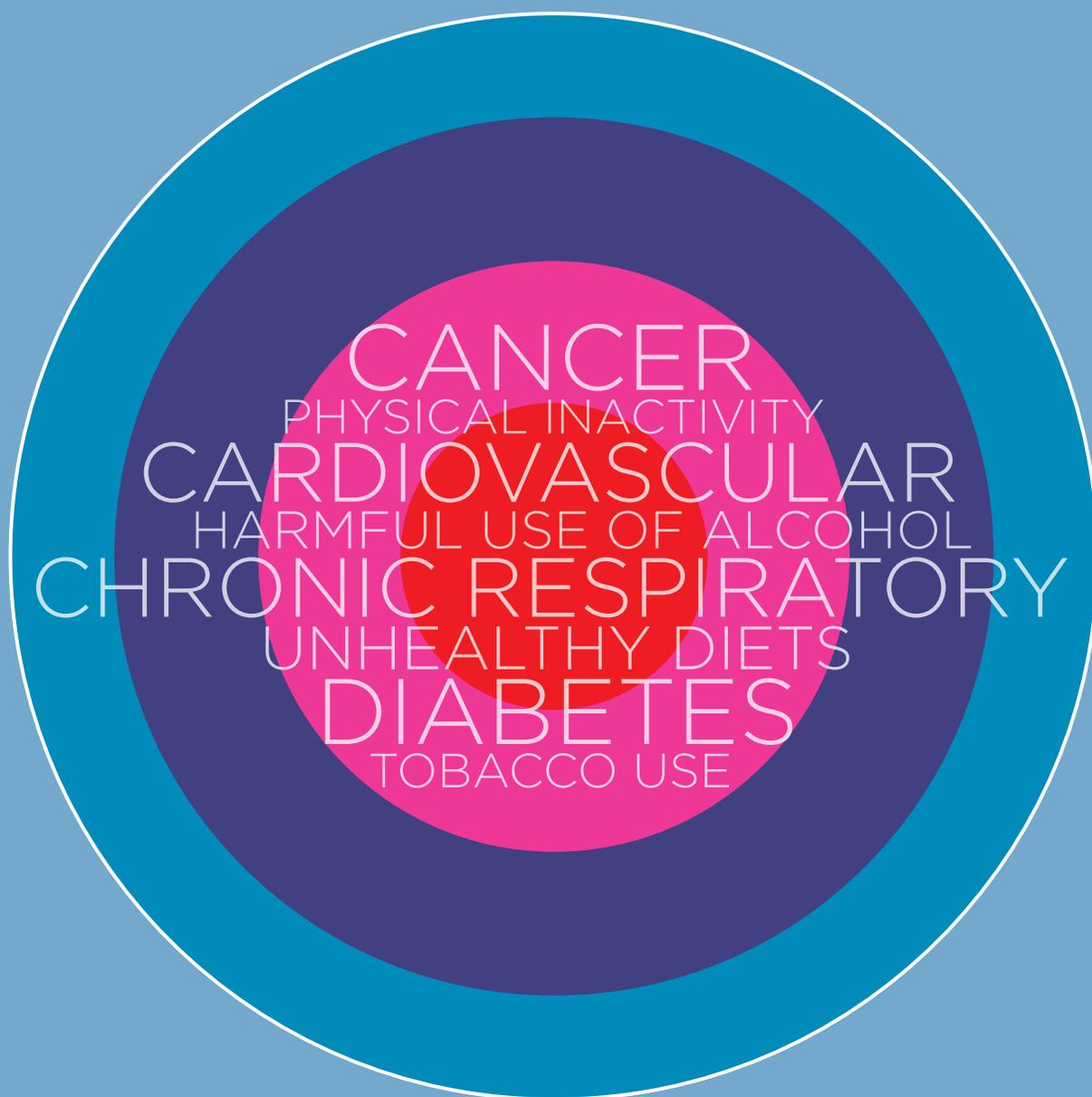


COUNTRY PROFILES

ON NONCOMMUNICABLE DISEASES



**Pan American
Health
Organization**

Regional Office of the
World Health Organization



1902 - 2012

COUNTRY PROFILES

ON NONCOMMUNICABLE DISEASES

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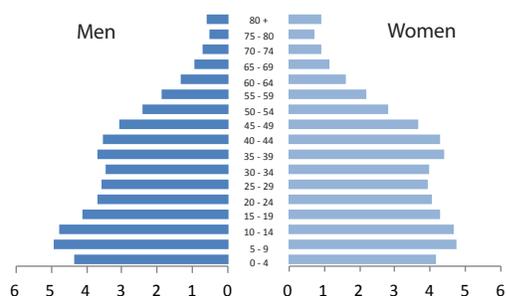
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INTRODUCTION

This compendium of country profiles summarizes the epidemiological situation and capacity within Ministries of Health for noncommunicable disease prevention and control (NCD) in Latin America and the Caribbean (LAC). National NCD program managers from Ministries of Health who were designated to participate in the CARMEN 2012 biennial meeting provided the country capacity information contained in this report, by responding to a written survey conducted by the Pan American Health Organization (PAHO) between March – April, 2012. Information presented in these reports is also from the PAHO publication NCDs: Basic Indicators, 2011 as well as the PAHO mortality database. Each country profile provides demographic information, data on NCD risk factors and premature mortality, national policies and plans, surveillance, health services and medicines related to NCDs.

NCDs IN ANTIGUA AND BARBUDA

Sociodemographic indicators

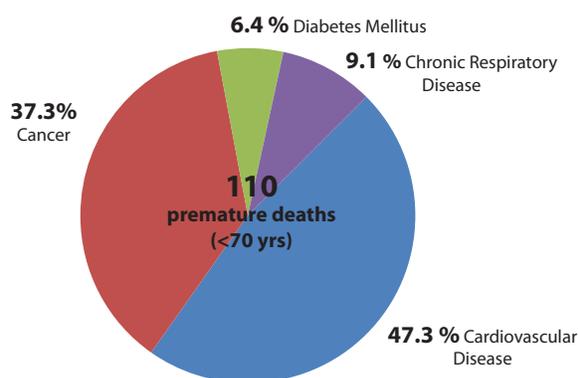


- Total population (thousands): **87.9**
- Average annual deaths (thousands): **0.5**
- Life expectancy at birth (years):
Total: **75.5** Male: **73.5** Female: **77.6**
- Adult literacy rate (%): **99.0**
- Gross National Income US\$ per capita: **12,130.0**
- % of population covered by any type health insurance: ...



Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **22.0 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	...	...
Adolescent tobacco smokers	7.4	8.2	6.1
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	26.7	30.7	21.4
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	68.2	63.5	73.0
Overweight among adults (BMI 25-29.9)	59.0	54.4	63.3
Obesity among adults (BMI ≥30)	25.8	18.1	33.1
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	...	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	42.4	47.1	37.8

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
Budget?	No
Measurable outcomes?	N/A
Monitoring and evaluation component?	N/A
Communications component?	N/A
Are there plans for specific diseases?	Yes

Note: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	No
Risk factors surveys	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	No	Not applicable	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes		✓
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	No	Not applicable	
VIA & cryotherapy in a single visit	No	Not applicable	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes	✓	
Radiotherapy	No	Not applicable	
CVD MANAGEMENT			
Cardiac bypass	No	Not applicable	
Angioplasty	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	No	Not applicable	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes		✓

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

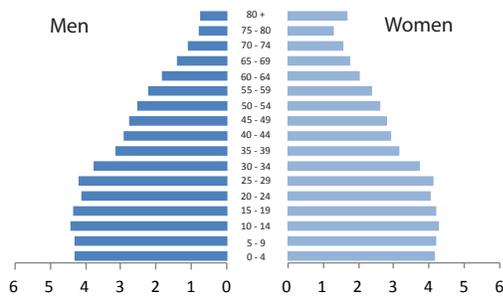
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Ena Henry, Statistician/NCDs Focal Point, Ministry of Health, Antigua & Barbuda.

NCDs IN ARGENTINA



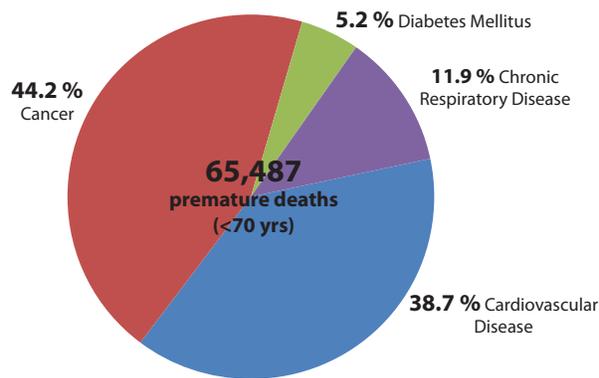
Sociodemographic indicators



- Total population (thousands): **40,764.6**
- Average annual deaths (thousands): **315.6**
- Life expectancy at birth (years):
Total: **76.0** Male: **72.2** Female: **79.7**
- Adult literacy rate (%): **97.7**
- Gross National Income US\$ per capita: **7,550.0**
- % of population covered by any type health insurance: **62.0**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **20.8 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	30.5	35.8	25.9
Adolescent tobacco smokers	24.5	21.1	27.3
Fruit and vegetable intake in adults ^a	4.6	4.1	5.0
Fruit and vegetable intake in adolescents ^a	14.0	13.6	14.4
Binge drinking among adults	8.4	14.3	3.2
Low physical activity in adults ^b	54.5	52.2	56.5
Low physical activity in adolescents ^c	78.5	70.8	85.1
Overweight among adults (BMI 25-29.9)	36.7	45.9	28.4
Obesity among adults (BMI ≥30)	20.5	22.0	19.0
Overweight among adolescents (BMI>+1SD)	17.2	18.8	12.7
Obesity among adolescents (BMI>+2SD)	2.2	1.8	2.7
Children <5 overweight	9.9	...	...
Adults with diabetes mellitus	9.0	8.0	9.9
Adults with raised BP and/or taking medication	32.3	31.7	32.8

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days;

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	Yes	✓	
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		Not specified
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	No		Not applicable
Beta blockers	Yes		Not specified
Statins	No		Not applicable
Tamoxifen	Yes		✓
Oral morphine	Yes		✓

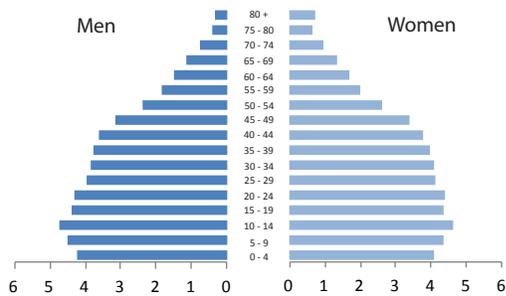
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Sebastián Laspiur, Health Promotion and NCDs Director, Ministry of Health, Argentina.

NCDs IN BAHAMAS



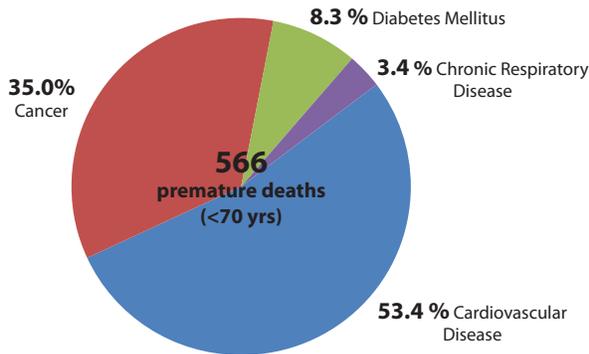
Sociodemographic indicators



- Total population (thousands): **347.2**
- Average annual deaths (thousands): **1.9**
- Life expectancy at birth (years):
Total: **75.7** Male: **72.5** Female: **78.6**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: ...
- % of population covered by any type health insurance: **51.4**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **29.8 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	43.0	51.6	27.0
Adolescent tobacco smokers	1.6	1.4	1.7
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	33.9	35.0	22.7
Obesity among adults (BMI ≥30)	53.0	42.5	60.5
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	...	...	...
Adults with diabetes mellitus	9.2	8.6	9.6
Adults with raised BP and/or taking medication	37.5	37.0	38.4

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	No
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

Notes: N/A: Not available.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes		✓
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	Yes		✓
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes		✓
Blood lipids monitoring	Yes		✓
HbA1C	Yes		✓
Diabetic foot examination	Yes		✓
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	Yes		<i>Not specified</i>
Visual inspection techniques (VIA)	Yes		<i>Not specified</i>
VIA & cryotherapy in a single visit	Yes		<i>Not specified</i>
BREAST CANCER			
Clinical examination	Yes		✓
Mammography	Yes		<i>Not specified</i>
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes		✓

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	Yes		✓
CVD MANAGEMENT			
Cardiac bypass	Yes		✓
Angioplasty	Yes		✓

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	Yes		✓

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		✓
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

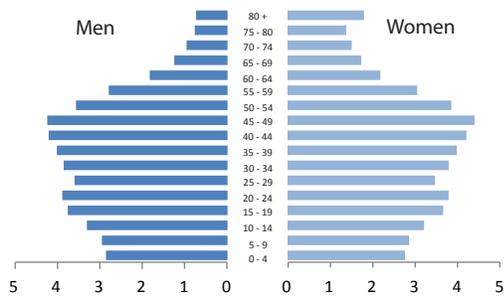
	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes		✓
Oral morphine	Yes		✓

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Delon Brennen, Deputy Chief Medical Officer, Ministry of Health, Bahamas.

