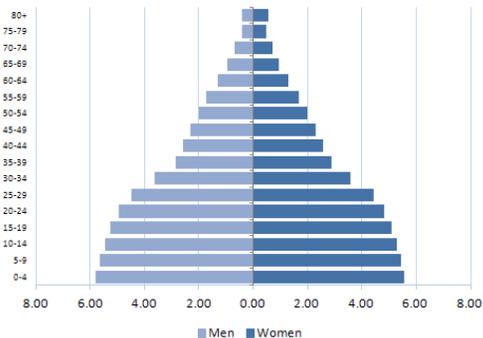


PARAGUAY

SOCIODEMOGRAPHIC INDICATORS¹



- **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

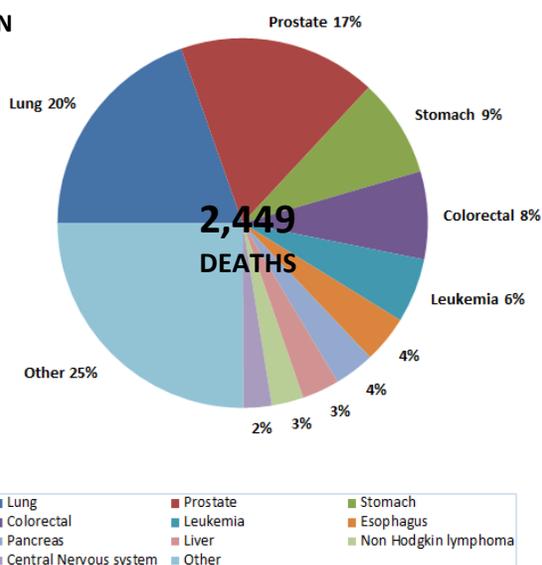
RISK FACTORS

Prevalence of:	Total (%)	Male (%)	Female (%)
Current tobacco smokers among adults ^{2,a}	19.0	30.0	8.0
Current use of any tobacco product among youth 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

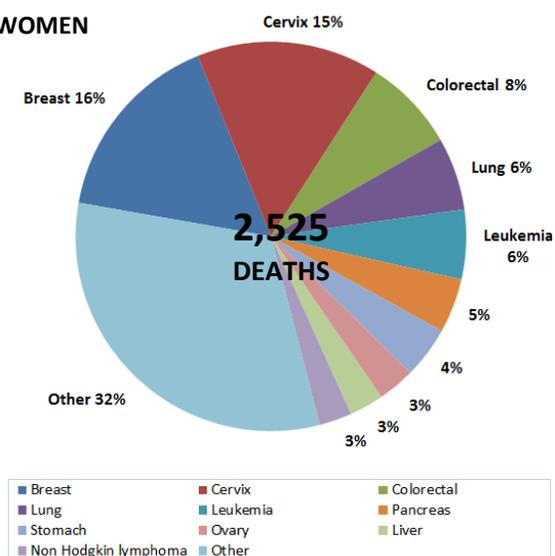
Notes: a: age-standardized prevalence of tobacco smoking in adults (15 years+), 2011; b: % who eat 5 or more servings of fruit and vegetables per day; c: % who are physically active for <600 met minutes; BMI: Body Mass Index; HPV: Human Papillomavirus.

CANCER MORTALITY PROFILE (2010)⁵

MEN

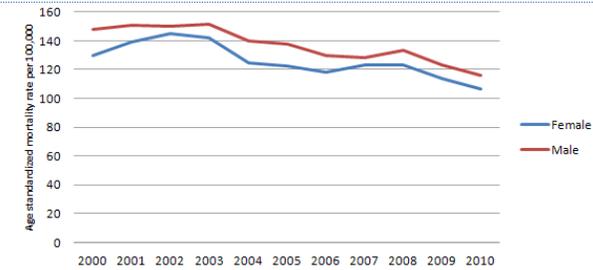


WOMEN

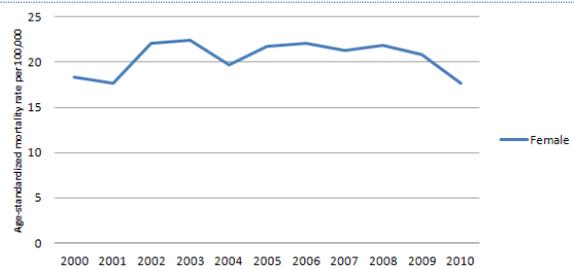


AGE-STANDARDIZED CANCER MORTALITY TRENDS (2000-2010)⁵

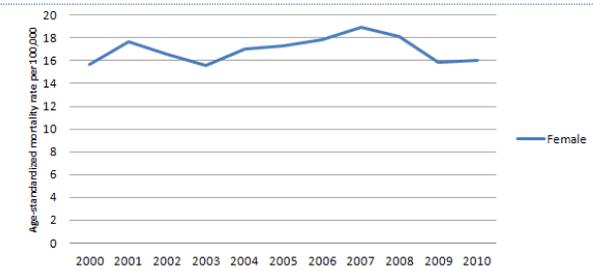
All cancer types except skin non-melanoma



