age-standardized prevalence (15 years and older) unless indicated by † (see technical notes)

# RISK FACTORS INDICATORS

|  | 19T   | 19M   | 19F    | 20T   | 20M   | 20F    | 21T  | 21M  | 21F    |
|--|---|-------|--------|---|-------|--------|--|------|--------|
|  | ALCOHOL INTAKE  |       |        | LOW PHYSICAL ACTIVITY   |       |        | OBESITY  |      |        |
|  | Prevalence (%) of alcohol consumers (15+ years), past 12 months |       |        | Prevalence (%) of adults who are physically active for <600 met minutes |       |        | Prevalence (%) of obesity (BMI ≥30) among adults |      |        |
|  | Total   | Male  | Female | Total   | Male  | Female | Total  | Male | Female |
| <b>Northern America</b>                            |   |       |        |   |       |        |  |      |        |
| Canada   | 77.6  | 81.2  | 74.2   | 33.9  | 32.3  | 35.4   | 24.0   | 26.0 | 23.0   |
| United States of America                           | 65.4  | 71.7  | 59.5   | 40.5  | 43.5  | 47.4   | 26.9   | 28.6 | 26.0   |
| <b>Mexico, Central America and Latin Caribbean</b> |   |       |        |   |       |        |  |      |        |
| Costa Rica   | 55.7  | 68.7  | 42.5   | 50.9  | 38.6  | 63.4   | 26.0   | 21.2 | 31.0   |
| Cuba   | 45.6  | 67.2  | 24.5   | ...   | ...   | ...    | 20.5   | 13.3 | 27.5   |
| Dominican Republic                                 | 56.7  | 69.6  | 43.9   | 35.7  | 31.5  | 40.0   | 16.4   | 12.7 | 18.3   |
| El Salvador  | ...   | ...   | ...    | ...   | ...   | ...    | 23.7   | 19.9 | 27.1   |
| Guatemala  | 22.8  | 41.6  | 5.8    | 50.4  | 56.0  | 45.0   | 21.3   | 16.0 | 25.8   |
| Honduras   | ...   | ...   | ...    | ...   | ...   | ...    | 19.3   | 15.5 | 24.5   |
| Mexico   | 31.0  | 45.1  | 18.0   | 37.7  | 37.1  | 38.4   | ...  | 26.1 | 35.6   |
| Nicaragua  | 26.2  | 43.3  | 9.6    | ...   | ...   | ...    | 29.1   | 23.8 | 34.2   |
| Panama   | ...   | ...   | ...    | ...   | ...   | ...    | 23.2   | 19.7 | 25.1   |
| Puerto Rico  | ...   | ...   | ...    | ...   | ...   | ...    | 27.5   | 29.3 | 25.9   |
| <b>South America</b>                               |   |       |        |   |       |        |  |      |        |
| Argentina  | 82.5  | 93.7  | 72.3   | 54.5  | 52.2  | 56.5   | 20.5   | 22.0 | 19.0   |
| Bolivia (Plurinational State of)                   | 59.9  | 65.0  | 55.0   | ...   | ...   | ...    | 18.9   | 10.0 | 27.1   |
| Brazil   | 18.4‡   | 27.9‡ | 10.3‡  | 14.9¥   | 15.2¥ | 14.6¥  | 17.4   | 16.5 | 18.2   |
| Chile  | 67.6  | 75.3  | 60.2   | 75.4  | 79.1  | 71.8   | 28.7   | 21.8 | 35.5   |
| Colombia   | 80.6  | 86.3  | 75.3   | 79.0  | ...   | ...    | 12.8   | 19.5 | 7.4    |
| Ecuador  | 31.4  | 43.6  | 19.4   | ...   | ...   | ...    | 22.0   | 15.7 | 28.2   |
| Paraguay   | 61.7  | 73.5  | 49.8   | 23.9  | 19.0  | 28.4   | 28.5   | 25.4 | 31.3   |
| Peru   | 69.0  | 80.3  | 57.9   | ...   | ...   | ...    | 16.5   | 11.1 | 21.7   |
| Uruguay  | 47.0  | 59.2  | 36.3   | 35.1  | 29.0  | 40.7   | 19.9   | 19.4 | 20.5   |
| Venezuela (Bolivarian Republic of)                 | ...   | ...   | ...    | ...   | ...   | ...    | 30.8   | 26.6 | 34.8   |
| <b>Non-Latin Caribbean</b>                         |   |       |        |   |       |        |  |      |        |
| Anguilla   | ...   | ...   | ...    | ...   | ...   | ...    | ...  | ...  | ...    |
| Antigua and Barbuda                                | ...   | ...   | ...    | ...   | ...   | ...    | 25.8   | 18.1 | 33.1   |
| Bahamas  | ...   | ...   | ...    | ...   | ...   | ...    | 53.0   | 42.5 | 60.5   |
| Barbados   | 40.9  | 54.9  | 28.3   | 51.3  | 42.5  | 59.0   | 28.5   | 20.3 | 35.5   |
| Belize   | 35.4  | 51.2  | 19.4   | 42.7  | 40.4  | 45.0   | 37.9   | 26.7 | 48.8   |
| Dominica   | 59.0  | 71.6  | 46.8   | 24.0  | 14.5  | 34.3   | 20.2   | 8.6  | 32.7   |
| Grenada  | ...   | ...   | ...    | ...   | ...   | ...    | ...  | ...  | ...    |
| Guyana   | ...   | ...   | ...    | ...   | ...   | ...    | 22.4   | 14.3 | 26.9   |
| Jamaica  | 43.0  | 56.2  | 30.6   | 15.7  | 12.2  | 19.2   | 25.3   | 12.4 | 37.7   |
| Saint Kitts and Nevis                              | 47.1  | 27.8  | 35.0   | 38.3  | 28.3  | 48.5   | 45.0   | 37.9 | 52.5   |
| Saint Lucia  | ...   | ...   | ...    | ...   | ...   | ...    | 22.3   | 11.9 | 31.9   |
| Suriname   | ...   | ...   | ...    | ...   | ...   | ...    | 25.8   | 16.5 | 34.6   |
| Trinidad and Tobago                                | ...   | ...   | ...    | ...   | ...   | ...    | 30.0   | 21.6 | 38.0   |

