CANCER IN THE AMERICAS COUNTRY PROFILES 2013







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INTRODUCTION

Rationale for the report

Cancer is the second leading cause of death in the countries of the Americas¹, 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 non-communicable 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 (WHO) global monitoring framework² includes specific indicators related to cancer, and which require ongoing monitoring and reporting on global progress towards NCD. Meanwhile, the Member States of the Pan American Health Organization/ World Health Organization (PAHO/WHO) provide annual mortality statistics, as well as information about their NCD programs and services through the national capacity survey of NCD programs.

Purpose and objectives

The purpose of Cancer in the Americas: Country profiles, 2013 is to disseminate data made available to the Pan American Health Organization by its Member States on the current state of cancer risk factors, cancer mortality, and cancer plans, policies and services. The objective is to synthesize, in one reference document, the state of cancer control in countries in the Americas. Cancer incidence data is, unfortunately, not provided in this report, as this information is not available to the Pan American Health Organization in a systematic manner.

How the report is organized

The country profiles are arranged according to the main sub-regions of the Americas: Northern America; Mexico, Central America and Latin America Caribbean; South America; and non-Latin Caribbean. By grouping the countries by sub-region, it enables the reader to review each country profile in relation to other countries which share geographic, historic and socio-economic situations.

¹Pan American Health Organization. Health in the Americas: 2012 edition. Regional Outlook and Country Profiles. Washington, DC. 2012

²World Health Organization. NCD Global Monitoring Framework 2013, available at: http://www.who.int/nmh/global_monitoring_framework/en/index.html

Each country profile has the same structure, and summarizes the following country specific information:

- socio-demographic indicators;
- main cancer risk factors (tobacco, alcohol, diet, physical inactivity, obesity);
- ranking of the 10 most frequent cancer types in terms of mortality, by sex, for the latest year with available mortality data;
- trends in cancer mortality during the period 2000-2010, for all cancer types (excluding skin non-melanoma) and 7 most common cancer types (breast, cervix, colorectal, liver, lung, prostate and stomach), by sex; and
- capacity of Ministry of Health for cancer plans, policies and services.

The information sources used in this report, as well as the methods used to calculate cancer mortality trends are described in the Methods section. In addition, each country profile includes a reference on the data sources.

METHODS AND DATA SOURCES

The principle data sources used in preparing this report include the PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013; the PAHO/WHO Mortality Database, 2012; and the PAHO/WHO Basic Health Indicators on Non-Communicable Diseases, 2011. Additional information was obtained through various sources, using publically accessible databases and documents, as described below and as indicated in the data sources section of each country profile.

Socio-demographic indicators

PAHO/WHO prepares an annual report on the basic indicators for health, using data supplied by its Member States. These data include socio-demographic information such as population size and age structure, total deaths, life expectancy, literacy, and gross national income. These data are included in this report, from the 2012 PAHO/WHO Basic Indicators, as general background about the country's situation.

Cancer risk factor data

The main cancer risk factors included in this report include tobacco use, alcohol, diet, physical inactivity and obesity. Data on tobacco use includes prevalence (%) of current smokers of tobacco aged 18 years of age and older; as well as among adolescents 13-15 years of age. The percentage of the population who eat 5 or more servings of fruits and vegetables are reported as the indicator for diet. For alcohol, the prevalence (%) of adult alcohol consumers is reported. Low physical activity is reported as the prevalence of adults who are physically active for <600 met minutes; and obesity is reported as the prevalence (%) of adults with a body mass index > 30. Data on these risk factors are taken from the PAHO/WHO Non-communicable Diseases in the Americas, Basic Indicators, 2011, as well as the PAHO/WHO Tobacco Control Report for the Region of the Americas, 2013; and the WHO Global Information System on Alcohol and Health.

In addition, the prevalence of human papilloma virus (HPV), as the risk factor for cervical cancer, is included in this report and is defined as the prevalence of HPV among the general population of women with normal cytology. Data was extracted from the database of the ICO (Institut Català d'Oncologia) Information Centre on HPV and Cancer.

Cancer mortality

Data on cancer mortality were extracted from the 2012 PAHO/WHO Regional Mortality Database, which includes deaths registered in national vital registration systems and reported annually to PAHO by the Member States. All deaths whose underlying cause was classified in the ICD-10 as C00-97, except C44 were extracted (Annex 1), from the year 2000 to the latest available year for 33 countries with complete data. This time period was used since it is when all countries of the Americas applied the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD-10) to code mortality.

Cancer deaths from approximately 10 cancer types, which represent the vast majority of cancers that occur in the countries of the Americas are included in this report. Age-standardized mortality rates for both sexes were estimated using the direct method and changes in mortality rates over the study period were calculated using Poisson Regression models, excluding those countries with small populations and large fluctuations in yearly data. Data were analyzed separately for each country, and are presented for all cancer types (excluding skin non-melanoma) and for 7 common cancer types: breast, cervix, colorectal, liver, lung, prostate and stomach.

In the case of the non-Latin Caribbean, due to small population size, mortality data from the following countries were combined to present changes in cancer mortality for this sub-region: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe.

Ministry of Health capacity for cancer prevention and control

Information on the public health program capacity for cancer was extracted from the PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, conducted in April – June 2013 and consisting of a structured questionnaire completed by the person(s) responsible for the NCD program in the country's national Ministry of Health. A total of 35 countries from the Americas provided written responses to the questionnaire, which included information on their cancer policy and plans, cancer registration, prevention policies, cancer screening services, treatment and palliative care services. All responses to the survey were checked and cleared by senior health officials at the Ministry of Health before submission to PAHO. Upon receipt of the questionnaires, PAHO/WHO carried out additional validation on a number of survey item responses. Where discrepancies were noted, clarifications were sought from the country and responses were updated. An additional round of consultation and updating with Member States was undertaken in September 2013.

To supplement information on the country's capacity for cancer control, we used several additional data sources and these specific data sources are all referenced in the country profiles. Overall sources include the following. For cervical, breast and prostate cancer screening guidelines, and program coverage, we reviewed documents available from the Ministry of Health websites, or where available in the scientific literature, as well as responses to the PAHO/WHO cervical cancer program assessment questionnaire (2013 for the Caribbean countries; 2010 for the Latin America countries). For HPV vaccination and for HBV vaccination, information was provided by the PAHO/WHO Comprehensive Family Community Immunization program and from WHO 2013 country immunization profiles. For cancer treatment, we extracted data on radiotherapy capacity (total energy teletherapy units, radiotherapy centres, radiation oncologists, medical physicists) from the Directory of Radiotherapy Centres (DIRAC) database of the International Atomic Energy Agency. For palliative care, opioid consumption data were extracted from the opioid consumption database from the WHO Collaborating Centre for Pain Policy and Palliative Care at the University of Wisconsin.

CANCER DEATHS IN THE AMERICAS

Table 1 provides an overview of the cancer mortality data, for both sexes, made available to PAHO/WHO by the Member States for the period of 2000-2010. Empty cells signify no data provided for that year. This data was analyzed and the results are presented in the following country profiles.

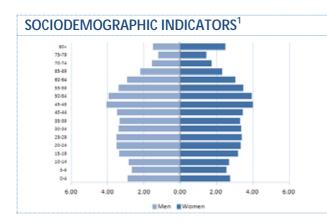
Table 1. PAHO/WHO Mortality Database, 2012 – number of cancer deaths, both sexes, by country and year.

Countries	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Anguilla	9	4		13	10	20	11		14	15	17
Antigua and Barbuda	86	69	75	67	97	71	65	93	83	69	
Argentina	53,260	52,925	52,829	54,458	54,520	55,870	56,382	57,147	56,565	57,034	57,459
Bahamas	217	284	285	312			285	311	354		
Barbados	459	381	442	503	482		476	433	505		
Belize	137	189	139	131	155	166	158	180	155	155	
Bermuda	138	119	118	132	96	108	104	100	103		
Brazil	155,761	163,779	169,962	177,416	184,199	182,629	187,966	180,709	185,621	189,948	194,67
Canada	62,474	63,589	64,877	65,769	66,725	67,096	66,366	69,301	70,248	70,755	
Chile	18,142	18,281	19,017	19,574	19,773	20,326	20,662	20,528	20,899	22,424	
Colombia	31,904	32,427	34,353	36,102	38,230	36,743	37,538	40,102	41,000	41,288	
Costa Rica	3,012	3,085	2,929	3,050	3,330	3,233	3,297	3,567	3,614	3,753	4,18
Cuba		16,587	17,256	18,066	18,495	18,933	19,512	20,160	20,981	21,085	21,96
Dominica		82	137	119	123	99	123	102	97	116	13
Dominican Republic	6,792	7,311	7,362	7,213	7,154						8,43
El Salvador	4,532	4,738	5,298	5,149	5,263	5,107	5,146	5,010	4,999	4,922	
Guatemala						6,842	7,285	6,791	6,859	7,065	
Guyana	866	419	364	391	393	421	367	419	449	395	
Jamaica							2,754				
Mexico	54,088	55,182	57,516	58,907	60,257	62,044	62,655	64,021	65,827	67,135	68,00
Montserrat	5	11	7	11	7	7	1	8	9	5	
Nicaragua	2,934	3,123	3,148	3,292	3,442	3,030	3,202	3,149	3,121	3,253	3,14
Panama	2,342	2,300	2,376	2,625	2,727	2,525	2,757	2,845	2,898	2,686	
Paraguay	4,459	4,760	5,033	5,184	4,817	4,927	4,883	5,167	5,359	5,128	4,97
Peru	23,646	21,509	23,278	23,583	25,957	26,839	27,879	28,180		28,975	29,04
Puerto Rico	4,710	4,719	4,679	4,735	4,786	4,793	4,774	4,935	4,957	5,039	
Saint Kitts and Nevis	40	23	44	46	56	44	75	66	59	57	5
Saint Lucia	135	143	166	175	181	160			172		
Saint Vincent and the Grenadines	118	50	40	118	111	104	120	100	113	117	11
Suriname	247	273	323	299	305	289	334	307	399	341	
Trinidad and Tobago	1,201	1,206	1,273	1,315	1,355	1,364	1,318	1,406	1,417		
United States	550,865	551,348	554,901	554,510	551,550	556,872	557,271	560,226	562,865	564,765	
Uruguay	7,861	7,647		7,855	7,885					7,347	
Venezuela	17,415	17,790	19,191	19,506	20,859	20,765	21,552	18,952	19,501	20,004	
Virgin Islands (UK)	22	21	16	24	27		15	112	100	109	

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CANADA



Total population: 34,349,600

Average annual deaths: 262,800

Life expectancy at birth (years):

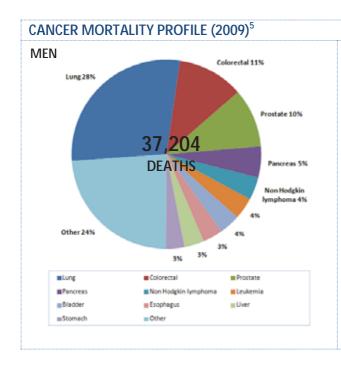
Total: 81 Male: 79 Female: 83

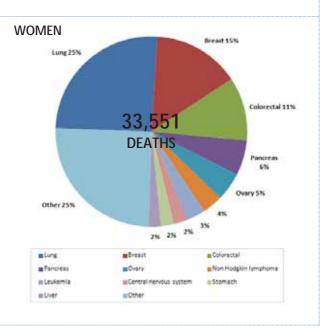
· Adult literacy rate: ...

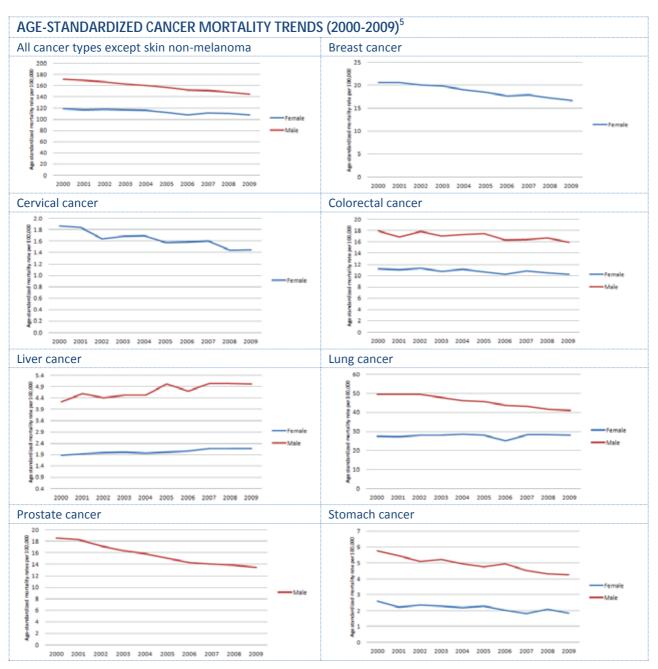
Gross National Income US\$ per capita: 41,980

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	18.0	20.0	15.0
Adolescent tobacco smokers ²	2.8	2.8	2.7
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	77.6	81.2	74.2
Low physical activity in adults ^{1,b}	33.9	32.3	35.4
Obesity among adults (BMI ≥30) ¹	24.0	26.0	23.0
HPV prevalence (women with normal cytology) ⁴			9.9

Notes: a: age-standardized prevalence of tobacco smoking in adults (15 years+), 2011; b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.







Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	37,204	145.56	-1.87*
	Female	33,551	108.02	-1.12*
Breast cancer		4,944	16,68	-2.46*
Cervical cancer		370	1,45	-2.61*
Colorectal cancer	Male	4,203	16.33	-1.01*
	Female	3,607	10.61	-0.92*
Liver cancer	Male	1,256	5.01	1.90*
	Female	694	2.16	1.59*
Lung cancer	Male	10,572	51.54	-2.1*
	Female	8,540	28.52	0.2
Prostate cancer		3,745	13,50	-3.6*
Stomach cancer	Male	1,177	4.64	2.88*
	Female	734	2.24	2.58*

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶						
National integrated NCD policy, strategy or action plan						
Is there a national integrated NCD policy, strategy or action plan?	Yes					
Is cancer included in the overall NCD plan?	Yes					
First year of implementation	2010					
Cancer policy, strategy or action plan						
Is there a Cancer policy, strategy or action plan?	Yes					
First year of implementation	2006					
Cancer registry						
Is there a Cancer registry?	Yes					
Scope (National vs. Subnational)?	Both					
Type of registry (Population vs. hospital based)?	Population based					
Last year with available data	2010					

CANCER PRIMARY PREVENTION POLICIES					
Tobacco control ²					
Smoke free environments?	All public spaces are completely smoke free				
Raised taxes on tobacco?	51-75% of retail price is tax				
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics				
Bans on tobacco advertising, promotion and sponsorship?	Ban on television, radio and print media and some but not all forms of direct and/or indirect advertising				
Overweight and obesity prevention and control ⁶					
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2010)				
Harmful use of alcohol prevention and control ⁶					
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No				
HPV vaccination in national immunization program? ⁷	Yes				
Year of introduction/Target age group/Delivery strategy	2007-2009/Varies by province/Schools				
Estimated 3-dose coverage (calendar year)	85%-58% (Varies by province)				
HBV vaccination in national immunization program?8	Yes				
Year of introduction/Target age group	1998/Early infancy (3 doses) or pre-teen (2-3 doses)				
Estimated 3-dose coverage (calendar year)	70%				

CANCER SCRI	EENING
Cervical Cancer	
Guidelines ⁹	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/25-69 years of age/every 3 years
Availability and coverage of screening services	·
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors
Screening coverage ¹⁰	79.6% of target population

CANC	ER SCREENING
Breast Cancer	
Guidelines ¹¹	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Mammography/women aged 50-69 years/every 2 years (province specific)
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally <u>not</u> available in the public and the private sectors
Mammogram ⁶	Generally available in the public and the private sectors
Screening coverage ¹⁰	72.4% of target population
Colorectal Cancer	
Guidelines ¹²	
Are there colorectal cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	FT or FTi/50-74 years of age/every 2 years (province specific)
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage ¹⁰	42.8% of target population

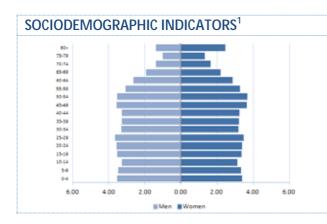
CAN	CER TREATMEI	NT AND PALLIATIVE CARE		
Radiotherapy ¹³		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally available		
Total energy teletherapy units/million inhabitants	8.2	Covered by health insurance or publically funded? Yes		
Total radiotherapy centers	53	Appears in the national list of essential medicines? N/A		
Radiation oncologists	358	Opioid consumption ¹⁴		
Medical physicists	346	Total morphine equivalence, per capita 753.4		
Chemotherapy ⁶	3	Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available		

Notes: ...: Information not available; N/A: Not applicable; FT: Fecal test; FTi; Immunochemical fecal-occult blood test.

Sources:

- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- $\textbf{(2)} \ \mathsf{PAHO}. \ \mathsf{Tobacco} \ \mathsf{Control} \ \mathsf{Report} \ \mathsf{for} \ \mathsf{the} \ \mathsf{Region} \ \mathsf{of} \ \mathsf{the} \ \mathsf{Americas}, \mathsf{2013}. \ \ \mathsf{Washington} \ \mathsf{D.C.}, \mathsf{USA}, \mathsf{2013}.$
- $\textbf{(3)} \ \text{WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, } \ \text{from } \underline{\text{http://bit.ly/17zhuqZ}}.$
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
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- (12) Canadian Task Force on Preventive Health Care. Screening for Colorectal Cancer, 2001 (Currently under review).
- (13) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (14) 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.

UNITED STATES OF AMERICA



Total population: 313,085,400

Average annual deaths: 2,621,700

Life expectancy at birth (years):

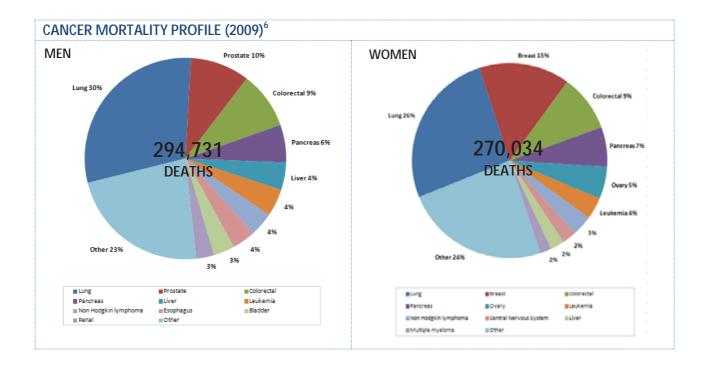
Total: 79 Male: 76 Female: 81

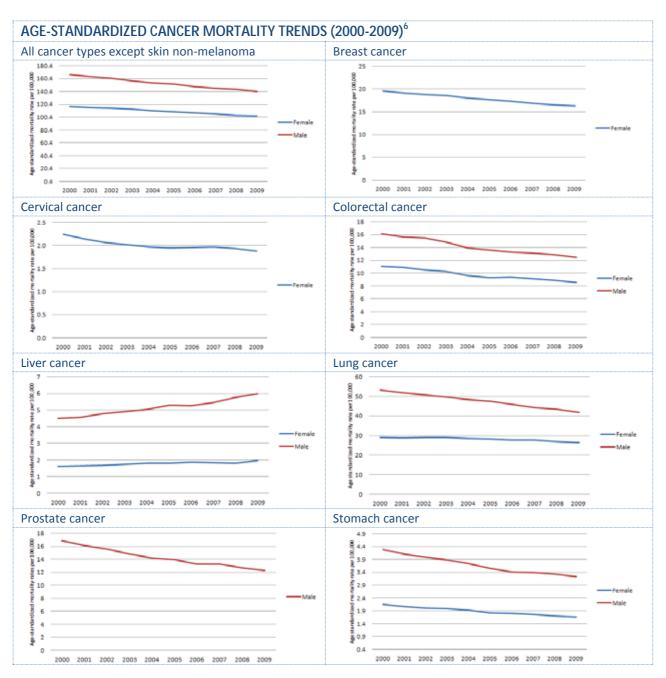
· Adult literacy rate: ...

Gross National Income US\$ per capita: 46,360

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	19.0	21.6	16.5
Adolescent tobacco smokers ³	8.0	8.2	7.8
Fruit and vegetable intake in adults ^{1,b}	23.4	19.2	27.7
Alcohol consumers, past 12 months ⁴	65.4	71.7	59.5
Low physical activity in adults ^{1,c}	40.5	43.5	47.4
Obesity among adults (BMI ≥30) ¹	26.9	28.6	26.0
HPV prevalence (women with normal cytology) ⁵			13.3

Notes: a: current cigarette smoking in adults (18 years+); b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.





Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	294,731	141.05	-1.85*
	Female	270,034	102.03	-1.53*
Breast cancer		40,684	16,31	-2.10*
Cervical cancer		3,913	1,88	-1.8*
Colorectal cancer	Male	26,976	12.89	-2.81*
	Female	25,424	8.93	-2.76*
Liver cancer	Male	13,038	6.40	2.94*
	Female	6,319	2.36	1.51*
Lung cancer	Male	87,744	42.31	-2.6*
	Female	70,417	26.82	-1.0*
Prostate cancer		28,091	12,28	-3.4*
Stomach cancer	Male	6,666	3.22	-3.1*
	Female	4,522	1.65	-2.83*

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCE	ER REGISTRATION ⁷
National integrated NCD policy, strategy or action plan	
Is there a national integrated NCD policy, strategy or action plan?	Yes
Is cancer included in the overall NCD plan?	Yes
First year of implementation	2010
Cancer policy, strategy or action plan	
Is there a Cancer policy, strategy or action plan?	Yes
First year of implementation	2010
Cancer registry	
Is there a Cancer registry?	Yes
Scope (National vs. Subnational)?	National
Type of registry (Population vs. hospital based)?	Population based
Last year with available data	2009

CANCER PRIMARY PREVEN	NTION POLICIES
Tobacco control ³	
Smoke free environments?	Up to two types of public places completely smoke-free
Raised taxes on tobacco?	43% of retail price is tax
Health warning labels about the dangers of tobacco?	Medium size warnings with all appropriate characteristics or large warning missing some appropriate characteristics
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media
Overweight and obesity prevention and control ⁷	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2010)
Harmful use of alcohol prevention and control ⁷	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2010)
HPV vaccination in national immunization program?8	Yes
Year of introduction/Target age group/Delivery strategy	2006/boys and girls aged 11-12 years/primary care providers and health centers
Estimated 3-dose coverage (calendar year)	32% of target population (2010)
HBV vaccination in national immunization program? 9	Yes
Year of introduction/Target age group	1991/Newborn, 1-2m, 6-18m
Estimated 3-dose coverage (calendar year)	91%

CANCER SC	REENING
Cervical Cancer	
Guidelines ¹⁰	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/21-65 years of age/every 3 years HPV and cytology/30-65 years of age/every 5 years
Availability and coverage of screening services	
Cervical cytology ⁷	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁷	Generally <u>not</u> available in the public and the private sectors
Screening coverage ¹¹	83% of women with a Pap test within the past 3 years (2010)

CANCI	ER SCREENING
Breast Cancer	
Guidelines ¹²	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Mammography/50-74 years of age/every 2 years
Availability and coverage of screening services	.
Clinical Breast Examination ⁷	Generally available in the public and the private sectors
Mammography ⁷	Generally available in the public and the private sectors
Screening coverage ¹¹	70.4% women 50-74 with a mammogram in the past 2 years (2010)
Colorectal Cancer	
Guidelines ¹³	
Are there colorectal cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Faecal occult blood test, sigmoidoscopy or colonoscopy/50-75 years of age
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁷	Generally available in the public and the private sectors
Screening coverage ¹¹	58.6% adults up-to-date with colorectal cancer screening (2010)

CAN	CER TREATMEN	TI	AND PALLIATIVE CARE		
Radiotherapy ¹⁴			Oral Morphine ⁷		
Availability of services? ⁷	Generally available		Availability in the public health sector?	Generally available	
Total energy teletherapy units/million inhabitants	12.6		Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	2,734		Appears in the national list of essential medicines?	Yes	
Radiation oncologists	2,683		Opioid consumption ¹⁵		
Medical physicists	1,739		Total morphine equivalence, per capita	693.45	
Chemotherapy ⁷			Community/home care available? ⁷		
Availability of services?	Generally available		Are community/home care services available for people with advanced stages of NCDs?	Generally available	

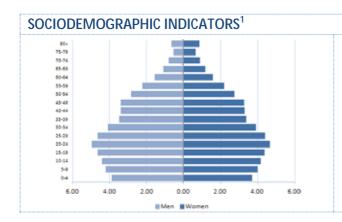
 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months.$

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18

COSTA RICA



Total population: 4,726,600

Average annual deaths: 20,400

Life expectancy at birth (years):

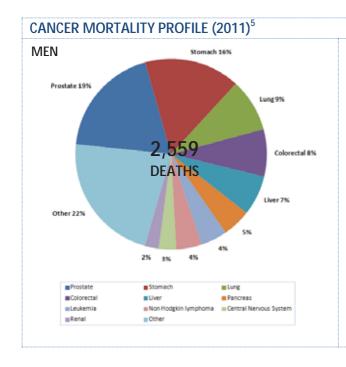
Total: 79 Male: 77 Female: 82

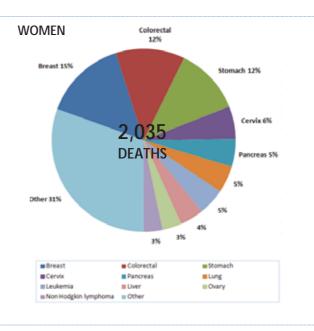
Adult literacy rate: 96.1%

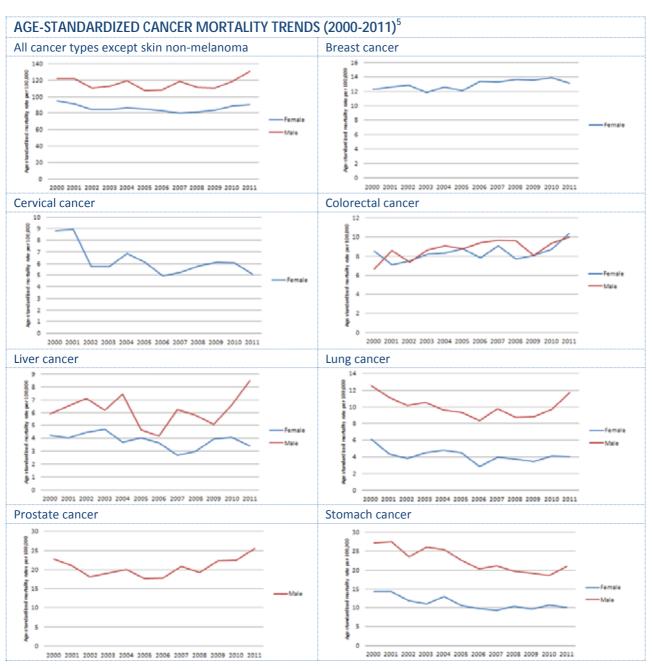
Gross National Income US\$ per capita: 6,260

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	16.0	24.0	8.0
Adolescent tobacco smokers ²	14.6	15.9	13.1
Fruit and vegetable intake in adults ^{1,b}	22.3	24.2	20.4
Alcohol consumers, past 12 months ³	55.7	68.7	42.5
Low physical activity in adults ^{1,c}	50.9	38.6	63.4
Obesity among adults (BMI ≥30) ¹	26.0	21.2	31.0
HPV prevalence (women with normal cytology) ⁴			30.2

Notes: a: age-standardized prevalence of tobacco smoking in adults (15 years+), 2011; b: % who eat \leq 5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.