NCDs IN BARBADOS

Sociodemographic indicators

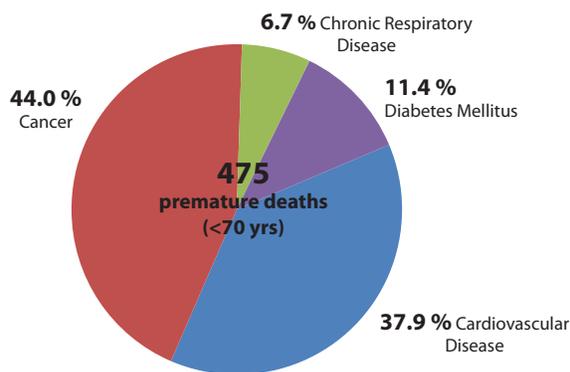


- Total population (thousands): **286.7**
- Average annual deaths (thousands): **2.4**
- Life expectancy at birth (years):
Total: **74.3** Male: **72.1** Female: **76.6**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: ...
- % of population covered by any type health insurance: **25.0**



Burden of disease

PREMATURE DEATHS (2006)



Premature deaths from NCDs (<70 yrs) account for **20.4%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	8.4	15.2	2.2
Adolescent tobacco smokers	11.6	14.3	9.3
Fruit and vegetable intake in adults ^a	4.6	3.4	5.7
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	...	21.9	9.7
Low physical activity in adults ^b	51.3	42.5	59.0
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	36.7	34.3	38.8
Obesity among adults (BMI ≥30)	28.5	20.3	35.5
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	5.7	...	...
Adults with diabetes mellitus	11.7	10.4	11.7
Adults with raised BP and/or taking medication	29.1	23.0	34.7

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No		Not applicable
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

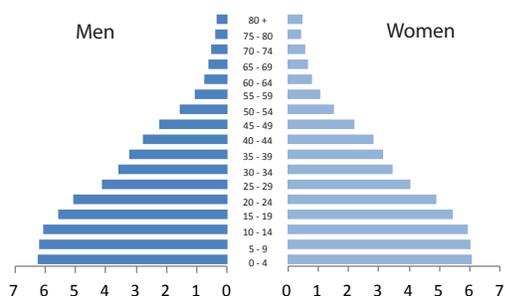
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- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Kenneth S George, Senior Medical Official, Ministry of Health, Barbados.

NCDs IN BELIZE



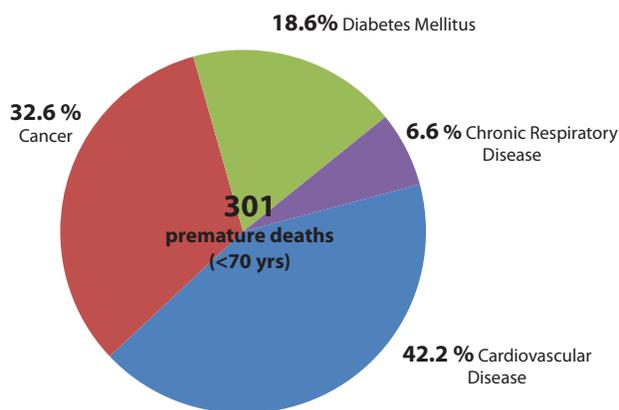
Sociodemographic indicators



- Total population (thousands): **317.9**
- Average annual deaths (thousands): **1.2**
- Life expectancy at birth (years):
Total: **76.1** Male: **74.7** Female: **77.6**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: **3,740.0**
- % of population covered by any type health insurance: ...

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **25.1%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	10.5	19.1	1.7
Adolescent tobacco smokers	26.7	36.2	18.6
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	7.6	13.1	2.7
Low physical activity in adults ^b	42.7	40.4	45.0
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	72.3	66.1	78.1
Obesity among adults (BMI ≥30)	37.9	26.7	48.8
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	13.7	...	...
Adults with diabetes mellitus	13.1	8.3	17.6
Adults with raised BP and/or taking medication	28.7	28.6	24.4

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
Budget?	N/A
Measurable outcomes?	N/A
Monitoring and evaluation component?	N/A
Communications component?	N/A
Are there plans for specific diseases?	No

Notes: N/A: Not applicable

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	Yes
Risk factors surveys	Yes
Are there disease specific registries?	No
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	No
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No		Not applicable
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes		✓
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		Not specified
Diagnostic mammography	Yes		✓
Chemotherapy	No		Not applicable
Radiotherapy	No		Not applicable
CVD MANAGEMENT			
Cardiac bypass	No		Not applicable
Angioplasty	No		Not applicable

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	No		Not applicable
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes		✓
Tamoxifen	Yes		Not specified
Oral morphine	Yes	✓	

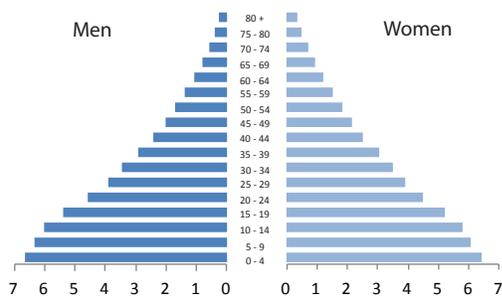
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Aisha Andrewin, Epidemiologist & NCDs Focal Point, Ministry of Health, Belize.

NCDs IN BOLIVIA



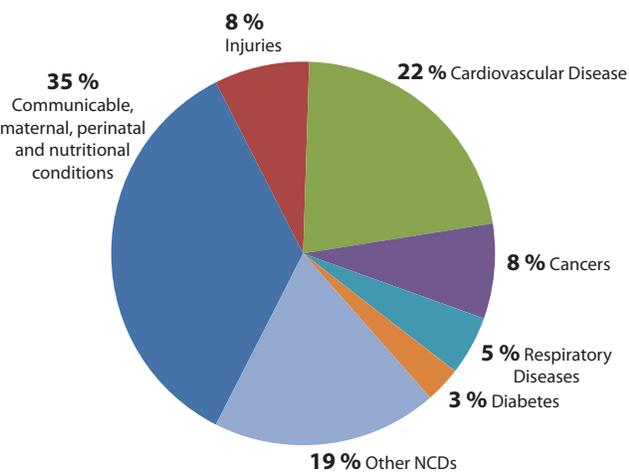
Sociodemographic indicators



- Total population (thousands): **10,088.1**
- Average annual deaths (thousands): **72.9**
- Life expectancy at birth (years):
Total: **66.8** Male: **64.5** Female: **69.1**
- Adult literacy rate (%): **90.7**
- Gross National Income US\$ per capita: **1,630.0**
- % of population covered by any type health insurance: ...

Burden of disease

PROPORTIONAL MORTALITY (2008)*



NCDs are estimated to account for **57%** of all deaths

* Estimates based on a combination of country life tables, cause of death models, regional cause of death patterns, and WHO and UNAIDS program estimates

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	35.8	29.8
Adolescent tobacco smokers	20.8	24.7	16.6
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	50.0	40.4	58.9
Obesity among adults (BMI ≥30)	18.9	10.0	27.1
Overweight among adolescents (BMI >+1SD)	...	...	...
Obesity among adolescents (BMI >+2SD)	...	...	...
Children <5 overweight	8.7	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	37.8	41.5	34.1

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	No
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	No
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	Not specified	
Blood pressure	Yes	Not specified	
Blood glucose	No	Not applicable	
Blood lipids	Yes	Not specified	
Individual risk management with a validated CV risk score	Yes	Not specified	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	Not specified	
Blood glucose monitoring	Yes	Not specified	
Blood lipids monitoring	No	Not applicable	
HbA1C	No	Not applicable	
Diabetic foot examination	Yes	Not specified	
Electrocardiogram	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP		Not specified	
HPV DNA testing		Not specified	
Visual inspection techniques (VIA)		Not specified	
VIA & cryotherapy in a single visit		Not specified	
BREAST CANCER			
Clinical examination	No	Not applicable	
Mammography	No	Not applicable	
COLORECTAL CANCER			
Fecal occult blood test	No	Not applicable	
Digital exam	No	Not applicable	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	Not free	
Diagnostic mammography	Yes	Not free	
Chemotherapy	Yes	Not free	
Radiotherapy	Yes	Not free	
CVD MANAGEMENT			
Cardiac bypass	Yes	Not specified	
Angioplasty	Yes	Not specified	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	Not specified	
Photocoagulation for retinopathy	Yes	Not specified	
Dialysis	Yes	✔	
OTHER			
Home care for patients with terminal or advanced disease	No	Not applicable	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	Not free	
Aspirin	Yes	Not free	
Metformin	Yes	Not free	
Glibenclamide	Yes	Not free	
Thiazide diuretics	Yes	Not free	
ACE inhibitors	Yes	Not free	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	Not free	
Beta blockers	Yes	Not free	
Statins	Yes	Not free	
Tamoxifen	Yes	Not free	
Oral morphine	Yes	Not free	

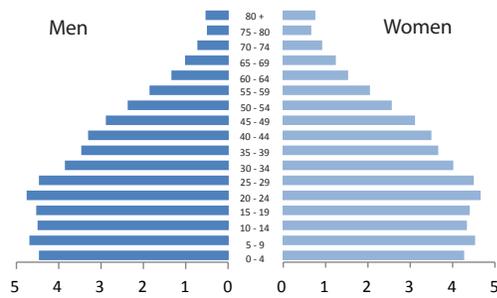
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Proportional mortality: WHO. NCD Country Profiles, 2011.
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Absalón Pacheco Mercado, NCD National Program Coordinator, Ministry of Health and Sports, Bolivia.

NCDs IN BRAZIL



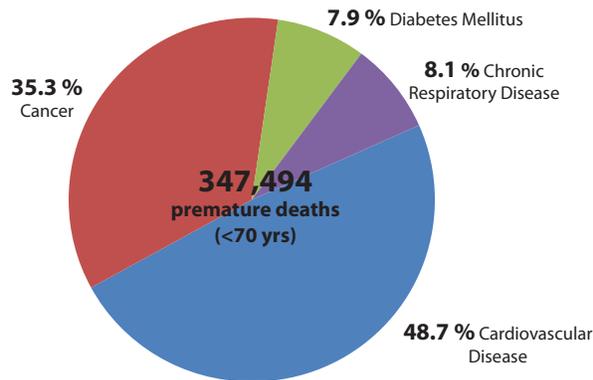
Sociodemographic indicators



- Total population (thousands): **196,655.0**
- Average annual deaths (thousands): **1,261.1**
- Life expectancy at birth (years):
Total: **73.7** Male: **70.3** Female: **77.1**
- Adult literacy rate (%): **90.0**
- Gross National Income US\$ per capita: **8,070.0**
- % of population covered by any type health insurance: **100**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **27.6 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	16.7	20.4	13.7
Adolescent tobacco smokers	6.3	6.4	6.3
Fruit and vegetable intake in adults ^a	18.8	16.0	21.3
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	19.0	28.7	10.6
Low physical activity in adults ^b	12.1	14.7	9.9
Low physical activity in adolescents ^c	56.9	43.8	68.7
Overweight among adults (BMI 25-29.9)	42.5	48.6	36.5
Obesity among adults (BMI ≥30)	16.9	16.7	18.1
Overweight among adolescents (BMI>+1SD)	16.0	...	...
Obesity among adolescents (BMI>+2SD)	7.2	...	...
Children <5 overweight	7.3	...	...
Adults with diabetes mellitus	5.7	5.4	5.9
Adults with raised BP and/or taking medication	23.4	21.6	24.8

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <60 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days;

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	<i>Not specified</i>
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	<i>Not specified</i>
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	Yes	✓	
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes		Not specified

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes		✓
Metformin	Yes	✓	
Glibenclamide	Yes		Not specified
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

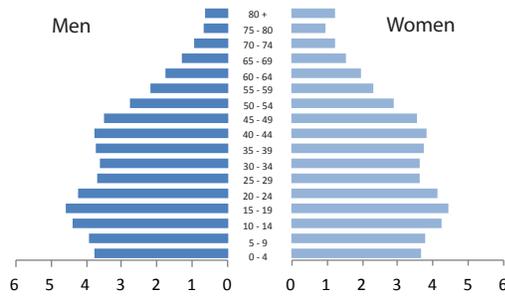
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Deborah Carvalho Malta, NCDs Coordinator, Ministry of Health, Brazil.