‡: Heavy episodic drinking in the past 30 days // ☹: In pregnant women

¥: % who have not practiced any physical activity in the last 3 months, who do not exert intense physical efforts in their work, who do not go to work or school by foot or bicycle, for a minimum of 10 minutes, and who do not participate in heavy cleaning in their household

# POLICIES, STRATEGIES AND ACTION PLANS

| 22  | 23   | 24  | 25               | 26                             | 27                                 | 28                            |
|---|--|---|------------------|--------------------------------|------------------------------------|-------------------------------|
| NCD policy, strategy or action plan (year)? | Cancer in the NCD plan, strategy or action plan? | Specific cancer policy, strategy or action plan (year)? | Cancer registry? | Scope (National/ Subnational)? | Type (Population/ Hospital based)? | Last year with available data |
| Yes (2010)                                  | Yes  | Yes (2006)  | Yes              | Both                           | Population                         | 2010                          |
| Yes (2010)                                  | Yes  | Yes (2010)  | Yes              | National                       | Population                         | 2009                          |
| U.D.  | N/A  | Yes (2011)  | Yes              | National                       | Population                         | 2010                          |
| U.D.  | N/A  | Yes (2009)  | Yes              | National                       | Population                         | 2009                          |
| Yes (2010)                                  | No   | Yes (1996)  | Yes              | National                       | Population                         | 2013                          |
| U.D.  | Yes  | Yes (2011)  | No               | N/A                            | N/A                                | N/A                           |
| Yes (2010)                                  | Yes  | Yes (2011)  | Yes              | Subnational                    | Hospital                           | 2010                          |
| No  | N/A  | Yes (2010)  | Yes              | National                       | Hospital                           | 2004                          |
| Yes (1998)                                  | No   | No  | Yes              | National                       | Hospital                           | 2012                          |
| U.D.  | Yes  | U.D.  | Yes              | National                       | Hospital                           | 2012                          |
| Not in effect                               | Yes  | U.D.  | Yes              | National                       | Population                         | 2011                          |
| Yes (2008)                                  | Yes  | Yes (2008)  | Yes              | National                       | Population                         | 2010                          |
| Yes (2009)                                  | Yes  | Yes (2010)  | Yes              | Both                           | Population                         | 2012                          |
| Yes (2010)                                  | Yes  | Yes (2009)  | Yes              | National                       | Population                         | 2011                          |
| Yes (2011)                                  | Yes  | Yes (2005)  | Yes              | Subnational                    | Both                               | 2009                          |
| Yes (2012)                                  | Yes  | Yes (2005)  | Yes              | Subnational                    | Population                         | 2011                          |
| Yes (2011)                                  | Yes  | Yes (2013)  | Yes              | Both                           | Hospital                           | 2008                          |
| Yes (2013)                                  | Yes  | U.D.  | Yes              | Subnational                    | Hospital                           | 2010                          |
| Yes (2008)                                  | No   | Yes (2008)  | No               | N/A                            | N/A                                | N/A                           |
| No  | N/A  | Yes (2012)  | Yes              | National                       | Hospital                           | 2010                          |
| Yes (2005)                                  | Yes  | Yes (2006)  | Yes              | National                       | Population                         | 2008                          |
| Yes (2005)                                  | Yes  | Yes (1946)  | Yes              | National                       | Hospital                           | 2010                          |
| U.D.  | No   | No  | No               | N/A                            | N/A                                | N/A                           |
| No  | N/A  | No  | No               | N/A                            | N/A                                | N/A                           |
| U.D.  | Yes  | No  | No               | N/A                            | N/A                                | N/A                           |
| Yes (2009)                                  | Yes  | No  | Yes              | National                       | Population                         | 2012                          |
| U.D.  | Yes  | U.D.  | No               | N/A                            | N/A                                | N/A                           |
| U.D.  | Yes  | No  | No               | N/A                            | N/A                                | N/A                           |
| No  | N/A  | No  | No               | N/A                            | N/A                                | N/A                           |
| U.D.  | Yes  | No  | Yes              | National                       | Population                         | ...                           |
| U.D.  | Yes  | U.D.  | Yes              | Subnational                    | Population                         | 2007                          |
| No  | N/A  | No  | No               | N/A                            | N/A                                | N/A                           |
| U.D.  | Yes  | U.D.  | No               | N/A                            | N/A                                | N/A                           |
| Yes (2012)                                  | Yes  | Not in effect   | Yes              | National                       | Other                              | 2012                          |
| Yes (2005)                                  | Yes  | Yes (2009)  | Yes              | National                       | Hospital                           | 2011                          |

