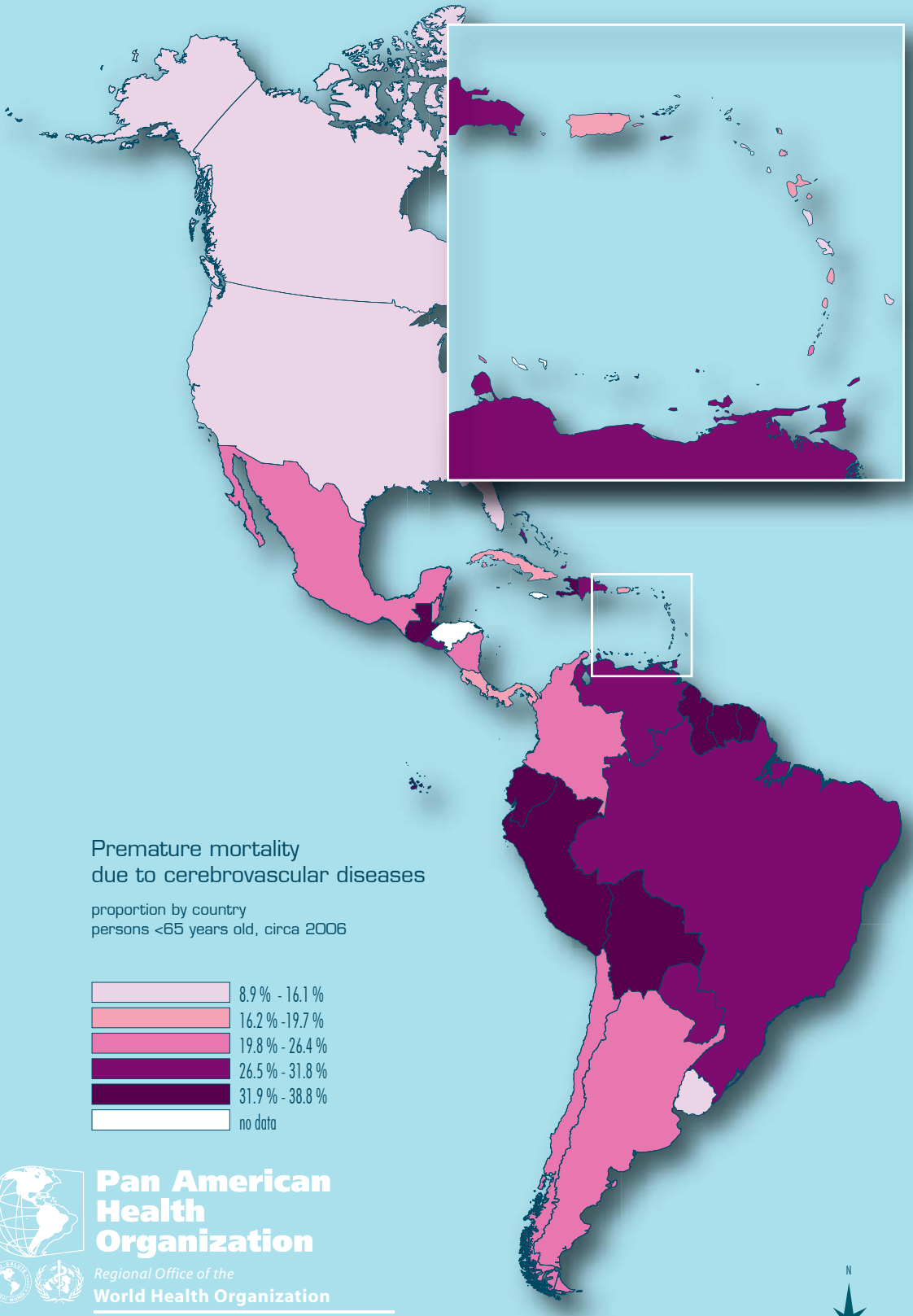
health situation in the americas

Basic Indicators 2009



Premature mortality due to cerebrovascular diseases

proportion by country
persons <65 years old, circa 2006

- 8.9 % - 16.1 %
- 16.2 % -19.7 %
- 19.8 % - 26.4 %
- 26.5 % - 31.8 %
- 31.9 % - 38.8 %
- no data

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Pan American Health Organization

Regional Office of the
World Health Organization

Office of the Assistant Director
Health Surveillance and Disease Prevention and Control
Health Information and Analysis

preface

Chronic noncommunicable diseases currently are reaching epidemic proportions in the Americas and are contributing substantially to overall mortality and disease burden in the Region. They result from complex and dynamic socially determined health processes, including epidemiological and demographic transitions. Once thought to be an issue primarily affecting the older population in high-income countries, chronic noncommunicable diseases are now affecting younger population segments and the poor in the lower-income countries of Latin America and the Caribbean.