NCDs IN CHILE



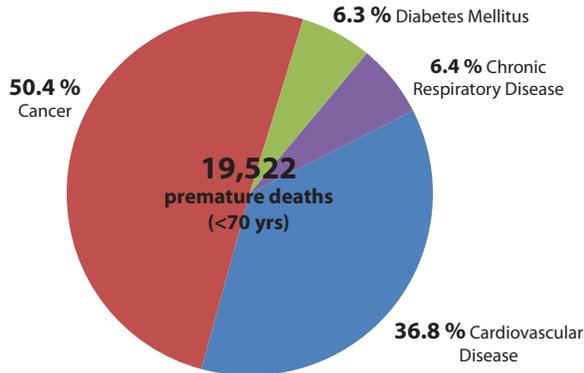
Sociodemographic indicators



- Total population (thousands): **17,269.5**
- Average annual deaths (thousands): **98.2**
- Life expectancy at birth (years):
Total: **79.2** Male: **76.1** Female: **82.2**
- Adult literacy rate (%): **98.6**
- Gross National Income US\$ per capita: **9,470.0**
- % of population covered by any type health insurance: **89.0**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **19.9%** of all deaths

RISK FACTORS

Prevalence (%) of ^a :	Total	Males	Females
Current adult tobacco smokers	42.9	46.8	39.2
Adolescent tobacco smokers	35.6	30.9	38.6
Fruit and vegetable intake in adults ^b	15.8	13.6	17.9
Fruit and vegetable intake in adolescents ^b	23.2	23.1	23.2
Binge drinking among adults	30.8	45	17
Low physical activity in adults ^c	75.4	79.1	71.8
Low physical activity in adolescents ^d	79.9	72.6	87.4
Overweight among adults (BMI 25-29.9)	42.8	51.1	34.7
Obesity among adults (BMI ≥30)	28.7	21.8	35.5
Overweight among adolescents (BMI>+1SD)	26.3	31.7	21.0
Obesity among adolescents (BMI>+2SD)	4.2	4.9	3.4
Children <5 overweight	9.5	...	...
Adults with diabetes mellitus	8.9	7.7	10.1
Adults with raised BP and/or taking medication	26.1	29.5	22.8

Notes: a: adults aged 25-64; b: % who eat ≤5 servings of fruit and vegetables per day; c: physically active for <600 met minutes; d: physically active less than 60 min per day in 5-7 of the last 7 days;

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
Budget?	Yes
Measurable outcomes?	Yes
Monitoring and evaluation component?	Yes
Communications component?	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	Yes
Risk factors surveys	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score ^a	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	No		Not applicable
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography ^b	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	No		Not applicable
Digital exam	No		Not applicable

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular; a: as part of the preventive medicine examination; b: all women 50-54 years of age.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes		Not specified
Angioplasty	Yes		Not specified

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes	✓	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen ^a	Yes	✓	
Oral morphine ^a	Yes	✓	

Note: Patients under the GES plan (Guaranteed Health Plan).

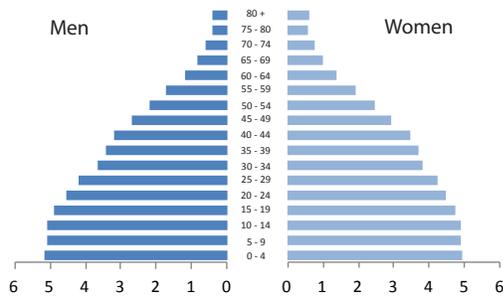
Sources:

- » Sociodemographic indicators and adolescents risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Adult risk factors and hypertension and diabetes prevalence: NCDs surveillance unit, Department of epidemiology, Ministry of Health of Chile, 2012.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by María Cristina Escobar Fritzsche, NCDs Department Chief, Ministry of Health, Chile.

NCDs IN COLOMBIA



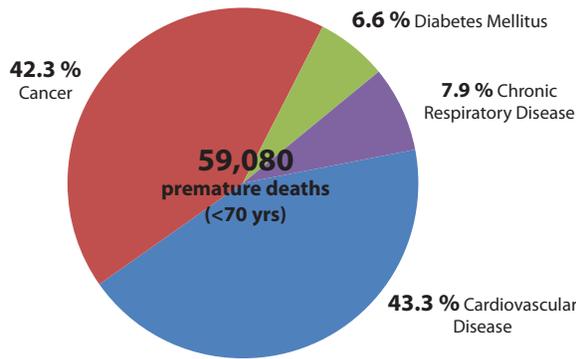
Sociodemographic indicators



- Total population (thousands): **46,927.1**
- Average annual deaths (thousands): **260,6**
- Life expectancy at birth (years):
Total: **73.8** Male: **70.2** Female: **77.5**
- Adult literacy rate (%): **93.2**
- Gross National Income US\$ per capita: **4,990.0**
- % of population covered by any type health insurance: **84.9**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **22.7 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	12.8	19.5	7.4
Adolescent tobacco smokers	20.1	20.2	20.1
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	15.5	13.2	17.4
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	79	...	...
Low physical activity in adolescents ^c	84.9	81.9	87.2
Overweight among adults (BMI 25-29.9)	32.3	...	...
Obesity among adults (BMI ≥30)	13.7	...	...
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	4.2	...	...
Adults with diabetes mellitus	2.6	3.2	2.1
Adults with raised BP and/or taking medication	22.8	27.8	19.1

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <60 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days;

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	No
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	No
<i>Monitoring and evaluation component?</i>	No
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No	Not applicable	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	No	Not applicable	
Diabetic foot examination	No	Not applicable	
Electrocardiogram	Yes	Not specified	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	Yes	✓	
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	Not specified	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	Not specified	
Digital exam	Yes	Not specified	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	Not specified	
Angioplasty	Yes	Not specified	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	Not specified	
Dialysis	Yes	Not specified	
OTHER			
Home care for patients with terminal or advanced disease	Yes	Not specified	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	Not specified	
Aspirin	Yes	Not specified	
Metformin	Yes	Not specified	
Glibenclamide	Yes	Not specified	
Thiazide diuretics	Yes	Not specified	
ACE inhibitors	Yes	Not specified	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	Not specified	
Beta blockers	Yes	Not specified	
Statins	Yes	Not specified	
Tamoxifen	Yes	Not specified	
Oral morphine	Yes	Not specified	

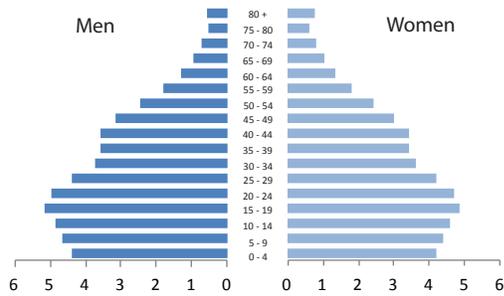
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Fernando Ramirez Campos, NCDs Subdirector, Ministry of Health and Social Protection, Colombia.

NCDs IN COSTA RICA



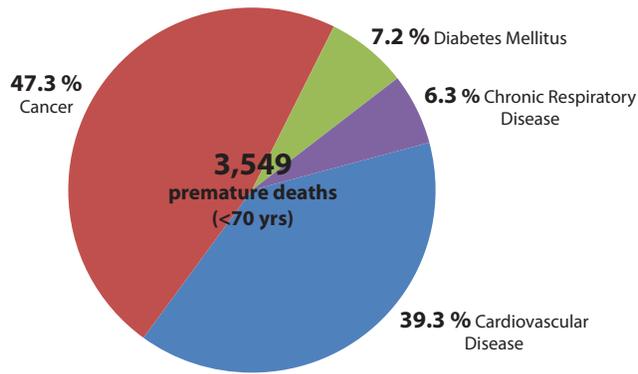
Sociodemographic indicators



- Total population (thousands): **4,726.6**
- Average annual deaths (thousands): **20.4**
- Life expectancy at birth (years):
Total: **79.4** Male: **77.0** Female: **81.9**
- Adult literacy rate (%): **96.1**
- Gross National Income US\$ per capita: **6,260.0**
- % of population covered by any type health insurance: **87.6**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **17.4%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	14.2	21.7	6.6
Adolescent tobacco smokers	9.5	10.4	8.4
Fruit and vegetable intake in adults ^a	22.3	24.2	20.4
Fruit and vegetable intake in adolescents ^a	19.5	21.4	17.6
Binge drinking among adults	6.2	9.5	3.2
Low physical activity in adults ^b	50.9	38.6	63.4
Low physical activity in adolescents ^c	72.6	64.1	81.0
Overweight among adults (BMI 25-29.9)	36.1	37.2	34.8
Obesity among adults (BMI ≥30)	26.0	21.2	31.0
Overweight among adolescents (BMI>+1SD)	27.8	28.7	27.3
Obesity among adolescents (BMI>+2SD)	8.9	10.2	7.6
Children <5 overweight	9.6	...	...
Adults with diabetes mellitus	7.9	8.3	7.6
Adults with raised BP and/or taking medication	25.6	26.1	25.0

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	Yes

Notes: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		Not specified
Photocoagulation for retinopathy	No		Not applicable
Dialysis	Yes		Not specified
OTHER			
Home care for patients with terminal or advanced disease	Yes	✓	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

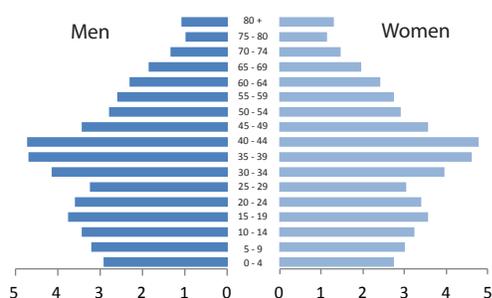
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Margarita Claramunt Garro, NCDs Focal Point, Ministry of Health, Costa Rica.

NCDs IN CUBA



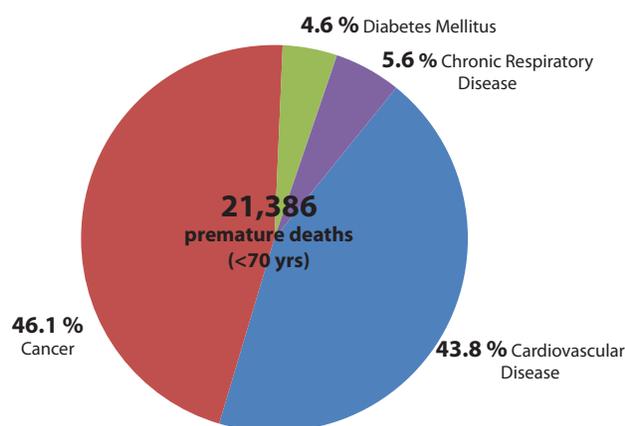
Sociodemographic indicators



- Total population (thousands): **11,253.7**
- Average annual deaths (thousands): **83.9**
- Life expectancy at birth (years):
Total: **79.2** Male: **77.2** Female: **81.2**
- Adult literacy rate (%): **99.8**
- Gross National Income US\$ per capita: **5,550.0**
- % of population covered by any type health insurance: **100.0**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **25.5 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	44.8	29.6
Adolescent tobacco smokers	14.6	15.7	13.6
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	42.5	37.7	47.0
Obesity among adults (BMI ≥30)	20.5	13.3	27.5
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	...	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	28.8	26.7	31.0

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	Yes

Note: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes	✓	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

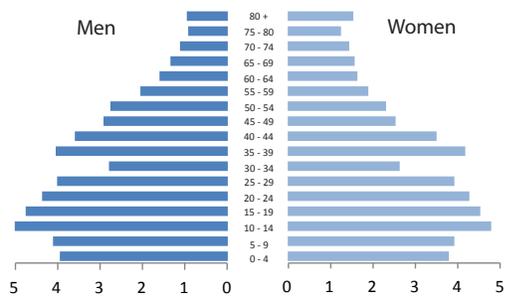
	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Orlando Landrove Rodríguez, National NCD Program Coordinator, Ministry of Health, Cuba.

NCDs IN DOMINICA

Sociodemographic indicators

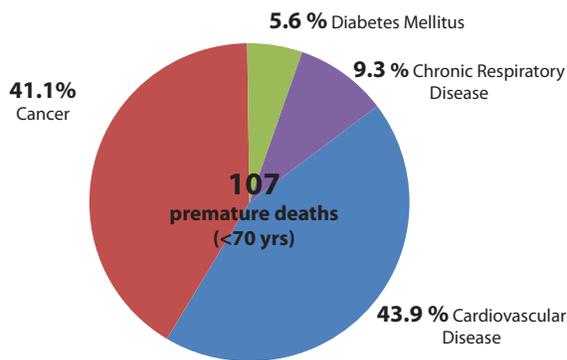


- Total population (thousands): **73.0**
- Average annual deaths (thousands): **0.6**
- Life expectancy at birth (years):
Total: **76.0** Male: **73.0** Female: **79.1**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: **4,900.0**
- % of population covered by any type health insurance: ...



Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **17.8 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	10.2	16.6	3.2
Adolescent tobacco smokers	17.2	19.3	13.5
Fruit and vegetable intake in adults ^a	8.7	8.9	7.4
Fruit and vegetable intake in adolescents ^a	26.4	29.2	23.4
Binge drinking among adults	...	31.4	8.5
Low physical activity in adults ^b	24.0	14.5	34.3
Low physical activity in adolescents ^c	76.3	75.2	77.4
Overweight among adults (BMI 25-29.9)	24.9	20.9	29.2
Obesity among adults (BMI ≥30)	20.2	8.6	32.7
Overweight among adolescents (BMI>+1SD)	24.8	24.0	25.9
Obesity among adolescents (BMI>+2SD)	9.1	8.8	9.6
Children <5 overweight	...	...	...
Adults with diabetes mellitus	17.7	22.0	12.0
Adults with raised BP and/or taking medication	32.1	32.0	32.1

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes ^a
<i>Budget?</i>	No
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	NE
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	No

Notes: a: Draft plan; NE: Not specified.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes		✓
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	No	Not applicable	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes		✓
Blood lipids monitoring	Yes		✓
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	No	Not applicable	
VIA & cryotherapy in a single visit	No	Not applicable	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	No	Not applicable	
CVD MANAGEMENT			
Cardiac bypass	No	Not applicable	
Angioplasty	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No	Not applicable	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	Not specified	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

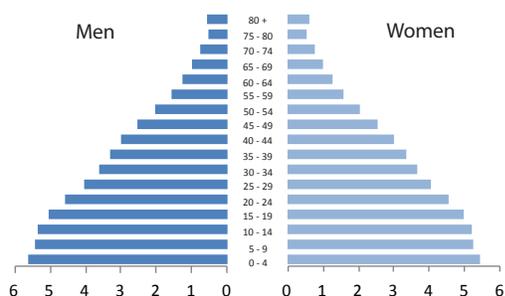
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Antheia A. James, NCDs Focal Point, Ministry of Health, Dominica.