Cancer type	Sex	Number of deaths (2011)	ASMR (2011)	AAPC
All cancer types	Male	2,559	130.83	0.17
	Female	2,035	90.46	0.6
Breast cancer		296	13.10	1.03*
Cervical cancer		117	5.12	-3.45*
Colorectal cancer	Male	205	10.37	2.26*
	Female	247	10.75	1.43
Liver cancer	Male	173	8.92	0.29
	Female	85	3.82	-2.04
Lung cancer	Male	230	12.11	0.8
	Female	97	4.41	-2.47
Prostate cancer		485	25.45	2.2
Stomach cancer	Male	414	21.38	-3.35*
	Female	239	10.49	-3.09*

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶			
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan? Under development			
Is cancer included in the overall NCD plan?	N/A		
First year of implementation N/A			
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan? Yes			
First year of implementation 2011			
Cancer registry			
Is there a Cancer registry? Yes			
Scope (National vs. Subnational)?	National		
Type of registry (Population vs. hospital based)?	Population based		
Last year with available data	2010		

CANCER PRIMARY PREVENTION POLICIES		
Tobacco control ²		
Smoke free environments?	All public spaces are completely smoke free	
Raised taxes on tobacco?	72% of retail price is tax	
Health warning labels about the dangers of tobacco?	Medium size warnings with all appropriate characteristics or large warning missing some appropriate characteristics	
Bans on tobacco advertising, promotion and sponsorship?	Ban on television, radio and print media and some but not all forms of direct and/or indirect advertising	
Overweight and obesity prevention and control ⁶		
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development	
Harmful use of alcohol prevention and control ⁶		
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Under development	
HPV vaccination in national immunization program? ⁷	No	
Year of introduction/Target age group/Delivery strategy	N/A	
Estimated 3-dose coverage (calendar year)	N/A	
HBV vaccination in national immunization program? ⁷	Yes	
Year of introduction/Target age group	2000/Newborn-2m-6m; risk groups, health care professionals	
Estimated 3-dose coverage (2012)	91%	

CANCER SCR	EENING
Cervical Cancer	
Guidelines ⁸	
Are there cervical cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/women aged 20 years and older/annual
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors
Screening coverage ⁹	35% women aged 35 years and older with a Pap test in the past 2 years (2010)

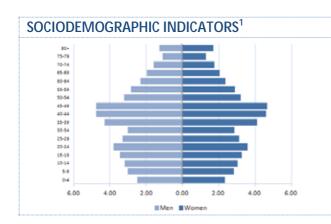
CANCER SCREENING		
Breast Cancer		
Guidelines ¹⁰		
Are there breast cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Mammography/women aged 40 years and older/annual	
Availability and coverage of screening services	·	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally available in the public and the private sectors	
Screening coverage		
Colorectal Cancer		
Guidelines		
Are there colorectal cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors	
Exam or colonoscopy ⁶	Generally available in the public and the private sectors	
Screening coverage		

CAN	CER TREATMEN	IT AND PALLIATIVE CARE	
Radiotherapy ¹¹		Oral Morphine ⁶	
Availability of services? ⁶	Generally available	Availability in the public health sector?	Generally available
Total energy teletherapy units/million inhabitants	1.7	Covered by health insurance or publically funded?	Yes
Total radiotherapy centers	3	Appears in the national list of essential medicines?	Yes
Radiation oncologists 18		Opioid consumption ¹²	
Medical physicists	13	Total morphine equivalence, per capita	9.64
Chemotherapy ⁶	*	Community/home care available? ⁶	
Availability of services?	Generally <u>not</u> available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> availab

Notes: ...: Information not available; N/A: Not applicable; m: months.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
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CUBA



Total population: 11,253,700

Average annual deaths: 83,900

Life expectancy at birth (years):

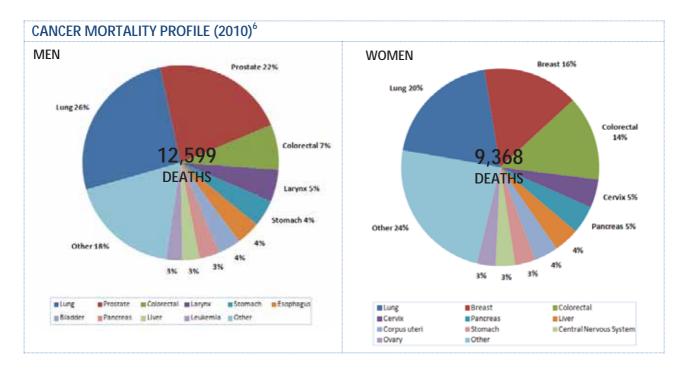
Total: 79 Male: 77 Female: 81

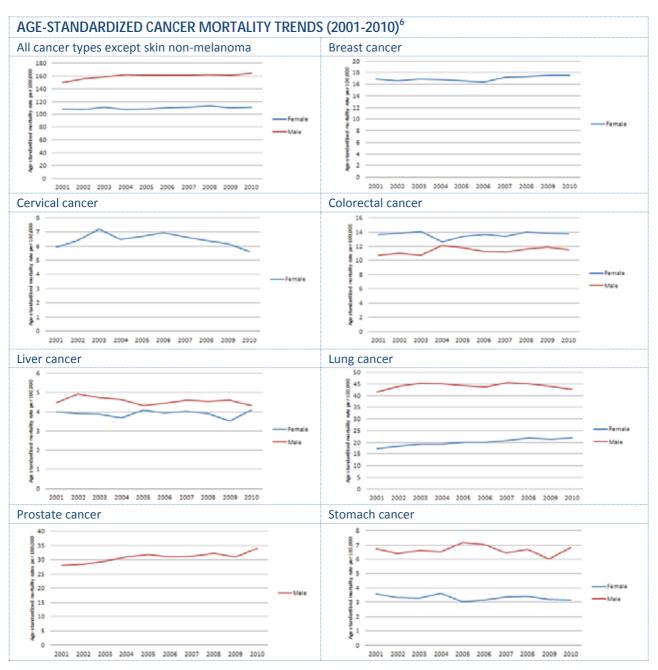
Adult literacy rate: 99.8%

Gross National Income US\$ per capita: 5,500

	:	:	
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	23.7	31.1	16.4
Adolescent tobacco smokers ³	17.1	19.8	15.0
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ⁴	45.6	67.2	24.5
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	20.5	13.3	27.5
HPV prevalence (women with normal cytology) ⁵			

Notes: a: current tobacco smoking in adults (15 years+); b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.





Cancer type	Sex	Number of deaths (2010)	ASMR (2010)	AAPC
All cancer types	Male	12,599	164.31	0.8*
	Female	9,368	112.01	0.43*
Breast cancer		1,470	17.58	0.55*
Cervical cancer		439	5.64	0.1
Colorectal cancer	Male	938	11.95	0.73
	Female	1,295	14.14	0.13
Liver cancer	Male	357	4.71	-0.59
	Female	387	4.50	-0.14
Lung cancer	Male	3,286	43.20	0.5
	Female	1,842	22.19	2.42*
Prostate cancer		2,779	34.06	1.67*
Stomach cancer	Male	552	7.21	-0.26
	Female	311	3.56	-0.78

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCI	ER REGISTRATION ⁷		
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan? Under development			
Is cancer included in the overall NCD plan?	N/A		
First year of implementation	N/A		
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan? Yes			
First year of implementation	2009		
Cancer registry			
Is there a Cancer registry? Yes			
Scope (National vs. Subnational)?	National		
Type of registry (Population vs. hospital based)?	Population based		
Last year with available data	2009		

CANCER PRIMARY PREVENTION POLICIES		
Tobacco control ²		
Smoke free environments?	Three to five types of public spaces completely smoke-free	
Raised taxes on tobacco?	75% of retail price is tax	
Health warning labels about the dangers of tobacco?	Medium size warnings with all appropriate characteristics or large warning missing some appropriate characteristics	
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media	
Overweight and obesity prevention and control ⁷		
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2008)	
Harmful use of alcohol prevention and control ⁷		
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation) Yes (2002)		
HPV vaccination in national immunization program? ⁸	No	
Year of introduction/Target age group/Delivery strategy	N/A	
Estimated 3-dose coverage (calendar year)	N/A	
HBV vaccination in national immunization program? ⁸	Yes	
Year of introduction/Target age group	1990/Newborn-2m-4m-6m	
Estimated 3-dose coverage (2012)	100%*	

Note: *Reported coverage >100%.

CANCER SCREENING	
Cervical Cancer	
Guidelines ⁹	
Are there cervical cancer screening guidelines available? Yes	
Guideline recommendations (Tests/Age groups/Frequency) Pap test/25-64 years of age/every 3 years	
Availability and coverage of screening services	
Cervical cytology ⁷ Generally available in the public sector	
Visual Inspection with Acetic Acid ⁷	Generally <u>not</u> available in the public sector
Screening coverage ⁹	70% of target population (2010)

CANCER SCREENING		
Breast Cancer		
Guidelines ¹⁰		
Are there breast cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	CBE/women aged 30 years and older Mammography/50-64 years of age/every 3 years	
Availability and coverage of screening services		
Clinical Breast Examination ⁷	Generally available in the public sector	
Mammography ⁷	Generally available in the public sector	
Screening coverage		
Colorectal Cancer		
Guidelines		
Are there colorectal cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁷	Generally available in the public sector	
Exam or colonoscopy ⁷	Generally available in the public sector	
Screening coverage		

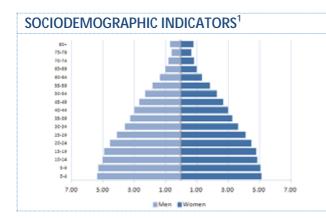
CANCER TREATMENT AND PALLIATIVE CARE		NT AND PALLIATIVE CARE	
Radiotherapy ¹¹		Oral Morphine ⁷	
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally not available	
Total energy teletherapy units/million inhabitants	1.2	Covered by health insurance or publically funded?	
Total radiotherapy centers	9	Appears in the national list of essential medicines?	
Radiation oncologists 38		Opioid consumption ¹²	
Medical physicists	29	Total morphine equivalence, per capita 2.30	
Chemotherapy ⁷		Community/home care available? ⁷	
Availability of services?	Generally available	Are community/home care services available for generally people with advanced stages of NCDs? Generally available	

Notes: ...: Information not available; N/A: Not applicable; NB: Newborn; m: months; CBE: Clinical Breast Examination.

Sources

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- $\textbf{(7)} \ \mathsf{PAHO/WHO} \ \mathsf{Survey} \ \mathsf{on} \ \mathsf{National} \ \mathsf{Capacity} \ \mathsf{for} \ \mathsf{the} \ \mathsf{Prevention} \ \mathsf{and} \ \mathsf{Control} \ \mathsf{of} \ \mathsf{Non-communicable} \ \mathsf{Diseases}, \ \mathsf{2013}.$
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- (12) 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.

DOMINICAN REPUBLIC



Total population: 10,056,200

Average annual deaths: 60,100

Life expectancy at birth (years):

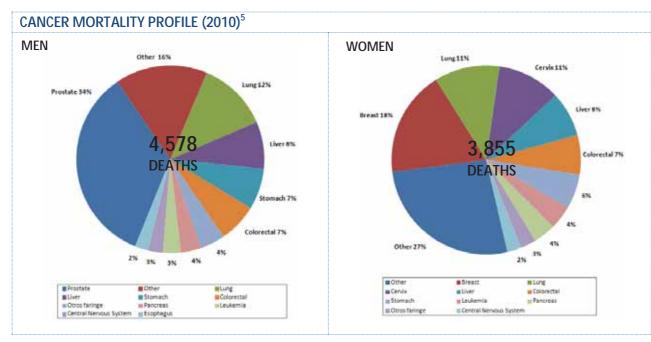
Total: 74 Male: 71 Female: 76

Adult literacy rate: 88.2%

Gross National Income US\$ per capita: 4,550

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	16.0	17.0	16.0
Adolescent tobacco smokers ²	18.6	24.3	14.0
Fruit and vegetable intake in adults ^{1,b}	24.8	29.6	19.8
Alcohol consumers, past 12 months ³	56.7	69.6	43.9
Low physical activity in adults ^{1,c}	35.7	31.5	40.0
Obesity among adults (BMI ≥30) ¹	16.4	12.7	18.3
HPV prevalence (women with normal cytology) ⁴			

Notes: a: age-standardized prevalence of tobacco smoking in adults (15 years+), 2011; b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.



^{*}Note: Cancer mortality data for Dominican Republic is only available to PAHO for 2000-2004 and 2010, thus a mortality trend analysis was not possible.

CANCER PLANS AND CANC	er registration ⁶	
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Yes	
Is cancer included in the overall NCD plan?	No	
First year of implementation	2010	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	Yes	
First year of implementation	1996	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	National	
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2013	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Up to two types of public places completely smoke-free		
Raised taxes on tobacco?	59% of retail price is tax		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	1994/Newborn-2m-4m-6m		
Estimated 3-dose coverage (2011)	80%		

CANCER SCREENING		
Cervical Cancer		
Guidelines ^{8,9}		
Are there cervical cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/35-64 years of age/annual	
Availability and coverage of screening services	<u>i</u>	
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors	
Screening coverage		

CANC	CER SCREENING
Breast Cancer	
Guidelines ¹⁰	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	BSE/women aged 18 and older/monthly CBE/women aged 35 and older/any contact with a healthcare provider Mammography/35-40 years of age, every 2 years/women over 40 years of age, annual
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	

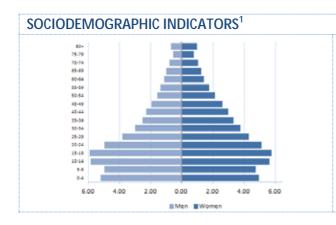
CAN	CER TREATMEN	T AND PALLIATIVE CARE		
Radiotherapy ¹¹		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector?	Generally <u>not</u> available	
Total energy teletherapy units/million inhabitants	1.1	Covered by health insurance or publically funded?	No	
Total radiotherapy centers	7	Appears in the national list of essential medicines?	Yes	
Radiation oncologists	12	Opioid consumption ¹²		
Medical physicists	6	Total morphine equivalence, per capita	0.99	
Chemotherapy ⁶	*	Community/home care available? ⁶		
Availability of services?	Generally <u>not</u> available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available	

Notes: ...: Information not available; N/A: Not applicable; m: months; SBE: Self-breast examination; CBE: Clinical breast examination.

Sources:

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- $\textbf{(4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from \underline{http://www.hpvcentre.net/}\ .$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
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- (10) Ministry of Health and Social Assistance of Dominican Republic. Normas nacionales para la prevención y manejo de patologías de mama. Series de Normas Nacionales No.37. República Dominica, retrieved August 28,2013 from http://bit.ly/14CZYhq.
- (11) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (12) 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.

EL SALVADOR



Total population: 6,227,500

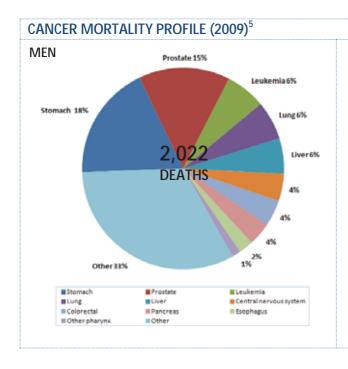
Average annual deaths: 41,000

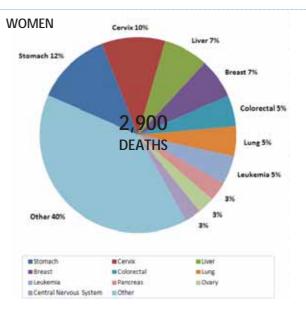
Life expectancy at birth (years):
 Total: 72 Male: 67 Female: 77

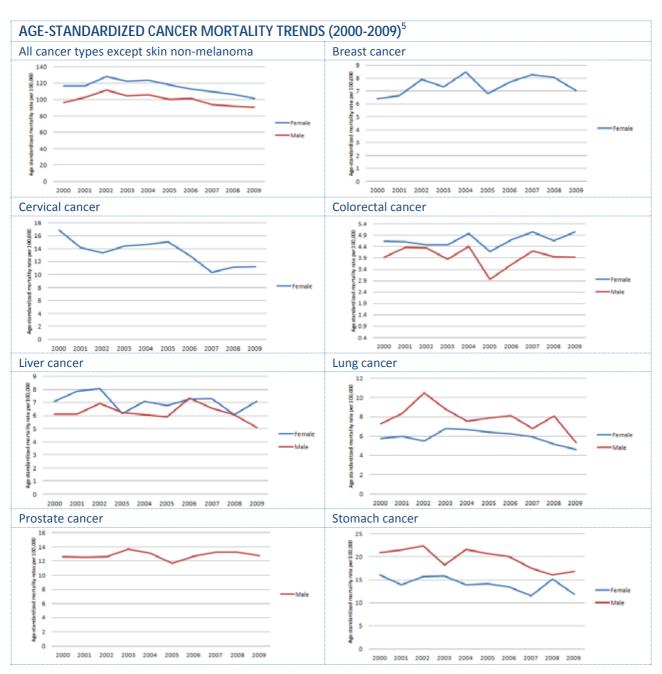
Adult literacy rate: 84.1

Gross National Income US\$ per capita: 3,370

	7	7	*
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	13.0	24.0	3.0
Adolescent tobacco smokers ²	14.6	18.2	11.0
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	•••		
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	23.7	19.9	27.1
HPV prevalence (women with normal cytology) ⁴			







Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	2,022	91.15	-0.7
	Female	2,900	101.79	-1.2*
Breast cancer		191	7.07	1.45
Cervical cancer		304	11.26	-4.09*
Colorectal cancer	Male	84	3.93	-0.84
	Female	147	5.04	0.84
Liver cancer	Male	115	5.50	-0.86
	Female	214	7.49	-1.07
Lung cancer	Male	126	5.73	-3.08
	Female	145	5.00	-1.9
Prostate cancer		294	12.76	0.24
Stomach cancer	Male	374	17.22	-2.93*
	Female	358	12.31	-2.41*

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan? Under development		
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	N/A	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan? Yes		
First year of implementation	2011	
Cancer registry		
Is there a Cancer registry?	No	
Scope (National vs. Subnational)?	N/A	
Type of registry (Population vs. hospital based)?	N/A	
Last year with available data	N/A	

CANCER PRIMARY PREVENTION POLICIES		
Tobacco control ²		
Smoke free environments?	Up to two types of public places completely smoke-free	
Raised taxes on tobacco?	52% of retail price is tax	
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics	
Bans on tobacco advertising, promotion and sponsorship?	Ban on national television, radio and print media and some but not all forms of direct and/or indirect advertising	
Overweight and obesity prevention and control ⁶		
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development	
Harmful use of alcohol prevention and control ⁶		
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2012)	
HPV vaccination in national immunization program? ⁷	No	
Year of introduction/Target age group/Delivery strategy	N/A	
Estimated 3-dose coverage (calendar year)	N/A	
HBV vaccination in national immunization program? ⁷	Yes	
Year of introduction/Target age group	1999/NB-2m-4m-6m-15m	
Estimated 3-dose coverage (2011)	89%	

CANCER SCREENING	
Cervical Cancer	
Guidelines	
Are there cervical cancer screening guidelines available? ⁸ Yes	
Guideline recommendations (Tests/Age groups/Frequency) ⁹	Pap test/30-59 years of age/every 2 years VIA/reproductive ages in rural areas/every 2 years
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors
Screening coverage ⁹	17.8% Pap/Information not available for VIA

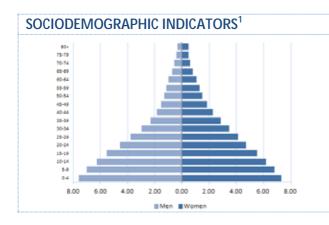
CANC	ER SCREENING
Breast Cancer	
Guidelines ¹⁰	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	BSE/all women after menarche/monthly CBE/all women/any contact with a health care worker
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	

CANCER TREATMENT AND PALLIATIVE CARE			
Radiotherapy ¹¹		Oral Morphine ⁶	
Availability of services? ⁶	Generally available	Availability in the public health sector? General availab	′ —
Total energy teletherapy units/million inhabitants	0.8	Covered by health insurance or publically funded? No	
Total radiotherapy centers	3	Appears in the national list of essential medicines? No	
Radiation oncologists	7	Opioid consumption ¹²	
Medical physicists	7	Total morphine equivalence, per capita 3.51	
Chemotherapy ⁶		Community/home care available? ⁶	
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? General available for available for people with advanced stages of NCDs?	′ —

Notes: ...: Information not available; N/A: Not applicable; NB: Newborn; m: months; BSE: Breast self examination; CBE: Clinical breast examination.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/
- (8) Ministry of Health and Social Assistance of El Salvador. Guía técnica de prevención y control del cáncer de cérvix. 2007, retrieved August 28, 2013 from http://bit.ly/1d2gsZw.
- (9) PAHO/WHO. Cervical cancer prevention and control programs: A rapid assessment in 12 countries of Latin America. Washington D.C.: PAHO, 2010.
- (10) Ministry of Health and Social Assistance of El Salvador. Guía técnica de prevención y control del cáncer de mama, 2006, retrieved August 28, 2013 from http://bit.ly/14WKaoP.
- (11) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (12) 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.

GUATEMALA



Total population: 14,757,300

Average annual deaths: 80,500

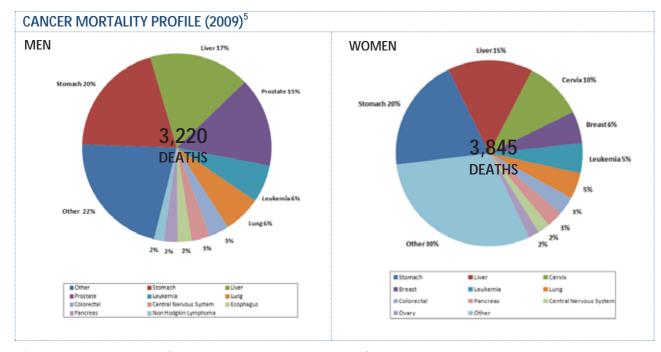
Life expectancy at birth (years):

Total: 71 Male: 68 Female: 75

Adult literacy rate: 74.5%

Gross National Income US\$ per capita: 2,650

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	10.0	20.0	2.0
Adolescent tobacco smokers ²	16.6	19.7	13.3
Fruit and vegetable intake in adults ^{1,b}	19.0	20.4	18.1
Alcohol consumers, past 12 months ³	22.8	41.6	5.8
Low physical activity in adults ^{1,c}	50.4	56.0	45.0
Obesity among adults (BMI ≥30) ¹	21.3	16.0	25.8
HPV prevalence (women with normal cytology) ⁴			33.2



^{*}Note: Cancer mortality data for Guatemala is only available to PAHO for 2005-2009, thus a mortality trend analysis was not possible.

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan? Yes		
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	2010	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan? Yes		
First year of implementation	2011	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	Subnational	
Type of registry (Population vs. hospital based)?	Hospital based	
Last year with available data	2010	

CANCER PRIMARY PREVENTION POLICIES		
Tobacco control ²		
Smoke free environments?	All public spaces are completely smoke free	
Raised taxes on tobacco?	49% of retail price is tax	
Health warning labels about the dangers of tobacco?	No warnings or small warnings	
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media	
Overweight and obesity prevention and control ⁶		
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development	
Harmful use of alcohol prevention and control ⁶		
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No	
HPV vaccination in national immunization program? ⁷		
Year of introduction/Target age group/Delivery strategy	N/A	
Estimated 3-dose coverage (calendar year)	N/A	
HBV vaccination in national immunization program? ⁷	Yes	
Year of introduction/Target age group	2005/Newborn-2m-4m-6m	
Estimated 3-dose coverage (2012)	96%	

CANCER SCREENING	
Cervical Cancer	
Guidelines ^{8,9}	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/25-54 years of age/every 3 years VIA/25-54 years of age/every 3 years
Availability and coverage of screening services	
Cervical cytology ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Visual Inspection with Acetic Acid ⁶	Generally available in the public sector and generally not available in the private sector
Screening coverage	

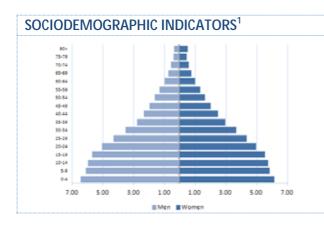
CANCER SCREENING		
Breast Cancer		
Guidelines		
Are there breast cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector	
Screening coverage		
Colorectal Cancer		
Guidelines		
Are there colorectal cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector	
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector	
Screening coverage		

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹⁰		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally not available		
Total energy teletherapy units/million inhabitants	0.7	Covered by health insurance or publically funded? No		
Total radiotherapy centers	7	Appears in the national list of essential medicines? No		
Radiation oncologists	10	Opioid consumption ¹¹		
Medical physicists	5	Total morphine equivalence ME/Per capita 1.19		
Chemotherapy ⁶		Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally not available		

Notes: ...: Information not available; N/A: Not applicable; m: months.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (8) Ministry of Public Health and Social Assistance of Guatemala. Manual para el tamizaje del cáncer cervicouterino, retrieved August 28, 2013 from http://bit.ly/16wfmix.
- (9) PAHO/WHO. Cervical cancer prevention and control programs: A rapid assessment in 12 countries of Latin America. Washington D.C.: PAHO, 2010.
- (10) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (11) 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.

HONDURAS



Total population: 7,754,100

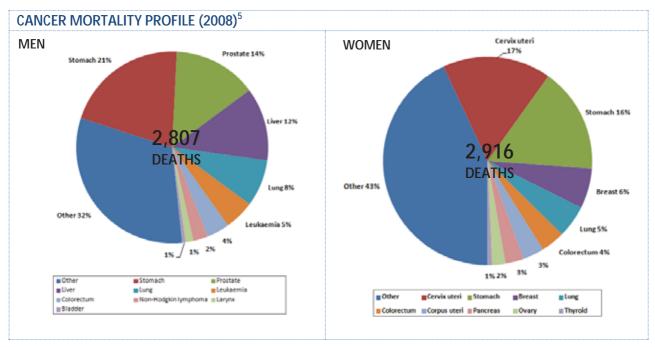
Average annual deaths: 37,500

Life expectancy at birth (years): Total: 73 Male: 71 Female: 76

Adult literacy rate: 83.6%

Gross National Income US\$ per capita: 1,800

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	•••	•••	•••
Adolescent tobacco smokers ²			
Fruit and vegetable intake in adults ^{1,b}		•••	
Alcohol consumers, past 12 months ³			
Low physical activity in adults ^{1,c}			•••
Obesity among adults (BMI ≥30) ¹	19.3	15.5	24.5
HPV prevalence (women with normal cytology) ⁴			36.8



^{*}Note: Mortality data for Honduras is not available to PAHO, thus a mortality trend analysis was not possible.

CANCER PLANS AND CANCER REGISTRATION ⁶				
National integrated NCD policy, strategy or action plan				
Is there a national integrated NCD policy, strategy or action plan?				
Is cancer included in the overall NCD plan?	N/A			
First year of implementation	N/A			
Cancer policy, strategy or action plan				
Is there a Cancer policy, strategy or action plan? Yes				
First year of implementation 2010				
Cancer registry				
Is there a Cancer registry?	Yes			
Scope (National vs. Subnational)?	National			
Type of registry (Population vs. hospital based)?	Hospital based			
Last year with available data	2004			

CANCER PRIMARY PREVEN	NTION POLICIES		
Tobacco control ²			
Smoke free environments?	All public spaces are completely smoke free		
Raised taxes on tobacco?	34% of retail price is tax		
Health warning labels about the dangers of tobacco?	Medium size warnings with all appropriate characteristics or large warning missing some appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Ban on national television, radio and print media and some but not all forms of direct and/or indirect advertising		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	1999/Newborn-2m-4m-6m; risk groups		
Estimated 3-dose coverage (201)	88%		

CANCER SCREENING			
Cervical Cancer			
Guidelines			
Are there cervical cancer screening guidelines available? ⁸	Yes (1998)		
Guideline recommendations (Tests/Age groups/Frequency) ⁹	Pap test/30-59 years of age/every 3 years following 2 consecutive normal annual Pap tests		
Availability and coverage of screening services			
Cervical cytology ⁶	Generally available in the public and the private sectors		
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors		
Screening coverage ⁹	41.84% of target population		

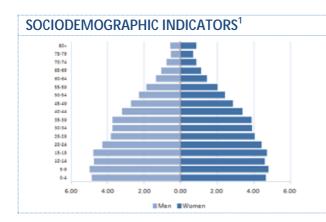
CANCER SCREENING			
Breast Cancer			
Guidelines			
Are there breast cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services	•		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors		
Mammography ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			
Colorectal Cancer			
Guidelines			
Are there colorectal cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Faecal occult blood test or fecal immunological test ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			

CANCER TREATMENT AND PALLIATIVE CARE					
Radiotherapy ¹⁰			Oral Morphine ⁶		
Availability of services? ⁶	Generally available		Availability in the public health sector?	Generally <u>not</u> available	
Total energy teletherapy units/million inhabitants	1.0		Covered by health insurance or publically funded?	No	
Total radiotherapy centers	5		Appears in the national list of essential medicines?	No	
Radiation oncologists	4		Opioid consumption ¹¹		
Medical physicists	3		Total morphine equivalence, per capita	0.63	
Chemotherapy ⁶			Community/home care available? ⁴		
Availability of services?	Generally available		Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available	

Notes: ...: Information not available; N/A: Not applicable; m: months.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) Ferlay J et al. GLOBOCAN 2008 v2.0, Cancer Incidence and Mortality Worldwide: IARC CancerBase No. 10 [Internet]. Lyon, France: International Agency for Research on Cancer; 2010, retrieved August 28, 2013 from: http://globocan.iarc.fr.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from <a href="http
- (8) Ministry of Health of Honduras. Manual de Normas y Procedimientos para la Prevención y Control de Cáncer Cervico Uterino. 1997.
- (9) PAHO/WHO. Cervical cancer prevention and control programs: A rapid assessment in 12 countries of Latin America. Washington D.C.: PAHO, 2010.
- (10) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (11) 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.