Breast cancer



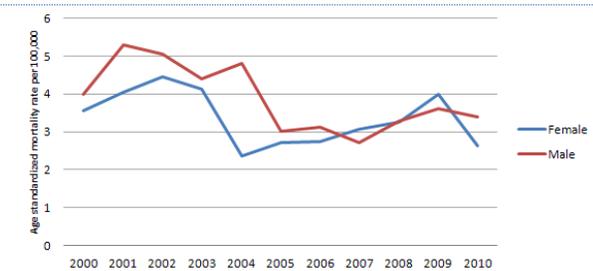
Cervical cancer



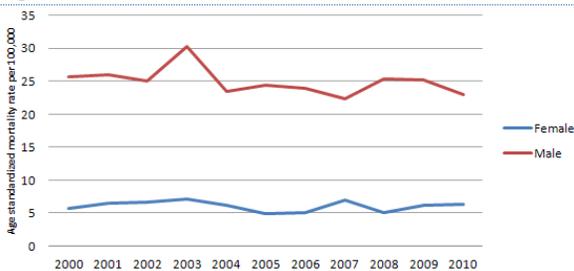
Colorectal cancer



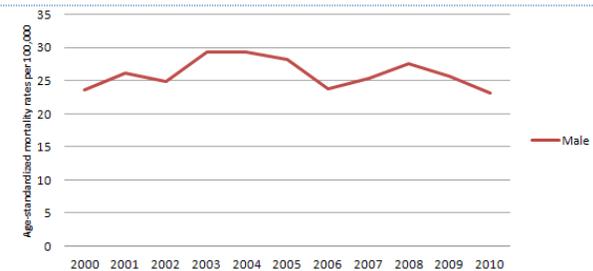
Liver cancer



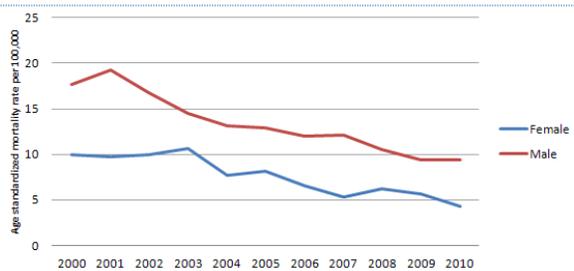
Lung cancer



Prostate cancer



Stomach cancer



Average annual percent change (AAPC) of age-standardized mortality rates, by cancer type (2000-2010)⁵

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*

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 REGISTRATION⁶

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

CANCER PRIMARY PREVENTION POLICIES

Tobacco control²	
Smoke free environments?	Up to two types of public places completely smoke-free
Raised taxes on tobacco?	Taxes are 17% of the final price
Health warning labels about the dangers of tobacco?	No warning or small warning
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 control⁶	
Is there a policy, strategy or action plan for reducing overweight/obesity? (First year of implementation)	No
Harmful use of alcohol prevention and control⁶	
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	2013/girls aged 10-11 years/schools
Estimated 3-dose coverage (calendar year)	...
HBV vaccination in national immunization program?⁸	
Year of introduction/target age group	2002/2m-4m-6m
Estimated 3-dose coverage (2012)	74%

CANCER SCREENING

Cervical cancer	
Guidelines⁹	
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 cytology⁶	Generally available in the public and the private sectors
Visual inspection with acetic acid⁶	Generally not 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 examination⁶	Generally available in the public and the private sectors
Mammography⁶	Generally not 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	
Fecal occult blood test or fecal immunological test⁶	Generally not available in the public and the private sectors
Exam or colonoscopy⁶	Generally not available in the public and the private sectors
Screening coverage	...

CANCER TREATMENT AND PALLIATIVE CARE			
Radiotherapy¹⁰		Oral morphine⁶	
Availability of services in the public health sector? ⁶	Generally not available	Availability in the public health sector?	Generally not 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 consumption¹¹	
Medical physicists	4	Total morphine equivalence, per capita	...
Chemotherapy⁶		Community/home care⁶	
Availability of services in the public health sector?	Generally available	Are community/home care services available in the public sector for people with advanced stages of NCDs?	Generally not 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/17zhugZ>.
- (4) ICO. Information Center 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) Ministry of Education and Culture of Paraguay, retrieved August 28, 2013 from <http://bit.ly/12sROWg>.
- (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) 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: <http://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>.