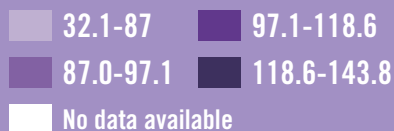


# CANCER IN THE AMERICAS

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

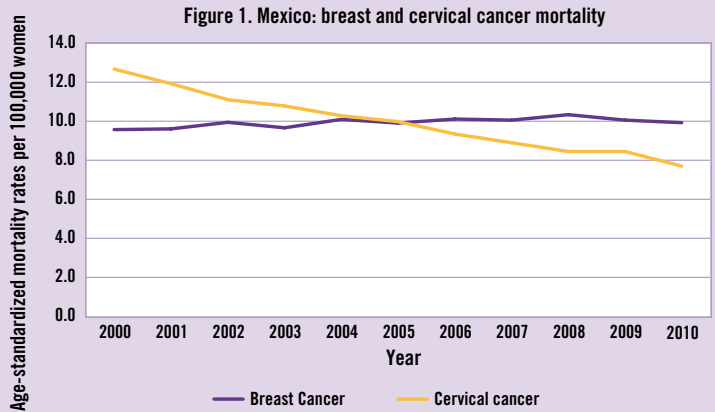
Source: Luciani S, Cabanes A, Prieto-Lara E, Gawryszewski V. Cervical and female breast cancers in the Americas: current situation and opportunities for action. *Bull World Health Organ* 2013; 91: 640–649, updated with the latest mortality data from the PAHO/WHO Mortality Information system.

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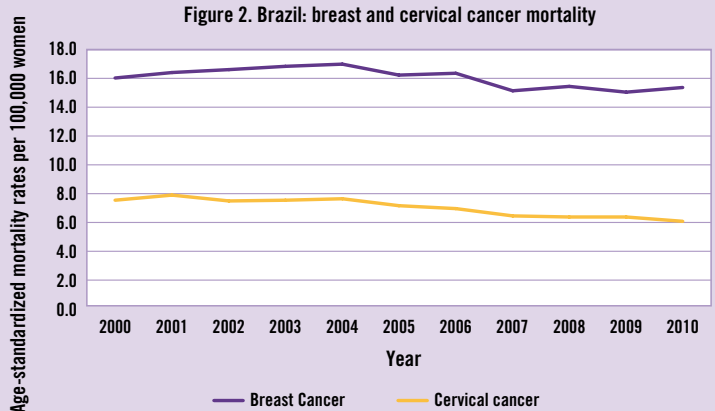
<sup>1</sup> For the purpose of this analysis, Caribbean countries with small populations were grouped together for rate calculation and trend analysis (see technical notes).

# SPECIAL ANALYSIS: BREAST AND CERVICAL CANCER

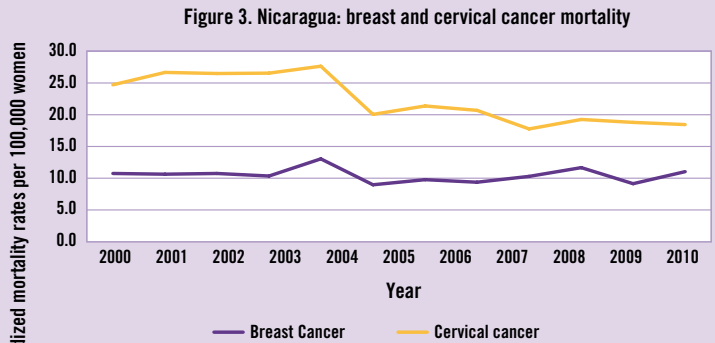
Mexico		
Year	Breast cancer	Cervical cancer
2000	9.6	12.7
2001	9.6	11.9
2002	9.9	11.1
2003	9.7	10.8
2004	10.1	10.3
2005	9.9	10.0
2006	10.1	9.3
2007	10.1	8.9
2008	10.3	8.5
2009	10.1	8.4
2010	9.9	7.7



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)/ 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

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
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	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 <sup>e</sup>	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 <sup>e</sup>	No <sup>e</sup>	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 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:

- PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011. (BI 1-5, 17, 20, 21)
- PAHO/WHO Mortality Database, 2012; Ferlay et al. GLOBOCAN 2012 v1.0, Cancer Incidence and Mortality Worldwide: IARC CancerBase No. 11 [Internet].
- Lyon, France: International Agency for Research on Cancer; 2013. retrieved January 30, 2014, from <http://globocan.iarc.fr>, (BI 6-14)
- PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013; WHO Report on the Global Tobacco Epidemic, 2013, retrieved August 28, 2013, from <http://www.who.int/tobacco>. (BI 15-16, 29-32)
- WHO. Global Information System on Alcohol and Health, retrieved August 28, 2013, from <http://bit.ly/17zhuqZ>. (BI 19)
- 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>



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

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