MEXICO



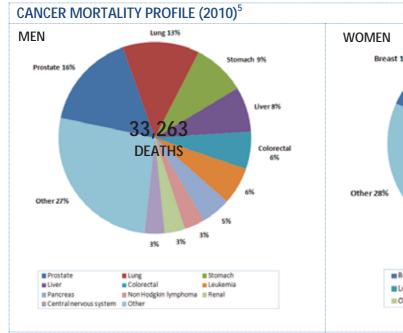
Total population: 114,793,300

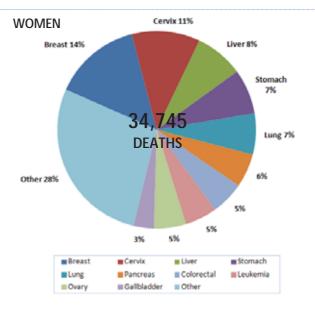
Average annual deaths: 549,400
 Life expectancy at birth (years):
 Total: 77 Male: 75 Female: 79

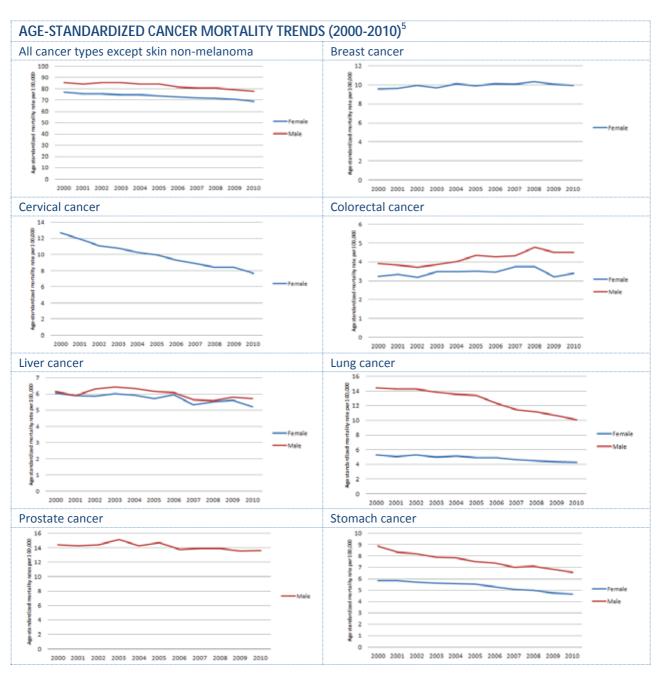
Adult literacy rate: 93.4%

Gross National Income US\$ per capita: 8,960

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	17.0	27.0	8.0
Adolescent tobacco smokers ²	19.8	21.6	17.7
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	31.0	45.1	18.0
Low physical activity in adults ^{1,c}	37.7	37.1	38.4
Obesity among adults (BMI ≥30) ¹	•••	26.1	35.6
HPV prevalence (women with normal cytology) ⁴			9.4







Cancer type	Sex	Number of deaths (2010)	ASMR (2010)	AAPC
All cancer types	Male	33,263	78.30	-1.0*
	Female	34,745	69.39	-1.0*
Breast cancer		4,966	9.92	0.51*
Cervical cancer		3,864	7.69	-4.61*
Colorectal cancer	Male	2,090	4.90	1.98*
	Female	1,892	3.79	0.59
Liver cancer	Male	2,539	6.12	-0.93*
	Female	2,746	5.60	-1.16*
Lung cancer	Male	4,300	10.47	-3.7*
	Female	2,331	4.70	-1.96*
Prostate cancer		5,404	13.62	-0.73*
Stomach cancer	Male	2,944	6.98	-2.56*
	Female	2,556	5.08	-2.3*

CANCER PLANS AND CANCER REGISTRATION ⁶				
National integrated NCD policy, strategy or action plan				
Is there a national integrated NCD policy, strategy or action plan? Yes				
Is cancer included in the overall NCD plan?	No			
First year of implementation	1998			
Cancer policy, strategy or action plan				
Is there a Cancer policy, strategy or action plan?				
First year of implementation N/A				
Cancer registry				
Is there a Cancer registry?	Yes			
Scope (National vs. Subnational)? National				
Type of registry (Population vs. hospital based)?	Hospital based			
Last year with available data	2012			

Note: N/A: Not applicable

CANCER PRIMARY PREVEN	NTION POLICIES
Tobacco control ²	
Smoke free environments?	Data not categorized
Raised taxes on tobacco?	67% of retail price is tax
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media
Overweight and obesity prevention and control ⁶	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	DK
Harmful use of alcohol prevention and control ⁶	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No
HPV vaccination in national immunization program? ⁷	Yes
Year of introduction/Target age group/Delivery strategy	2008/Girls aged 9-12 years/Mixed ^a
Estimated 3-dose coverage (calendar year)	67% (2010) ^b
HBV vaccination in national immunization program?8	Yes
Year of introduction/Target age group	1998/Newborn-2m-6m
Estimated 3-dose coverage (calendar year)	99%

Note: a: Extended dosing schedules are being used at 0, 6 and 60 months; b: Two-dose coverage for the extended schedule adopted in 2009, targeting girls aged 9-12 years for the first two doses.

CANCER SCF	REENING
Cervical Cancer	
Guidelines	
Are there cervical cancer screening guidelines available? 9	Yes
Guideline recommendations (Tests/Age groups/Frequency) ¹⁰	Pap test/25-34 years of age/every 3 years HPV test/35-64 years of age/every 5 years
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	DK
Screening coverage ¹⁰	70.7% of women with a Pap test in the previous 3 years (2003)

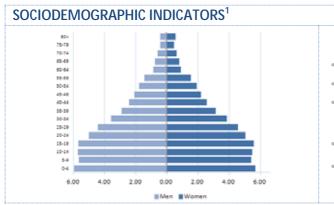
CANCE	R SCREENING
Breast Cancer	
Guidelines ¹¹	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	BSE/women aged 20 years and older/monthly CBE/women aged 25 years and older/annual Mammography/50-69 years of age (40-59 if high risk)/every 2 years
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines ¹²	
Are there colorectal cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Faecal occult blood test or fecal immunological test/general population aged 50 years or older/annual
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	DK
Exam or colonoscopy ⁶	DK
Screening coverage	

CAN	CER TREATMEI	NT AND PALLIATIVE CARE
Radiotherapy ¹³ Oral Morphine ⁶		Oral Morphine ⁶
Availability of services? ⁶	Generally available	Availability in the public health sector? DK
Total energy teletherapy units/million inhabitants	1.1	Covered by health insurance or publically funded? DK
Total radiotherapy centers	86	Appears in the national list of essential medicines?
Radiation oncologists	205	Opioid consumption ¹⁴
Medical physicists	38	Total morphine equivalence, per capita 8.76
Chemotherapy ⁶		Community/home care available? ⁶
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available

Notes: ...: Information not available; N/A: Not applicable; DK: Don't know; m: months; BSE:breast self examination; CBE: clinical breast examination.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (9) Ministry of Health of Mexico. Modificación a la Norma Oficial Mexicana NOM-014-SSA2-1994, Para la prevención, detección, diagnóstico, tratamiento, control y vigilancia epidemiológica del cáncer cérvico uterino. Diario Oficial, Jueves 31 de mayo de 2007.
- (10) Ministry of Health of Mexico. Subsecretaría de Prevención y Promoción de la Salud. Programa de acción específico 2007-2012. Cáncer cervicouterino, retrieved August 28, 2013 from: http://bit.ly/vy8dcC.
- (11) Ministry of Health of Mexico. PROYECTO de Modificación a la Norma Oficial Mexicana NOM-041-SSA2-2002, Para la prevención, diagnóstico, tratamiento, control y vigilancia epidemiológica del cáncer de mama; para quedar como Proyecto de Norma Oficial Mexicana PROY-NOM-041-SSA2-2009, Para la prevención, diagnóstico, tratamiento, control y vigilancia del cáncer de mama. Diario Oficial. Viernes 19 de noviembre de 2010.
- (12) Ministry of Health of Mexico. Guía de Práctica Clínica. Detección oportuna y diagnóstico de cáncer de colon y recto no hereditario en adultos en primero, segundo y tercer nivel de atención, México: Secretaría de Salud; 2009.
- (13) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (14) 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.

NICARAGUA



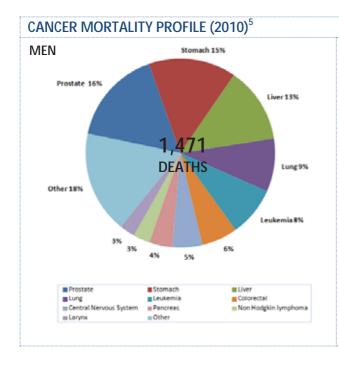
Total population: 5,869,900
 Average annual deaths: 27,500
 Life expectancy at birth (years):

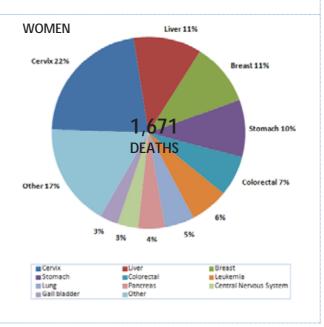
 Total: 74 Male: 71 Female: 77

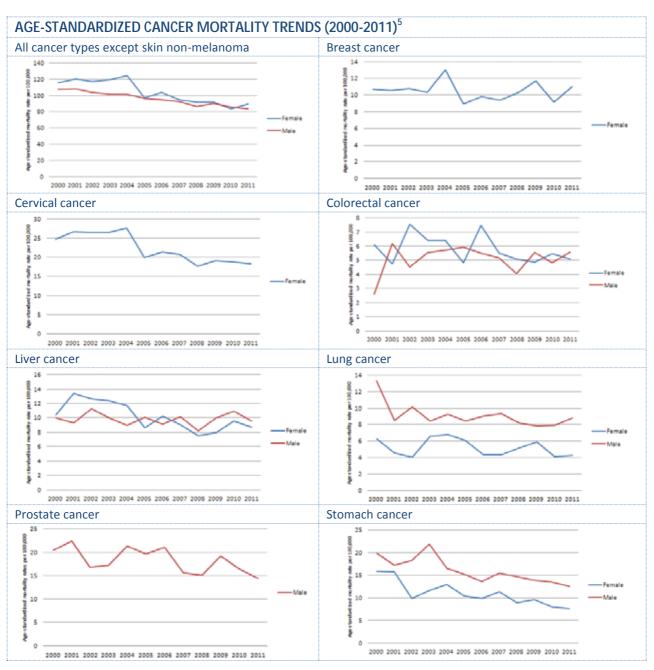
Adult literacy rate: 93.6%

Gross National Income US\$ per capita: 1,000

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}			•••
Adolescent tobacco smokers ²	•••		•••
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	26.2	43.3	9.6
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	29.1	23.8	34.2
HPV prevalence (women with normal cytology) ⁴			







Cancer type	Sex	Number of deaths (2011)	ASMR (2011)	AAPC
All cancer types	Male	1,469	83.72	-2.38*
	Female	1,846	89.77	-3.42*
Breast cancer		219	11.03	-0.50
Cervical cancer		374	18.43	-3.91*
Colorectal cancer	Male	102	6.01	1.80
	Female	112	5.47	-1.63
Liver cancer	Male	161	9.96	-0.20
	Female	179	9.10	-3.73*
Lung cancer	Male	153	9.22	-2.31*
	Female	90	4.66	-1.73
Prostate cancer		221	14.44	-2.50*
Stomach cancer	Male	216	12.94	-3.85*
	Female	163	8.03	-4.1*

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Under development	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	N/A	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	Under development	
First year of implementation	N/A	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	National	
Type of registry (Population vs. hospital based)?	Hospital based	
Last year with available data	2012	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Six to seven types of public places completely smoke-free		
Raised taxes on tobacco?	29% of retail price is tax		
Health warning labels about the dangers of tobacco?	Medium size warnings with all appropriate characteristics or large warning missing some appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	1999/2m-4m-6m; health workers		
Estimated 3-dose coverage (calendar year)	100%*		

Note: *: reported coverage >100%.

CANCER SCREENING	
Cervical Cancer	
Guidelines	
Are there cervical cancer screening guidelines available? ⁸	Yes
Guideline recommendations (Tests/Age groups/Frequency) ^{8,9}	Pap test/25-64 years of age/every 3 years following 3 consecutive normal annual Pap tests VIA/30-50 years of age/every 3 years
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors
Screening coverage ⁹	10% for Pap test

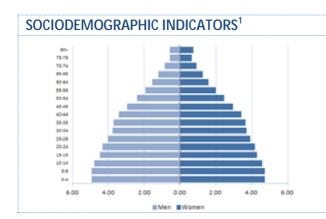
CANCE	R SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	···
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage	

CAN	CER TREATMEI	NT AND PALLIATIVE CARE	
Radiotherapy ¹⁰	Oral Morphine ⁶		
Availability of services?	Generally available	Availability in the public health sector?	Generally <u>not</u> available
Total energy teletherapy units/million inhabitants	0.3	Covered by health insurance or publically funded?	No
Total radiotherapy centers	1	Appears in the national list of essential medicines?	No
Radiation oncologists	3	Opioid consumption ¹¹	•••••
Medical physicists	1	Total morphine equivalence, per capita	1.18
Chemotherapy ⁶		Community/home care available? ⁶	
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available

Notes: ...: Information not available; N/A: Not applicable; m: months.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}\ .$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from <a href="http:
- (8) Ministry of Health of Nicaragua. Protocolo de prevención del cáncer cérvico uterino a Través del tamizaje con inspección visual con ácido acético (IVAA) y tratamiento con crioterapia, retrieved August 28, 2013 from: https://bit.ly/1d2XF0b.
- (9) PAHO/WHO. Cervical cancer prevention and control programs: A rapid assessment in 12 countries of Latin America. Washington D.C.: PAHO, 2010.
- (10) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (11) 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.

PANAMA



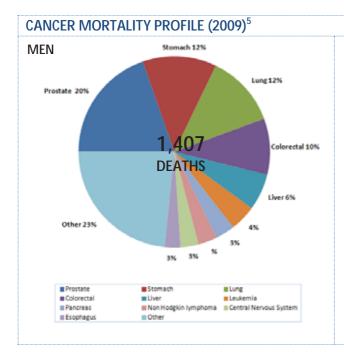
Total population: 3,571,200
 Average annual deaths: 18,100
 Life expectancy at birth (years):

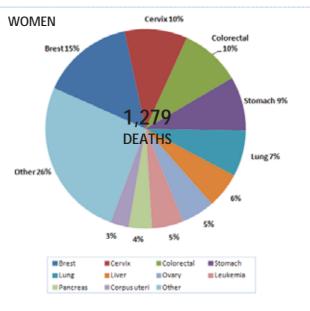
 Total: 76 Male: 74 Female: 79

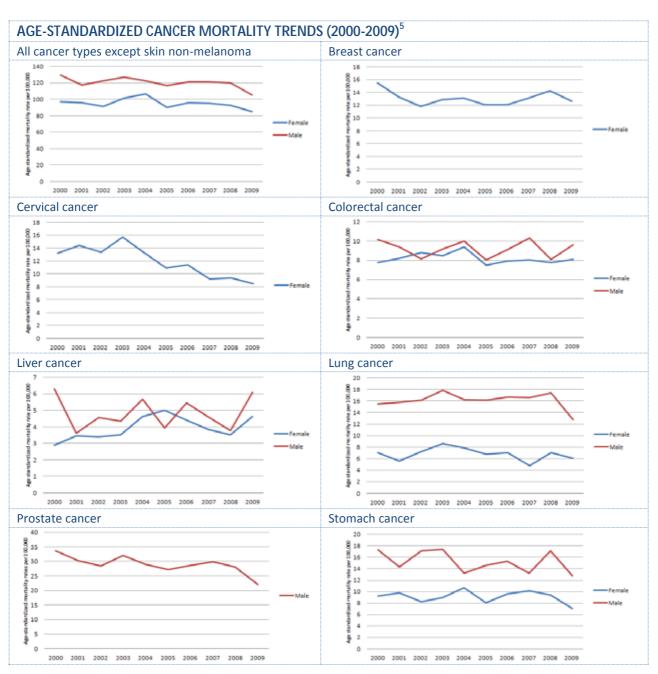
Adult literacy rate: 93.6%

Gross National Income US\$ per capita: 6,570

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	14.0	23.0	4.0
Adolescent tobacco smokers ²	12.7	15.1	10.2
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³			
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	23.2	19.7	25.1
HPV prevalence (women with normal cytology) ⁴			







Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	1,407	105.72	-1.18*
	Female	1,279	85.56	-0.93
Breast cancer		191	12.62	-1.5
Cervical cancer		130	8.48	-5.3*
Colorectal cancer	Male	134	10.03	-0.31
	Female	125	8.50	-0.54
Liver cancer	Male	87	5.03	0.18
	Female	74	6.48	3.17
Lung cancer	Male	172	13.16	-0.68
	Female	95	6.51	-1.37
Prostate cancer		277	22.07	-2.69*
Stomach cancer	Male	175	13.14	-1.82
	Female	112	7.44	-1.02

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan? Not in effect		
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	N/A	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan? Under development		
First year of implementation N/A		
Cancer registry		
Is there a Cancer registry? Yes		
Scope (National vs. Subnational)? National		
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2011	

CANCER PRIMARY PREVEN	NTION POLICIES		
Tobacco control ²			
Smoke free environments?	All public spaces are completely smoke free		
Raised taxes on tobacco?	57% of retail price is tax		
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Ban on all forms of direct and indirect advertising		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2009)		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2008)		
HPV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group/Delivery strategy	2008/Girls aged 10/Mixed		
Estimated 3-dose coverage (calendar year)	67% (2010)		
HBV vaccination in national immunization program? ⁸	Yes		
Year of introduction/Target age group	1999/Newborn-2m-4m-6m; 10-11 years; health workers		
Estimated 3-dose coverage (2012)	85%		

CANCER SCREENING		
Cervical Cancer		
Guidelines ⁹		
Are there cervical cancer screening guidelines available? Yes		
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/21-59 years of age(or 2 years after sexual debut)/every 2 years HPV test/30-64 years of age/every 3 years	
Availability and coverage of screening services		
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors	
Screening coverage ⁹	14.1% with Pap test (2008)	

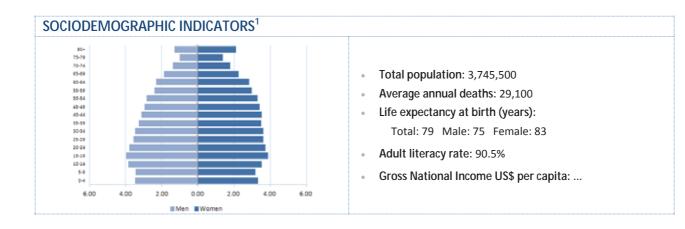
CANC	ER SCREENING
Breast Cancer	
Guidelines ¹⁰	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	BSE/all women/monthly CBE/all women/any contact with health care provider Mammography/baseline at 35; annual or every 2 years in women aged 40- 50 years; annual in women over 50 years of age
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public and the private sectors
Screening coverage	

CAN	CER TREATMEI	NT AND PALLIATIVE CARE	
Radiotherapy ¹¹		Oral Morphine ⁶	
Availability of services? ⁶	Generally available	Availability in the public health sector?	Generally <u>not</u> available
Total energy teletherapy units/million inhabitants	1.4	Covered by health insurance or publically funded?	Yes
Total radiotherapy centers	2	Appears in the national list of essential medicines?	Yes
Radiation oncologists	11	Opioid consumption ¹²	•
Medical physicists	7	Total morphine equivalence, per capita	3.21
Chemotherapy ⁶		Community/home care available? ⁶	
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available

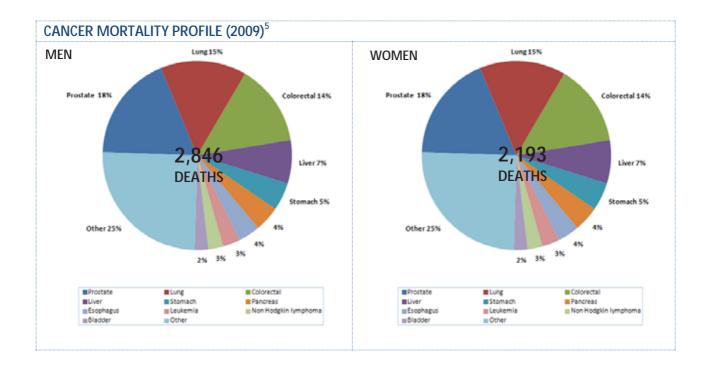
 $Notes: ...: Information \ not available; \ N/A: \ Not \ applicable; \ m: \ months; \ BSE: \ breast \ self \ examination; \ CBE: \ clinical \ breast \ examination.$

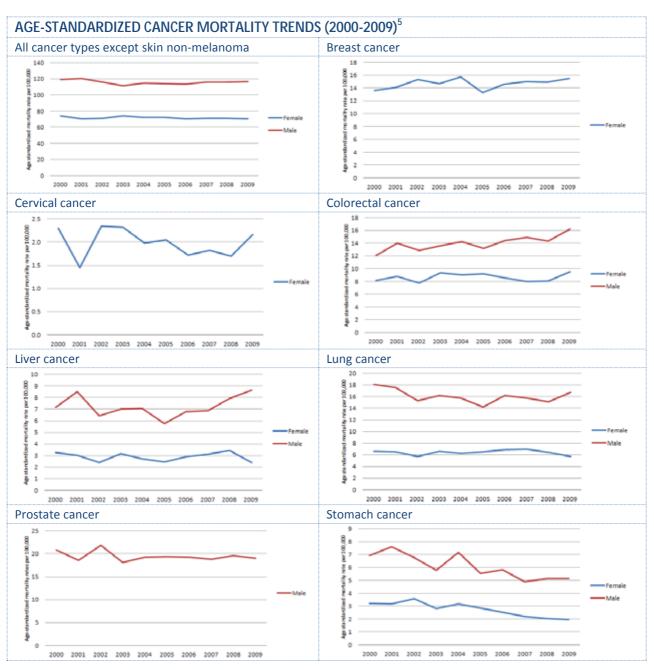
- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- $\textbf{(3)} \ \ \text{WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from } \underline{\text{http://bit.ly/17zhuqZ}}.$
- $\textbf{(4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from \underline{http://www.hpvcentre.net/}\ .$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from https://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from https://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from https://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from https://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from https://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from https://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from https://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas and the American Reported Coverage in the Amer
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- (12) 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.

PUERTO RICO



RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}		•••	
Adolescent tobacco smokers ²			•••
Fruit and vegetable intake in adults ^{1,b}	17.7	17.1	18.3
Alcohol consumers, past 12 months ³		•••	•••
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	27.5	29.3	25.9
HPV prevalence (women with normal cytology) ⁴			





Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	2,846	117.21	-0.4
	Female	2,193	70.90	-0.36
Breast cancer		440	15.53	0.79
Cervical cancer		58	2.16	-0.94
Colorectal cancer	Male	397	16.59	2.13*
	Female	334	9.93	0.41
Liver cancer	Male	90	9.07	0.72
	Female	212	2.79	-0.50
Lung cancer	Male	417	17.18	-0.99
	Female	194	6.10	-0.17
Prostate cancer		518	19.08	-0.61
Stomach cancer	Male	136	5.53	-4.06*
	Female	77	2.34	-5.32*

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?		
Is cancer included in the overall NCD plan?	Yes	
First year of implementation 2008		
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan? Yes		
First year of implementation	2008	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)? National		
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2010	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Data not categorised		
Raised taxes on tobacco?	Data not categorised		
Health warning labels about the dangers of tobacco?	Data not categorised		
Bans on tobacco advertising, promotion and sponsorship?	Data not categorised		
Overweight and obesity prevention and contro ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2007)		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (1972)		
HPV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group/Delivery strategy	2006/boys and girls aged 11-12 years/primary care providers and health centers		
Estimated 3-dose coverage (calendar year)			
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	1991/Newborn, 1-2m, 6-18m		
Estimated 3-dose coverage (calendar year)			

CANCER SCREENING		
Cervical Cancer		
Guidelines ⁸		
Are there cervical cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency) Pap test/21-65 years of age/every 3 years HPV and Pap testy/30-65 years of age/every 5		
Availability and coverage of screening services		
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors	
Screening coverage		

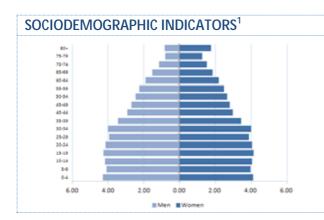
CANO	CER SCREENING
Breast Cancer	
Guidelines ⁹	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Mammography/50-74 years of age/every 2 years
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines ¹⁰	
Are there colorectal cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Faecal occult blood test, sigmoidoscopy or colonoscopy/50-75 years of age
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage	

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹¹		Oral Morphine ⁶		
Availability of services?	Generally available	Availability in the public health sector? Generally not available		
Total energy teletherapy units/million inhabitants	3.2	Covered by health insurance or publically funded? Yes		
Total radiotherapy centers	6	Appears in the national list of essential medicines? Yes		
Radiation oncologists	15	Opioid consumption ¹²		
Medical physicists	6	Total morphine equivalence, per capita 3.21		
Chemotherapy ⁶		Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available		

Notes: ...: Information not available; N/A: Not applicable.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- $\textbf{(3)} \ \text{WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from $\underline{\text{http://bit.ly/17zhuq2}}$.}$
- $\textbf{(4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}$.}$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from <a href="http:
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- (9) U.S: Preventive Services Task Force. Screening for breast cancer. 2009, retrieved August 28, 2013 from: http://bit.ly/aJJ607.
- (10) U.S: Preventive Services Task Force. Screening for colorectal cancer. 2008, retrieved August 28, 2013 from from: http://bit.ly/f2eT5g.
- (11) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (12) 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.