# POLICIES, STRATEGIES AND ACTION PLANS

|  | 29   | 30                          | 31  | 32  | 33                                      | 34                                      |
|--|--|-----------------------------|---|---|---|---|
|  | TOBACCO CONTROL                                    |                             |   |   | HARMFUL USE OF ALCOHOL                  | USO NOCIVO DE ALCOHOL                   |
|  | Smoke free environments?                           | % of taxes in retail price? | Health warning labels about the dangers of tobacco? | Bans on tobacco advertising, promotion and sponsorship? | Policy, strategy or action plan? (Year) | Policy, strategy or action plan? (Year) |
| <b>Northern America</b>                            | <b>Northern America</b>                            |                             |   |   |   |   |
| Canada   |  | 64%                         |   |   | Yes (2010)                              | No                                      |
| United States of America                           |  | 43%                         |   |   | Yes (2010)                              | Yes (2010)                              |
| <b>Mexico, Central America and Latin Caribbean</b> | <b>Mexico, Central America and Latin Caribbean</b> |                             |   |   |   |   |
| Costa Rica   |  | 72%                         |   |   | U.D.                                    | U.D.                                    |
| Cuba   |  | 75%                         |   |   | Yes (2008)                              | Yes (2002)                              |
| Dominican Republic                                 |  | 59%                         |   |   | No                                      | No                                      |
| El Salvador  |  | 52%                         |   |   | U.D.                                    | Yes (2012)                              |
| Guatemala  |  | 49%                         |   |   | U.D.                                    | No                                      |
| Honduras   |  | 34%                         |   |   | No                                      | No                                      |
| Mexico   |  | 67%                         |   |   | DK                                      | No                                      |
| Nicaragua  |  | 29%                         |   |   | U.D.                                    | No                                      |
| Panama   |  | 57%                         |   |   | Yes (2009)                              | Yes (2008)                              |
| Puerto Rico  |  | ...                         |   |   | Yes (2007)                              | Yes (1972)                              |
| <b>South America</b>                               | <b>South America</b>                               |                             |   |   |   |   |
| Argentina  |  | 68%                         |   |   | Yes (2012)                              | Yes (2011)                              |
| Bolivia (Plurinational State of)                   |  | 42%                         |   |   | No                                      | Yes (2007)                              |
| Brazil   |  | 63%                         |   |   | Yes                                     | Yes                                     |
| Chile  |  | 81%                         |   |   | Yes (2011)                              | Yes (2010)                              |
| Colombia   |  | 44%                         |   |   | U.D.                                    | Yes (2011)                              |
| Ecuador  |  | 73%                         |   |   | U.D.                                    | Yes (2013)                              |
| Paraguay   |  | 17%                         |   |   | No                                      | No                                      |
| Peru   |  | 42%                         |   |   | Yes (2005)                              | No                                      |
| Uruguay  |  | 69%                         |   |   | No                                      | No                                      |
| Venezuela (Bolivarian Republic of)                 |  | 71%                         |   |   | U.D.                                    | U.D.                                    |
| <b>Non-Latin Caribbean</b>                         | <b>Non-Latin Caribbean</b>                         |                             |   |   |   |   |
| Anguilla   |  | ...                         |   |   | Yes (2013)                              | No                                      |
| Antigua and Barbuda                                |  | 7%                          |   |   | No                                      | No                                      |
| Bahamas  |  | 38%                         |   |   | No                                      | No                                      |
| Barbados   |  | 49%                         |   |   | Yes (2009)                              | No                                      |
| Belize   |  | 21%                         |   |   | U.D.                                    | U.D.                                    |
| Dominica   |  | 23%                         |   |   | No                                      | No                                      |
| Grenada  |  | ...                         |   |   | No                                      | No                                      |
| Guyana   |  | 30%                         |   |   | ...                                     | ...                                     |
| Jamaica  |  | 46%                         |   |   | U.D.                                    | U.D.                                    |
| Saint Kitts and Nevis                              |  | 20%                         |   |   | No                                      | No                                      |
| Saint Lucia  |  | 20%                         |   |   | U.D.                                    | U.D.                                    |
| Suriname   |  | 61%                         |   |   | No                                      | No                                      |
| Trinidad and Tobago                                |  | 33%                         |   |   | Yes (2012)                              | No                                      |