NCDs IN DOMINICAN REPUBLIC



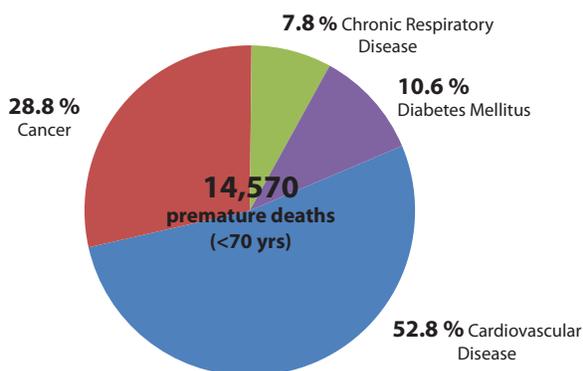
Sociodemographic indicators



- Total population (thousands): **10,056.2**
- Average annual deaths (thousands): **60.1**
- Life expectancy at birth (years):
Total: **73.5** Male: **70.9** Female: **76.3**
- Adult literacy rate (%): **88.2**
- Gross National Income US\$ per capita: **4,550.0**
- % of population covered by any type health insurance: **21.0**

Burden of disease

PREMATURE DEATHS (2004)



Premature deaths from NCDs (<70 yrs) account for **25.2%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	14.9	11.0
Adolescent tobacco smokers	14.9	18.4	11.9
Fruit and vegetable intake in adults ^a	24.8	29.6	19.8
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	9.9	15.2	4.4
Low physical activity in adults ^b	35.7	31.5	40.0
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	54.3	48.8	38.0
Obesity among adults (BMI ≥30)	16.4	12.7	18.3
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	8.3	...	...
Adults with diabetes mellitus	5.5	2.2	2.8
Adults with raised BP and/or taking medication	16.8	4.9	9.8

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
Budget?	Yes
Measurable outcomes?	Yes
Monitoring and evaluation component?	Yes
Communications component?	Yes
Are there plans for specific diseases?	No

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	Yes
Risk factors surveys	No
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes		✓
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes		✓
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes		✓
HbA1C	No	Not applicable	
Diabetic foot examination	Yes	✓	
Electrocardiogram	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	No	Not applicable	
VIA & cryotherapy in a single visit	No	Not applicable	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	Not specified	
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	Not specified	
Diagnostic mammography	Yes	Not specified	
Chemotherapy	Yes	Not specified	
Radiotherapy	Yes	Not specified	
CVD MANAGEMENT			
Cardiac bypass	Yes	Not specified	
Angioplasty	Yes	Not specified	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	Not specified	
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	Yes	✓	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	Not specified	
Oral morphine	No	Not applicable	

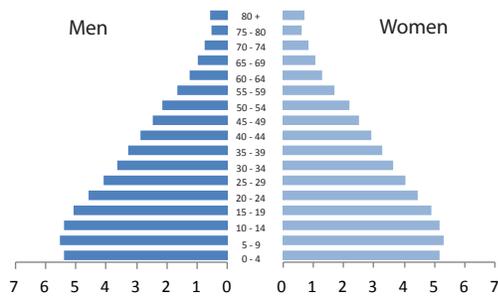
Sources:

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- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Daniel Mola de Oleo, NCDs National Program, Ministry of Health, Dominican Republic.

NCDs IN ECUADOR



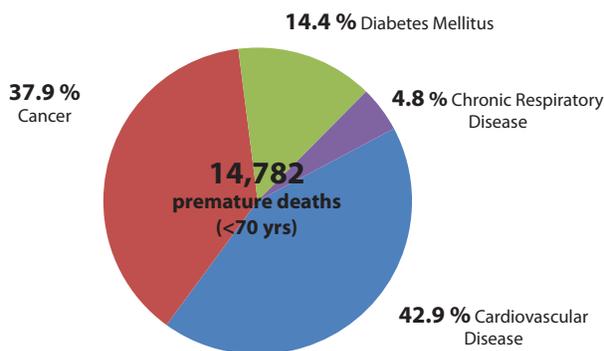
Sociodemographic indicators



- Total population (thousands): **14,757.3**
- Average annual deaths (thousands): **74.5**
- Life expectancy at birth (years):
Total: **75.7** Male: **72.8** Female: **78.7**
- Adult literacy rate (%): **84.2**
- Gross National Income US\$ per capita: **3,970.0**
- % of population covered by any type health insurance: **23.0**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **19.8 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	...	...
Adolescent tobacco smokers	28.6	31.2	26.1
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	24.3	23.3	25.3
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	85.2	81.1	89.2
Overweight among adults (BMI 25-29.9)	56.0	51.8	60.2
Obesity among adults (BMI ≥30)	22.0	15.7	28.2
Overweight among adolescents (BMI>+1SD)	28.6	31.2	26.0
Obesity among adolescents (BMI>+2SD)	7.3	8.9	6.1
Children <5 overweight	5.1	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	38.6	42.7	34.6

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	No
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

Note N/A: Not applicable.

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	No
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No		Not applicable
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	No		Not applicable
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

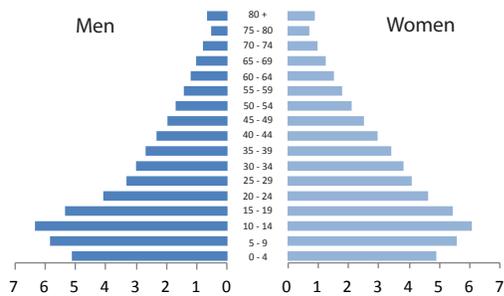
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Gabriela Aguinaga, Coordinator of the National Direction for Normalization, Ministry of Public Health, Ecuador.

NCDs IN EL SALVADOR



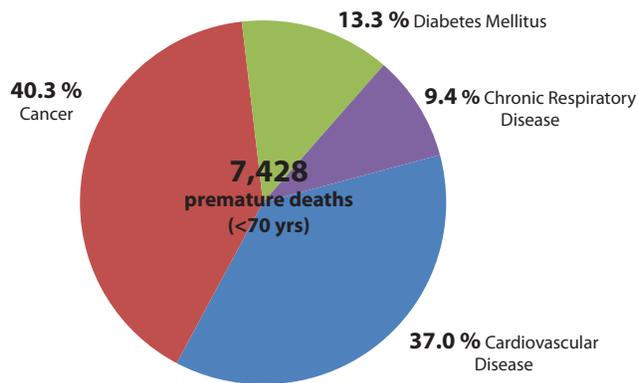
Sociodemographic indicators



- Total population (thousands): **6,227.5**
- Average annual deaths (thousands): **41.0**
- Life expectancy at birth (years):
Total: **72.3** Male: **67.4** Female: **76.9**
- Adult literacy rate (%): **84.1**
- Gross National Income US\$ per capita: **3,370.0**
- % of population covered by any type health insurance: **20.5**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **18.1 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	13.9	24.3	5.5
Adolescent tobacco smokers	19.0	24.4	15.4
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	4.7	8.8	1.5
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	38.3	44.3	34.7
Obesity among adults (BMI ≥30)	23.7	19.9	27.1
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	5.8	...	...
Adults with diabetes mellitus	7.6	8.7	6.8
Adults with raised BP and/or taking medication	20.1	21.4	19.0

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	No
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	No

Note: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	No
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes		✓
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	No	Not applicable	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes		✓
Blood lipids monitoring	Yes	✓	
HbA1C	Yes		✓
Diabetic foot examination	Yes		✓
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	Yes		✓
VIA & cryotherapy in a single visit	Yes		✓
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes		✓

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	Yes		✓
CVD MANAGEMENT			
Cardiac bypass	Yes		✓
Angioplasty	Yes		✓

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No	Not applicable	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		✓
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

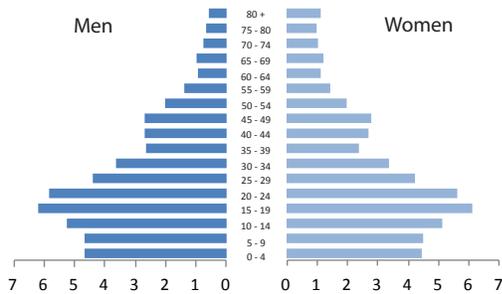
	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes	✓	
Statins	Yes		✓
Tamoxifen	No	Not applicable	
Oral morphine	No	Not applicable	

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Raúl Armando Palomo Escobar, Integrated Management of Prevalent Diseases Program Manager, Ministry of Health, El Salvador.

NCDs IN GRENADA

Sociodemographic indicators

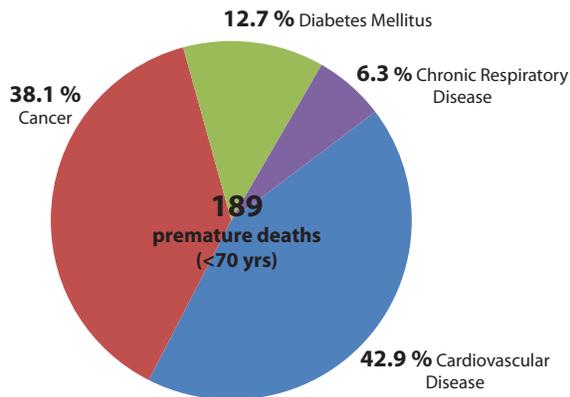


- Total population (thousands): **108.4**
- Average annual deaths (thousands): **0.9**
- Life expectancy at birth (years):
Total: **73.0** Male: **70.5** Female: **75.8**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: **5,580.0**
- % of population covered by any type health insurance: ...



Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **21.0 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	...	...
Adolescent tobacco smokers	4.7	7.0	3.0
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	33.4	34.4	32.6
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	84.8	81.9	86.9
Overweight among adults (BMI 25-29.9)	...	...	...
Obesity among adults (BMI ≥30)	...	...	...
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	...	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	...	...	...

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	Yes

Notes: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes		Not free
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes		Not specified
HbA1C	Yes		Not free
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes		Not free

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	No		Not applicable
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes ^a		Not applicable
COLORECTAL CANCER			
Fecal occult blood test	Yes		Not specified
Digital exam	Yes		Not specified

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular. a: Available privately.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		Not specified
Diagnostic mammography	Yes ^a		Not applicable
Chemotherapy	Yes	✓	
Radiotherapy	No		Not applicable
CVD MANAGEMENT			
Cardiac bypass	No		Not applicable
Angioplasty	No		Not applicable

Notes: a: Available privately.

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes ^a		Not applicable
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

Notes: a: Available privately.

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		Not free ^a
Aspirin	Yes		Not free ^a
Metformin	Yes		Not free ^a
Glibenclamide	Yes		Not free ^a
Thiazide diuretics	Yes		Not free ^a
ACE inhibitors	Yes		Not free ^a

Note: Available to all patients with a 5 EC dollar co-payment per monthly supply.

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		Not free ^a
Beta blockers	Yes		Not free ^a
Statins	Yes	✓	
Tamoxifen	Yes ^b		Not applicable
Oral morphine	Yes	✓	

Notes: b: Available privately.

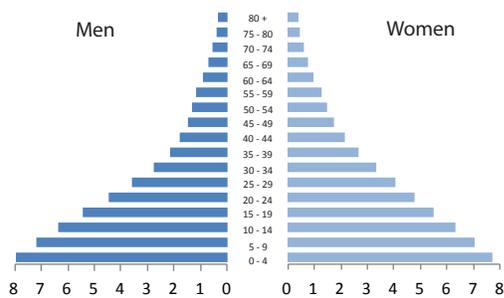
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: Regional Mortality Information System. Regional Health Observatory. PAHO/WHO, 2011.
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by George Mitchell, Senior Medical Officer, Minister of Health, Grenada.

NCDs IN GUATEMALA



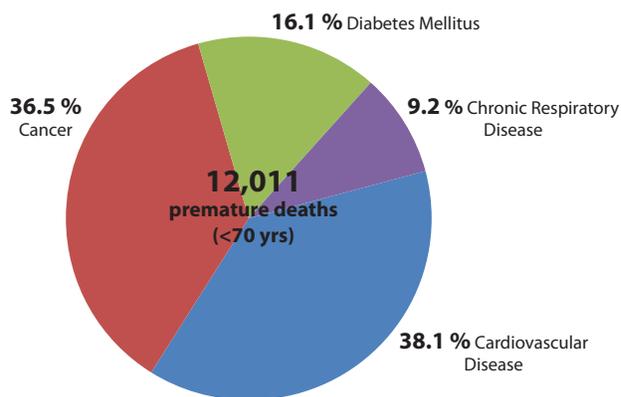
Sociodemographic indicators



- Total population (thousands): **14,757.3**
- Average annual deaths (thousands): **80.5**
- Life expectancy at birth (years):
Total: **71.3** Male: **67.7** Female: **74.8**
- Adult literacy rate (%): **74.5**
- Gross National Income US\$ per capita: **2,650.0**
- % of population covered by any type health insurance: **23.4**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **14.9%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	19.5	35.2	4.4
Adolescent tobacco smokers	16.6	19.7	13.3
Fruit and vegetable intake in adults ^a	19.0	20.4	18.1
Fruit and vegetable intake in adolescents ^a	26.7	26.6	26.7
Binge drinking among adults	6.9	13.1	1.2
Low physical activity in adults ^b	50.4	56.0	45.0
Low physical activity in adolescents ^c	75.9	71.4	80.8
Overweight among adults (BMI 25-29.9)	38.5	38.8	38.2
Obesity among adults (BMI ≥30)	21.3	16.0	25.8
Overweight among adolescents (BMI >+1SD)	27.1	26.8	27.3
Obesity among adolescents (BMI >+2SD)	7.5	9.4	5.4
Children <5 overweight	5.6	...	...
Adults with diabetes mellitus	8.2	8.8	7.7
Adults with raised BP and/or taking medication	13.6	12.7	14.4

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	No
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	No
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	No
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	No		Not applicable
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	No		Not applicable
HbA1C	No		Not applicable
Diabetic foot examination	Yes	✓	
Electrocardiogram	No		Not applicable

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	No		Not applicable
COLORECTAL CANCER			
Fecal occult blood test	No		Not applicable
Digital exam	No		Not applicable

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	Yes		✓
CVD MANAGEMENT			
Cardiac bypass	Yes		✓
Angioplasty	Yes		✓

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	No		Not applicable
Metformin	Yes	✓	
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	No		Not applicable
Beta blockers	Yes		✓
Statins	No		Not applicable
Tamoxifen	No		Not applicable
Oral morphine	No		Not applicable

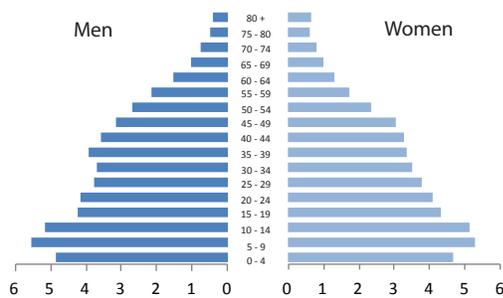
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Eduardo Alberto Palacios Cacacho, NCDs and Cancer National Program Coordinator, Ministry of Health and Social Assistance, Guatemala.