ARGENTINA



Total population: 40,764,561

Average annual deaths: 315,600

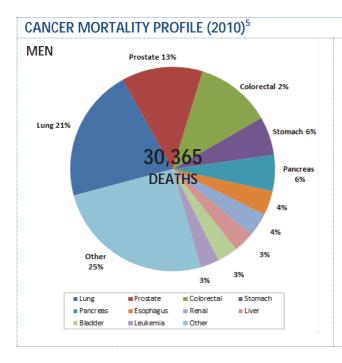
Life expectancy at birth (years):

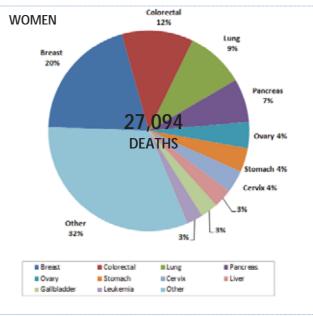
Total: 76 Male: 72 Female: 80

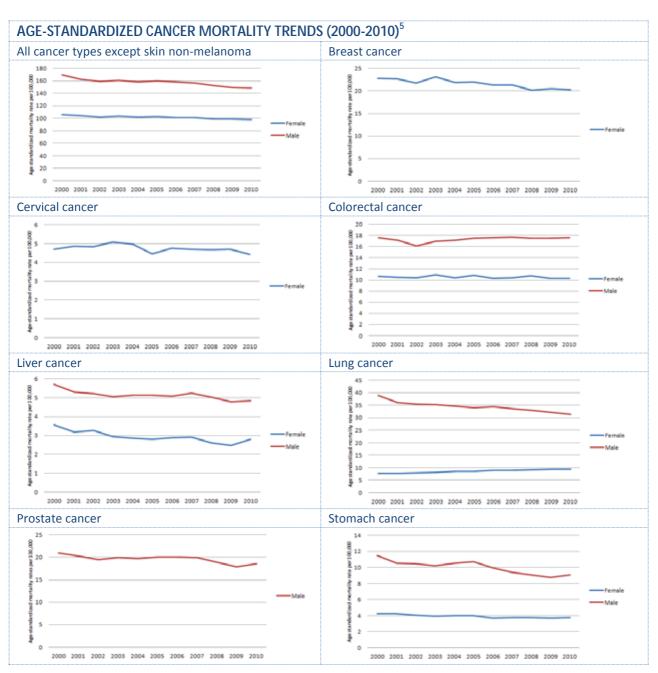
Adult literacy rate: 97.7%

Gross National Income US\$ per capita: 7,550

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	23.0	30.0	16.0
Adolescent tobacco smokers ²	24.1	22.7	25.4
Fruit and vegetable intake in adults ^{1,b}	4.6	4.1	5.0
Alcohol consumers, past 12 months ³	82.5	93.7	72.3
Low physical activity in adults ^{1,c}	54.5	52.2	56.5
Obesity among adults (BMI ≥30) ¹	20.5	22.0	19.0
HPV prevalence (women with normal cytology) ⁴			20.1







Cancer type	Sex	Number of deaths (2010)	ASMR (2010)	AAPC
All cancer types	Male	30,365	148.02	-1.08*
	Female	27,094	97.98	-0.67*
Breast cancer		5,446	20.30	-1.27*
Cervical cancer		980	4.43	-0.68
Colorectal cancer	Male	3,623	17.60	0.4
	Female	3,127	10.34	-0.20
Liver cancer	Male	992	4.83	-1.17*
	Female	817	2.81	-2.63*
Lung cancer	Male	6,394	31.30	-1.68*
	Female	2,540	9.45	2.32*
Prostate cancer		3,903	18.63	-1.05*
Stomach cancer	Male	1,849	9.04	-2.1*
	Female	1,056	3.73	-1.46*

CANCER PLANS AND CANCE	ER REGISTRATION ⁶	
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Yes	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	2009	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	Yes	
First year of implementation	2010	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	National and subnational	
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2012	

CANCER PRIMARY PREVENTION POLICIES		
Tobacco control ²		
Smoke free environments?	Yes, all public spaces are completely smoke free	
Raised taxes on tobacco?	Yes, 68% of retail price is tax	
Health warning labels about the dangers of tobacco?	Yes, large graphic labels on packs with all appropriate characteristics	
Bans on tobacco advertising, promotion and sponsorship?	Yes, ban on television, radio and print media and some but not all forms of direct and/or indirect advertising	
Overweight and obesity prevention and control ⁶		
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2012)	
Harmful use of alcohol prevention and control ⁶		
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2011)	
HPV vaccination in national immunization program? ⁷	Yes	
Year of introduction/Target age group/Delivery strategy	2011/Girls aged 11 years old/Mixed	
Estimated 3-dose coverage (calendar year)		
HBV vaccination in national immunization program?8	Yes	
Year of introduction/Target age group	1997/Newborn-2m-4m-6m; school children aged 11 years	
Estimated 3-dose coverage (2012)	91%	

CANCER SC	REENING
Cervical Cancer	
Guidelines ⁹	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/35-64 years of age/every 3 years after 2 consecutive negative annual Pap Tests HPV testing + triage with Pap test /30-64 years of age/every 3 years
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors
Screening coverage ¹	60.5% of women aged 25-64 years have had a Pap test within the last 3 years

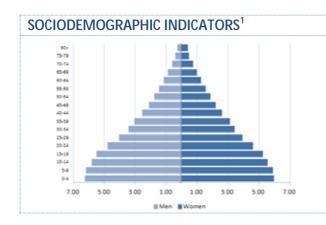
CANCER SCREENING		
Breast Cancer		
Guidelines ¹⁰		
Are there breast cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Clinical breast examination/40-50 years of age/annual Screening mammography/50-70 years of age/every 2 years	
Availability and coverage of screening services		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally available in the public and the private sectors	
Screening coverage ¹¹	46.3% of women aged 50-70 years had a mammogram within the last two years (2005)	
Colorectal Cancer		
Guidelines ¹²		
Are there colorectal cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	FOB followed by colonoscopy of positives /general population aged 50-74 years/annual Colonoscopy / in high risk groups /according to risk evaluation	
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors	
Exam or colonoscopy ⁶	Generally available in the public and the private sectors	
Screening coverage		

CAN	CER TREATMEN	T AND PALLIATIVE CARE
Radiotherapy ¹³		Oral Morphine ⁶
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally available
Total energy teletherapy units/million inhabitants	2.8	Covered by health insurance or publically funded? Yes
Total radiotherapy centers	80	Appears in the national list of essential medicines? Yes
Radiation oncologists	176	Opioid consumption ¹⁴
Medical physicists	98	Total morphine equivalence, per capita 13.07
Chemotherapy ⁶		Community/home care available? ⁶
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available

Notes:: Information not available; N/A: Not applicable; m: months; FOB: Feacal occult blood test.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}\ .$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas of the American Reported Coverage in the American Reported C
- (9) Ministry of Health of Argentina. Guía programática abreviada para la prevención del cáncer cérvico uterino. Programa Nacional de Cáncer Cérvico Uterino, retrieved August 28, 2013 from http://bit.ly/13T1mL2; Ministry of Health of Argentina. Prevención del cáncer cervicouterino: Recomendaciones para el tamizaje, seguimiento y tratamiento de mujeres para la prevención del cancer cérvicouterino en el marco de la incorporación de la prueba de VPH, retrieved August 28, 2013 from http://bit.ly/18vq0a5.
- (10) Ministry of Health of Argentina. El cáncer de mama en 8 palabras. Una guía breve para Atención Primaria de la Salud, retrieved August 28, 2013 from http://bit.ly/13Tm65o.
- (11) Ministry of Health of Argentina. Cáncer de mama en Argentina: organización, cobertura y calidad de las acciones de prevención y control, retrieved August 28, 2013 from: http://bit.ly/1bdvNpm.
- (12) Ministry of Health of Argentina. Guía para Equipos de Atención Primaria de la Salud. Información para la prevención y la detección temprana del cáncer colorrectal, retrieved August 28, 2013 from http://bit.ly/1dQ9l1p.
- (13) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (14) 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.

BOLIVIA



Total population: 10,088,100

Average annual deaths: 72,900

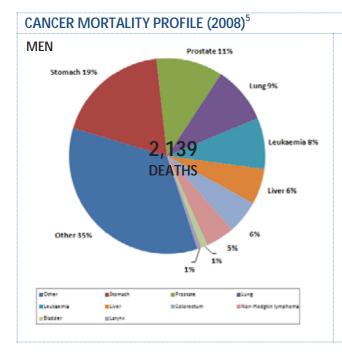
Life expectancy at birth (years):

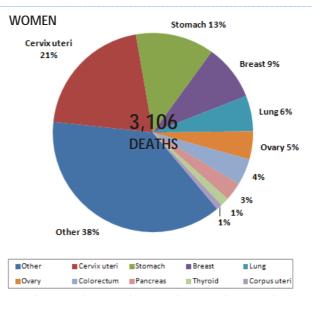
Total: 67 Male: 65 Female: 69

Adult literacy rate: 90.7%

Gross National Income US\$ per capita: 1,630

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	30.0	42.0	18.0
Adolescent tobacco smokers ²	18.7	20.9	16.4
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	59.9	65.0	55.0
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	18.9	10.0	27.1
HPV prevalence (women with normal cytology) ⁴			





CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Yes	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	2010	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	Yes	
First year of implementation	2009	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	National	
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2011	

CANCER PRIMARY PREVEI	NTION POLICIES
Tobacco control ²	
Smoke free environments?	3 to 5 public spaces completely smoke-free
Raised taxes on tobacco?	26-50% of retail price is tax
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics
Bans on tobacco advertising, promotion and sponsorship?	Ban on television, radio and print media an some but not all forms of direct and/or indirect advertising
Overweight and obesity prevention and control ⁶	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No
Harmful use of alcohol prevention and control ⁶	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2007)
HPV vaccination in national immunization program? ⁷	No
Year of introduction/Target age group/Delivery strategy	N/A
Estimated 3-dose coverage (calendar year)	N/A
HBV vaccination in national immunization program? ⁸	Yes
Year of introduction/Target age group	2000/2m-4m-6m
Estimated 3-dose coverage (2012)	80%

CANCER SC	REENING
Cervical Cancer	
Guidelines ⁹	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/women aged 25-64 years/every 3 years, following two consecutive annual normal tests VIA/women aged 25-64 years/ every 3 years, following two consecutive annual normal tests
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid (VIA) ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage ⁹	12% for Pap test (information not available for VIA)

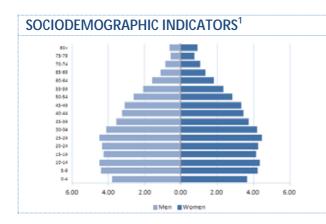
CANCER SCREENING					
Breast Cancer					
Guidelines ¹⁰					
Are there breast cancer screening guidelines available?					
Guideline recommendations (Tests/Age groups/Frequency)	Breast self examination/women 25-64 years of age				
Availability and coverage of screening services	. i				
Clinical Breast Examination ⁶	Generally available in the public and the private sectors				
Mammography ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector				
Screening coverage					
Colorectal Cancer					
Guidelines					
Are there colorectal cancer screening guidelines available?					
Guideline recommendations (Tests/Age groups/Frequency)					
Availability and coverage of screening services	·*				
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors				
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector				
Screening coverage					

CAN	CER TREATMEI	NT AND PALLIATIVE CARE		
Radiotherapy ¹¹		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector?	Generally available	
Total energy teletherapy units/million inhabitants	0.6	Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	5	Appears in the national list of essential medicines?	N/A	
Radiation oncologists	11	Opioid consumption ¹²		
Medical physicists	5	Total morphine equivalence, per capita		
Chemotherapy ⁶		Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available	

 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months; \ VIA: \ Visual \ Inspection \ with \ Acetic \ Acid.$

- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Year of introduction-- Country Reports to PAHO/WHO; Schedules--PAHO/WHO Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Coverage--PAHO/WHO Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (9) PAHO. Cervical cancer prevention and control programs: A rapid assessment in 12 countries of Latin America. Washington D.C.: PAHO, 2010.
- (10) Ministry of Health and Sport of Bolivia. Plan nacional de prevención, control y seguimiento de cáncer de mama, 2009-2015, retrieved August 28,2013 from http://bit.ly/1728SJj.
- (11) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (12) 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.

BRAZIL



Total population: 196,655,000

Average annual deaths: 1,261,100

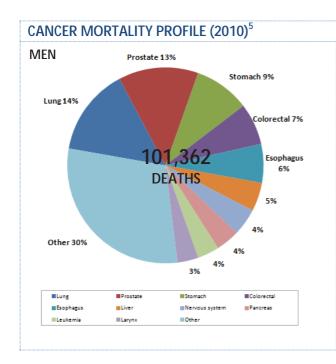
Life expectancy at birth (years):

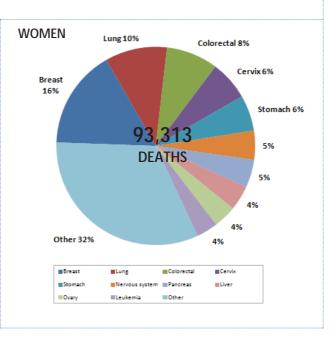
Total: 74 Male: 70 Female: 77

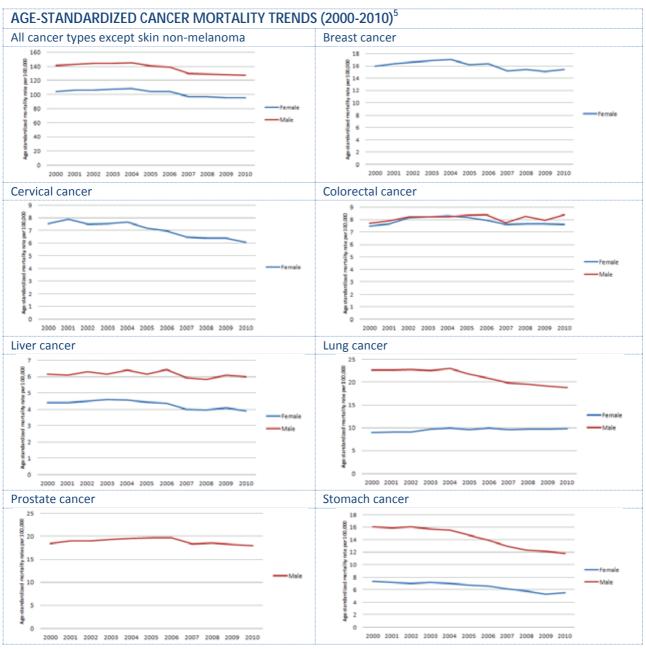
Adult literacy rate: 90%

Gross National Income US\$ per capita: 8,070

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	17.0	22.0	13.0
Adolescent tobacco smokers ²	7.6	7.9	7.3
Fruit and vegetable intake in adults ^{1,b}	18.8	16.0	21.3
Alcohol consumers, past 12 months ³	49.5	58.2	41.2
Low physical activity in adults ^{1,c}	12.1	14.7	9.9
Obesity among adults (BMI ≥30) ¹	16.9	16.7	18.1
HPV prevalence (women with normal cytology) ⁴			14.1







Cancer type	Sex	Number of deaths	ASMR (2010)	AAPC
All cancer types	Male	101,362	127.71	-1.5*
	Female	93,313	95.74	-1.3*
Breast cancer		15,087	15.39	-1.0
Cervical cancer		6,006	6.08	-2.53*
Colorectal cancer	Male	6,963	8.81	0.31
	Female	7,860	8.03	-0.3
Liver cancer	Male	4,786	6.00	-0.37
	Female	3,786	3.91	-1.5*
Lung cancer	Male	14,664	18.85	-2.0*
	Female	9,418	9.80	0.7
Prostate cancer		13,369	17.98	-0.6
Stomach cancer	Male	9,321	11.81	-3.3
	Female	5,447	5.57	-3.18*

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	No	
Is cancer included in the overall NCD plan?	N/A	
First year of implementation	N/A	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	Yes	
First year of implementation	2005	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	Subnational	
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2008	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Yes, all public spaces are completely smoke free		
Raised taxes on tobacco?	Yes, 51-75% of retail price is tax		
Health warning labels about the dangers of tobacco?	Yes, large graphic labels on packs with all appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Ban on all forms of direct and indirect advertising		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	Yes, from 2014		
Year of introduction/Target age group/Delivery strategy	2014/girls aged 10-11 years/Mixed		
Estimated 3-dose coverage (calendar year)			
HBV vaccination in national immunization program? ⁸	Yes		
Year of introduction/Target age group	1998/NB-1m-6m		
Estimated 3-dose coverage (2012)	97%		

CANCER SCREENING	
Cervical Cancer	
Guidelines ⁹	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/25-64 years of age/every 3 years, following 2 consecutive normal Pap tests done annually
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors
Screening coverage ¹⁰	79.3% of target population (2008)

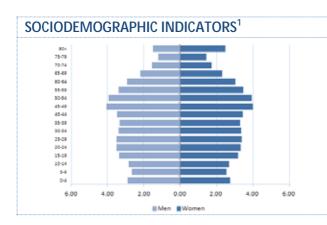
CANCER SCREENING		
Breast Cancer		
Guidelines ¹¹		
Are there breast cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Breast clinical examination/40-69 years of age/annual Mammography screening/50-69 years of age/every 2 years In women with family history of breast cancer (high risk women), mammography screening every year starting at aged 35 years of age	
Availability and coverage of screening services		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally available in the public and the private sectors	
Screening coverage ¹²	Unknown, but nationally 50% of women older than 50 years have had at least one mammogram.	
Colorectal Cancer		
Guidelines ¹³		
Are there colorectal cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)	Faecal occult blood test/50 years of age or older/annual	
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors	
Exam or colonoscopy ⁶	Generally available in the public and the private sectors	
Screening coverage		

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹⁴		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally available		
Total energy teletherapy units/million inhabitants	1.8	Covered by health insurance or publically funded? Yes		
Total radiotherapy centers	222	Appears in the national list of essential medicines?		
Radiation oncologists	391	Opioid consumption ¹⁵		
Medical physicists	256	Total morphine equivalence, per capita 11.72		
Chemotherapy ⁶		Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available		

Notes: ...: Information not available; N/A: Not applicable; NB: Newborn; m: months.

- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- $\textbf{(3)} \ \ \text{WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from } \underline{\text{http://bit.ly/17zhuqZ}}.$
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- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Network of National Cancer Institutes of the South American Union (RINC/UNASUR). Newsletter, retrieved August 28,2013 from http://bit.ly/155SWoO
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- (11) Ministry of Health of Brazil. Deteccao precoce do cancer de mama, 2012, retrieved August 28,2013 from http://bit.ly/14yB6as.
- (12) Lee BL, et al. Breast cancer in Brazil: present status and future goals. Lancet Oncol. 2012 Mar;13(3):e95-102.
- (13) Ministry of Health of Brazil. Deteccao precoce cancer colorretal, retrieved August 28,2013 from: http://bit.ly/19vyluv.
- (14) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (15) 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.

CHILE



Total population: 17,269,500

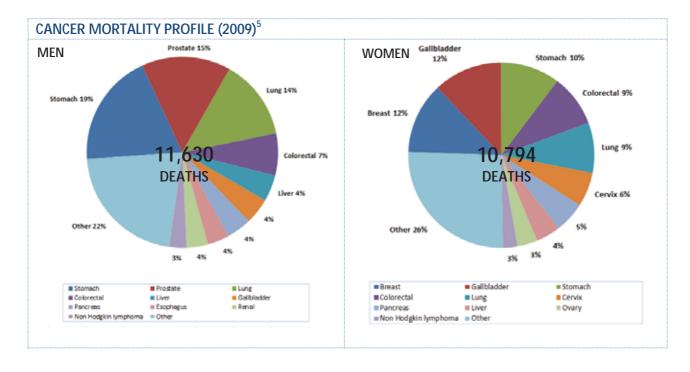
Average annual deaths: 98,200

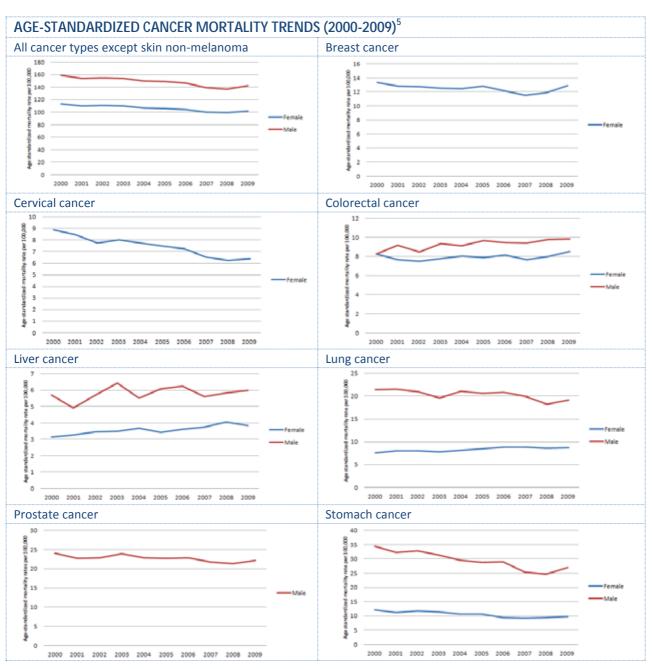
Life expectancy at birth (years):
 Total: 79 Male: 76 Female: 82

Adult literacy rate: 98.6

Gross National Income US\$ per capita: 9,470

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	41.0	44.0	38.0
Adolescent tobacco smokers ²	35.1	29.8	39.8
Fruit and vegetable intake in adults ^{1,b}	15.8	13.6	17.9
Alcohol consumers, past 12 months ³	67.6	75.3	60.2
Low physical activity in adults ^{1,c}	75.4	79.1	71.8
Obesity among adults (BMI ≥30) ¹	28.7	21.8	35.5
HPV prevalence (women with normal cytology) ⁴			11.2





Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	11,630	143.41	-1.48*
	Female	10,794	102.26	-1.40*
Breast cancer		1,338	12,92	-0.83
Cervical cancer		646	6,38	-3.76*
Colorectal cancer	Male	829	10.25	1.54*
	Female	977	8.92	0.46
Liver cancer	Male	518	6.40	0.92
	Female	461	4.24	2.06*
Lung cancer	Male	1,585	19.56	-1.35*
	Female	947	9.07	1.47*
Prostate cancer		1,753	22,11	-0.97*
Stomach cancer	Male	2,235	27.49	-3.29*
	Female	1,115	10.16	-2.81*

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Yes	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	2012	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	Yes	
First year of implementation	2005	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	Subnational	
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2011	

CANCER PRIMARY PREVENTION POLICIES		
Tobacco control ²		
Smoke free environments?	3 to 5 types of public spaces completely smoke-free	
Raised taxes on tobacco?	81% of retail price is tax	
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics	
Bans on tobacco advertising, promotion and sponsorship?	Ban on television, radio and print media an some but not all forms of direct and/or indirect advertising	
Overweight and obesity prevention and control ⁶		
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2011)	
Harmful use of alcohol prevention and control ⁶		
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2010)	
HPV vaccination in national immunization program? ⁷	No	
Year of introduction/Target age group/Delivery strategy	N/A	
Estimated 3-dose coverage (calendar year)	N/A	
HBV vaccination in national immunization program? ⁷	Yes	
Year of introduction/Target age group	1996/2m-4m-6m	
Estimated 3-dose coverage (2012)	90%	

CANCER SCREENING		
Cervical Cancer		
Guidelines ⁸		
Are there cervical cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/women aged 25-64 years/every 3 years	
Availability and coverage of screening services		
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors	
Screening coverage ⁹	60% women aged 25-64 years with a Pap test in the past 3 years (2011)	

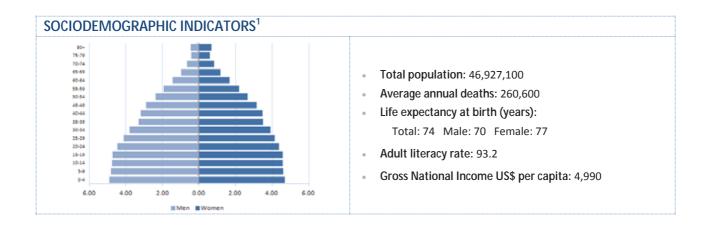
CANCER SCREENING		
Breast Cancer		
Guidelines ¹⁰		
Are there breast cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Mammography/women 50-74 years of age/every 2 years	
Availability and coverage of screening services		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally available in the public and the private sectors	
Screening coverage ¹¹	31.8% women aged 50 years (public sector, 2006-2008)	
Colorectal Cancer		
Guidelines ¹²		
Are there colorectal cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Faecal occult blood test/50 years of age or older/annual	
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors	
Exam or colonoscopy ⁶	Generally available in the public and the private sectors	
Screening coverage		

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹³		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally available		
Total energy teletherapy units/million inhabitants	2.9	Covered by health insurance or publically funded? Yes		
Total radiotherapy centers	27	Appears in the national list of essential medicines? Yes		
Radiation oncologists 55		Opioid consumption ¹⁴		
Medical physicists	16	Total morphine equivalence, per capita 11.28		
Chemotherapy ⁶		Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available		

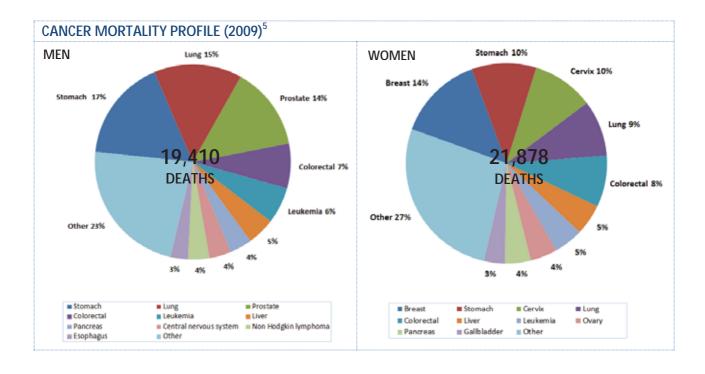
Notes: ...: Information not available; N/A: Not applicable; m: months.

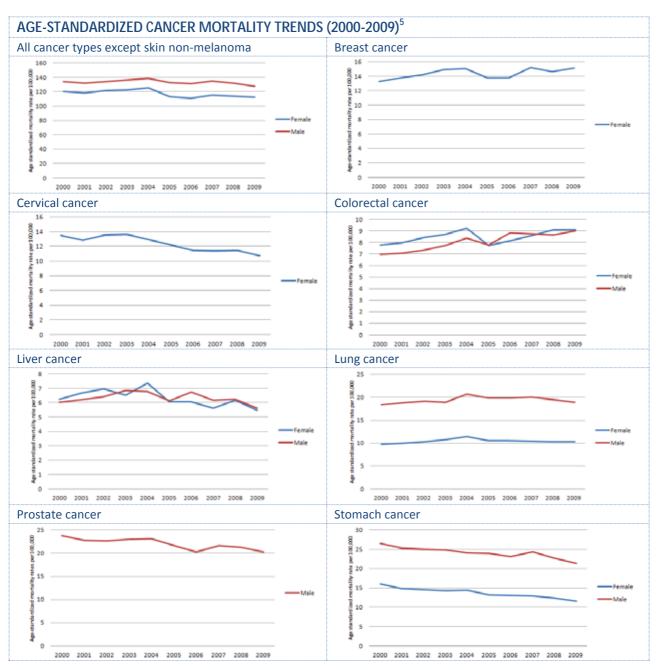
- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (8) Ministry of Health of Chile. Guía Clínica Cáncer Cervicouterino. Gobierno de Chile, 2010, retrieved August 28, 2013 from: http://bit.ly/19vPmFd.
- (9) Network of National Cancer Institutes of the South American Union (RINC/UNASUR). Informe preliminar reducido sobre la situación del control del cáncer de cuello uterino en 8 países de Latinoamérica. 2012
- (10) Ministry of Health of Chile. Guía clínica cancer de mama. Ministerio de salud, 2010, retrieved August 28, 2013 from http://bit.ly/14YD8H8.
- (11) Ministry of Health of Chile. Programa nacional de cáncer de mama Chile, 1995-2009. Taller internacional de tamizaje de cáncer de mama, 2009, retrieved August 28, 2013 from http://bit.ly/19vSJMk.
- (12) Ministry of Health of Chile. Guía Clínica AUGE. Cáncer colorectal en personas de 15 años y más. Series Guías Clínicas MINSAL 2013. Gobierno de Chile, retrieved August 28, 2013 from http://bit.ly/1dq1DxH.
- (13) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (14) 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.

COLOMBIA



RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	18.0	31.0	5.0
Adolescent tobacco smokers ²	27.0	27.6	27.8
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	80.6	86.3	75.3
Low physical activity in adults ^{1,c}	79		
Obesity among adults (BMI ≥30) ¹	12.8	19.5	7.4
HPV prevalence (women with normal cytology) ⁴			15.9





Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	19,410	128.31	-0.31
	Female	21,878	113.0	-0.93*
Breast cancer		3,030	15,18	1.00
Cervical cancer		2,169	10,75	-2.56*
Colorectal cancer	Male	1,441	9.39	2.88*
	Female	1,809	9.52	1.23
Liver cancer	Male	890	6.01	-0.56
	Female	1,096	5.86	-1.82*
Lung cancer	Male	2,820	19.28	0.51
	Female	1,981	10.69	0.5*
Prostate cancer		2,684	20,30	1.56*
Stomach cancer	Male	3,287	21.76	-1.81*
	Female	2,275	11.92	-3.06*

CANCER PLANS AND CANCER REGISTRATION ⁶			
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan?	Yes		
Is cancer included in the overall NCD plan?	Yes		
First year of implementation 2011			
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan?	Yes		
First year of implementation	2013		
Cancer registry			
Is there a Cancer registry?	Yes		
Scope (National vs. Subnational)?	Both		
Type of registry (Population vs. hospital based)?	Hospital based		
Last year with available data	2008		

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	All public spaces are completely smoke free		
Raised taxes on tobacco?	44% of retail price is tax		
Health warning labels about the dangers of tobacco?	Medium size warnings with all appropriate characteristics or large warning missing some appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Ban on all forms of direct and indirect advertising		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2011)		
HPV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group/Delivery strategy	2012/4 th grade school girls aged 9 years or older*/Schools*		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁸			
Year of introduction/Target age group	1994/Newborn-2m-4m-6m; risk groups		
Estimated 3-dose coverage (2012)	92%		

Note: 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.