# PRIMARY PREVENTION INDICATORS

| 35                                       | 36                                       | 37  | 38                                       | 39  |
|--|--|---|--|---|
| HPV VACCINATION                          |  |   | HBV VACCINATION                          |   |
| In national immunization program? (year) | Target age (years)/<br>Delivery strategy | Estimated 3-dose coverage (calendar year) | In national immunization program? (year) | Estimated 3-dose coverage (calendar year) |
| Yes (2007-09)                            | Varies by province/Schools               | 85%-58% (...)                             | Yes (1998)                               | 70%                                       |
| Yes (2006)                               | Both sexes 11-12/ Clinics                | 32% (2010)                                | Yes (1991)                               | 91%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2000)                               | 91%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1990)                               | 100% <sup>a</sup>                         |
| No                                       | N/A                                      | N/A                                       | Yes (1994)                               | 80%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1999)                               | 89%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2005)                               | 96%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1999)                               | 88%                                       |
| Yes (2008)                               | Girls 9-12/Mixed <sup>b</sup>            | 67% (2010) <sup>c</sup>                   | Yes (1998)                               | 99%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1999)                               | 100% <sup>a</sup>                         |
| Yes (2008)                               | Girls 10/Mixed                           | 67% (2010)                                | Yes (1999)                               | 85%                                       |
| Yes (2006)                               | Both sexes 11-12/Clinics                 | 21% (2013)                                | Yes (1991)                               | ...                                       |
| Yes (2011)                               | Girls 11/Mixed                           | ...                                       | Yes (1997)                               | 91%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2000)                               | 80%                                       |
| Yes (2014)                               | Girls 10-11/Mixed                        | ...                                       | Yes (1998)                               | 97%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1996)                               | 90%                                       |
| Yes (2012)                               | Girls ≥9d/Schools <sup>d</sup>           | ...                                       | Yes (1994)                               | 92%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1999)                               | 100% <sup>a</sup>                         |
| Yes (2013)                               | Girls 10-11/Schools                      | ...                                       | Yes (2002)                               | 74%                                       |
| Yes (2011)                               | Girls 10/Schools                         | ...                                       | Yes (1998)                               | 95%                                       |
| Yes (2013)                               | Girls 12/Clinics                         | ...                                       | Yes (1999)                               | 95%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2000)                               | 81%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1997)                               | 100%                                      |
| No                                       | N/A                                      | N/A                                       | Yes (1999)                               | 98%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2001)                               | 96%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2000)                               | 87%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2000)                               | 98%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2006)                               | 74%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2000)                               | 97%                                       |
| Yes (2012)                               | Girls 10-13/Mixed                        | ...                                       | Yes (2001)                               | 97%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2003)                               | 96%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (1997)                               | 98%                                       |
| No                                       | N/A                                      | N/A                                       | Yes (2002)                               | 100%                                      |
| Yes (2013)                               | ...                                      | ...                                       | Yes (2003)                               | 84%                                       |
| Yes (2013)                               | Girls 11-12/Schools                      | ...                                       | Yes (2003)                               | 92%                                       |