NCDs IN GUYANA



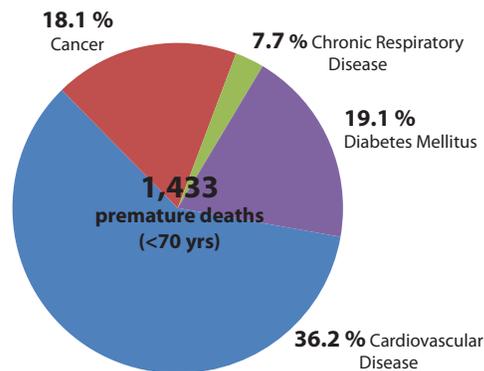
Sociodemographic indicators



- Total population (thousands): **756.0**
- Average annual deaths (thousands): **4.4**
- Life expectancy at birth (years):
Total: **70.0** Male: **66.9** Female: **73.1**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: **2,660.0**
- % of population covered by any type health insurance: ...

Burden of disease

PREMATURE DEATHS (2006)



Premature deaths from NCDs (<70 yrs) account for **28.6%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	...	...
Adolescent tobacco smokers	12.0	17.4	6.8
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	31.7	34.3	29.4
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	78.7	76.2	80.9
Overweight among adults (BMI 25-29.9)	29.0	26.0	30.7
Obesity among adults (BMI ≥30)	22.4	14.3	26.9
Overweight among adolescents (BMI >+1SD)	15.3	14.6	15.9
Obesity among adolescents (BMI >+2SD)	4.1	4.6	3.6
Children <5 overweight	6.8	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	40.5	42.6	38.1

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes ^a
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	NS
<i>Monitoring and evaluation component?</i>	NS
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

Notes: N/A: Not applicable; NS: Not specified; a: Draft plan.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No		Not applicable
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes		Not specified
Angioplasty	Yes		Not specified

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	Yes ^a		Not specified

Notes: a: Available in one region.

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	No		Not applicable

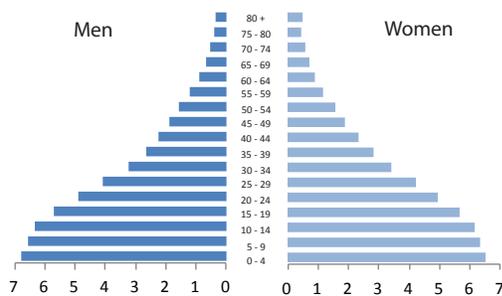
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by por Marcia Paltoo, Director, Chronic Disease Department, Ministry of Health, Guyana.

NCDs IN HONDURAS



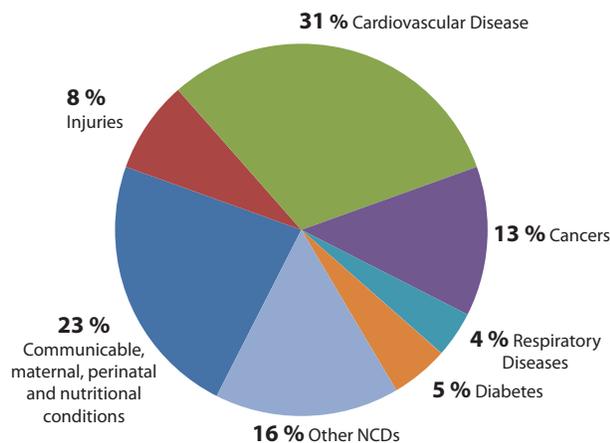
Sociodemographic indicators



- Total population (thousands): **7,754.7.1**
- Average annual deaths (thousands): **37.5**
- Life expectancy at birth (years):
Total: **73.3** Male: **71.0** Female: **75.6**
- Adult literacy rate (%): **83.6**
- Gross National Income US\$ per capita: **1,800.0**
- % of population covered by any type health insurance: **11.6**

Burden of disease

PROPORTIONAL MORTALITY (2008)*



NCDs are estimated to account for **69%** of all deaths

* Estimates based on a combination of country life tables, cause of death models, regional cause of death patterns, and WHO and UNAIDS program estimates

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	16.4	27.2	3.4
Adolescent tobacco smokers	20.4	22.8	18.2
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	9.9	17.3	1.7
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	34.9	36.6	33.2
Obesity among adults (BMI ≥30)	19.3	15.5	24.5
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	5.8	...	...
Adults with diabetes mellitus	5.4	5.5	5.4
Adults with raised BP and/or taking medication	23.0	24.4	21.2

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	Yes

Note: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	No
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	No
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	No
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score		<i>Not specified</i>	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	No	<i>Not applicable</i>	
HbA1C	Yes	✓	
Diabetic foot examination	No	<i>Not applicable</i>	
Electrocardiogram	No	<i>Not applicable</i>	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	<i>Not applicable</i>	
Visual inspection techniques (VIA)	No	<i>Not applicable</i>	
VIA & cryotherapy in a single visit	No	<i>Not applicable</i>	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test		<i>Not specified</i>	
Digital exam		<i>Not specified</i>	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	Yes		✓
CVD MANAGEMENT			
Cardiac bypass	No	<i>Not applicable</i>	
Angioplasty	No	<i>Not applicable</i>	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No	<i>Not applicable</i>	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		✓
Aspirin	Yes	✓	
Metformin	Yes		✓
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes		✓

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes		✓
Oral morphine	No	<i>Not applicable</i>	

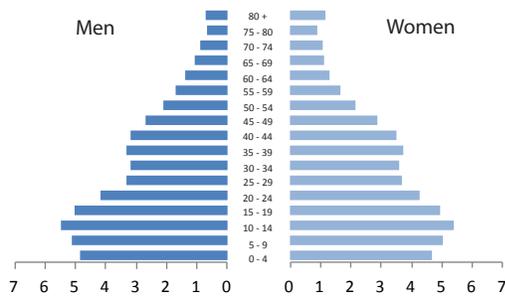
Sources:

- Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- Proportional mortality: WHO. NCD Country Profiles, 2011.
- Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Rosa María Duarte Flores, Cancer Control Program Manager and NCDs Focal Point, Secretary of Health, Honduras.

NCDs IN JAMAICA



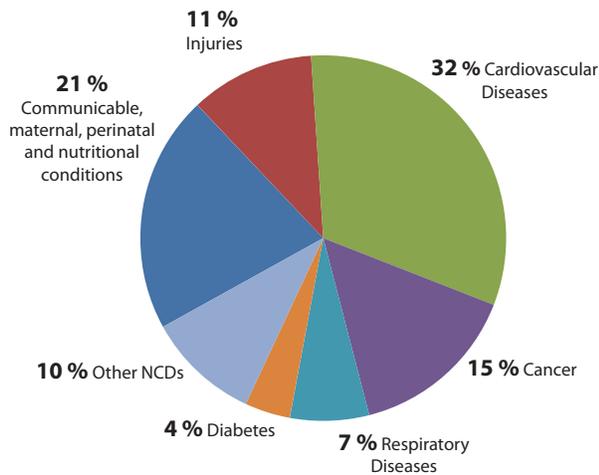
Sociodemographic indicators



- Total population (thousands): **2,751.3**
- Average annual deaths (thousands): **19.9**
- Life expectancy at birth (years):
Total: **73.2** Male: **70.7** Female: **75.8**
- Adult literacy rate (%): **86.4**
- Gross National Income US\$ per capita: **4,590.0**
- % of population covered by any type health insurance: **18.9**

Burden of disease

PROPORTIONAL MORTALITY (2008)*



Se estima que las **ENT** representan un **68%** de todas las muertes

* Estimaciones basadas en tablas de mortalidad por país, modelos de causa de defunción, esquemas regionales de causas de defunción y estimaciones de programas de la OMS y UNUSIDA.

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	14.5	22.1	7.2
Adolescent tobacco smokers	20.2	22.5	17.7
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	28.2	29.6	26.8
Binge drinking among adults	...	15.0	3.0
Low physical activity in adults ^b	15.7	12.2	19.2
Low physical activity in adolescents ^c	21.2	17.1	25.3
Overweight among adults (BMI 25-29.9)	26.4	25.8	27.0
Obesity among adults (BMI ≥30)	25.3	12.4	37.7
Overweight among adolescents (BMI>+1SD)	21.7	18.1	25.2
Obesity among adolescents (BMI>+2SD)	6.0	5.3	6.7
Children <5 overweight	7.5	...	...
Adults with diabetes mellitus	12.2	9.8	14.6
Adults with raised BP and/or taking medication	35.3	33.8	36.9

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
Budget?	No
Measurable outcomes?	Yes
Monitoring and evaluation component?	Yes
Communications component?	No
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	Yes
Risk factors surveys	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No		Not applicable
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes		Not specified
Electrocardiogram	No		Not applicable

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	Yes		Not specified
Visual inspection techniques (VIA)	No		Not applicable
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes		Not specified
Angioplasty	Yes		Not specified

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

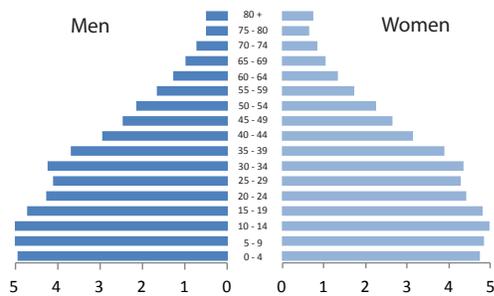
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Proportional mortality: WHO. NCD Country Profiles, 2011.
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Tamu Davidson, Medical Epidemiologist Chronic Disease and Injuries Prevention, Ministry of Health, Jamaica.

NCDs IN MEXICO



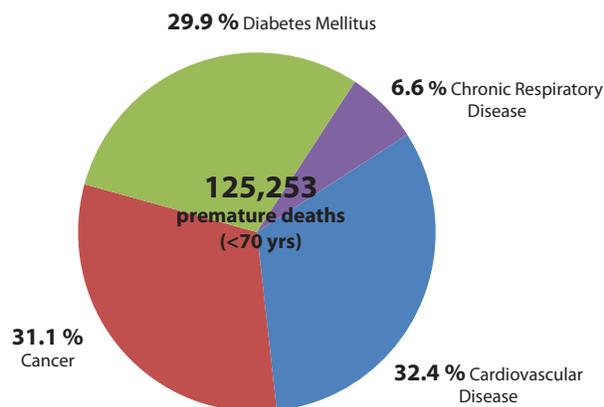
Sociodemographic indicators



- Total population (thousands): **114,793.3**
- Average annual deaths (thousands): **549.4**
- Life expectancy at birth (years):
Total: **77.0** Male: **74.6** Female: **79.4**
- Adult literacy rate (%): **93.4**
- Gross National Income US\$ per capita: **8,960.0**
- % of population covered by any type health insurance: **49.3**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **22.8%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	15.9	24.8	7.8
Adolescent tobacco smokers	28.6	27.8	28.5
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	...	5.7	2.9
Low physical activity in adults ^b	37.7	37.1	38.4
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	...	42.7	37.4
Obesity among adults (BMI ≥30)	...	26.1	35.6
Overweight among adolescents (BMI >+1SD)	...	...	...
Obesity among adolescents (BMI >+2SD)	...	...	...
Children <5 overweight	7.6	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	30.8	31.5	30.8

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	No
Are there plans for specific diseases?	Yes

Note: NS: Not specified.

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	NS
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	NS
Established mechanisms for data dissemination?	NS

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing			<i>Not specified</i>
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit			<i>Not specified</i>
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test			<i>Not specified</i>
Digital exam			<i>Not specified</i>

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes		<i>Not specified</i>
Angioplasty	Yes		<i>Not specified</i>

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes ^a		<i>Not specified</i>

Notes: a: Available in some cities.