CANCER SCI	REENING
Cervical Cancer	
Guidelines ^{9,10}	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/21-69 years of age/every 3 years after 2 consecutive normal annual Pap tests HPV test/30-65 years of age/every 5 years VIA/30-50 years of age/every 3 years
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors
Screening coverage ¹⁰	79% women aged 25-69 with a Pap test in 2010

CANCER SCREENING		
Breast Cancer		
Guidelines ¹¹		
Are there breast cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	CBE/women aged 30 years or older/Annual Mammography/every 2 years in women aged 40-50 years/annual in women aged 50 years and older	
Availability and coverage of screening services		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally available in the public and the private sectors	
Screening coverage ¹²	34.2% CBE (2009); 54% mammography (2009)*	
Colorectal Cancer		
Guidelines ¹³		
Are there colorectal cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Faecal occult blood test/ 50 years and older/every 2 years	
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors	
Exam or colonoscopy ⁶	Generally available in the public and the private sectors	
Screening coverage		

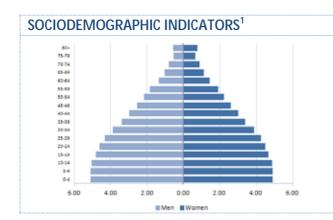
Note: * Coverage data for Bogota D.C. and neighboring municipalities, based on a telephone survey

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹⁴		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally available		
Total energy teletherapy units/million inhabitants	1.4	Covered by health insurance or publically funded? Yes		
Total radiotherapy centers	44	Appears in the national list of essential medicines? Yes		
Radiation oncologists	87	Opioid consumption ¹⁵		
Medical physicists	49	Total morphine equivalence, per capita 6.74		
Chemotherapy ⁶		Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available		

Notes: ...: Information not available; N/A: Not applicable; m: months; CBE: Clinical Breast Examination.

- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
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- (7) Pediatric Society of Colombia. Pediavoz. Boletín informativo de la Sociedad Colombiana de Pediatría. Julio 2012, retrieved August 28, 2013 from http://bit.ly/XDpO6U.
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- (9) Recomendaciones para la tamización de neoplasias del cuello uterino en mujeres sin antecedentes de patología cervical (preinvasora o invasora) en Colombia. Guías de práctica clínica (No.3). Available from: http://bit.ly/1c/xDv2.
- (10) Network of National Cancer Institutes of the South American Union (RINC/UNASUR). Informe preliminar reducido sobre la situación del control del cáncer de cuello uterino en 8 países de Latinoamérica. 2012
- (11) National Cancer Institute of Colombia. Recomendaciones para la tamización y la detección temprana del cáncer de mama en Colombia. Bogotá: INC, 2006, retrieved August 28, 2013 from http://bit.ly/12mNOLM.
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- (13) National Cancer Institute of Colombia. Guía de práctica clínica explícita basada en la evidencia de tamización de cáncer colorrectal para Colombia. 201, retrieved August 28,2013 from http://bit.ly/14TX7Ql.
- (14) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (15) 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.

ECUADOR



Total population: 14,757,300

• Average annual deaths: 74,500

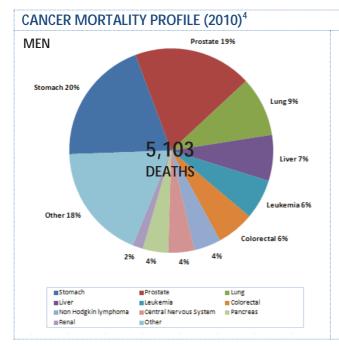
Life expectancy at birth (years):

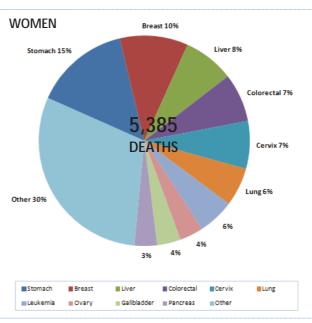
Total: 76 Male: 73 Female: 79

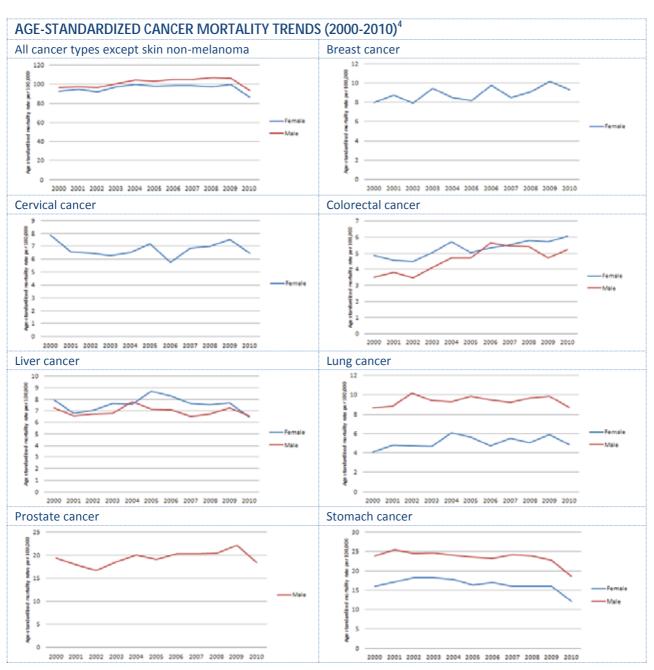
Adult literacy rate: 84.2%

Gross National Income US\$ per capita: 3,970

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}			•••
Adolescent tobacco smokers ²	28.6	31.2	26.1
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	31.4	43.6	19.4
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	22.0	15.7	28.2
HPV prevalence (women with normal cytology)			







Cancer type	Sex	Number of deaths (2010)	ASMR (2010)	AAPC
All cancer types	Male	5,103	93.96	-0.2
	Female	5,385	87.03	0.02
Breast cancer		564	9.29	1.56*
Cervical cancer		395	6.49	-0.12
Colorectal cancer	Male	302	5.63	4.20*
	Female	401	6.47	2.49*
Liver cancer	Male	372	6.97	-0.22
	Female	420	6.84	-0.26
Lung cancer	Male	483	9.11	0.26
	Female	319	5.24	1.67
Prostate cancer		956	18.51	1.29
Stomach cancer	Male	1,014	18.94	1.66*
	Female	785	12.59	2.11*

CANCER PLANS AND CANCER REGISTRATION ⁵			
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan?	Yes		
Is cancer included in the overall NCD plan?	Yes		
First year of implementation 2013			
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan?	Under development		
First year of implementation	N/A		
Cancer registry			
Is there a Cancer registry?	Yes		
Scope (National vs. Subnational)?	Subnational		
Type of registry (Population vs. hospital based)?	Hospital-based		
Last year with available data	2010		

CANCER PRIMARY PREVEN	ITION POLICIES
Tobacco control ²	
Smoke free environments?	All public spaces completely smoke-free
Raised taxes on tobacco?	73% of retail price is tax
Health warning labels about the dangers of tobacco?	Large warning with all appropriate characteristics
Bans on tobacco advertising, promotion and sponsorship?	Yes, ban on television, radio and print media and some but not all forms of direct and/or indirect advertising
Overweight and obesity prevention and control ⁵	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development
Harmful use of alcohol prevention and control ⁵	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Yes (2013)
HPV vaccination in national immunization program?	No
Year of introduction/Target age group/Delivery strategy	N/A
Estimated 3-dose coverage (calendar year)	N/A
HBV vaccination in national immunization program? ⁶	Yes
Year of introduction/Target age group	1999/Newborn-2m-4m-6m; school children aged 11 years; health workers; risk groups
Estimated 3-dose coverage (2012)	100%*

Note: *Reported coverage >100%.

CANCER SCI	REENING
Cervical Cancer	
Guidelines	
Are there cervical cancer screening guidelines available?	Under development
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	·
Cervical cytology⁵	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁵	Generally <u>not</u> available in the public sector/Information not available for the private sector
Screening coverage ⁷	64.3% women aged 15 to 49 screened at least once (2004)

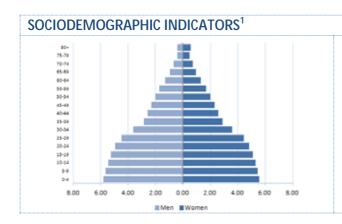
CANC	ER SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	Under development
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁵	Generally available in the public and the private sectors
Mammography ⁵	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	No
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁵	Generally available in the public and the private sectors
Exam or colonoscopy ⁵	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	

CAN	CER TREATMEN	IT AND PALLIATIVE CARE		
Radiotherapy ¹³		Oral Morphine ⁵		
Availability of services? ⁵	Generally available	Availability in the public health sector?	Generally <u>not</u> available	
Total energy teletherapy units/million inhabitants	1.01	Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	10	Appears in the national list of essential medicines?	Yes	
Radiation oncologists	24	Opioid consumption ⁹		
Medical physicists	12	Total morphine equivalence, per capita	1.51	
Chemotherapy ⁵	***************************************	Community/home care available? ⁵		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available	

Notes:: Information not available; N/A: Not applicable; m: months; FOB: Feacal occult blood test.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C., USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C., USA, 2013.
- $\textbf{(3)} \ \ \text{WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from $\underline{\text{http://bit.ly/17zhuqZ}}$.}$
- (4) PAHO/WHO Mortality Database, 2012.
- (5) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (6) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas of the American Reported Coverage in the American Reported C
- (7) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
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- (9) 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.

PARAGUAY



Total population: 6,568,300

Average annual deaths: 36,100

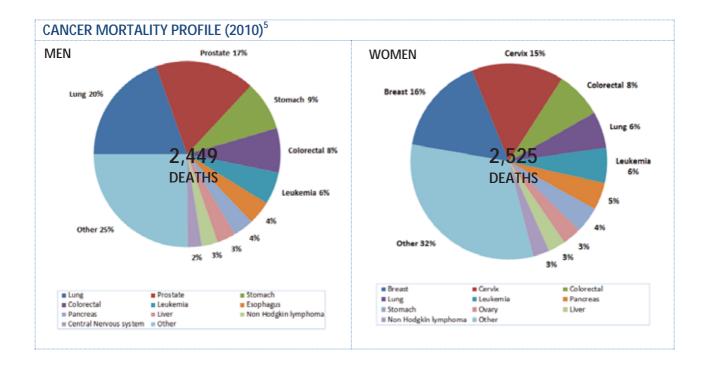
Life expectancy at birth (years):

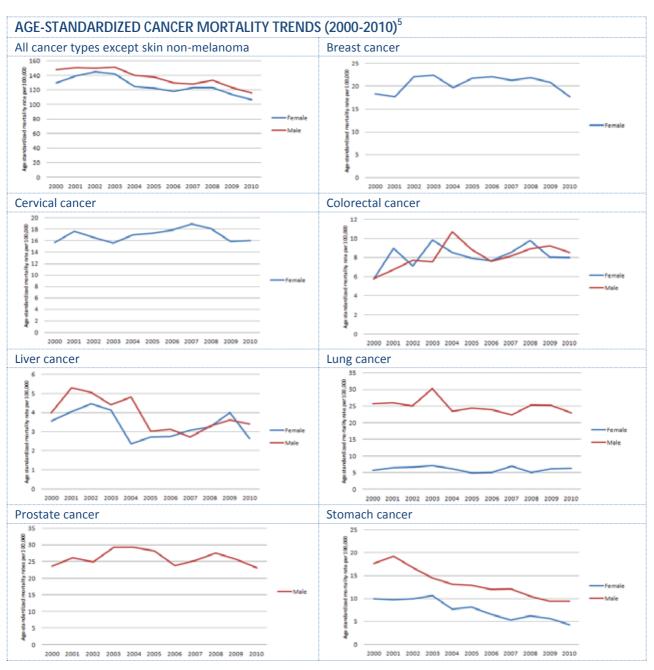
Total: 73 Male: 71 Female: 75

Adult literacy rate: 94.6%

Gross National Income US\$ per capita: 2,250

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	19.0	30.0	8.0
Adolescent tobacco smokers ²	16.7	20.8	12.9
Fruit and vegetable intake in adults ^{1,b}	6.3	10.7	9.2
Alcohol consumers, past 12 months ³	61.7	73.5	49.8
Low physical activity in adults ^{1,c}	23.9	19.0	28.4
Obesity among adults (BMI ≥30) ¹	28.5	25.4	31.3
HPV prevalence (women with normal cytology) ⁴			19.8





Cancer type	Sex	Number of deaths (2010)	ASMR (2010)	AAPC
All cancer types	Male	2,449	116.65	-2.5*
	Female	2,525	106.92	-2.9*
Breast cancer		407	17.64	0.41
Cervical cancer		383	16.04	0.34
Colorectal cancer	Male	188	8.94	3.02*
	Female	194	8.37	1.49
Liver cancer	Male	80	3.80	-4.06*
	Female	72	3.03	-2.39
Lung cancer	Male	480	23.44	-1.08
	Female	152	6.80	-0.58
Prostate cancer		424	23.18	-0.30
Stomach cancer	Male	210	9.83	-6.70*
	Female	108	4.74	-7.69*

CANCER PLANS AND CANC	ER REGISTRATION ⁶
National integrated NCD policy, strategy or action plan	
Is there a national integrated NCD policy, strategy or action plan?	Yes
Is cancer included in the overall NCD plan?	No
First year of implementation	2008
Cancer policy, strategy or action plan	
Is there a Cancer policy, strategy or action plan?	Yes
First year of implementation	2008
Cancer registry	
Is there a Cancer registry?	No
Scope (National vs. Subnational)?	N/A
Type of registry (Population vs. hospital based)?	N/A
Last year with available data	N/A

Note: N/A: Not applicable

CANCER PRIMARY PREVE	NTION POLICIES
Tobacco control ²	
Smoke free environments?	Up to two types of public places completely smoke-free
Raised taxes on tobacco?	17% of retail price is tax
Health warning labels about the dangers of tobacco?	No warning or small warnings
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media
Overweight and obesity prevention and control ⁶	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No
Harmful use of alcohol prevention and control ⁶	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No
HPV vaccination in national immunization program? ⁷	Yes
Year of introduction/Target age group/Delivery strategy	2013/girls aged 10-11 years/schools
Estimated 3-dose coverage (calendar year)	
HBV vaccination in national immunization program? ⁸	Yes
Year of introduction/Target age group	2002/2m-4m-6m
Estimated 3-dose coverage (2012)	74%

CANCER SCR	EENING
Cervical Cancer	
Guidelines ⁹	
Are there cervical cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/25-49 years of age/every 3 years after 3 consecutive negative annual Pap tests
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors
Screening coverage	

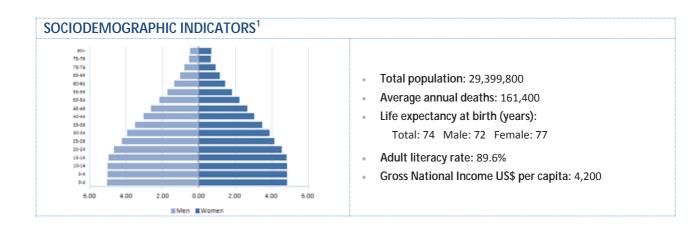
CANCE	R SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	···
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally <u>not</u> available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	···
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally <u>not</u> available in the public and the private sectors
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public and the private sectors
Screening coverage	

CAN	CER TREATMEN	T AND PALLIATIVE CARE	
Radiotherapy ¹⁰		Oral Morphine ⁶	
Availability of services? ⁶	Generally <u>not</u> available	Availability in the public health sector?	Generally <u>not</u> available
Total energy teletherapy units/million inhabitants	0.76	Covered by health insurance or publically funded?	Yes
Total radiotherapy centers	3	Appears in the national list of essential medicines?	DK
Radiation oncologists	7	Opioid consumption ¹¹	
Medical physicists	4	Total morphine equivalence, per capita	•••
Chemotherapy ⁶	Å	Community/home care available? ⁶	
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available

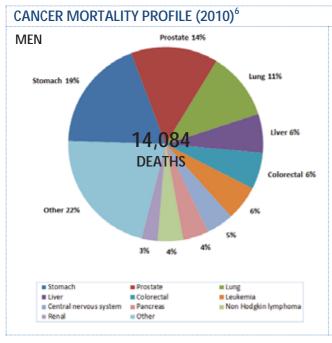
Notes: ...: Information not available; N/A: Not applicable; m: months.

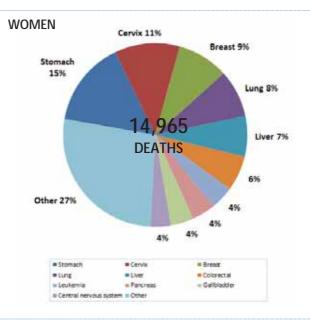
- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}\ .$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Ministry of Education and Culture of Paraguay, retrieved August 28, 2013 from http://bit.ly/12sR0Wq.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013, from <a href="http:/
- (9) Ministry of Health of Paraguay. Manual nacional de normas y procedimientos para la prevención y el control del cáncer cervicouterino. República del Paraguay. 2010, retrieved August 28, 2013 from: https://bit.ly/15dNgJg.
- (10) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (11) 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.

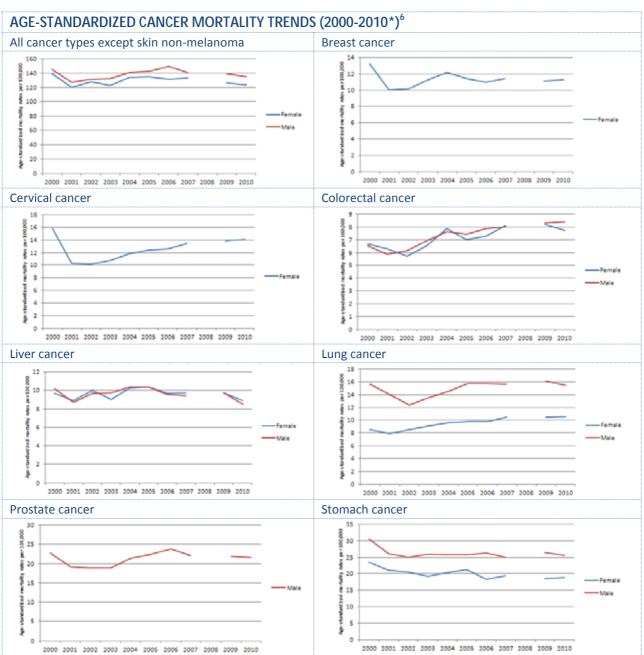
PERU



Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	13.3	19.7	7.8
Adolescent tobacco smokers ³	19.4	21.5	16.5
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ⁴	69.0	80.3	57.9
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	16.5	11.1	21.7
HPV prevalence (women with normal cytology) ⁵			7.5







Note: * Data was not available to PAHO for 2008.

Average ani	nual percent char	nge (AAPC) of age-standardized mo	rtality rates, by cancer type	e (2000-2010) ⁶
Cancer type	Sex	Number of deaths (2010)	ASMR (2010)	AAPC
All cancer types	Male	14,084	134.78	0.31
	Female	14,965	123.95	-0.21
Breast cancer		1,349	11.27	-0.13
Cervical cancer		1,707	14.16	0.2
Colorectal cancer	Male	859	8.42	3.54*
	Female	921	7.72	2.84*
Liver cancer	Male	908	8.49	-0.62
	Female	1,070	8.92	-0.09
Lung cancer	Male	1,583	15.50	0.0
	Female	1,252	10.54	2.79*
Prostate cancer		2,040	21.59	1.04
Stomach cancer	Male	2,632	25.64	-1.3*
	Female	2,261	18.93	-1.76*

CANCER PLANS AND CANCER REGISTRATION ⁷				
National integrated NCD policy, strategy or action plan				
Is there a national integrated NCD policy, strategy or action plan? No				
Is cancer included in the overall NCD plan?	N/A			
First year of implementation	N/A			
Cancer policy, strategy or action plan				
Is there a Cancer policy, strategy or action plan? Yes				
First year of implementation	2012			
Cancer registry				
Is there a Cancer registry?	Yes			
Scope (National vs. Subnational)?	National			
Type of registry (Population vs. hospital based)?	Hospital based			
Last year with available data	2010			

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ³			
Smoke free environments?	All public spaces are completely smoke free		
Raised taxes on tobacco?	42% of retail price is tax		
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁷			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2005)		
Harmful use of alcohol prevention and control ⁷			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁸	Yes		
Year of introduction/Target age group/Delivery strategy	2011/Girls aged 10 years/Schools		
Estimated 3-dose coverage (calendar year)			
HBV vaccination in national immunization program?9	Yes		
Year of introduction/Target age group	1998/Newborn-2m-4m-6m; risk groups		
Estimated 3-dose coverage (calendar year)	95%		

CANCER SCREENING		
Cervical Cancer		
Guidelines		
Are there cervical cancer screening guidelines available? 10	Yes	
Guideline recommendations (Tests/Age groups/Frequency) 11	Pap test/30-50 years of age/annual VIA/30-50 years of age/every 2 years HPV test/30-50 years of age/every 5 years	
Availability and coverage of screening services		
Cervical cytology ⁷	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁷	Generally <u>not</u> available in the public and the private sectors	
Screening coverage ⁷	51.3% (2009)	

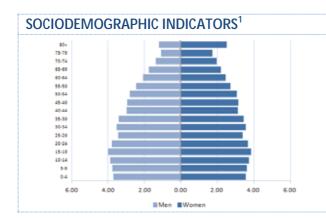
CANCE	ER SCREENING
Breast Cancer	
Guidelines ¹²	
Are there breast cancer screening guidelines available?	Yes
Guideline recommendations (Tests/Age groups/Frequency)	BSE/women aged 20 years and older Mammography/women aged 40 years and older
Availability and coverage of screening services	
Clinical Breast Examination ⁷	Generally <u>not</u> available in the public and the private sectors
Mammography ⁷	Generally <u>not</u> available in the public and the private sectors
Screening coverage ¹²	30% women aged 40 years and older with a mammogram
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	·
Faecal occult blood test or fecal immunological test ⁷	Generally <u>not</u> available in the public and the private sectors
Exam or colonoscopy ⁷	Generally <u>not</u> available in the public and the private sectors
Screening coverage	

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹³		Oral Morphine ⁷		
Availability of services? ⁷	Generally available	Availability in the public health sector?	Generally available	
Total energy teletherapy units/million inhabitants	1.2	Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	15	Appears in the national list of essential medicines?	Yes	
Radiation oncologists 47		Opioid consumption ¹⁴		
Medical physicists	29	Total morphine equivalence, per capita	1.78	
Chemotherapy ⁷		Community/home care available ⁷		
Availability of services?	Generally <u>not</u> available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available	

 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months; \ BSE: \ Breast \ self \ examination.$

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) WHO Report on the Global Tobacco Epidemic, 2013, retrieved August 28, 2013 from http://www.who.int/tobacco
- (3) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (4) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (5) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}$.
- (6) PAHO/WHO Mortality Database, 2012.
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- (10) Ministry of Health of Peru. Norma técnica oncológica para la prevención, detección y manejo de lesiones premalignas del cuello uterino a nivel nacional. 2007.
- (11) Network of National Cancer Institutes of the South American Union (RINC/UNASUR). Informe preliminar reducido sobre la situación del control del cáncer de cuello uterino en 8 países de Latinoamérica. 2012
- (12) González-Robledo L.M et al. Acciones gubernamentales para la detección temprana del cáncer de mama en América Latina. Retos a futuro. Salud Publica Mex 2010;52:533-543.
- (13) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (14) 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.

URUGUAY



Total population: 3,380,000

Average annual deaths: 31,300

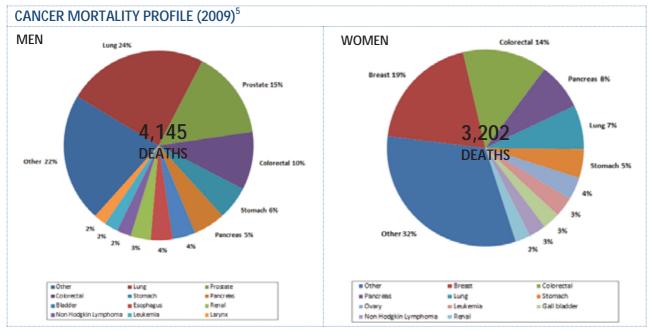
• Life expectancy at birth (years):

Total: 77 Male: 74 Female: 81

Adult literacy rate: 98.3%

Gross National Income US\$ per capita: 9,010

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	25.0	29.0	21.0
Adolescent tobacco smokers ²	23.2	21.4	24.5
Fruit and vegetable intake in adults ^{1,b}	15.1	14.9	15.1
Alcohol consumers, past 12 months ³	47.0	59.2	36.3
Low physical activity in adults ^{1,c}	35.1	29.0	40.7
Obesity among adults (BMI ≥30) ¹	19.9	19.4	20.5
HPV prevalence (women with normal cytology) ⁴			



^{*}Note: Cancer mortality data for Uruguay is only available to PAHO for 2000-2001, 2003-2004 and 2009, thus a mortality trend analysis was not possible.

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Yes	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	2005	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan? Yes		
First year of implementation	2006	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	National	
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2008	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	All public spaces are completely smoke free		
Raised taxes on tobacco?	69% of retail price is tax		
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Ban on national television, radio and print media and some but not all forms of direct and/or indirect advertising		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group/Delivery strategy	2013/girls aged 12 years/health care facilities		
Estimated 3-dose coverage (calendar year)			
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	1999/2m-4m-6m-15m; 12 years of age (3 doses, 0-1m-6m); health workers		
Estimated 3-dose coverage (calendar year)	95%		

CANCER SCREENING		
Cervical Cancer		
Guidelines ⁸		
Are there cervical cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Pap/30-64 years of age/Every 3 years	
Availability and coverage of screening services		
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector	
Screening coverage ⁹	55.2% of women aged 18-69 (2003)	

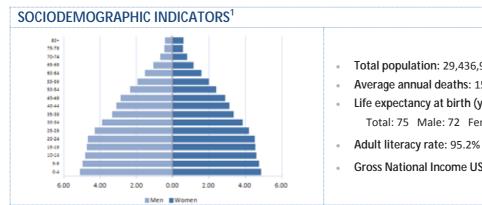
CANCER SCREENING		
Breast Cancer		
Guidelines ¹⁰		
Are there breast cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	CBE/women aged 20-39 years, every 3 years; women aged 40 years and older, annually Mammography/women aged 40 years and older/every 1-2 years	
Availability and coverage of screening services		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally available in the public and the private sectors	
Screening coverage		
Colorectal Cancer		
Guidelines ¹¹		
Are there colorectal cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors	
Exam or colonoscopy ⁶	Generally available in the public and the private sectors	
Screening coverage		

CAN	CER TREATMEI	NT AND PALLIATIVE CARE	
Radiotherapy ¹²		Oral Morphine ⁶	
Availability of services? ⁶	Generally available	Availability in the public health sector?	Generally available
Total energy teletherapy units/million inhabitants	5.3	Covered by health insurance or publically funded?	Yes
Total radiotherapy centers	10	Appears in the national list of essential medicines?	Yes
Radiation oncologists	45	Opioid consumption ¹³	
Medical physicists	10	Total morphine equivalence, per capita	5.86
Chemotherapy ⁶		Community/home care available? ⁶	
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available

 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months; \ CBE: \ Clinical \ Breast \ Examination.$

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.l
- (8) Programa de prevención de cáncer de cuello uterino en el Uruguay "Dr. Enrique Pouey". 2007. Available from: http://bit.ly/1dx67m4.
- (9) ICO Information Centre on Human Papilloma Virus (HPV) and Cancer, 2013. Available from: http://bit.ly/16ADEYL.
- (10) González-Robledo LM. Acciones gubernamentales para la detección temprana del cáncer de mama en América Latina. Retos a futuro. Salud Publica Mex 2010;52:533-543.
- (11) Plan nacional de prevención y detección precoz del cáncer colo-rectal. Ministerio de Salud Pública Uruguay. 2008
- (12) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (13) 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.