# SECONDARY PREVENTION INDICATORS

|  | 40                              | 41  | 42   | 43                              | 44   | 45   |
|--|---------------------------------|---|--|---------------------------------|--|--|
|  | CERVICAL CANCER SCREENING       |   |  | BREAST CANCER SCREENING         |  |  |
|  | Screening guidelines available? | Cytology generally available (Public/ private sectors)? | VIA generally available (Public/ private sectors)? | Screening guidelines available? | CBE generally available (Public/ private sectors)? | Mammography generally available (Public/ private sectors)? |
| <b>Northern America</b>                            |                                 |   |  |                                 |  |  |
| Canada   | Yes                             | Both  | No   | Yes                             | No   | Both   |
| United States of America                           | Yes                             | Both  | No   | Yes                             | Both   | Both   |
| <b>Mexico, Central America and Latin Caribbean</b> |                                 |   |  |                                 |  |  |
| Costa Rica   | ...                             | Both  | Both   | Yes                             | Both   | Both   |
| Cuba   | Yes                             | Public  | No   | Yes                             | Public   | Public   |
| Dominican Republic                                 | Yes                             | Both  | No   | Yes                             | Both   | Private  |
| El Salvador  | Yes                             | Both  | Both   | Yes                             | Both   | Private  |
| Guatemala  | Yes                             | Private   | Public   | ...                             | Both   | Private  |
| Honduras   | Yes                             | Both  | No   | ...                             | Both   | Private  |
| Mexico   | Yes                             | Both  | DK   | Yes                             | Both   | Both   |
| Nicaragua  | Yes                             | Both  | Both   | ...                             | Both   | Both   |
| Panama   | Yes                             | Both  | No   | Yes                             | Both   | Private  |
| Puerto Rico  | Yes                             | Both  | No   | Yes                             | Both   | Both   |
| <b>South America</b>                               |                                 |   |  |                                 |  |  |
| Argentina  | Yes                             | Both  | Both   | Yes                             | Both   | Both   |
| Bolivia (Plurinational State of)                   | Yes                             | Both  | Private  | ...                             | Both   | Private  |
| Brazil   | Yes                             | Both  | No   | Yes                             | Both   | Both   |
| Chile  | Yes                             | Both  | No   | Yes                             | Both   | Both   |
| Colombia   | Yes                             | Both  | Both   | Yes                             | Both   | Both   |
| Ecuador  | U.D.                            | Both  | No <sup>a</sup>                                    | U.D.                            | Both   | Private  |
| Paraguay   | Yes                             | Both  | No   | ...                             | Both   | Private  |
| Peru   | Yes                             | Both  | No   | Yes                             | No   | No   |
| Uruguay  | Yes                             | Both  | Private  | Yes                             | Both   | Both   |
| Venezuela (Bolivarian Republic of)                 | Yes                             | Both  | Both   | ...                             | Both   | Both   |
| <b>Non-Latin Caribbean</b>                         |                                 |   |  |                                 |  |  |
| Anguilla   | ...                             | Both  | No <sup>a</sup>                                    | ...                             | Both   | Private  |
| Antigua and Barbuda                                | ...                             | Both  | Both   | ...                             | Both   | Both   |
| Bahamas  | Yes                             | Both  | Both   | Yes                             | Both   | Both   |
| Barbados   | ...                             | Both  | Both   | ...                             | Both   | Both   |
| Belize   | ...                             | Both  | No <sup>a</sup>                                    | ...                             | Both   | Private  |
| Dominica   | ...                             | Both  | Private  | ...                             | Both   | Both   |
| Grenada  | ...                             | Both  | No   | ...                             | Both   | Private  |
| Guyana   | Yes                             | Public  | Public   | ...                             | Public   | No <sup>a</sup>  |
| Jamaica  | Yes                             | Both  | No   | ...                             | Both   | Private  |
| Saint Kitts and Nevis                              | Yes                             | Both  | Both   | ...                             | Both   | Both   |
| Saint Lucia  | ...                             | Both  | Both   | ...                             | Both   | Both   |
| Suriname   | Yes                             | Both  | Both   | ...                             | Both   | Both   |
| Trinidad and Tobago                                | Yes                             | Both  | Both   | ...                             | Both   | Both   |