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		<i>Not specified</i>
Aspirin	Yes		<i>Not specified</i>
Metformin	Yes		<i>Not specified</i>
Glibenclamide	Yes		<i>Not specified</i>
Thiazide diuretics	Yes		<i>Not specified</i>
ACE inhibitors	Yes		<i>Not specified</i>

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		<i>Not specified</i>
Beta blockers	Yes		<i>Not specified</i>
Statins	Yes		<i>Not specified</i>
Tamoxifen			<i>Not specified</i>
Oral morphine			<i>Not specified</i>

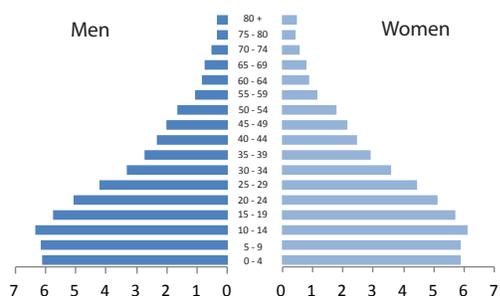
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Blanca Estela Fernández García, Diabetes Program Coordinator, Secretary of Health, Mexico.

NCDs IN NICARAGUA



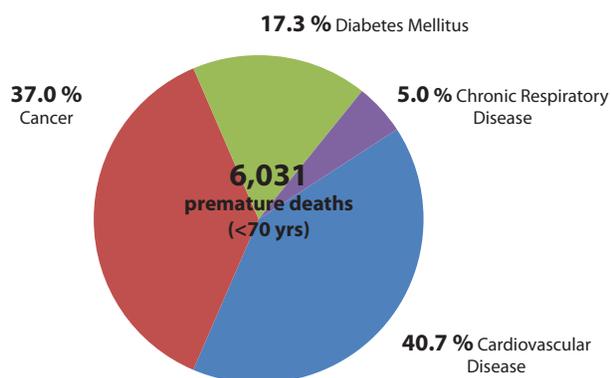
Sociodemographic indicators



- Total population (thousands): **5,869.9**
- Average annual deaths (thousands): **27.5**
- Life expectancy at birth (years):
Total: **74.1** Male: **71.1** Female: **77.2**
- Adult literacy rate (%): **93.6**
- Gross National Income US\$ per capita: **1,000.0**
- % of population covered by any type health insurance: ...

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **21.9 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	20.4	33.2	8.4
Adolescent tobacco smokers	25.1	30.4	20.5
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	12.7	21.3	5.2
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	37.5	36.5	38.7
Obesity among adults (BMI ≥30)	29.1	23.8	34.2
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	5.2	...	...
Adults with diabetes mellitus	9.8	9.1	10.5
Adults with raised BP and/or taking medication	28.9	25.4	32.2

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	No
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	No
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

Note: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	No
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes		<i>Not specified</i>

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		<i>Not applicable</i>
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass			<i>No response</i>
Angioplasty	No		<i>Not applicable</i>

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy			<i>No response</i>
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No		<i>Not applicable</i>

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	No		<i>Not applicable</i>

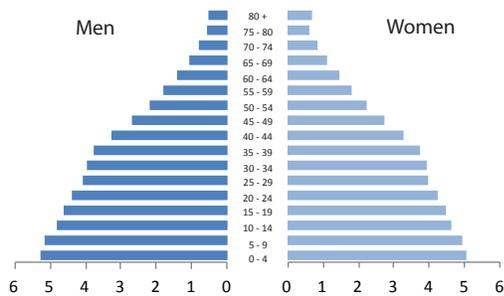
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- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Wendy Idiaquez Mendoza, General Director of quality of care, Ministry of Health, Nicaragua.

NCDs IN PANAMA



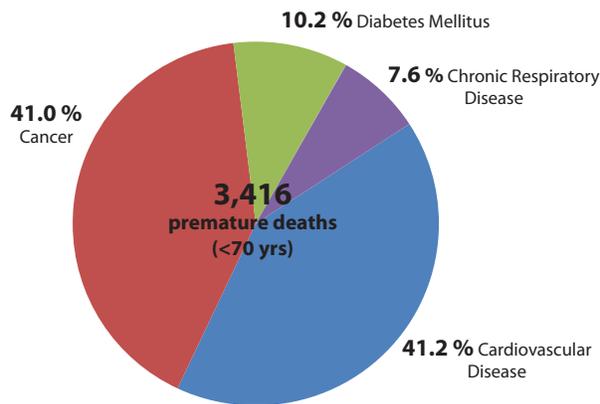
Sociodemographic indicators



- Total population (thousands): **3,571.2**
- Average annual deaths (thousands): **18.1**
- Life expectancy at birth (years):
Total: **76.2** Male: **73.7** Female: **78.9**
- Adult literacy rate (%): **93.6**
- Gross National Income US\$ per capita: **6,570.0**
- % of population covered by any type health insurance: **65.7**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **18.9%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	9.4	17.4	4.0
Adolescent tobacco smokers	8.4	10.5	6.5
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	...	...	...
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	23.2	19.7	25.1
Obesity among adults (BMI ≥30)	3.0	2.0	4.1
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	6.2	...	...
Adults with diabetes mellitus	5.4	4.3	6.0
Adults with raised BP and/or taking medication	22.0	17.8	24.8

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
Budget?	N/A
Measurable outcomes?	N/A
Monitoring and evaluation component?	N/A
Communications component?	N/A
Are there plans for specific diseases?	NS

Notes: NA: Not applicable; NS: Not specified.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	No
Risk factors surveys	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	No
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes		✓
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	Yes		✓
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes		✓
Blood glucose monitoring	Yes		✓
Blood lipids monitoring	Yes		✓
HbA1C	Yes		✓
Diabetic foot examination	Yes		✓
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes		✓
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	No		Not applicable

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	Yes		✓
CVD MANAGEMENT			
Cardiac bypass	Yes		Not specified
Angioplasty	Yes		Not specified

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	Yes		✓

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		✓
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes		✓
Oral morphine	Yes		✓

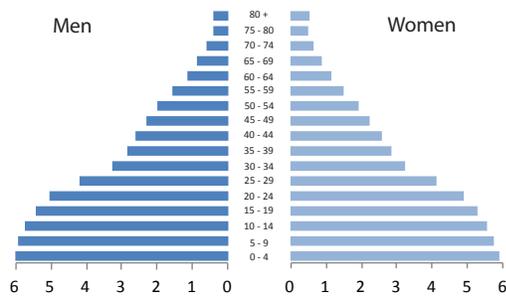
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Elsa Cristina Arenas de Kant, NCDs National Program Coordinator, Ministry of Health, Panamá.

NCDs IN PARAGUAY



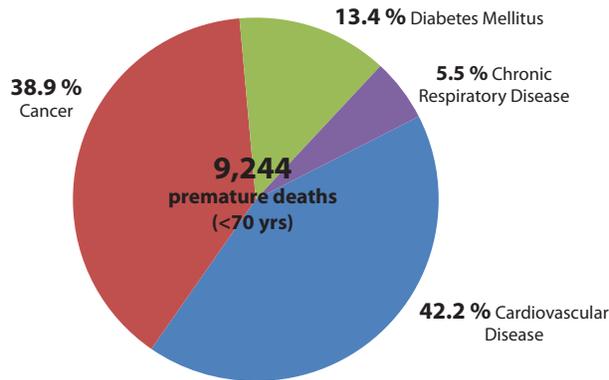
Sociodemographic indicators



- Total population (thousands): **6,568.3**
- Average annual deaths (thousands): **36.1**
- Life expectancy at birth (years):
Total: **72.6** Male: **70.6** Female: **74.7**
- Adult literacy rate (%): **94.6**
- Gross National Income US\$ per capita: **2,250.0**
- % of population covered by any type health insurance: **21.7**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **25.6 %** of all deaths

RISK FACTORS

Prevalence (%) of ^a :	Total	Males	Females
Current adult tobacco smokers	15.3	24.9	6.5
Adolescent tobacco smokers	8.3	11.3	5.5
Fruit and vegetable intake in adults ^b	6.3	10.7	9.2
Fruit and vegetable intake in adolescents ^b	...	...	...
Binge drinking among adults	21.0	31.8	14.6
Low physical activity in adults ^c	23.9	19.0	28.4
Low physical activity in adolescents ^d	57.0	...	...
Overweight among adults (BMI 25-29.9)	39.8	41.0	38.8
Obesity among adults (BMI ≥30)	28.5	25.4	31.3
Overweight among adolescents (BMI>+1SD)	14.2	...	...
Obesity among adolescents (BMI>+2SD)	20.0	...	...
Children <5 overweight	6.3	...	...
Adults with diabetes mellitus	9.5	8.5	10.2
Adults with raised BP and/or taking medication	34.9	28.2	39.8

Notes: a: Adults aged 25-64; b: % who eat ≤5 servings of fruit and vegetables per day; c: physically active for <600 met minutes; d: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	No
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes		✓
Blood lipids	No	Not applicable	
Individual risk management with a validated CV risk score	No	Not applicable	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	No	Not applicable	
HbA1C	Yes		✓
Diabetic foot examination	Yes		✓
Electrocardiogram	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes		✓
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	No	Not applicable	
Digital exam	No	Not applicable	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	No	Not applicable	
CVD MANAGEMENT			
Cardiac bypass	No	Not applicable	
Angioplasty	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	No	Not applicable	
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No	Not applicable	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	No	Not specified	
Oral morphine	No	Not specified	

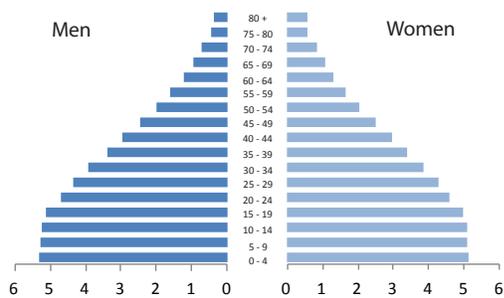
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011./ First National Survey of NCDs Risk Factors, Paraguay, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Felicia Cañete, NCDs Director, Ministry of Health, Paraguay.

NCDs IN PERU



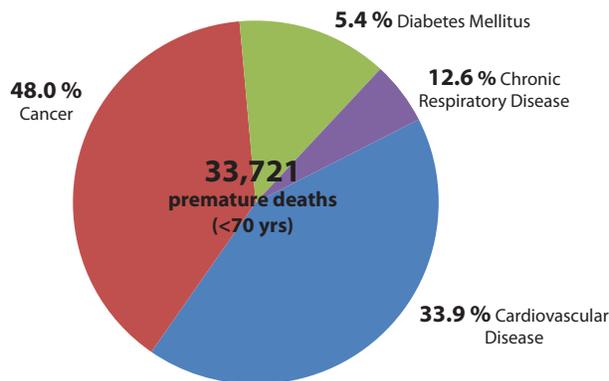
Sociodemographic indicators



- Total population (thousands): **29,399.8**
- Average annual deaths (thousands): **161.4**
- Life expectancy at birth (years):
Total: **74.1** Male: **71.5** Female: **76.7**
- Adult literacy rate (%): **89.6**
- Gross National Income US\$ per capita: **4,200.0**
- % of population covered by any type health insurance: **23.5**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **20.9%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	18.4	29.4	9.4
Adolescent tobacco smokers	17.3	22.9	11.9
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	9.8	9.3	10.2
Binge drinking among adults	...	5.6	0.3
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	75.5	73.0	77.8
Overweight among adults (BMI 25-29.9)	47.9	43.3	52.2
Obesity among adults (BMI ≥30)	16.5	11.1	21.7
Overweight among adolescents (BMI >+1SD)	20.2	21.8	18.7
Obesity among adolescents (BMI >+2SD)	2.9	3.0	2.7
Children <5 overweight	9.8	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	34.3	38.1	30.6

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes		✓
Blood pressure	Yes		✓
Blood glucose	Yes		✓
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	Yes		✓
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes		✓
Blood glucose monitoring	Yes		✓
Blood lipids monitoring	Yes		✓
HbA1C	No	Not applicable	
Diabetic foot examination	No	Not applicable	
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes		✓
HPV DNA testing	Yes		✓
Visual inspection techniques (VIA)	Yes		✓
VIA & cryotherapy in a single visit	Yes		✓
BREAST CANCER			
Clinical examination	Yes		✓
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes		✓

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	Yes		✓
CVD MANAGEMENT			
Cardiac bypass	No	Not applicable	
Angioplasty	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	No	Not applicable	
Photocoagulation for retinopathy	No	Not applicable	
Dialysis	No	Not applicable	
OTHER			
Home care for patients with terminal or advanced disease	No	Not applicable	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		✓
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	No	Not applicable	
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes	Not specified	
Oral morphine	Yes	Not specified	

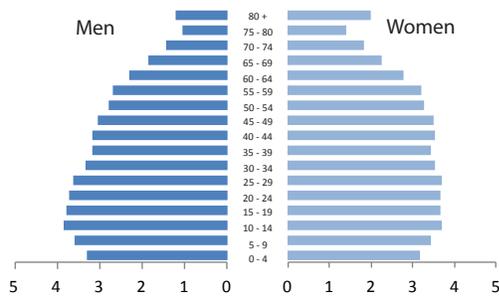
Sources:

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- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Aldo Tomás Tecse Silva, National Coordinator, Ministry of Health of Peru.