VENEZUELA



Total population: 29,436,900

Average annual deaths: 153,100

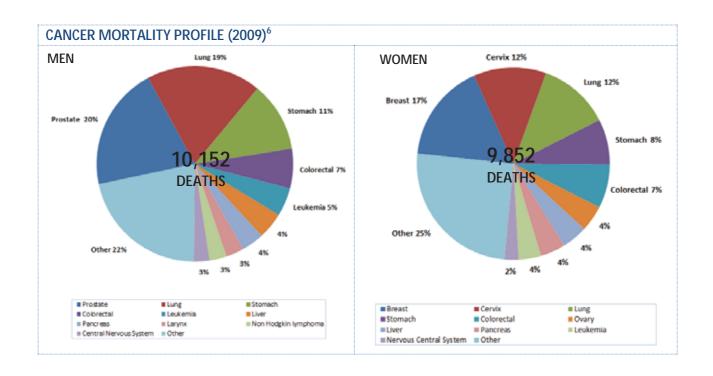
Life expectancy at birth (years):

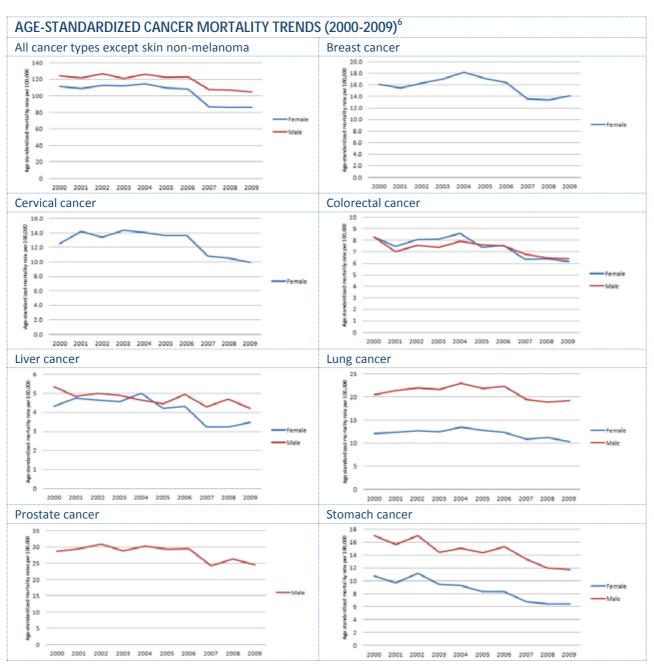
Total: 75 Male: 72 Female: 78

Gross National Income US\$ per capita: 10,090

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	21.5	28.9	14.4
Adolescent tobacco smokers ³	9.4	11.0	7.2
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ⁴			•••
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	30.8	26.6	34.8
HPV prevalence (women with normal cytology) ⁵			

Notes: a: current tobacco use in adults (18-65 years); b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.





Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	10.152	104.86	-2.0*
	Female	9.852	86.38	-3.1*
Breast cancer		1.643	14.12	-1.8
Cervical cancer		1.199	9.91	-3.1*
Colorectal cancer	Male	655	6.79	-1.94*
	Female	722	6.55	-3.5*
Liver cancer	Male	443	4.60	-1.75*
	Female	424	3.87	-3.71*
Lung cancer	Male	1.916	19.69	-1.0
	Female	1.184	10.71	-1.7*
Prostate cancer		2.076	24.57	-2.03*
Stomach cancer	Male	1.167	12.16	-3.56*
	Female	750	6.50	-5.92*

CANCER PLANS AND CANCER REGISTRATION ⁷				
National integrated NCD policy, strategy or action plan				
Is there a national integrated NCD policy, strategy or action plan?	Yes			
Is cancer included in the overall NCD plan?	Yes			
First year of implementation 2005				
Cancer policy, strategy or action plan				
Is there a Cancer policy, strategy or action plan? Yes				
First year of implementation	1946			
Cancer registry				
Is there a Cancer registry?	Yes			
Scope (National vs. Subnational)?	National			
Type of registry (Population vs. hospital based)?	Hospital based			
Last year with available data	2010			

CANCER PRIMARY PREVENTION POLICIES				
Tobacco control ³				
Smoke free environments?	All public spaces are completely smoke free			
Raised taxes on tobacco?	71% of retail price is tax			
Health warning labels about the dangers of tobacco?	Large graphic labels on packs with all appropriate characteristics			
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media			
Overweight and obesity prevention and control ⁷				
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development			
Harmful use of alcohol prevention and control ⁷				
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Under development			
HPV vaccination in national immunization program? ⁸	No			
Year of introduction/Target age group/Delivery strategy	N/A			
Estimated 3-dose coverage (calendar year)	N/A			
HBV vaccination in national immunization program? ⁸	Yes			
Year of introduction/Target age group	2000/Newborn-2m-4m-6m-18m; risk groups, health workers			
Estimated 3-dose coverage (2012)	81%			

CANCER SCREENING				
Cervical Cancer				
Guidelines ⁹				
Are there cervical cancer screening guidelines available?	Yes			
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/25-64 years of age/every 3 years after 2 consecutive negative annual Pap tests			
Availability and coverage of screening services				
Cervical cytology ⁷	Generally available in the public and the private sectors			
Visual Inspection with Acetic Acid ⁷	Generally available in the public and the private sectors			
Screening coverage ⁹	25% of target population (2011)			

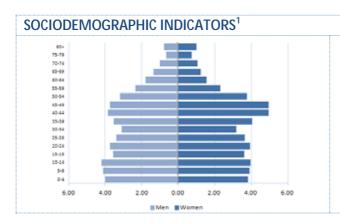
CANCER SCREENING			
Breast Cancer			
Guidelines			
Are there breast cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Clinical Breast Examination ⁷	Generally available in the public and the private sectors		
Mammography ⁷	Generally available in the public and the private sectors		
Screening coverage			
Colorectal Cancer			
Guidelines			
Are there colorectal cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Faecal occult blood test or fecal immunological test ⁷	Generally available in the public and the private sectors		
Exam or colonoscopy ⁷	Generally available in the public and the private sectors		
Screening coverage			

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹⁰		Oral Morphine ⁷		
Availability of services? ⁷	Generally available	Availability in the public health sector?	Generally available	
Total energy teletherapy units/million inhabitants	2.4	Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	58	Appears in the national list of essential medicines?	Yes	
Radiation oncologists 172		Opioid consumption ¹¹		
Medical physicists	47	Total morphine equivalence, per capita	2.88	
Chemotherapy ⁷		Community/home care available? ⁷		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> availab	

 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months.$

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) WHO Report on the Global Tobacco Epidemic, 2013, retrieved August 28, 2013 from http://www.who.int/tobacco
- (3) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (4) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (5) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (6) PAHO/WHO Mortality Database, 2012.
- (7) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (9) Network of National Cancer Institutes of the South American Union (RINC/UNASUR). Informe preliminar reducido sobre la situación del control del cáncer de cuello uterino en 8 países de Latinoamérica. 2012
- (10) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (11) 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.

ANGUILLA



Total population: 15,100

Average annual deaths: 1,000

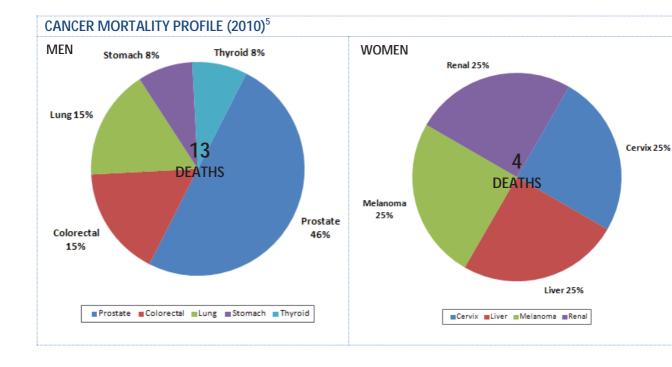
Life expectancy at birth (years):

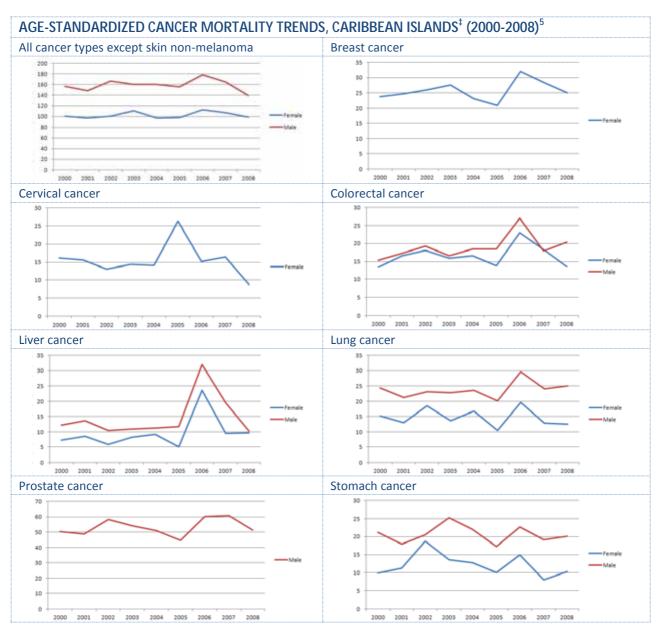
Total: 81 Male: 78 Female: 84

· Adult literacy rate: ...

Gross National Income US\$ per capita: ...

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}			•••
Adolescent tobacco smokers ²		•••	•••
Fruit and vegetable intake in adults ^{1,b}			•••
Alcohol consumers, past 12 months ³		•••	•••
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	•••	•••	•••
HPV prevalence (women with normal cytology) ⁴			•••





Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
Liver cancer	Male	51	10.23	4.59
	Female	39	9.69	6.32
Lung cancer	Male	178	25.11	1.44
	Female	90	12.51	-1.58
Prostate cancer		556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶				
National integrated NCD policy, strategy or action plan				
Is there a national integrated NCD policy, strategy or action plan?	Under development			
Is cancer included in the overall NCD plan?	No			
First year of implementation	N/A			
Cancer policy, strategy or action plan				
Is there a Cancer policy, strategy or action plan?	No			
First year of implementation	N/A			
Cancer registry				
Is there a Cancer registry?	No			
Scope (National vs. Subnational)?	N/A			
Type of registry (Population vs. hospital based)?	N/A			
Last year with available data	N/A			

CANCER PRIMARY PREVENTION POLICIES				
Tobacco control ²				
Smoke free environments?				
Raised taxes on tobacco?				
Health warning labels about the dangers of tobacco?				
Bans on tobacco advertising, promotion and sponsorship?				
Overweight and obesity prevention and control ⁶				
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2013)			
Harmful use of alcohol prevention and control ⁶				
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No			
HPV vaccination in national immunization program? ⁷	No			
Year of introduction/Target age group/Delivery strategy	N/A			
Estimated 3-dose coverage (calendar year)	N/A			
HBV vaccination in national immunization program? ⁸				
Year of introduction/Target age group	1997/3m-5m-7m			
Estimated 3-dose coverage (2012)	100%			

CANCER SCREENING			
Cervical Cancer			
Guidelines			
Are there cervical cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Cervical cytology ⁶ Generally available in the public and the private sectors			
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public sector/ Information not known for the private sector		
Screening coverage			

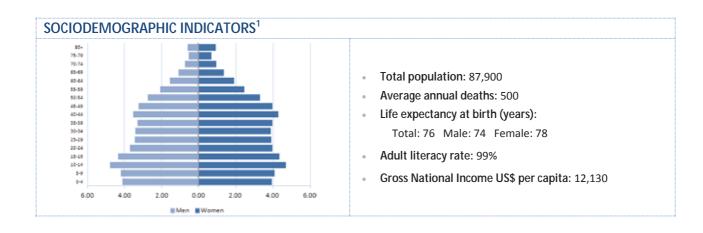
CANCER SCREENING			
Breast Cancer			
Guidelines			
Are there breast cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services	•		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors		
Mammography ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			
Colorectal Cancer			
Guidelines			
Are there colorectal cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Faecal occult blood test or fecal immunological test ⁶	Generally <u>not</u> available in the public sector/ Information not known for the private sector		
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			

CANCER TREATMENT AND PALLIATIVE CARE					
Radiotherapy ⁹		Oral Morphine ⁶			
Availability of services? ⁷	Generally <u>not</u> available	Availability in the public health sector?	Generally available		
Total energy teletherapy units/million inhabitants		Covered by health insurance or publically funded?	Yes		
Total radiotherapy centers		Appears in the national list of essential medicines?	Yes		
Radiation oncologists		Opioid consumption ¹⁰			
Medical physicists	•••	Total morphine equivalence, per capita	•••		
Chemotherapy ⁶		Community/home care available? ⁶			
Availability of services?	Generally <u>not</u> available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>no</u> available		

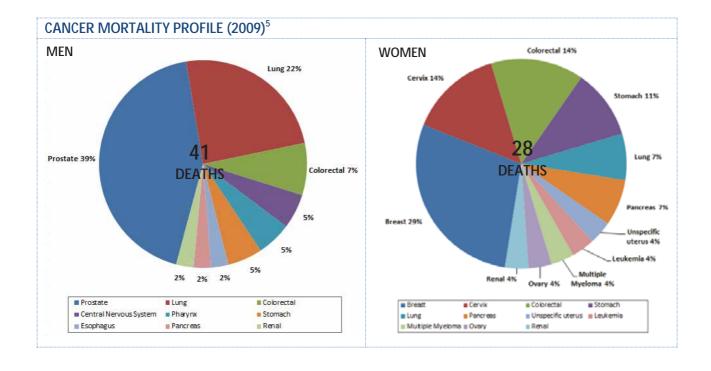
Notes: ... Information not available; N/A: Not applicable; m: months.

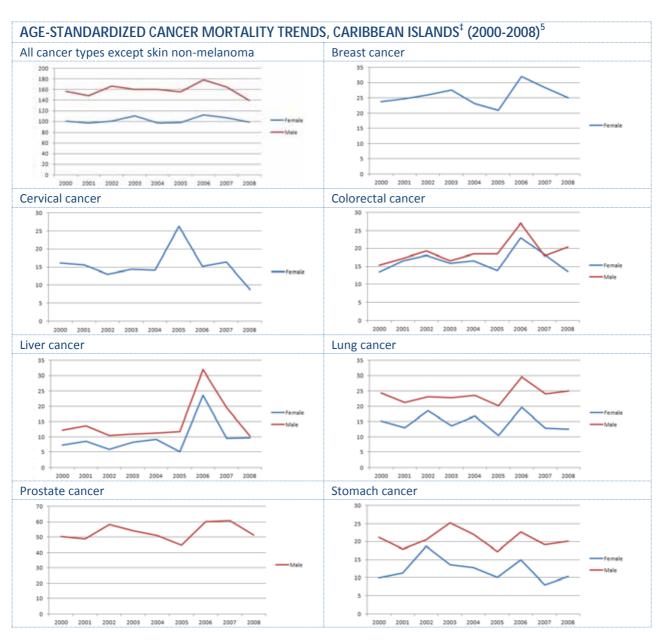
- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}$.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Year of introduction-- Country Reports to PAHO/WHO; Schedules--PAHO/WHO Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Coverage--PAHO/WHO Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (9) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (10) 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.

ANTIGUA & BARBUDA



Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	•••		
Adolescent tobacco smokers ²	20.1	24.3	15.9
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³	•••		
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	25.8	18.1	33.1
HPV prevalence (women with normal cytology) ⁴			





Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
Liver cancer	Male	51	10.23	4.59
	Female	39	9.69	6.32
Lung cancer	Male	178	25.11	1.44
	Female	90	12.51	-1.58
Prostate cancer		556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCI	ER REGISTRATION ⁶
National integrated NCD policy, strategy or action plan	
Is there a national integrated NCD policy, strategy or action plan?	No
Is cancer included in the overall NCD plan?	N/A
First year of implementation	N/A
Cancer policy, strategy or action plan	
Is there a Cancer policy, strategy or action plan?	No
First year of implementation	N/A
Cancer registry	
Is there a Cancer registry?	No
Scope (National vs. Subnational)?	N/A
Type of registry (Population vs. hospital based)?	N/A
Last year with available data	N/A

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Up to two types of public places completely smoke-free		
Raised taxes on tobacco?	7% of retail price is tax		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁸			
Year of introduction/Target age group	1999/First contact, +6weeks, +6 m		
Estimated 3-dose coverage (2012)	98%		

CANCER SCREENING		
Cervical Cancer		
Guidelines		
Are there cervical cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services	•	
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors	
Screening coverage		

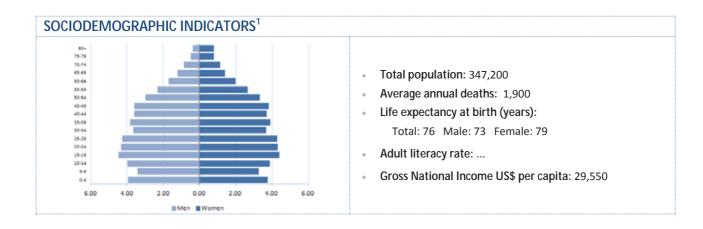
CANC	ER SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage	

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ⁹		Oral Morphine ⁶		
Availability of services? ⁶	Generally <u>not</u> available	Availability in the public health sector?	Generally <u>not</u> available	
Total energy teletherapy units/million inhabitants		Covered by health insurance or publically funded?	No	
Total radiotherapy centers		Appears in the national list of essential medicines?	Yes	
Radiation oncologists		Opioid consumption ¹⁰		
Medical physicists		Total morphine equivalence, per capita	•••	
Chemotherapy ⁶	Å	Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available	

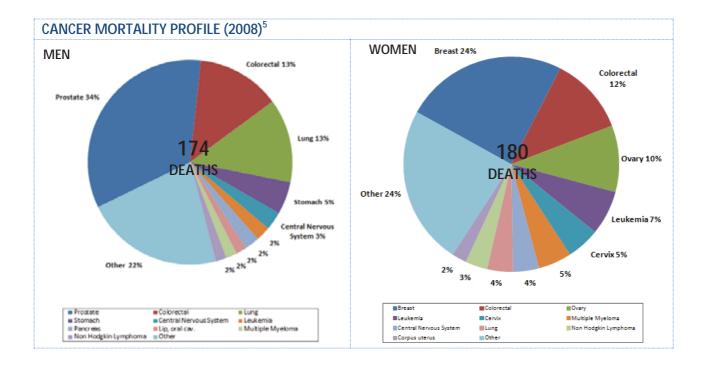
 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months.$

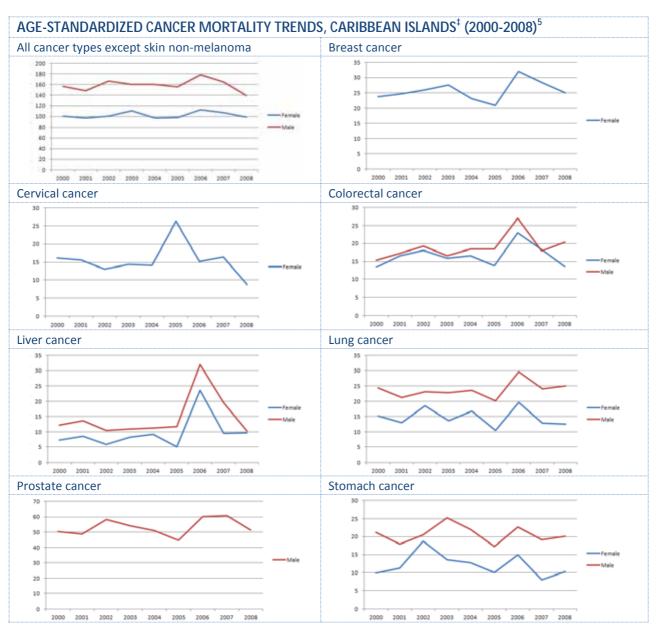
- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Year of introduction-- Country Reports to PAHO/WHO; Schedules--PAHO/WHO Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Coverage--PAHO/WHO Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (9) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (10) 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.

BAHAMAS



RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}			
Adolescent tobacco smokers ²	16.4	17.8	15.1
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³			
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	53.0	42.5	60.5
HPV prevalence (women with normal cytology) ⁴			





Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
Liver cancer	Male	51	10.23	4.59
	Female	39	9.69	6.32
Lung cancer	Male	178	25.11	1.44
	Female	90	12.51	-1.58
Prostate cancer		556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguila, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶			
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan?	Under development		
Is cancer included in the overall NCD plan?	Yes		
First year of implementation	N/A		
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan?	No		
First year of implementation	N/A		
Cancer registry			
Is there a Cancer registry?	No		
Scope (National vs. Subnational)?	N/A		
Type of registry (Population vs. hospital based)?	N/A		
Last year with available data	N/A		

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Up to two types of public places completely smoke-free		
Raised taxes on tobacco?	38% of retail price is tax		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program?8	Yes		
Year of introduction/Target age group	2001/2m-4m-6m		
Estimated 3-dose coverage (2012)	96%		

CANCER SCREENING		
Cervical Cancer		
Guidelines ⁹		
Are there cervical cancer screening guidelines available?	Yes	
Guideline recommendations* (Tests/Age groups/Frequency)	Pap Test/sexually active women or women aged 21 and older/annual	
Availability and coverage of screening services		
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors	
Screening coverage		

Note: *Ministry of Health recommendations

CANC	ER SCREENING		
Breast Cancer			
Guidelines ⁹			
Are there breast cancer screening guidelines available?	Yes		
Guideline recommendations* (Tests/Age groups/Frequency)	Breast self-examination/monthly		
Availability and coverage of screening services			
Clinical Breast Examination ⁶	Generally available in the public and the private sectors		
Mammography ⁶	Generally available in the public and the private sectors		
Screening coverage			
Colorectal Cancer			
Guidelines			
Are there colorectal cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors		
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			

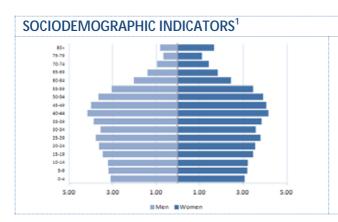
Note: *Ministry of Health recommendations

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹⁰		Oral Morphine ⁴		
Total energy teletherapy units/million inhabitants	2.8	Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	1	Appears in the national list of essential medicines?	Yes	
Radiation oncologists 3		Opioid consumption ¹¹		
Medical physicists	3	Total morphine equivalence, per capita	10.76	
Chemotherapy ⁴		Community/home care available? ⁶	*	
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available	

 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months.$

- (1) PAHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Year of introduction-- Country Reports to PAHO/WHO; Schedules--PAHO/WHO Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Coverage--PAHO/WHO Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (9) Ministry of Health of Bahamas. Breast and cervical cancer screening recommendations, available from: http://bit.ly/1d0LTm4.
- (10) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (11) 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.

BARBADOS



Total population: 286,700

Average annual deaths: 2,400

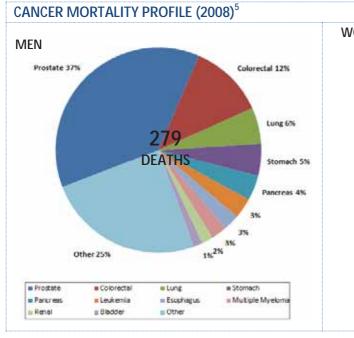
Life expectancy at birth (years):

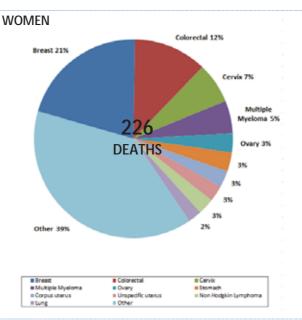
Total: 74 Male: 72 Female: 77

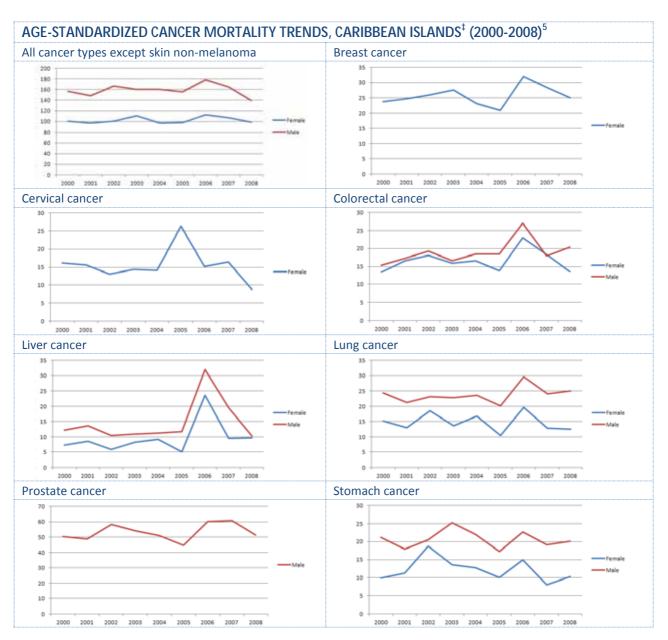
· Adult literacy rate: ...

Gross National Income US\$ per capita: 18,850

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	7.0	13.0	2.0
Adolescent tobacco smokers ²	28.6	34.5	23.2
Fruit and vegetable intake in adults ^{1,b}	4.6	3.4	5.7
Alcohol consumers, past 12 months ³	40.9	54.9	28.3
Low physical activity in adults ^{1,c}	51.3	42.5	59.0
Obesity among adults (BMI ≥30) ¹	28.5	20.3	35.5
HPV prevalence (women with normal cytology) ⁴			







Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
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Lung cancer	Male	178	25.11	1.44
	Female	90	12.51	-1.58
Prostate cancer		556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Yes	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	2009	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	No	
First year of implementation	N/A	
Cancer registry		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	National	
Type of registry (Population vs. hospital based)?	Population based	
Last year with available data	2012	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	All public spaces are completely smoke free		
Raised taxes on tobacco?	49% of retail price is tax		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2009)		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	2000/2m-4m-6m		
Estimated 3-dose coverage (2012)	87%		

CANCER SCREENING			
Cervical Cancer			
Guidelines			
Are there cervical cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Cervical cytology ⁶	Generally available in the public and the private sectors		
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors		
Screening coverage			

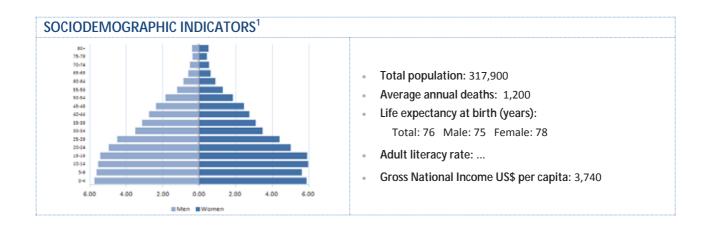
CANO	CER SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage	

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ⁸		Oral Morphine ⁶		
Availability of services? ⁶	Generally available	Availability in the public health sector? Generally available		
Total energy teletherapy units/million inhabitants	3.5	Covered by health insurance or publically funded? Yes		
Total radiotherapy centers	1	Appears in the national list of essential medicines?		
Radiation oncologists 1		Opioid consumption ⁹		
Medical physicists	1	Total morphine equivalence, per capita		
Chemotherapy ⁶		Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available		

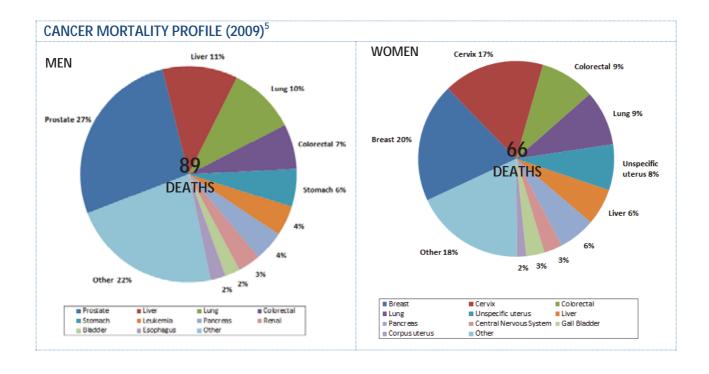
 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months.$

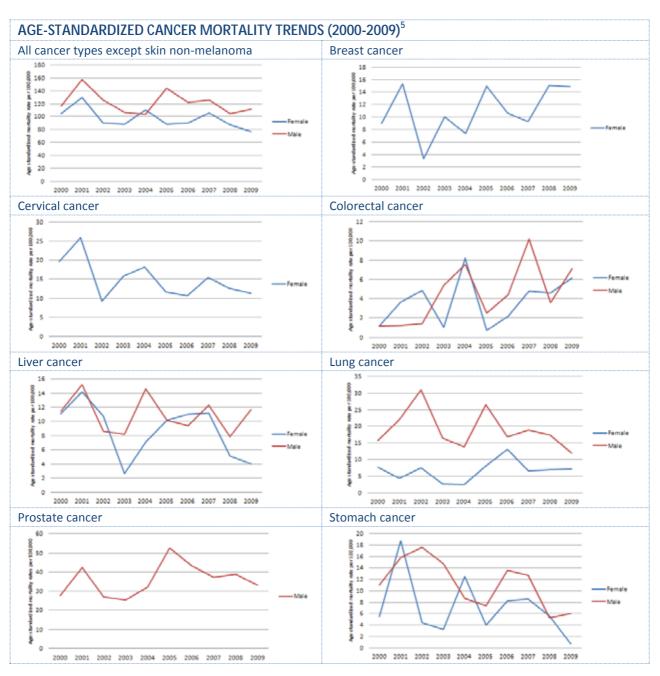
- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- $\textbf{(3)} \ \text{WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from $\underline{\text{http://bit.ly/17zhuqZ}}$.}$
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Profiles, retrieved August 28, 2013 from <a href="http:
- (8) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (9) 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.