## SECONDARY PREVENTION INDICATORS

## CANCER TREATMENT AND PALLIATIVE CARE INDICATORS

| 46                              |         |         | 47   |      |       | 48  |       |      | 49  |     |    |   |     | 50 |                            |  |  |                       | 51 |  |         |  |  | 52 |  |  |  |  | 53 |  |  |  |  |
|---------------------------------|---------|---------|--|------|-------|---|-------|------|---|-----|----|---|-----|----|----------------------------|--|--|-----------------------|----|--|---------|--|--|----|--|--|--|--|----|--|--|--|--|
| COLORECTAL CANCER SCREENING     |         |         |  |      |       |   |       |      | RADIOTHERAPY  |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Screening guidelines available? |         |         | FOB test or Fti test generally available (Public/private sectors)? |      |       | Digital exam or colonoscopy generally available (Public/private sectors)? |       |      | Radiotherapy generally available in the public health sector? |     |    | Total energy teletherapy units/ million inhabitants |     |    | Total radiotherapy centers |  |  | Radiation oncologists |    |  | Medical |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | Both    | Both    | Yes  | Both | Both  | Yes   | Both  | Both | Yes   | 8.2 | 53 | 358   | 346 |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | Both    | Both    | Yes  | 12.6 | 2,734 | 2,683   | 1,739 |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 1.7  | 3     | 18  | 13    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Public  | Public  | Yes  | 1.2  | 9     | 38  | 29    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Private | Yes  | 1.1  | 7     | 12  | 6     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Private | Private | Yes  | 0.8  | 3     | 7   | 7     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Private | Private | Yes  | 0.7  | 7     | 10  | 5     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Private | Private | Yes  | 1.0  | 5     | 4   | 3     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | DK      | DK      | Yes  | 1.1  | 86    | 205   | 38    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 0.3  | 1     | 3   | 1     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | No      | Yes  | 1.4  | 2     | 11  | 7     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | Both    | Both    | Yes  | 3.2  | 6     | 15  | 6     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | Both    | Both    | Yes  | 2.8  | 80    | 176   | 98    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Private | Yes  | 0.6  | 5     | 11  | 5     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 1.8  | 222   | 391   | 256   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | Both    | Both    | Yes  | 2.9  | 27    | 55  | 16    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | Both    | Both    | Yes  | 1.4  | 44    | 87  | 49    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| No                              | Both    | Private | Yes  | 1.01 | 10    | 24  | 12    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | No      | No      | No   | 0.76 | 3     | 7   | 4     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | No      | No      | Yes  | 1.2  | 15    | 47  | 29    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| Yes                             | Both    | Both    | Yes  | 5.3  | 10    | 45  | 10    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 2.4  | 58    | 172   | 47    |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | No*     | Private | No   | ...  | ...   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | No   | ...  | ...   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Private | Yes  | 2.8  | 1     | 3   | 3     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 3.5  | 1     | 1   | 1     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | No   | ...  | ...   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | No   | ...  | ...   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Private | No   | ...  | ...   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | No*     | No*     | Yes  | 1.3  | 1,3   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 1.1  | 3     | 4   | 5     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | No   | ...  | ...   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | No   | ...  | ...   | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 1.9  | 1     | ...   | ...   |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |
| ...                             | Both    | Both    | Yes  | 3.0  | 3     | 5   | 8     |      |   |     |    |   |     |    |                            |  |  |                       |    |  |         |  |  |    |  |  |  |  |    |  |  |  |  |








# CANCER TREATMENT AND PALLIATIVE CARE INDICATORS

|  | 54   | 55   | 56  | 57   | 58                                     | 59   |
|--|--|--|---|--|--|--|
|  | CHEMOTHERAPY   | OPIOIDS  |   |  | COMMUNITY/HOME SERVICES                |  |
|  | Chemotherapy services generally available in the public health sector? | Oral morphine generally available in the public health sector? | Oral morphine covered by health insurance or publically funded? | Oral morphine in the national list of essential medicines? | Total morphine equivalence, per capita | Generally available for people with advanced stages of NCDs in the public health sector? |
| <b>Northern America</b>                            |  |  |   |  |  |  |
| Canada   | Yes  | Yes  | Yes   | N/A  | 753.40                                 | Yes  |
| United States of America                           | Yes  | Yes  | Yes   | Yes  | 693.45                                 | Yes  |
| <b>Mexico, Central America and Latin Caribbean</b> |  |  |   |  |  |  |
| Costa Rica   | No   | Yes  | Yes   | Yes  | 9.64                                   | No   |
| Cuba   | Yes  | No   | No  | No   | 2.30                                   | Yes  |
| Dominican Republic                                 | No   | No   | No  | Yes  | 0.99                                   | No   |
| El Salvador  | Yes  | No   | No  | No   | 3.51                                   | No   |
| Guatemala  | Yes  | No   | No  | No   | 1.19                                   | No   |
| Honduras   | Yes  | No   | No  | No   | 0.63                                   | No   |
| Mexico   | Yes  | DK   | DK  | DK   | 8.76                                   | Yes  |
| Nicaragua  | Yes  | No   | No  | No   | 1.18                                   | No   |
| Panama   | Yes  | No   | Yes   | Yes  | 3.21                                   | Yes  |
| Puerto Rico  | Yes  | No   | Yes   | Yes  | 3.21                                   | Yes  |
| <b>South America</b>                               |  |  |   |  |  |  |
| Argentina  | Yes  | Yes  | Yes   | Yes  | 13.07                                  | Yes  |
| Bolivia (Plurinational State of)                   | Yes  | Yes  | Yes   | N/A  | 0.17                                   | Yes  |
| Brazil   | Yes  | Yes  | Yes   | Yes  | 11.72                                  | Yes  |
| Chile  | Yes  | Yes  | Yes   | Yes  | 11.28                                  | Yes  |
| Colombia   | Yes  | Yes  | Yes   | Yes  | 6.74                                   | Yes  |
| Ecuador  | Yes  | No   | Yes   | Yes  | 1.51                                   | No   |
| Paraguay   | Yes  | No   | Yes   | DK   | ...                                    | No   |
| Peru   | No   | Yes  | Yes   | Yes  | 1.78                                   | No   |
| Uruguay  | Yes  | Yes  | Yes   | Yes  | 5.86                                   | Yes  |
| Venezuela (Bolivarian Republic of)                 | Yes  | Yes  | Yes   | Yes  | 2.88                                   | No   |
| <b>Non-Latin Caribbean</b>                         |  |  |   |  |  |  |
| Anguilla   | No   | Yes  | Yes   | Yes  | ...                                    | No   |
| Antigua and Barbuda                                | Yes  | No   | No  | Yes  | ...                                    | Yes  |
| Bahamas  | Yes  | Yes  | Yes   | Yes  | 10.76                                  | Yes  |
| Barbados   | Yes  | Yes  | Yes   | Yes  | ...                                    | Yes  |
| Belize   | No   | Yes  | Yes   | Yes  | ...                                    | Yes  |
| Dominica   | Yes  | Yes  | Yes   | Yes  | 2.47                                   | No   |
| Grenada  | Yes  | Yes  | Yes   | Yes  | 0.80                                   | No   |
| Guyana   | Yes  | No   | ...   | ...  | 1.58                                   | No   |
| Jamaica  | Yes  | No   | Yes   | No   | 3.79                                   | Yes  |
| Saint Kitts and Nevis                              | No   | Yes  | Yes   | Yes  | ...                                    | Yes  |
| Saint Lucia  | Yes  | Yes  | No  | Yes  | 3.88                                   | Yes  |
| Suriname   | Yes  | Yes  | Yes   | Yes  | ...                                    | Yes  |
| Trinidad and Tobago                                | Yes  | No   | Yes   | DK   | 3.93                                   | Yes  |