NCDs IN PUERTO RICO



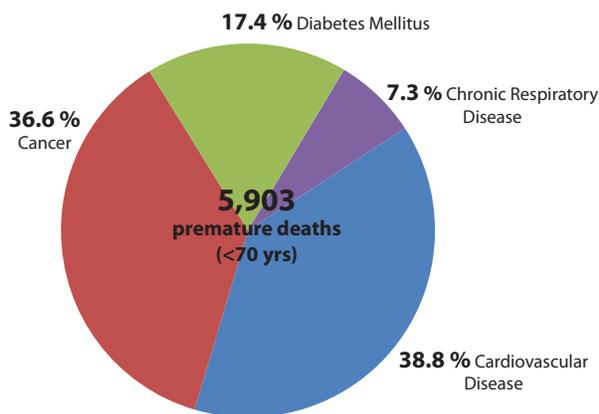
Sociodemographic indicators



- Total population (thousands): **3,745.5**
- Average annual deaths (thousands): **29.1**
- Life expectancy at birth (years):
Total: **79.2** Male: **75.2** Female: **83.1**
- Adult literacy rate (%): **90.5**
- Gross National Income US\$ per capita: ...
- % of population covered by any type health insurance: **92.0**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **20.3%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	10.6	13.8	7.7
Adolescent tobacco smokers	...	...	...
Fruit and vegetable intake in adults ^a	17.7	17.1	18.3
Fruit and vegetable intake in adolescents ^a	80.7	78.6	82.5
Binge drinking among adults	10.6	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	79.2	73.5	84.5
Overweight among adults (BMI 25-29.9)	37.7	41.4	34.4
Obesity among adults (BMI ≥30)	27.5	29.3	25.9
Overweight among adolescents (BMI>+1SD)	14.0	14.0	14.0
Obesity among adolescents (BMI>+2SD)	12.0	15.2	9.0
Children <5 overweight	...	...	...
Adults with diabetes mellitus	12.9	12.5	13.2
Adults with raised BP and/or taking medication	34.0	33.2	34.6

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	Yes

Note N/A: Not applicable.

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	No
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	No	Not applicable	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	No	Not applicable	
Diabetic foot examination	No	Not applicable	
Electrocardiogram	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	No	Not applicable	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes	✓	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	Not specified	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

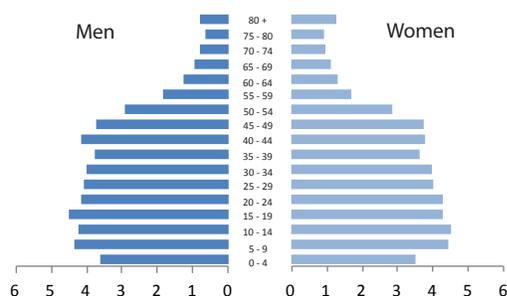
	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	Not specified	
Oral morphine	Yes	Not specified	

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Leonardo Pérez Rivera, NCD Prevention and Health Promotion Program Manager, Department of Health, Puerto Rico.

NCDs IN SAINT KITTS AND NEVIS

Sociodemographic indicators

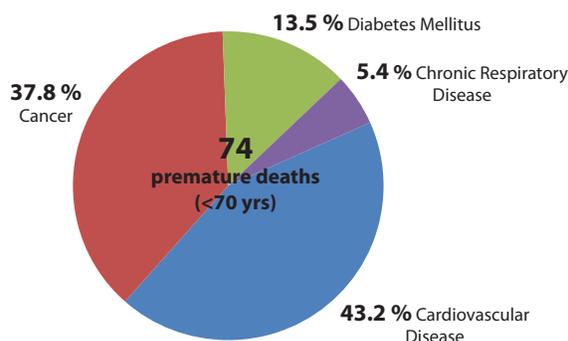


- Total population (thousands): **50.3**
- Average annual deaths (thousands): **0.4**
- Life expectancy at birth (years):
Total: **74.6** Male: **72.3** Female: **77.0**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: **10,150.0**
- % of population covered by any type health insurance: ...



Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **18.5 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	8.7	16.2	1.1
Adolescent tobacco smokers	18.8	20.4	15.7
Fruit and vegetable intake in adults ^a	2.7	2.4	3.0
Fruit and vegetable intake in adolescents ^a	16.2	19.7	12.8
Binge drinking among adults	...	27.1	20.1
Low physical activity in adults ^b	38.3	28.3	48.5
Low physical activity in adolescents ^c	19.7	13.6	24.9
Overweight among adults (BMI 25-29.9)	33.5	36.2	30.6
Obesity among adults (BMI ≥30)	45.0	37.9	52.5
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	...	...	...
Adults with diabetes mellitus	7.6	4.8	10.4
Adults with raised BP and/or taking medication	35.0	38.2	31.9

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	No

Notes: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	No
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No	Not applicable	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	No	Not applicable	
VIA & cryotherapy in a single visit	No	Not applicable	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	No	Not applicable	
Radiotherapy	No	Not applicable	
CVD MANAGEMENT			
Cardiac bypass	No	Not applicable	
Angioplasty	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes		✓

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

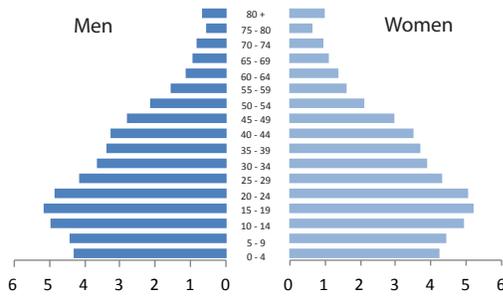
	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	No	Not applicable	
Oral morphine	No	Not applicable	

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Petrinella Edwards, NCDs Program Coordinator, Ministry of Health, St Kitts & Nevis.

NCDs IN SAINT LUCIA

Sociodemographic indicators

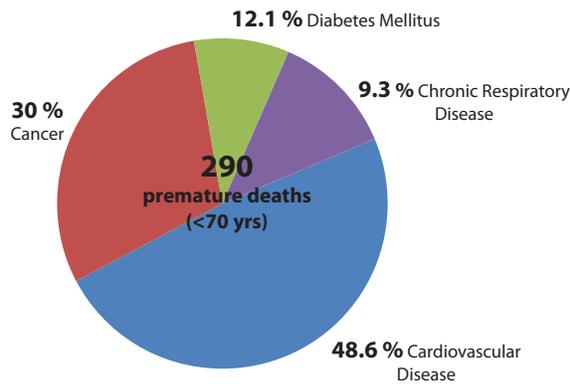


- Total population (thousands): **161.6**
- Average annual deaths (thousands): **1.1**
- Life expectancy at birth (years):
Total: **76.8** Male: **74.2** Female: **79.7**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: **5,190.0**
- % of population covered by any type health insurance: **43.7**



Burden of disease

PREMATURE DEATHS (2005)



Premature deaths from NCDs (<70 yrs) account for **25.7 %** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	28.0	11.0
Adolescent tobacco smokers	7.8	9.8	6.2
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	25.4	25.2	25.6
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	84.4	82.6	86.0
Overweight among adults (BMI 25-29.9)	54.2	44.1	63.6
Obesity among adults (BMI ≥30)	22.3	11.9	31.9
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	4.3	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	41.8	46.1	37.6

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	No
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
Budget?	Yes
Measurable outcomes?	Yes
Monitoring and evaluation component?	No
Communications component?	NS
Are there plans for specific diseases?	No

Notes: NS: Not specified.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	Yes
Risk factors surveys	No
Are there disease specific registries?	NS
Is there a unique personal identifier?	NS
Use of data for policy making and planning?	NS
Established mechanisms for data dissemination?	NS

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes		✓
HbA1C	Yes		✓
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes		✓
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes		✓
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	No		Not applicable
CVD MANAGEMENT			
Cardiac bypass	No		Not applicable
Angioplasty	No		Not applicable

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	No		Not applicable
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes		✓
Metformin	Yes	✓	
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes		✓
Oral morphine	Yes		✓

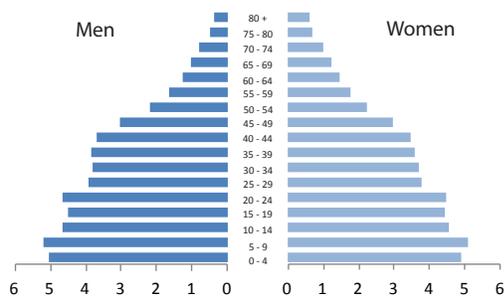
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Anne Margaret Henry, Principal Nursing Officer, Ministry of Health, St Lucia.

NCDs IN SURINAME



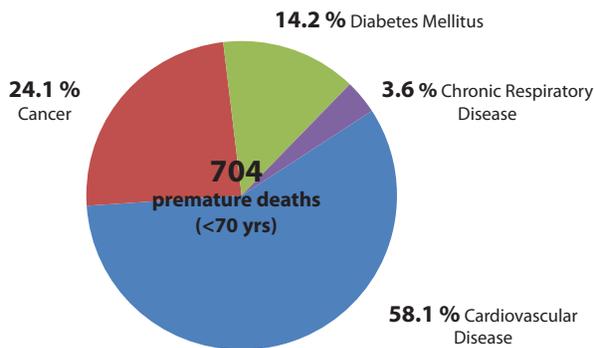
Sociodemographic indicators



- Total population (thousands): **529.4**
- Average annual deaths (thousands): **3.8**
- Life expectancy at birth (years):
Total: **70.7** Male: **67.5** Female: **74.0**
- Adult literacy rate (%): **94.6**
- Gross National Income US\$ per capita: **4,760.0**
- % of population covered by any type health insurance: **34.7**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **18.5%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	27.0	...	...
Adolescent tobacco smokers	12.1	14.0	10.1
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	31.0	33.0	29.2
Binge drinking among adults	...	47.0	19.7
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	45.6	44.4	46.7
Overweight among adults (BMI 25-29.9)	58.4	51.7	64.8
Obesity among adults (BMI ≥30)	25.8	16.5	34.6
Overweight among adolescents (BMI >+1SD)	19.8	19.6	19.9
Obesity among adolescents (BMI >+2SD)	6.7	6.4	7.0
Children <5 overweight	...	...	...
Adults with diabetes mellitus	19.5	...	...
Adults with raised BP and/or taking medication	33.0	34.2	26.7

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	Yes
<i>Measurable outcomes?</i>	Yes
<i>Monitoring and evaluation component?</i>	Yes
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes		✓
Blood pressure	Yes		✓
Blood glucose	Yes		✓
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	Yes	Not specified	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes		✓
Blood glucose monitoring	Yes		✓
Blood lipids monitoring	Yes		✓
HbA1C	Yes		✓
Diabetic foot examination	Yes		✓
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes		✓
HPV DNA testing	Yes	Not specified	
Visual inspection techniques (VIA)	Yes		✓
VIA & cryotherapy in a single visit	Yes		✓
BREAST CANCER			
Clinical examination	Yes		✓
Mammography	Yes		✓
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes		✓

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes		✓
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	Yes		✓
CVD MANAGEMENT			
Cardiac bypass	Yes	Not specified	
Angioplasty	Yes	Not specified	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	Yes		✓
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	Yes	Not specified	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		✓
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

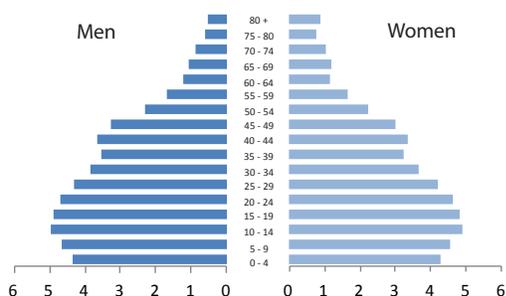
	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes		✓
Oral morphine	Yes		✓

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Maltie Algoe, Acting Director of Planning and NCD Focal Point, Ministry of Health, Suriname.

NCDs IN SAINT VINCENT AND THE GRENADINES

Sociodemographic indicators

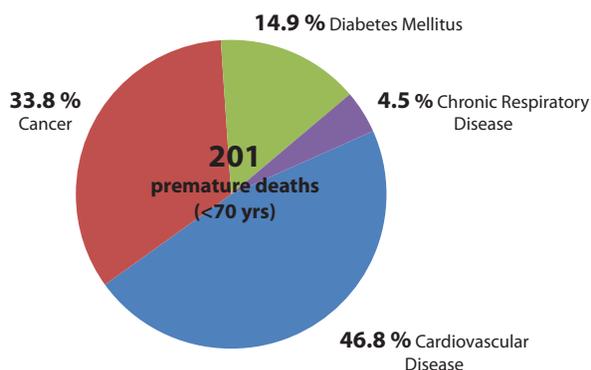


- Total population (thousands): **103.9**
- Average annual deaths (thousands): **0.7**
- Life expectancy at birth (years):
Total: **74.2** Male: **72.3** Female: **76.1**
- Adult literacy rate (%): ...
- Gross National Income US\$ per capita: **5,130.0**
- % of population covered by any type health insurance: ...



Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **28.7%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	17.6	5.2
Adolescent tobacco smokers	8.5	12.0	5.1
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	38.3	38.9	38.0
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	86.7	84.4	88.6
Overweight among adults (BMI 25-29.9)	57.8	51.8	63.7
Obesity among adults (BMI ≥30)	25.1	16.4	33.5
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	...	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	...	...	...

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	No
Is there an operational multisectoral mechanism to coordinate the NCD policies?	N/A
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	No

Notes: N/A: Not applicable.

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	No
Are there disease specific registries?	No
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes		✓
Individual risk management with a validated CV risk score	No	Not applicable	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes		✓
HbA1C	Yes		✓
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes		✓
HPV DNA testing	No	Not applicable	
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	Not specified	
COLORECTAL CANCER			
Fecal occult blood test	Yes		✓
Digital exam	Yes		✓

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes		✓
Chemotherapy	Yes		✓
Radiotherapy	No	Not applicable	
CVD MANAGEMENT			
Cardiac bypass	No	Not applicable	
Angioplasty	No	Not applicable	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes		✓
Photocoagulation for retinopathy	No	Not applicable	
Dialysis	No	Not applicable	
OTHER			
Home care for patients with terminal or advanced disease	No	Not applicable	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

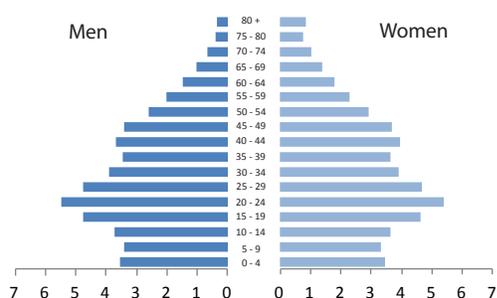
	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes		✓
Oral morphine	Yes		✓

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Jennifer George, National Epidemiologist, and Roger Duncan, Medical Officer of Health, Ministry of Health, Wellness and the Environment, St Vincent & the Grenadines.