The means for preventing and controlling most noncommunicable diseases are already well established and high-income countries—followed by middle-income countries— are now showing continuous progress in both prevention and control interventions. The low- and lower-middle-income countries, on the other hand, face the dual challenge of coping with scarce resources to address both noncommunicable and communicable diseases, as well as infant and maternal mortality.

Among chronic noncommunicable diseases, cardiovascular diseases are a leading cause of morbidity and mortality in the Americas, occurring increasingly within the working age population and thereby contributing disproportionately to the loss of potential years of healthy life and economic productivity. This situation is already recognized as a major and growing public health problem, particularly affecting low- and middle-income countries, but what is less recognized is the role of social disparities as determinants of the premature mortality due to cardiovascular diseases in the Region.

The purpose of this publication is to call the attention of the general public and the governments of the Americas to an exploratory analysis of the relationship between premature mortality due to cerebrovascular diseases (CeVD) and potential socioeconomic inequality determinants at the ecological level.

The map on the first page of this brochure depicts the quintile distribution of proportional premature mortality due to cerebrovascular disease in the countries and territories of the Americas.

The material presented in this brochure has been compiled, drafted, and reviewed by PAHO regional staff, and staff from ministries of health. For more information, including all basic indicators, and their definition, please refer to http://new.paho.org/hq/index.php?option=com_content&task=view&id=34&Itemid=456.

Mirta Roses Periago
Director

For this publication: *Latin America* includes Mexico, the Central American Isthmus, the Latin Caribbean, the Andean Area, Brazil, and the Southern Cone. *Latin America and the Caribbean* comprise Latin America and non-Latin Caribbean. Brazil and Mexico appear separately due to their population sizes.