# SYMBOLS AND ABBREVIATIONS

## SYMBOLS AND ABBREVIATIONS:

### Smoke-free environments






|  |   |
|--|---|
|  | All indoor public places and workplaces, and public transport<br>Are completely smoke-free (or at least 90% of the population covered by complete subnational smoke-free legislation) |
|  | As above, but regulation and/or implementation pending  |
|  | Smoking areas are allowed, but they must be isolated, completely enclosed, and under very strict technical regulations  |
|  | Six to seven types of public places completely smoke-free   |
|  | Three to five types of public places completely smoke-free  |
|  | Up to two types of public places completely smoke-free  |
|  | Data not reported/not categorized   |

### Health warnings

|  |   |
|--|---|
|  | Large <sup>a</sup> warnings with all appropriate features   |
|  | Same as above but regulation and/or implementation pending  |
|  | Medium <sup>b</sup> size warnings with all appropriate features or largea warnings lacking one or more appropriate features             |
|  | Same as above but regulation and/or implementation pending  |
|  | Medium <sup>b</sup> size warnings lacking one or more appropriate features or largea warnings lacking four or more appropriate features |
|  | No warnings or small <sup>c</sup> warnings  |
|  | Data not reported   |

- a. Large warning: average front and back of package at least 50%.  
 b. Medium size warning: average front and back of package between 30% and 49%.  
 c. Small warning: average front and back of package less than 30%.

### Bans on tobacco advertising, promotion and sponsorship

|  |  |
|--|--|
|    | Ban on all forms of direct and indirect advertising  |
|   | Ban on national television, radio and print media as well as on some but not all other forms of direct and/or indirect advertising |
|  | Ban on national television, radio and print media only   |
|  | Complete absence of ban, or ban that does not cover national television, radio and print media                                     |
|  | Data not reported  |

### Tobacco taxes

|  |  |
|--|--|
|  | Taxes are more than 75% of the final price |
|  | Taxes are 51-75% of the final price        |
|  | Taxes are 26-50% of the final price        |
|  | Taxes are 25% or less of the final price   |
|  | Not reported/not available data            |

\*: The average annual percentage change is significantly different from zero at  $p=0.05$ ...: Información no disponible

- a: Reported coverage >100%  
 b: Extended dosing schedules are being used at 0, 6 y 60 months;  
 c: Two-dose coverage for the extended schedule adopted in 2009, targeting girls aged 9-12 years for the first two doses.  
 d: HPV vaccination is introduced in two phases: the first phase targets fourth grade school girls aged 9 years and older, and the second phase will include girls out of schools in rural and urban areas.  
 e: Generally available in the public sector, information for the private sector not available or not known.