NCDs IN TRINIDAD AND TOBAGO

Sociodemographic indicators

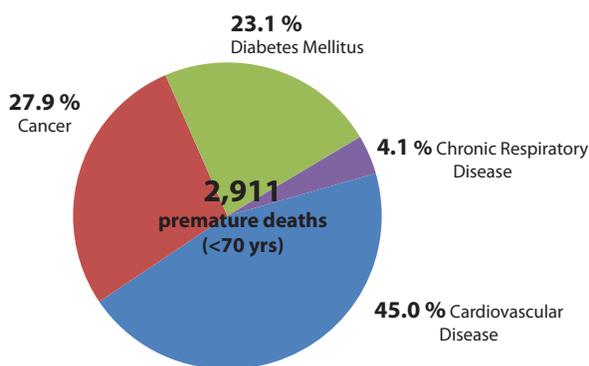


- Total population (thousands): **1,346.4**
- Average annual deaths (thousands): **11.0**
- Life expectancy at birth (years):
Total: **70.2** Male: **66.7** Female: **73.6**
- Adult literacy rate (%): **98.7**
- Gross National Income US\$ per capita: **16,700.0**
- % of population covered by any type health insurance: ...



Burden of disease

PREMATURE DEATHS (2006)



Premature deaths from NCDs (<70 yrs) account for **26.5%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	...	36.5	7.3
Adolescent tobacco smokers	9.3	9.7	8.7
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	24.6	24.8	24.3
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	81.0	75.9	86.1
Overweight among adults (BMI 25-29.9)	64.7	59.7	69.6
Obesity among adults (BMI ≥30)	30	21.6	38.0
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	4.9	...	...
Adults with diabetes mellitus	6.5	4.7	8.1
Adults with raised BP and/or taking medication	23.0	20.0	25.0

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	Yes
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
<i>Budget?</i>	No
<i>Measurable outcomes?</i>	No
<i>Monitoring and evaluation component?</i>	No
<i>Communications component?</i>	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	No
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	No		Not applicable
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	No		Not applicable
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	Yes	✓	
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes		✓
Angioplasty	Yes		✓

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes		✓
OTHER			
Home care for patients with terminal or advanced disease	No		Not applicable

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

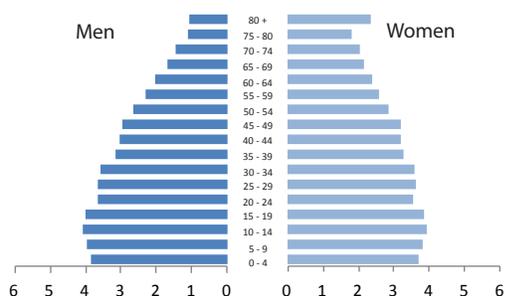
Sources:

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- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Krishna Kumar Sundaraneedi and Karmesh LD Sharma, Medical Director, Health Programmes & Technical Support, Ministry of Health, Trinidad and Tobago.

NCDs IN URUGUAY



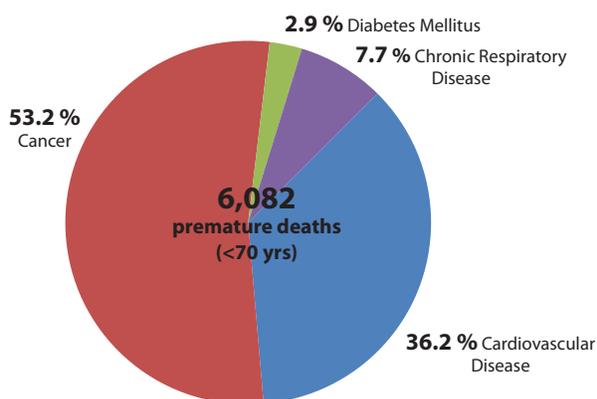
Sociodemographic indicators



- Total population (thousands): **3,380.0**
- Average annual deaths (thousands): **31.3**
- Life expectancy at birth (years):
Total: **77.1** Male: **73.5** Female: **80.5**
- Adult literacy rate (%): **98.3**
- Gross National Income US\$ per capita: **9,010.0**
- % of population covered by any type health insurance: **87.5**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **19.4%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	36.0	40.8	31.7
Adolescent tobacco smokers	19.0	15.6	21.8
Fruit and vegetable intake in adults ^a	15.1	14.9	15.1
Fruit and vegetable intake in adolescents ^a	22.5	22.4	22.6
Binge drinking among adults	...	17.4	7.9
Low physical activity in adults ^b	35.1	29.0	40.7
Low physical activity in adolescents ^c	29.0	29.9	26.2
Overweight among adults (BMI 25-29.9)	36.7	40.7	32.5
Obesity among adults (BMI ≥30)	19.9	19.4	20.5
Overweight among adolescents (BMI>+1SD)	14.8	18.1	11.8
Obesity among adolescents (BMI>+2SD)	2.2	2.8	1.6
Children <5 overweight	9.4	...	...
Adults with diabetes mellitus	5.5	6.2	4.7
Adults with raised BP and/or taking medication	31.9	32.6	31.4

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <600 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	No
Is there an integrated NCD action plan? If the answer is yes, does it have:	No
<i>Budget?</i>	N/A
<i>Measurable outcomes?</i>	N/A
<i>Monitoring and evaluation component?</i>	N/A
<i>Communications component?</i>	N/A
Are there plans for specific diseases?	Yes

Note N/A: Not applicable.

SURVEILLANCE

Is there a budget?	Yes
Is there dedicated staff?	Yes
Does the information system include specific data on?	
<i>Specific cause of mortality</i>	Yes
<i>Hospital based morbidity</i>	Yes
<i>Risk factors surveys</i>	Yes
Are there disease specific registries?	Yes
Is there a unique personal identifier?	No
Use of data for policy making and planning?	Yes
Established mechanisms for data dissemination?	Yes

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score	Yes	✓	
DM AND CVD MANAGEMENT			
Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes		✓
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes		✓

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	Yes		Not specified
Visual inspection techniques (VIA)	Yes		✓
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes	✓	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes		✓
Aspirin	Yes		✓
Metformin	Yes		✓
Glibenclamide	Yes		✓
Thiazide diuretics	Yes		✓
ACE inhibitors	Yes		✓

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes		✓
Beta blockers	Yes		✓
Statins	Yes		✓
Tamoxifen	Yes		✓
Oral morphine	Yes		✓

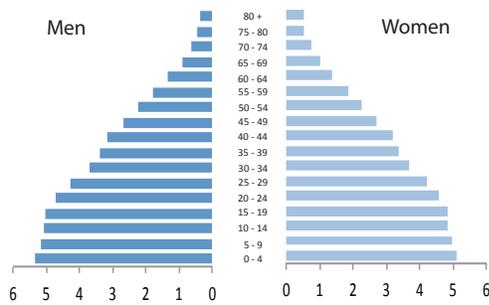
Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Clara Niz Larrosa, NCDs Coordinator, Ministry of Public Health, Uruguay.

NCDs IN VENEZUELA



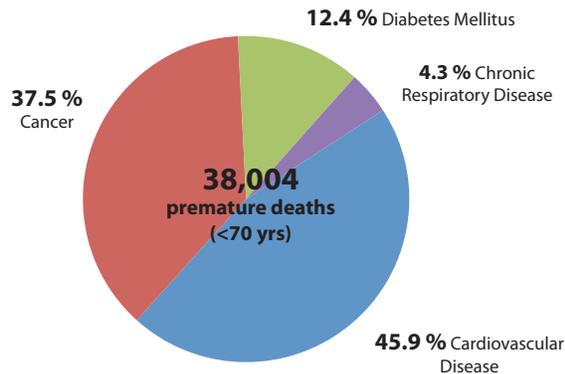
Sociodemographic indicators



- Total population (thousands): **29,436.9**
- Average annual deaths (thousands): **153.1**
- Life expectancy at birth (years):
Total: **74.5** Male: **71.6** Female: **77.5**
- Adult literacy rate (%): **95.2**
- Gross National Income US\$ per capita: **10,090.0**
- % of population covered by any type health insurance: **65.0**

Burden of disease

PREMATURE DEATHS (2007)



Premature deaths from NCDs (<70 yrs) account for **24.8%** of all deaths

RISK FACTORS

Prevalence (%) of:	Total	Males	Females
Current adult tobacco smokers	18.0	22.6	13.6
Adolescent tobacco smokers	...	18.7	13.0
Fruit and vegetable intake in adults ^a	...	...	...
Fruit and vegetable intake in adolescents ^a	16.7	16.9	16.5
Binge drinking among adults	...	...	...
Low physical activity in adults ^b	...	...	...
Low physical activity in adolescents ^c	...	...	...
Overweight among adults (BMI 25-29.9)	67.5	67.9	67.0
Obesity among adults (BMI ≥30)	30.8	26.6	34.8
Overweight among adolescents (BMI>+1SD)	...	...	...
Obesity among adolescents (BMI>+2SD)	...	...	...
Children <5 overweight	6.1	...	...
Adults with diabetes mellitus	...	...	...
Adults with raised BP and/or taking medication	41.0	46.3	35.6

Notes: a: % who eat ≤5 servings of fruit and vegetables per day; b: physically active for <60 met minutes; c: physically active less than 60 min per day in 5-7 of the last 7 days; BP: Blood pressure.

Country capacity

POLICIES & ACTION PLANS

Is there an integrated NCD policy?	Yes
Is there an operational multisectoral mechanism to coordinate the NCD policies?	No
Is there an integrated NCD action plan? If the answer is yes, does it have:	Yes
Budget?	Yes
Measurable outcomes?	Yes
Monitoring and evaluation component?	Yes
Communications component?	Yes
Are there plans for specific diseases?	Yes

SURVEILLANCE

Is there a budget?	No
Is there dedicated staff?	No
Does the information system include specific data on?	
Specific cause of mortality	Yes
Hospital based morbidity	No
Risk factors surveys	No
Are there disease specific registries?	Yes
Is there a unique personal identifier?	Yes
Use of data for policy making and planning?	No
Established mechanisms for data dissemination?	No

Country capacity

PREVENTIVE HEALTH SERVICES AT THE PRIMARY LEVEL OF CARE

	Available?	Free?	
		All patients	Limited resources
CVD RISK ASSESSMENT			
BMI	Yes	✓	
Blood pressure	Yes	✓	
Blood glucose	Yes	✓	
Blood lipids	Yes	✓	
Individual risk management with a validated CV risk score ^a	Yes	✓	
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Blood pressure monitoring	Yes	✓	
Blood glucose monitoring	Yes	✓	
Blood lipids monitoring	Yes	✓	
HbA1C	Yes	✓	
Diabetic foot examination	Yes	✓	
Electrocardiogram	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
CERVICAL CANCER			
Cervical cytology or PAP	Yes	✓	
HPV DNA testing	Yes	✓	
Visual inspection techniques (VIA)	Yes	✓	
VIA & cryotherapy in a single visit	No		Not applicable
BREAST CANCER			
Clinical examination	Yes	✓	
Mammography	Yes	✓	
COLORECTAL CANCER			
Fecal occult blood test	Yes	✓	
Digital exam	Yes	✓	

Notes: HPV: Human Papillomavirus; DM: Diabetes mellitus; CVD: Cardiovascular disease; CV: Cardiovascular.

SPECIALIZED CARE

	Available?	Free?	
		All patients	Limited resources
CANCER DIAGNOSIS AND TREATMENT			
Colposcopy	Yes	✓	
Diagnostic mammography	Yes	✓	
Chemotherapy	Yes	✓	
Radiotherapy	Yes	✓	
CVD MANAGEMENT			
Cardiac bypass	Yes	✓	
Angioplasty	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
DIABETES MANAGEMENT			
Eye exams	Yes	✓	
Photocoagulation for retinopathy	Yes	✓	
Dialysis	Yes	✓	
OTHER			
Home care for patients with terminal or advanced disease	Yes	✓	

NON COMMUNICABLE DISEASES MEDICINES

	Available?	Free?	
		All patients	Limited resources
Insulin	Yes	✓	
Aspirin	Yes	✓	
Metformin	Yes	✓	
Glibenclamide	Yes	✓	
Thiazide diuretics	Yes	✓	
ACE inhibitors	Yes	✓	

	Available?	Free?	
		All patients	Limited resources
Calcium channels blockers	Yes	✓	
Beta blockers	Yes	✓	
Statins	Yes	✓	
Tamoxifen	Yes	✓	
Oral morphine	Yes	✓	

Sources:

- » Sociodemographic indicators and risk factors: Pan American Health Organization. Non communicable disease project, health information and analysis project and sustainable development and environment area: Non communicable diseases in the Americas: Basic indicators 2011, Washington DC, USA, 2011.
- » Premature mortality: PAHO/WHO Mortality Information System (updated on May 2011).
- » Country capacity: 2012 Country Capacity Survey in preparation for the CARMEN meeting, completed by Tania Bernal Schmelzer, NCDs Director, Ministry of Health, Venezuela.

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