BELIZE



RISK FACTORS				
Prevalence of:	Total (%)	Male (%)	Female (%)	
Current adult tobacco smokers ^{2,a}	12.0	22.0	2.0	
Adolescent tobacco smokers ²	18.3	21.8	15.3	
Fruit and vegetable intake in adults ^{1,b}				
Alcohol consumers, past 12 months ³	35.4	51.2	19.4	
Low physical activity in adults ^{1,c}	42.7	40.4	45.0	
Obesity among adults (BMI ≥30) ¹	37.9	26.7	48.8	
HPV prevalence (women with normal cytology) ⁴			10.1	





Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	89	112.25	-1.91
	Female	66	77.14	-2.94
Breast cancer		13	14.85	-
Cervical cancer		11	11.29	-
Colorectal cancer	Male	6	7.51	-
	Female	6	6.55	-
Liver cancer	Male	10	12.13	-
	Female	4	4.39	-
Lung cancer	Male	9	12.27	-
	Female	6	7.46	-
Prostate cancer		24	33.05	-
Stomach cancer	Male	5	6.39	-
	Female	1	1.04	-

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶			
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan?	Under development		
Is cancer included in the overall NCD plan?	Yes		
First year of implementation N/A			
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan? Under development			
First year of implementation N/A			
Cancer registry			
Is there a Cancer registry?	No		
Scope (National vs. Subnational)? N/A			
Type of registry (Population vs. hospital based)?	N/A		
Last year with available data	N/A		

CANCER PRIMARY PREVEI	NTION POLICIES
Tobacco control ²	
Smoke free environments?	Up to two types of public places completely smoke-free
Raised taxes on tobacco?	21% of retail price is tax
Health warning labels about the dangers of tobacco?	No warnings or small warnings
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media
Overweight and obesity prevention and control ⁶	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development
Harmful use of alcohol prevention and control ⁶	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Under development
HPV vaccination in national immunization program? ⁷	No
Year of introduction/Target age group/Delivery strategy	N/A
Estimated 3-dose coverage (calendar year)	N/A
HBV vaccination in national immunization program? ⁸	Yes
Year of introduction/Target age group	2000/2m-4m-6m; >12 years
Estimated 3-dose coverage (2012)	98%

CANCER SCREE	NING
Cervical Cancer	
Guidelines	
Are there cervical cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public sector/ Information not known for the private sector
Screening coverage	

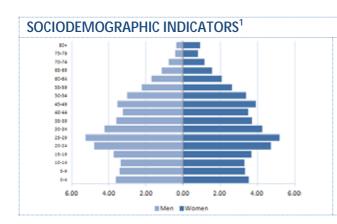
CANC	ER SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammogram ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage	

CAN	CER TREATMEN	T AND PALLIATIVE CARE		
Radiotherapy ⁹		Oral Morphine ⁶		
Availability of services? ⁶	Generally <u>not</u> available	Availability in the public health sector?	Generally available	
Total energy teletherapy units/million inhabitants		Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers		Appears in the national list of essential medicines?	Yes	
Radiation oncologists		Opioid consumption ¹⁰		
Medical physicists		Total morphine equivalence, per capita	•••	
Chemotherapy ⁶	*	Community/home care available? ⁶		
Availability of services?	Generally <u>not</u> available	Are community/home care services available for people with advanced stages of NCDs?	Generally available	

Notes: ...: Information not available; N/A: Not applicable; m: months.

- $\textbf{(1)} \ \mathsf{PAHO}. \ \mathsf{Non} \ \mathsf{communicable} \ \mathsf{Diseases} \ \mathsf{in} \ \mathsf{the} \ \mathsf{Americas} \\ \mathsf{:} \ \mathsf{Basic} \ \mathsf{Health} \ \mathsf{Indicators} \ \mathsf{2011}. \ \mathsf{Washington} \ \mathsf{D.C.}, \ \mathsf{USA}, \ \mathsf{2011}.$
- $\textbf{(2)} \ \mathsf{PAHO}. \ \mathsf{Tobacco} \ \mathsf{Control} \ \mathsf{Report} \ \mathsf{for} \ \mathsf{the} \ \mathsf{Region} \ \mathsf{of} \ \mathsf{the} \ \mathsf{Americas}, \ \mathsf{2013}. \ \mathsf{Washington} \ \mathsf{D.C}, \ \mathsf{USA}, \ \mathsf{2013}.$
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- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}\ .$
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- (7) Markowitz LE et al. Vaccine. 2012 Nov 20; 30 Suppl 5:F139-48.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Year of introduction-- Country Reports to PAHO/WHO; Schedules--PAHO/WHO Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/ldn4Td3; Coverage--PAHO/WHO Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/ldn59ZK.
- (9) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (10) 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.

DOMINICA

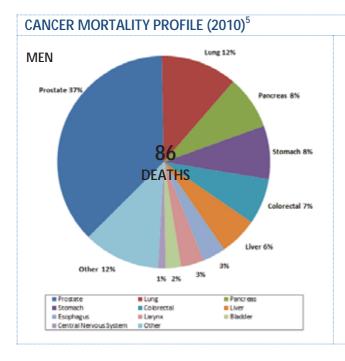


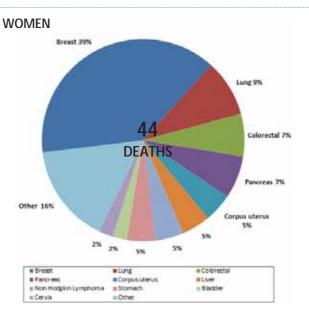
- Total population: 73,100
- Average annual deaths: 600
- Life expectancy at birth (years):

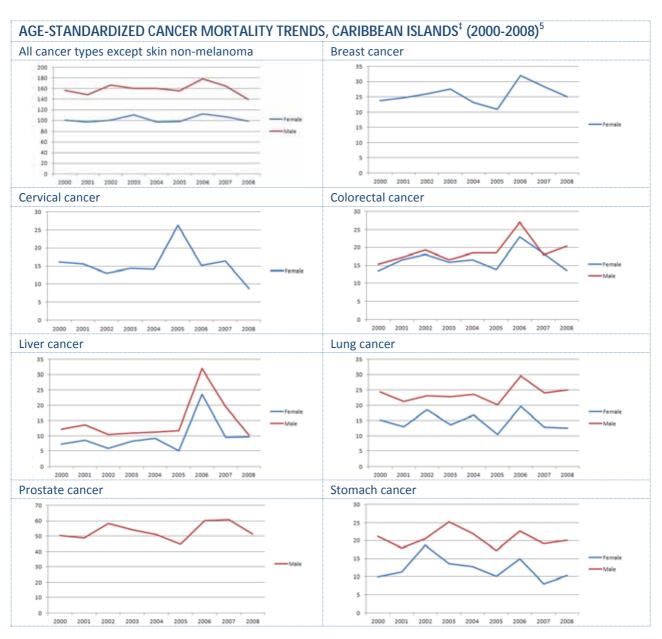
Total: 76 Male: 73 Female: 79

- · Adult literacy rate: ...
- Gross National Income US\$ per capita: 4,900

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	8.0	11.0	4.0
Adolescent tobacco smokers ²	25.3	30.4	19.8
Fruit and vegetable intake in adults ^{1,b}	8.7	8.9	7.4
Alcohol consumers, past 12 months ³	59.0	71.6	46.8
Low physical activity in adults ^{1,b}	24.0	14.5	34.3
Obesity among adults (BMI ≥30) ¹	20.2	8.6	32.7
HPV prevalence (women with normal cytology) ⁴			







Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
Liver cancer	Male	51	10.23	4.59
	Female	39	9.69	6.32
Lung cancer	Male	178	25.11	1.44
	Female	90	12.51	-1.58
Prostate cancer	·	556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANC	ER REGISTRATION ⁶
National integrated NCD policy, strategy or action plan	
Is there a national integrated NCD policy, strategy or action plan?	Under development
Is cancer included in the overall NCD plan?	Yes
First year of implementation	N/A
Cancer policy, strategy or action plan	
Is there a Cancer policy, strategy or action plan?	No
First year of implementation	N/A
Cancer registry	
Is there a Cancer registry?	No
Scope (National vs. Subnational)?	N/A
Type of registry (Population vs. hospital based)?	N/A
Last year with available data	N/A

CANCER PRIMARY PREVEN	NTION POLICIES
Tobacco control ²	
Smoke free environments?	Up to two types of public places completely smoke-free
Raised taxes on tobacco?	23% of retail price is tax
Health warning labels about the dangers of tobacco?	No warnings or small warnings
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media
Overweight and obesity prevention and control ⁶	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No
Harmful use of alcohol prevention and control ⁶	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No
HPV vaccination in national immunization program? ⁷	No
Year of introduction/Target age group/Delivery strategy	N/A
Estimated 3-dose coverage (calendar year)	N/A
HBV vaccination in national immunization program? ⁷	Yes
Year of introduction/Target age group	2006/2m-4m-6m; 3 doses at risk groups*
Estimated 3-dose coverage (2012)	74%

Note: *: administered to health workers, infants of HIV+ mothers, and infants of Hepatitis B+ mothers.

CANCER SCR	REENING
Cervical Cancer	
Guidelines	
Are there cervical cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	·
Cervical cytology ⁶	Generally available in the public and the private sectors
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector
Screening coverage	

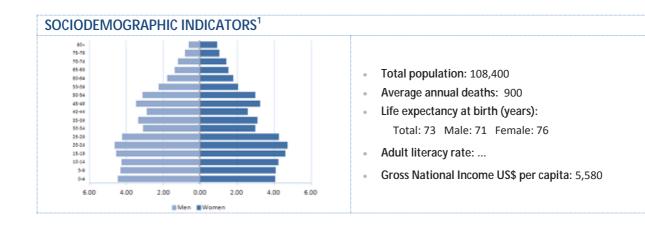
CANCE	R SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage	

CAN	CER TREATMEN	T AND PALLIATIVE CARE		
Radiotherapy ⁸		Oral Morphine ⁶		
Availability of services? ⁶	Generally <u>not</u> available	Availability in the public health sector?	Generally available	
Total energy teletherapy units/million inhabitants		Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers		Appears in the national list of essential medicines?	Yes	
Radiation oncologists		Opioid consumption ⁹		
Medical physicists		Total morphine equivalence, per capita	2.47	
Chemotherapy ⁶	Å	Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available	

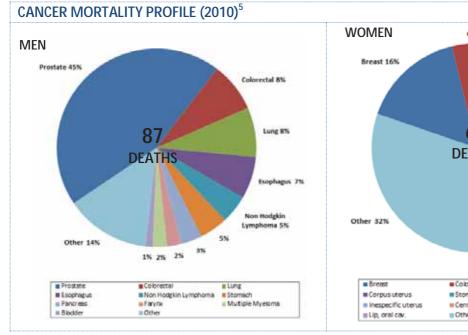
Notes: ...: Information not available; N/A: Not applicable; m: months.

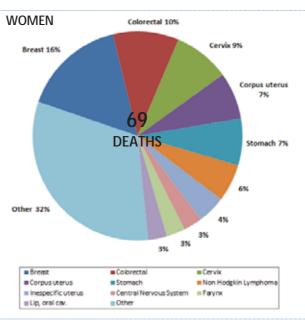
- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- $\textbf{(2)} \ \mathsf{PAHO/WHO}. \ \mathsf{Tobacco} \ \mathsf{Control} \ \mathsf{Report} \ \mathsf{for} \ \mathsf{the} \ \mathsf{Region} \ \mathsf{of} \ \mathsf{the} \ \mathsf{Americas}, \ \mathsf{2013}. \ \ \mathsf{Washington} \ \mathsf{D.C.}, \ \mathsf{USA}, \ \mathsf{2013}.$
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- $\textbf{(4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from \underline{http://www.hpvcentre.net/}\,.$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Retrieved August 28, 2013 from ht
- (8) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (9) 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.

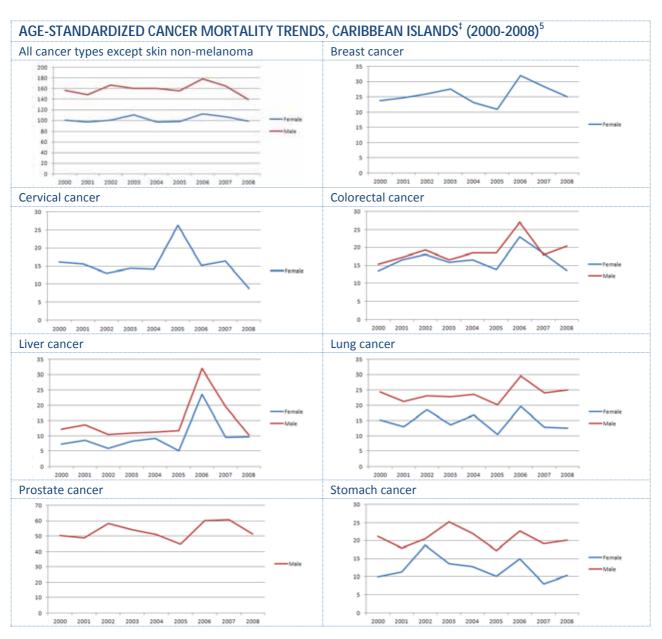
GRENADA



RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	18.6	30.3	6.5
Adolescent tobacco smokers ²	•••	•••	•••
Fruit and vegetable intake in adults ^{1,b}	•••		
Alcohol consumers, past 12 months ³	•••		
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹			
HPV prevalence (women with normal cytology) ⁴			







Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
Liver cancer	Male	51	10.23	4.59
	Female	39	9.69	6.32
Lung cancer	Male	178	25.11	1.44
	Female	90	12.51	-1.58
Prostate cancer		556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	No	
Is cancer included in the overall NCD plan?	N/A	
First year of implementation N/A		
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	No	
First year of implementation	N/A	
Cancer registry		
Is there a Cancer registry?	No	
Scope (National vs. Subnational)?	N/A	
Type of registry (Population vs. hospital based)?	N/A	
Last year with available data	N/A	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Up to two types of public places completely smoke-free		
Raised taxes on tobacco?	Data not reported		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	2000/6-8w, 16-20w, 24-28w; risk groups and health care workers		
Estimated 3-dose coverage (2011)	97%		

CANCER SCREENING			
Cervical Cancer			
Guidelines			
Are there cervical cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Cervical cytology ⁶	Generally available in the public and the private sectors		
Visual Inspection with Acetic Acid ⁶	Generally <u>not</u> available in the public and the private sectors		
Screening coverage			

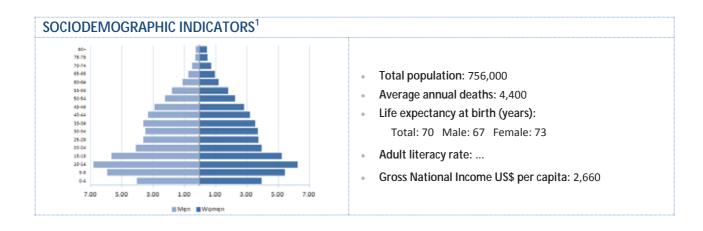
CANCER SCREENING			
Breast Cancer			
Guidelines			
Are there breast cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services	·*		
Clinical Breast Examination ⁶	Generally available in the public and the private sectors		
Mammogram ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			
Colorectal Cancer			
Guidelines			
Are there colorectal cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors		
Exam or colonoscopy ⁶	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			

CANCER TREATMENT AND PALLIATIVE CARE			
Radiotherapy ⁸		Oral Morphine ⁶	
Availability of services? ⁶	Generally <u>not</u> available	Availability in the public health sector?	Generally available
Total energy teletherapy units/million inhabitants		Covered by health insurance or publically funded?	Yes
Total radiotherapy centers		Appears in the national list of essential medicines?	Yes
Radiation oncologists		Opioid consumption ⁹	
Medical physicists	•••	Total morphine equivalence, per capita	0.8
Chemotherapy ⁶		Community/home care available? ⁴	
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available

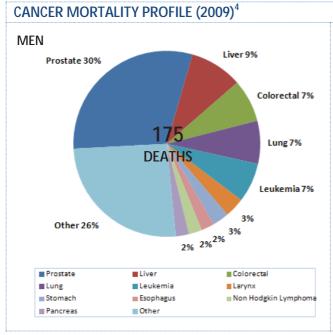
 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ w: \ weeks.$

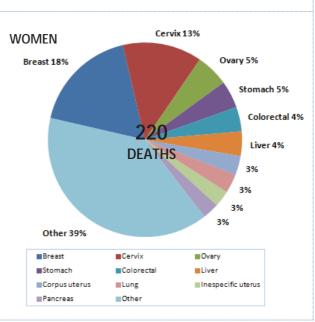
- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) WHO Report on the Global Tobacco Epidemic, 2013, retrieved August 28, 2013 from http://www.who.int/tobacco
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- $\textbf{(4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}$.}$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (8) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (9) 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.

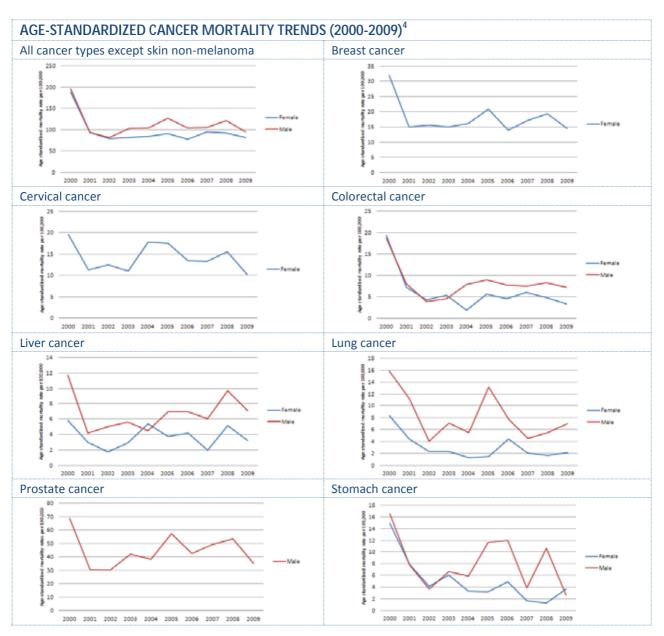
GUYANA



RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	16.0	27.0	6.0
Adolescent tobacco smokers ²	21.9	25.3	16.0
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ³		•••	
Low physical activity in adults ^{1,b}			
Obesity among adults (BMI ≥30) ¹	22.4	14.3	26.9
HPV prevalence (women with normal cytology)			







Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	175	95.39	-1.88
	Female	220	81.92	-6.8*
Breast cancer		39	14.57	-
Cervical cancer		29	10.22	-
Colorectal cancer	Male	13	7.63	-
	Female	9	3.71	-
Liver cancer	Male	16	7.47	-
	Female	9	3.61	-
Lung cancer	Male	13	7.46	-
	Female	7	2.49	-
Prostate cancer		53	35.18	-
Stomach cancer	Male	5	2.96	-
	Female	10	4.05	-

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁵		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Under development	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	N/A	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	No	
First year of implementation	N/A	
Cancer registry ⁶		
Is there a Cancer registry?	Yes	
Scope (National vs. Subnational)?	National	
Type of registry (Population vs. hospital based)?	Population-based	
Last year with available data		

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Three to five types of public places completely smoke-free		
Raised taxes on tobacco?	30% of retail price is tax		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁵			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)			
Harmful use of alcohol prevention and control ⁵			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)			
HPV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group/Delivery strategy	2012/10-13/Schools and health clinics		
Estimated 3-dose coverage (calendar year)			
HBV vaccination in national immunization program? ⁸	Yes		
Year of introduction/Target age group	2001/2m-4m-6m; risk groups		
Estimated 3-dose coverage (2012)	97%		

CANCER SCREENING			
Cervical Cancer			
Guidelines ⁷			
Are there cervical cancer screening guidelines available? Yes			
Guideline recommendations (Tests/Age groups/Frequency) VIA/women aged 25-49 years/Every 5 years			
Availability and coverage of screening services			
Cervical cytology ⁵	Generally available in the public sector		
Visual Inspection with Acetic Acid ⁵	Generally available in the public sector		
Screening coverage			

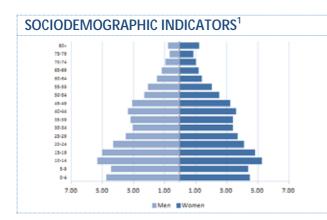
CANCER SCREENING		
Breast Cancer		
Guidelines		
Are there breast cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Clinical Breast Examination ⁵	Generally available in the public sector	
Mammography ⁵	Generally <u>not</u> available in the public sector	
Screening coverage		
Colorectal Cancer		
Guidelines		
Are there colorectal cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Faecal occult blood test or fecal immunological test ⁵	Generally <u>not</u> available in the public sector	
Exam or colonoscopy ⁵	Generally <u>not</u> available in the public sector	
Screening coverage		

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ⁹		Oral Morphine ⁵		
Availability of services? ⁵	Generally available	Availability in the public health sector?	Generally <u>not</u> available	
Total energy teletherapy units/million inhabitants	1.3	Covered by health insurance or publically funded?		
Total radiotherapy centers	1.3	Appears in the national list of essential medicines?	•••	
Radiation oncologists		Opioid consumption ¹⁰		
Medical physicists		Total morphine equivalence, per capita	1.58	
Chemotherapy ⁵		Community/home care available? ⁵		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally <u>not</u> available	

 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months.$

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28, 2013, from http://bit.ly/17zhuqZ.
- (4) PAHO/WHO Mortality Database, 2012.
- (5) Pan American Health Organization. Country Profiles on NonCommunicable Diseases. Washington, D.C.: 2012, retrieved August 28, 2013, from http://bit.ly/15RoQrR.
- (6) Plummer W., Persaud P., Layne P. Ethnicity and cancer in Guyana, South America. Infectious Agents and Cancer 2009, 4(Suppl 1):S7.
- (7) PAHO/WHO Survey of Caribbean Cervical Cancer Program Managers, 2013. unpublished
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas of the American Reported Coverage in the American Reported C
- (9) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (10) 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.

JAMAICA



Total population: 2,751,300

Average annual deaths: 19,900

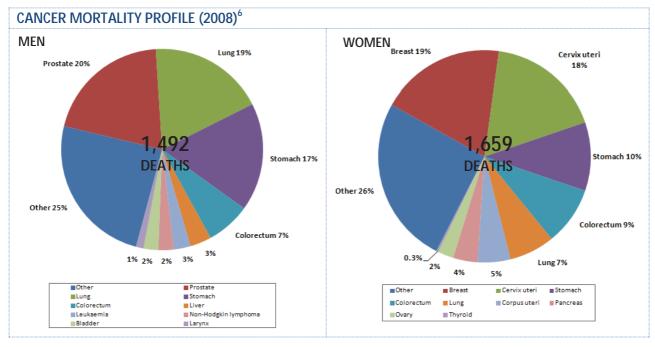
Life expectancy at birth (years):

Total: 73 Male: 71 Female: 76

Adult literacy rate: 86.4%

Gross National Income US\$ per capita: 4,590

	: :	-	
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	15.1	22.9	7.5
Adolescent tobacco smokers ³	28.7	31.3	24.6
Fruit and vegetable intake in adults ^{1,b}			•••
Alcohol consumers, past 12 months ⁴	43.0	56.2	30.6
Low physical activity in adults ^{1,c}	15.7	12.2	19.2
Obesity among adults (BMI ≥30) ¹	25.3	12.4	37.7
HPV prevalence (women with normal cytology) ⁵			54.0



^{*}Note: Mortality data for Jamaica is not available to PAHO, thus a mortality trend analysis was not possible.

CANCER PLANS AND CANCER REGISTRATION ⁷				
National integrated NCD policy, strategy or action plan				
Is there a national integrated NCD policy, strategy or action plan?	Under development			
Is cancer included in the overall NCD plan?	Yes			
First year of implementation	N/A			
Cancer policy, strategy or action plan				
Is there a Cancer policy, strategy or action plan?	Under development			
First year of implementation	N/A			
Cancer registry				
Is there a Cancer registry?	Yes			
Scope (National vs. Subnational)?	Subnational			
Type of registry (Population vs. hospital based)?	Population based			
Last year with available data	2007			

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ³			
Smoke free environments?	Up to two types of public places completely smoke-free		
Raised taxes on tobacco?	46% of retail price is tax		
Health warning labels about the dangers of tobacco?	Medium size warnings missing some appropriate characteristics or large warning missing many appropriate characteristics		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁷			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development		
Harmful use of alcohol prevention and control ⁷			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Under development		
HPV vaccination in national immunization program?8	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program?8	Yes		
Year of introduction/Target age group	2003/6weeks, 3m, 5-6m		
Estimated 3-dose coverage (calendar year)	96%		

CANCER SCREENING			
Cervical Cancer			
Guidelines ⁹			
Are there cervical cancer screening guidelines available?	Yes		
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/25-54 years of age/every 3 years after 2 consecutive normal annual Pap tests		
Availability and coverage of screening services			
Cervical cytology ⁷	Generally available in the public and the private sectors		
Visual Inspection with Acetic Acid ⁷	Generally <u>not</u> available in the public and the private sectors		
Screening coverage ⁹	42.3% of women aged 25-64 years with a Pap in the last 2 years (2008)		

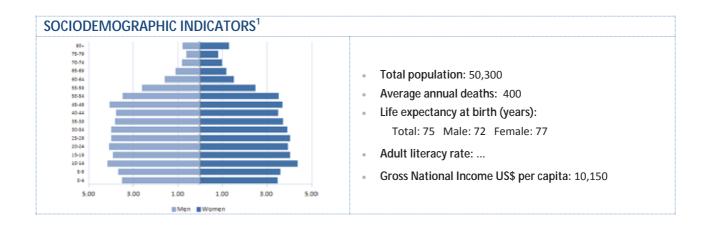
CANCER SCREENING			
Breast Cancer			
Guidelines			
Are there breast cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Clinical Breast Examination ⁷	Generally available in the public and the private sectors		
Mammography ⁷	Generally <u>not</u> available in the public sector and generally available in the private sector		
Screening coverage			
Colorectal Cancer			
Guidelines			
Are there colorectal cancer screening guidelines available?			
Guideline recommendations (Tests/Age groups/Frequency)			
Availability and coverage of screening services			
Faecal occult blood test or fecal immunological test ⁷	Generally available in the public and the private sectors		
Exam or colonoscopy ⁷	Generally available in the public and the private sectors		
Screening coverage			

CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ¹⁰		Oral Morphine ⁷		
Availability of services? ⁷	Generally available	Availability in the public health sector?	Generally <u>not</u> available	
Total energy teletherapy units/million inhabitants	1.1	Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	3	Appears in the national list of essential medicines?	No	
Radiation oncologists 4		Opioid consumption ¹¹		
Medical pysicists	5	Total morphine equivalence, per capita	3.79	
Chemotherapy ⁷		Community/home care available? ⁷		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available	

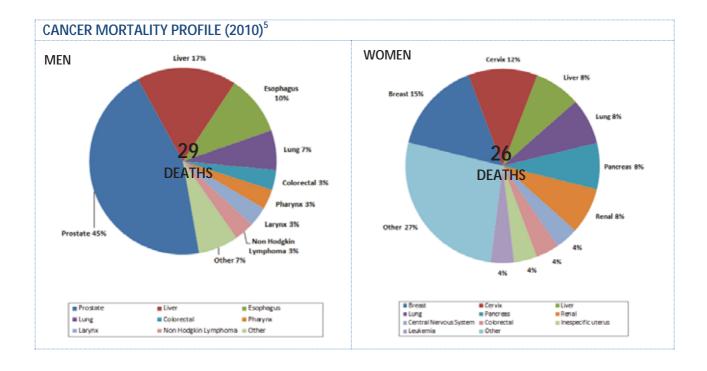
 $Notes: ...: Information \ not \ available; \ N/A: \ Not \ applicable; \ m: \ months.$

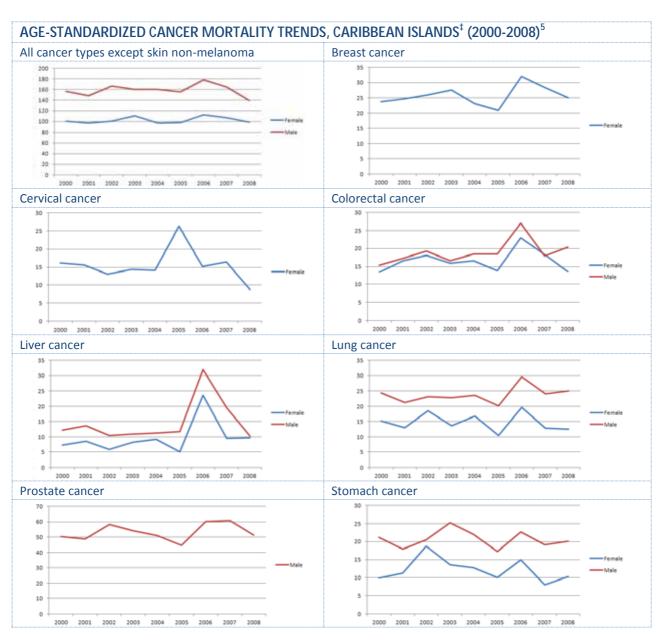
- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) WHO Report on the Global Tobacco Epidemic, 2013, retrieved August 28, 2013 from http://www.who.int/tobacco
- (3) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (4) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhugZ.
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- (7) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn59ZK.
- (9) PAHO/WHO. Survey of English Caribbean Cervical Cancer Programs, 2013. unpublished.
- (10) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (11) 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.