AAPC: Average Annual Percent Change  
 ASMR: Age-standardized mortality rate  
 BI: Basic indicator  
 BMI: Body mass index  
 CBE: Clinical breast examination  
 DK: Don't know  
 FOB: Fecal occult blood test

FTI: Fecal immunological test  
 GNI: Gross National Income  
 HBV: Hepatitis B Virus  
 HPV: Human Papilloma Virus  
 ICD-10: International classification of disease, 10th revision  
 N/A: Not applicable

NC: Not possible to calculate  
 NCD: Noncommunicable diseases  
 pop: population  
 U.D.: Under development  
 VIA: Visual inspection with acetic acid  
 USD: United States Dollars

## TECHNICAL NOTES:

- **Age-standardized mortality rates** (BI 7Mr, 7Fr, 8Fr, 9Fr, 10Mr, 10Fr, 11Mr, 11Fr, 12Mr, 12Fr, 13Mr, 14Mr, 14Fr) for all cancer types except skin non-melanoma (ICD-10: C00-97, but C44) and 7 specific cancer types (breast (ICD-10: C50), cervical (ICD-10:C53), colorectal (ICD-10: C18-21), liver (ICD-10: C22), lung (ICD-10: C33-34), prostate (ICD-10: C61) and stomach (ICD-10: C16)), were calculated using WHO world standard population. Mortality data was extracted from the PAHO/WHO Mortality information system except for Honduras, Bolivia and Jamaica, for which Globocan 2012 mortality data were used.
- **Trend analysis** (BI 7Ma, 7Fa, 8Fa, 9Fa, 10Ma, 10Fa, 11Ma, 11Fa, 12Ma, 12Fa, 13Ma, 14Ma, 14Fa) was performed using Poisson regression models. Countries with incomplete mortality series were excluded from this analysis (Guatemala, Honduras, Dominican Republic, Bolivia, Uruguay and Jamaica). Average annual percentage change was estimated for all cancer types except skin non-melanoma as well as 7 specific cancer types. Caribbean countries with small populations were grouped together for purposes of rate calculation and trend analysis. This was the case for the following countries and territories: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Bermuda, Cayman Islands, Dominica, French Guiana, Grenada, Guadeloupe, Martinique, Montserrat, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Turks and Caicos Islands, Virgin Islands (UK), and Virgin Islands (US).
- **Prevalence of current tobacco smokers among adults** (BI 15) is reported for population 15 years of age and older, except in USA ( $\geq 18$  years), Peru (12-64 years), Venezuela (18-65 years), Grenada (25-64 years), Jamaica (15-74 years), Suriname (12-65 years) and Trinidad and Tobago (15-64 years). All prevalence rates are age-standardized except for USA, Cuba, Peru, Venezuela, Grenada, Jamaica, Suriname and Trinidad and Tobago. Thus reported prevalence data do not necessarily serve for comparison between countries.
- **Prevalence of current use of any tobacco products among youth** (BI 16), refers to population 13-15 years of age, except in Brazil (9th grade students) and Canada (7th-9th grade students).
- **Alcohol intake** (BI 19) is presented as the prevalence (%) of alcohol consumers among adults aged 15 years and older, past 12 months, except for Brazil, where heavy episodic drinking in the past 30 days is reported.
- **Fruit and vegetable intake in adults** (BI 17), is defined as the percentage of the population who eat five or more servings of fruit and/or vegetables a day.
- **Low physical activity prevalence** (BI 20) is defined as the proportion of the population who are physically active for  $< 600$  met minutes, except for Brazil, where the percentage of the population who have not practiced any physical activity in the last 3 months, who do not exert intense physical efforts in their work, who do not go to work or school by foot or bicycle, for a minimum of 10 minutes, and who do not participate in heavy

cleaning in their household is reported.

- **HPV prevalence** (BI 18) is defined as the HPV prevalence among women with normal cytology, except in Brazil, where HPV prevalence in pregnant women is reported.

## DATA SOURCES:

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- Lyon, France: International Agency for Research on Cancer; 2013. retrieved January 30, 2014, from <http://globocan.iarc.fr>, (BI 6-14)
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- ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from <http://www.hpvcentre.net/>. (BI 18)
- AHO/WHO Cancer in the Americas. Country profiles, 2013, retrieved August 28, 2013, from <http://bit.ly/1b5chfx> (BI 35-39)
- PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013. (BI 22-28, 33-34, 41-42, 44-45, 47-48, 49, 54-57, 59)
- WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013, from <http://www.naweb.iaea.org/nahu/dirac/>. (BI 50-53)
- University of Wisconsin. WHO Collaborating Centre for Pain Policy and Palliative Care, Opioid Consumption Database 2010, retrieved August 28, 2013, from <http://www.painpolicy.wisc.edu/countryprofiles/amro>. (BI 58)
- For detailed data sources by country please refer to PAHO/WHO Cancer in the Americas. Country profiles, 2013, from <http://bit.ly/1b5chfx>



For more information visit:

 [www.paho.org/cancer](http://www.paho.org/cancer)

 [www.facebook.com/pahoncd](https://www.facebook.com/pahoncd)

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