SAINT KITTS AND NEVIS



RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	7.0	12.0	3.0
Adolescent tobacco smokers ²	9.2	10.4	7.8
Fruit and vegetable intake in adults ^{1,b}	2.7	2.4	3.0
Alcohol consumers, past 12 months ³	47.1	27.8	35.0
Low physical activity in adults ^{1,c}	38.3	28.3	48.5
Obesity among adults (BMI ≥30) ¹	45.0	37.9	52.5
HPV prevalence (women with normal cytology) ⁴			





Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
Liver cancer	Male	51	10.23	4.59
	Female	39	9.69	6.32
Lung cancer	Male	178	25.11	1.44
7	Female	90	12.51	-1.58
Prostate cancer		556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percentage change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶			
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan?			
Is cancer included in the overall NCD plan?	N/A		
First year of implementation	N/A		
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan?	No		
First year of implementation N/A			
Cancer registry			
Is there a Cancer registry?	No		
Scope (National vs. Subnational)?	N/A		
Type of registry (Population vs. hospital based)?	N/A		
Last year with available data	N/A		

CANCER PRIMARY PREVENTION POLICIES				
Tobacco control ²				
Smoke free environments?	Up to two types of public places completely smoke-free			
Raised taxes on tobacco?	20% of retail price is tax			
Health warning labels about the dangers of tobacco?	No warnings or small warnings			
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media			
Overweight and obesity prevention and control ⁶				
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No			
Harmful use of alcohol prevention and control ⁶				
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No			
HPV vaccination in national immunization program? ⁷	No			
Year of introduction/Target age group/Delivery strategy	N/A			
Estimated 3-dose coverage (calendar year)	N/A			
HBV vaccination in national immunization program? ⁷	Yes			
Year of introduction/Target age group	1997/2m-4m-6m; risk groups			
Estimated 3-dose coverage (2011)	98%			

CANCER SCREENING			
Cervical Cancer			
Guidelines ⁸			
Are there cervical cancer screening guidelines available?	Yes		
Guideline recommendations (Tests/Age groups/Frequency)	Pap/All sexually active women/Every 3 years after 2 consecutive negative annual Pap tests		
Availability and coverage of screening services			
Cervical cytology ⁶	Generally available in the public and the private sectors		
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors		
Screening coverage ⁸	80% of women ever sexually active		

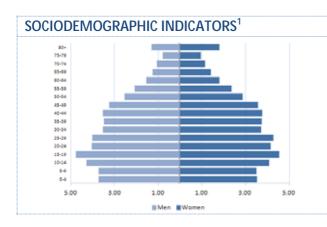
CANCER SCREENING		
Breast Cancer		
Guidelines		
Are there breast cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services	·	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors	
Mammography ⁶	Generally available in the public and the private sectors	
Screening coverage		
Colorectal Cancer		
Guidelines		
Are there colorectal cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services	•	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors	
Exam or colonoscopy ⁶	Generally available in the public and the private sectors	
Screening coverage		

CANCER TREATMENT AND PALLIATIVE CARE					
Radiotherapy ⁹		Oral Morphine ⁶			
Availability of services? ⁶	Generally <u>not</u> available	Availability in the public health sector?	Generally available		
Total energy teletherapy units/million inhabitants		Covered by health insurance or publically funded?	Yes		
Total radiotherapy centers		Appears in the national list of essential medicines?	Yes		
Radiation oncologists		Opioid consumption ¹⁰			
Medical physicists		Total morphine equivalence, per capita	•••		
Chemotherapy ⁶		Community/home care available? ⁶			
Availability of services?	Generally <u>not</u> available	Are community/home care services available for people with advanced stages of NCDs?	Generally available		

Notes: ...: Information not available; N/A: Not applicable; m: months.

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from http://www.hpvcentre.net/.
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/
- (8) PAHO/WHO Survey of Caribbean Cervical Cancer Program Managers, 2013. unpublished
- (9) WHO/IAEA Directory of Radiotherapy Centers (DIRAC) Database, retrieved August 28, 2013 from http://www-naweb.iaea.org/nahu/dirac/.
- (10) 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.

SAINT LUCIA



Total population: 161,600

Average annual deaths: 1,100

Life expectancy at birth (years):

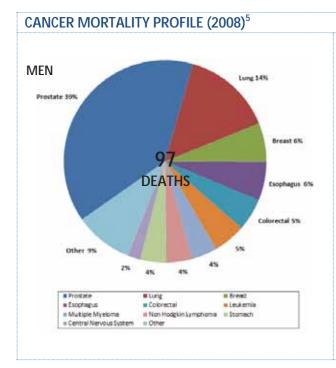
Total: 77 Male: 74 Female: 80

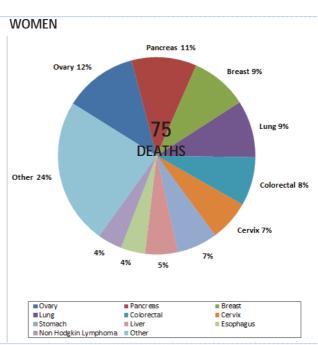
· Adult literacy rate: ...

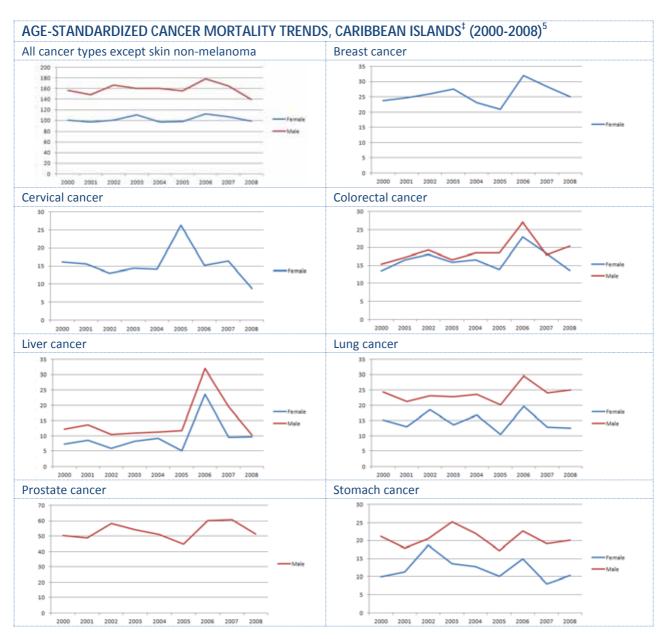
Gross National Income US\$ per capita: 5,190

RISK FACTORS			
Prevalence (%) of:	Total (%)	Males (%)	Females (%)
Current adult tobacco smokers ^{2,a}	•••	•••	•••
Adolescent tobacco smokers ²	20.7	24.5	17.3
Fruit and vegetable intake in adults ^{1,b}	•••		
Alcohol consumers, past 12 months ³			
Low physical activity in adults ^{1,c}	•••		
Obesity among adults (BMI ≥30) ¹	22.3	11.9	31.9
HPV prevalence (women with normal cytology) ⁴	•••		

Notes: a: age-standardized prevalence of tobacco smoking in adults (15 years+), 2011; b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.







Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	1,756	139.49	-0.07
	Female	1,452	98.93	0.57
Breast cancer		286	25.05	1.27
Cervical cancer		78	8.81	-2.26
Colorrectal cancer	Male	160	20.33	3.40
	Female	137	13.64	1.19
Liver cancer	Male	51	10.23	4.59
	Female	39	9.69	6.32
Lung cancer	Male	178	25.11	1.44
	Female	90	12.51	-1.58
Prostate cancer		556	51.35	1.00
Stomach cancer	Male	107	20.05	-0.33
	Female	81	10.37	-2.63

Notes: ‡: For this analysis, Caribbean Islands include those countries with very small numbers of annual cancer deaths and which required grouping together to enable trend analysis: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Dominica, Grenada, Cayman Islands, Turks & Caicos Islands, Virgin Islands (UK), Virgin Islands (USA), Montserrat, Saint Kitts and Nevis, Saint Vincent & the Grenadines, Saint Lucia, Bermuda, French Guyana, Martinique and Guadalupe; ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁶		
National integrated NCD policy, strategy or action plan		
Is there a national integrated NCD policy, strategy or action plan?	Under development	
Is cancer included in the overall NCD plan?	Yes	
First year of implementation	N/A	
Cancer policy, strategy or action plan		
Is there a Cancer policy, strategy or action plan?	Under development	
First year of implementation	N/A	
Cancer registry		
Is there a Cancer registry?	No	
Scope (National vs. Subnational)?	N/A	
Type of registry (Population vs. hospital based)?	N/A	
Last year with available data	N/A	

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ²			
Smoke free environments?	Up to two types of public places completely smoke-free		
Raised taxes on tobacco?	20% of retail price is tax		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁶			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Under development		
Harmful use of alcohol prevention and control ⁶			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	Under development		
HPV vaccination in national immunization program? ⁷	No		
Year of introduction/Target age group/Delivery strategy	N/A		
Estimated 3-dose coverage (calendar year)	N/A		
HBV vaccination in national immunization program? ⁷	Yes		
Year of introduction/Target age group	2002/3m-5m-7m		
Estimated 3-dose coverage (2011)	100%		

CANCER SCREENING		
Cervical Cancer		
Guidelines		
Are there cervical cancer screening guidelines available?		
Guideline recommendations (Tests/Age groups/Frequency)		
Availability and coverage of screening services		
Cervical cytology ⁶	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁶	Generally available in the public and the private sectors	
Screening coverage		

CANC	ER SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁶	Generally available in the public and the private sectors
Mammography ⁶	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁶	Generally available in the public and the private sectors
Exam or colonoscopy ⁶	Generally available in the public and the private sectors
Screening coverage	

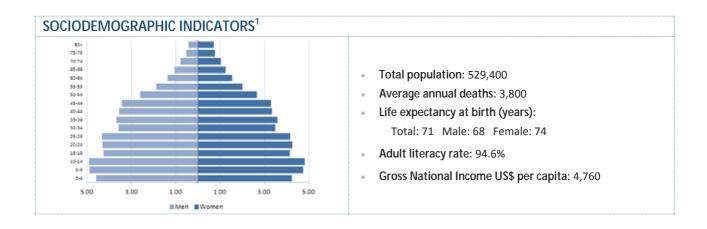
CANCER TREATMENT AND PALLIATIVE CARE				
Radiotherapy ⁸		Oral Morphine ⁶		
Availability of services? ⁶	Generally <u>not</u> available	Availability in the public health sector?	Generally available	
Total energy teletherapy units/million inhabitants		Covered by health insurance or publically funded?	No	
Total radiotherapy centers		Appears in the national list of essential medicines?	Yes	
Radiation oncologists		Opioid consumption ⁹		
Medical physicists		Total morphine equivalence, per capita	3.88	
Chemotherapy ⁶	Å	Community/home care available? ⁶		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available	

Notes: ...: Information not available; N/A: Not applicable; m: months.

Sources:

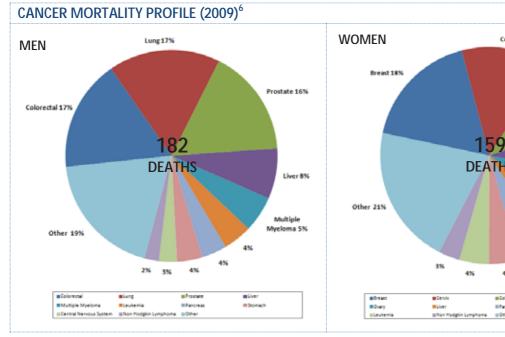
- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
- (3) WHO. Global Information System on Alcohol and Health, retrieved August 28,2013, from http://bit.ly/17zhuqZ.
- (4) ICO. Information Centre on HPV and Cancer, retrieved August 28, 2013, from $\underline{\text{http://www.hpvcentre.net/}}\ .$
- (5) PAHO/WHO Mortality Database, 2012.
- (6) PAHO/WHO Survey on National Capacity for the Prevention and Control of Non-communicable Diseases, 2013.
- (7) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas of the American Reported Coverage in the American Reported C
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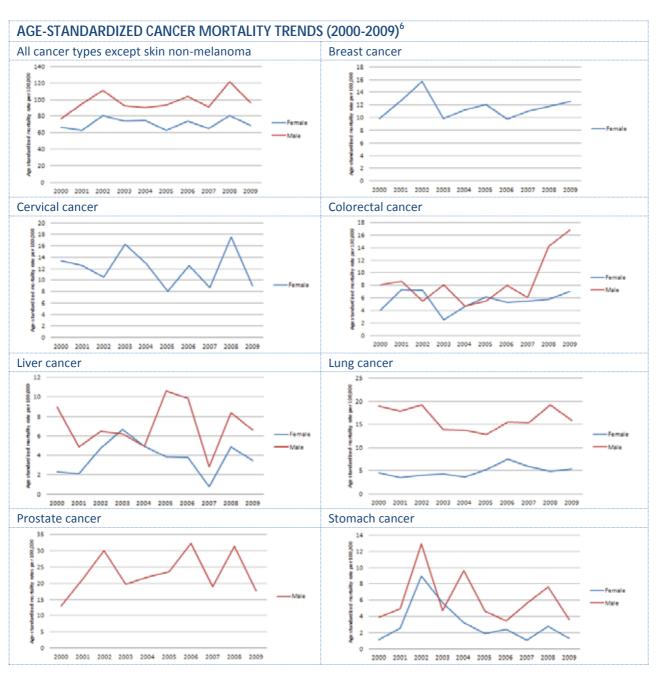
SURINAME



RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}		38.4	9.9
Adolescent tobacco smokers ³	19.2	20.7	16.6
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ⁴			•••
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	25.8	16.5	34.6
HPV prevalence (women with normal cytology) ⁵			

Notes: a: current cigarette smoking in adults (12-65 years); b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.





Cancer type	Sex	Number of deaths (2009)	ASMR (2009)	AAPC
All cancer types	Male	182	96.69	1.89
	Female	159	68.99	0.48
Breast cancer		28	12.53	-
Cervical cancer		21	8.99	-
Colorectal cancer	Male	31	17.16	-
	Female	17	7.40	-
Liver cancer	Male	14	7.03	-
	Female	9	3.89	-
Lung cancer	Male	31	16.26	-
	Female	13	5.77	-
Prostate cancer		30	17.56	-
Stomach cancer	Male	7	3.97	-
	Female	4	1.69	-

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCER REGISTRATION ⁷			
National integrated NCD policy, strategy or action plan			
Is there a national integrated NCD policy, strategy or action plan?	Yes		
Is cancer included in the overall NCD plan?	Yes		
First year of implementation	2012		
Cancer policy, strategy or action plan			
Is there a Cancer policy, strategy or action plan?	Not in effect		
First year of implementation	N/A		
Cancer registry			
Is there a Cancer registry?	Yes		
Scope (National vs. Subnational)?	National		
Type of registry (Population vs. hospital based)?	Other		
Last year with available data	2012		

CANCER PRIMARY PREVENTION POLICIES			
Tobacco control ³			
Smoke free environments?	Up to two types of public places completely smoke-free		
Raised taxes on tobacco?	61% of retail price is tax		
Health warning labels about the dangers of tobacco?	No warnings or small warnings		
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media		
Overweight and obesity prevention and control ⁷			
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No		
Harmful use of alcohol prevention and control ⁷			
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No		
HPV vaccination in national immunization program? ⁸	Yes		
Year of introduction/Target age group/Delivery strategy	2013//		
Estimated 3-dose coverage (calendar year)			
HBV vaccination in national immunization program? ⁸	Yes		
Year of introduction/Target age group	2003/Newborn-2m-4m-6m; risk groups		
Estimated 3-dose coverage (2012)	84%		

CANCER SCREENING		
Cervical Cancer		
Guidelines ⁹		
Are there cervical cancer screening guidelines available?	Yes	
Guideline recommendations (Tests/Age groups/Frequency)	Pap test/postmenopausal women/every 2 years VIA/23-55 years of age/every 2 years	
Availability and coverage of screening services		
Cervical cytology ⁷	Generally available in the public and the private sectors	
Visual Inspection with Acetic Acid ⁷	Generally available in the public and the private sectors	
Screening coverage ⁹	<15% of target population	

CANC	ER SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁷	Generally available in the public and the private sectors
Mammography ⁷	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁷	Generally available in the public and the private sectors
Exam or colonoscopy ⁷	Generally available in the public and the private sectors
Screening coverage	

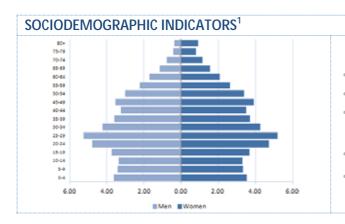
CAN	CER TREATMEI	NT AND PALLIATIVE CARE		
Radiotherapy ¹⁰		Oral Morphine ⁷		
Availability of services? ⁷	Generally available	Availability in the public health sector? Generally available		
Total energy teletherapy units/million inhabitants	1.9	Covered by health insurance or publically funded? Yes		
Total radiotherapy centers	1	Appears in the national list of essential medicines? Yes		
Radiation oncologists		Opioid consumption ¹¹		
Medical physicists		Total morphine equivalence, per capita		
Chemotherapy ⁷	*	Community/home care available? ⁷		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs? Generally available		

Notes: ...: Information not available; N/A: Not applicable; m: months.

Sources:

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
- (2) WHO Report on the Global Tobacco Epidemic, 2013, retrieved August 28, 2013 from http://www.who.int/tobacco
- (3) PAHO/WHO. Tobacco Control Report for the Region of the Americas, 2013. Washington D.C, USA, 2013.
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- (6) PAHO/WHO Mortality Database, 2012.
- $\textbf{(7)} \ \mathsf{PAHO/WHO} \ \mathsf{Survey} \ \mathsf{on} \ \mathsf{National} \ \mathsf{Capacity} \ \mathsf{for} \ \mathsf{the} \ \mathsf{Prevention} \ \mathsf{and} \ \mathsf{Control} \ \mathsf{of} \ \mathsf{Non-communicable} \ \mathsf{Diseases}, \ \mathsf{2013}.$
- (8) PAHO/WHO Comprehensive Family Immunization Unit. Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn4Td3; Immunization Reported Coverage in the Americas, by vaccine, retrieved August 28, 2013 from http://bit.ly/1dn4Td3; Immunization Country Profiles, retrieved August 28, 2013, from http://bit.ly/1dn59ZK
- (9) PAHO/WHO Survey of Caribbean Cervical Cancer Program Managers, 2013. unpublished
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TRINIDAD AND TOBAGO



Total population: 1,346,100

Average annual deaths: 11,000

Life expectancy at birth (years):

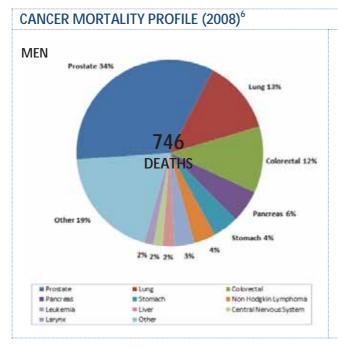
Total: 70 Male: 68 Female: 74

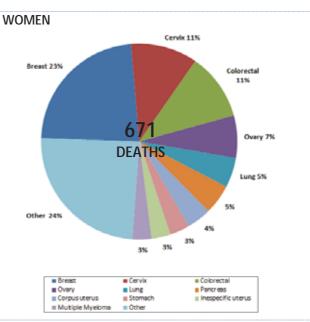
Adult literacy rate: 98.7%

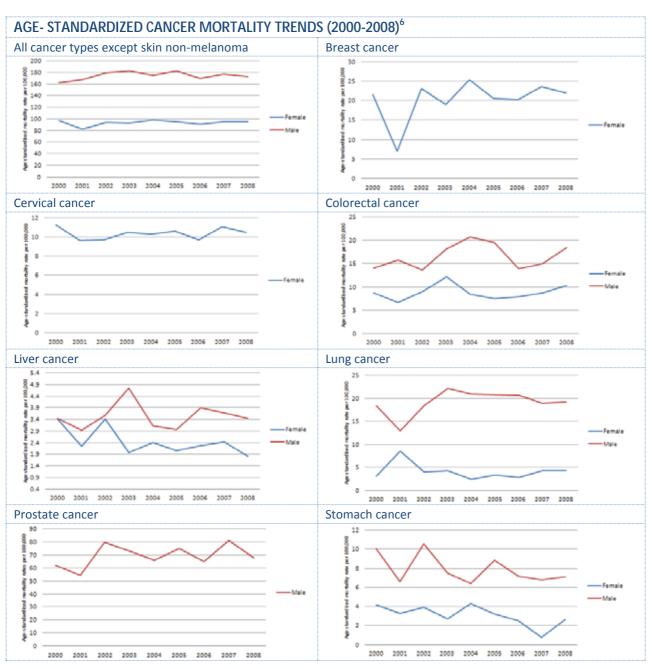
Gross National Income US\$ per capita: 16,700

RISK FACTORS			
Prevalence of:	Total (%)	Male (%)	Female (%)
Current adult tobacco smokers ^{2,a}	21.1	33.5	9.4
Adolescent tobacco smokers ³	18.4	20.0	16.3
Fruit and vegetable intake in adults ^{1,b}			
Alcohol consumers, past 12 months ⁴			•••
Low physical activity in adults ^{1,c}			
Obesity among adults (BMI ≥30) ¹	30	21.6	38.0
HPV prevalence (women with normal cytology) ⁵			35.2
	k	.4	4

Notes: a: current cigarette smoking in adults (15-64 years); b: % who eat ≤5 servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.







Cancer type	Sex	Number of deaths (2008)	ASMR (2008)	AAPC
All cancer types	Male	746	173.32	0.51
	Female	671	95.49	0.54
Breast cancer		155	21.96	-
Cervical cancer		74	10.48	-
Colorectal cancer Male	Male	86	18.80	-
	Female	74	10.70	-
Liver cancer Male	Male	15	3.46	-
	Female	13	1.83	-
Lung cancer	Male	95	19.57	-
	Female	33	4.72	-
Prostate cancer		252	67.77	-
Stomach cancer	Male	33	7.48	-
	Female	22	3.05	-

Notes: ASMR: Age-standardized mortality rate; AAPC: Average annual percent change; *: The AAPC is significantly different from zero at p=0.05.

CANCER PLANS AND CANCI	ER REGISTRATION ⁷			
National integrated NCD policy, strategy or action plan				
Is there a national integrated NCD policy, strategy or action plan?	Yes			
Is cancer included in the overall NCD plan?	Yes			
First year of implementation	2005			
Cancer policy, strategy or action plan				
Is there a Cancer policy, strategy or action plan?	Yes			
First year of implementation 2009				
Cancer registry				
Is there a Cancer registry?	Yes			
Scope (National vs. Subnational)? National				
Type of registry (Population vs. hospital based)?	Hospital based			
Last year with available data	2011			

CANCER PRIMARY PREVEI	NTION POLICIES
Tobacco control ³	
Smoke free environments?	All public spaces are completely smoke free
Raised taxes on tobacco?	33% of retail price is tax
Health warning labels about the dangers of tobacco?	No warnings or small warnings
Bans on tobacco advertising, promotion and sponsorship?	Complete absence of ban, or ban does not cover national television, radio and print media
Overweight and obesity prevention and control ⁷	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	Yes (2012)
Harmful use of alcohol prevention and control ⁷	
Is there a policy, strategy or action plan for reducing harmful use of alcohol? (First year of implementation)	No
HPV vaccination in national immunization program?8	Yes
Year of introduction/Target age group/Delivery strategy	2013/girls aged 11-12 years/Schools
Estimated 3-dose coverage (calendar year)	
HBV vaccination in national immunization program? ⁹	Yes
Year of introduction/Target age group	2003/2m-4m-6m; risk groups
Estimated 3-dose coverage (2012)	92%

CANCER SCREENING			
Cervical Cancer			
Guidelines ¹⁰			
Are there cervical cancer screening guidelines available?	Yes		
Guideline recommendations (Tests/Age groups/Frequency) Pap test/all age groups/annual			
Availability and coverage of screening services	•		
Cervical cytology ⁷	Generally available in the public and the private sectors		
Visual Inspection with Acetic Acid ⁷	Generally available in the public and the private sectors		
Screening coverage			

CANCE	R SCREENING
Breast Cancer	
Guidelines	
Are there breast cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Clinical Breast Examination ⁷	Generally available in the public and the private sectors
Mammography ⁷	Generally available in the public and the private sectors
Screening coverage	
Colorectal Cancer	
Guidelines	
Are there colorectal cancer screening guidelines available?	
Guideline recommendations (Tests/Age groups/Frequency)	
Availability and coverage of screening services	
Faecal occult blood test or fecal immunological test ⁷	Generally available in the public and the private sectors
Exam or colonoscopy ⁷	Generally available in the public and the private sectors
Screening coverage	

CAN	CER TREATMEI	NT AND PALLIATIVE CARE		
Radiotherapy ¹¹		Oral Morphine ⁷		
Availability of services? ⁷	Generally available	Availability in the public health sector?	Generally <u>not</u> available	
Total energy teletherapy units/million inhabitants	3	Covered by health insurance or publically funded?	Yes	
Total radiotherapy centers	3	Appears in the national list of essential medicines?	DK	
Radiation oncologists	5	Opioid consumption ¹²		
Medical physicists	8	Total morphine equivalence, per capita	3.93	
Chemotherapy ⁷	*	Community/home care available? ⁷		
Availability of services?	Generally available	Are community/home care services available for people with advanced stages of NCDs?	Generally available	

Notes: ...: Information not available; N/A: Not applicable; m: months.

Sources:

- (1) PAHO/WHO. Non communicable Diseases in the Americas: Basic Health Indicators 2011. Washington D.C, USA, 2011.
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