demographic indicators

	1 total population (thousands) 2009	2 crude birth rate (1,000 pop) 2009	3 annual births average (thousands) 2009	4 annual deaths average (thousands) 2009	5 annual pop growth (%) 2009	6 total fertility rate (child/woman) 2009	7 urban population (%) 2009	8 dependency ratio (100 pop) 2009	9T life expectancy at birth (years) 2009 total	9M life expectancy at birth (years) 2009 male	9F life expectancy at birth (years) 2009 female
The Americas	930,690	16.7	15,510.0	6,191.3	1.0	2.1	80.1	52.1	76.0	73.2	78.8
North America	348,300	13.7	4,771.8	2,714.2	0.9	2.0	81.9	49.1	79.6	77.3	81.7
Bermuda	68	12.0	1.0	0.5	0.6	2.0	100.0	48.2	80.0	77.2	83.7
Canada	33,573	10.7	358.1	250.5	0.9	1.6	80.5	43.9	80.9	78.6	83.1
United States of America	314,659	14.0	4,412.7	2,463.2	0.9	2.1	82.0	49.7	79.4	77.1	81.6
Latin America & the Caribbean	582,390	18.4	10,738.2	3,477.1	1.1	2.2	78.8	53.7	73.5	70.5	76.8
Latin America	575,339	18.5	10,617.3	3,423.7	1.1	2.2	79.4	53.9	73.9	70.8	77.1
Mexico	109,610	18.4	2,021.2	523.4	1.0	2.2	77.5	53.6	76.5	74.1	79.0
Central American Isthmus	41,738	25.7	1,076.6	222.5	1.7	3.1	55.5	70.7	72.9	69.7	76.1
Belize	307	24.3	7.5	1.1	2.0	2.8	52.2	64.8	76.6	74.7	78.6
Costa Rica	4,579	16.5	75.7	19.0	1.3	1.9	63.8	47.7	79.0	76.7	81.5
El Salvador	6,163	20.2	124.6	42.3	0.5	2.3	61.0	65.1	71.7	66.8	76.3
Guatemala	14,027	32.5	456.3	78.2	2.5	4.0	49.0	86.0	70.5	67.1	74.2
Honduras	7,466	27.0	202.2	37.5	2.0	3.2	48.4	71.5	72.4	70.1	74.9
Nicaragua	5,743	24.4	140.3	26.9	1.3	2.7	57.0	65.8	73.4	70.5	76.7
Panama	3,454	20.3	70.0	17.5	1.6	2.5	74.0	55.7	75.8	73.3	78.5
Latin Caribbean	36,404	18.7	682.6	267.7	0.9	2.4	69.5	55.8	72.4	70.0	74.8
Cuba	11,204	10.3	115.9	78.0	0.0	1.5	75.7	42.2	78.8	76.9	81.0
Dominican Republic	10,090	22.2	223.6	59.7	1.4	2.6	69.7	60.0	72.7	70.0	75.6
French Guiana	226	24.5	5.5	0.8	2.5	3.2	76.2	61.8	76.2	72.8	80.1
Guadeloupe	465	14.1	6.6	3.7	0.4	2.1	98.2	54.4	79.3	76.2	82.4
Haiti	10,033	27.3	274.0	90.8	1.6	3.4	48.2	68.6	61.5	59.7	63.2
Martinique	405	12.3	5.0	3.2	0.3	1.9	98.0	52.3	79.8	76.8	82.5
Puerto Rico	3,982	13.1	52.1	31.5	0.4	1.8	98.6	51.6	79.0	75.0	82.9
Andean Area	126,896	21.0	2,663.1	699.9	1.4	2.5	76.7	56.3	73.1	70.1	76.3
Bolivia	9,863	26.6	262.1	73.4	1.7	3.4	66.1	69.4	66.0	63.9	68.2
Colombia	45,660	20.1	917.3	251.3	1.4	2.4	74.8	53.1	73.2	69.6	77.0
Ecuador	13,625	20.4	278.9	70.9	1.1	2.5	66.3	60.1	75.3	72.4	78.3
Peru	29,165	20.7	605.1	157.4	1.1	2.5	71.5	56.7	73.5	70.9	76.2
Venezuela	28,583	21.0	599.7	146.8	1.6	2.5	93.7	54.7	74.0	71.1	77.1
Brazil	193,734	15.6	3,026.4	1,238.5	0.9	1.8	86.1	48.5	72.7	69.1	76.4
Southern Cone	66,956	17.1	1,147.3	471.8	1.0	2.2	88.4	54.3	76.0	72.7	79.6
Argentina	40,276	17.2	691.2	312.4	1.0	2.2	92.2	55.7	75.5	71.8	79.4
Chile	16,970	14.9	252.1	93.1	1.0	1.9	88.7	46.6	78.7	75.7	81.9
Paraguay	6,349	24.2	154.0	35.1	1.7	3.0	60.9	64.2	72.1	70.0	74.2
Uruguay	3,361	14.9	50.0	31.2	0.3	2.1	92.4	57.7	76.5	73.1	80.1
Non-Latin Caribbean	7,051	17.1	120.9	53.4	0.5	2.1	46.7	51.4	71.8	68.6	75.0
Anguilla	14	13.0	0.2	0.1	2.3	1.8	100.0	47.5	81.0	78.1	83.3
Antigua & Barbuda	86	17.0	1.0	1.0	1.3	2.1	30.4	50.2	75.0	72.8	76.8
Aruba	107	11.5	1.2	0.8	0.9	1.7	46.8	40.6	74.9	72.3	77.5
Bahamas	342	16.5	5.7	2.0	1.2	2.0	83.9	47.7	74.0	71.2	76.7
Barbados	256	11.2	2.9	1.9	0.3	1.5	40.3	38.4	77.5	74.6	80.0
Cayman Islands	49	12.0	1.0	0.2	2.4	1.9	100.0	40.6	80.0	77.8	83.1
Dominica	73	16.0	1.0	1.0	0.2	2.1	74.3	51.9	76.0	72.6	78.6
Grenada	104	19.5	2.0	0.6	0.4	2.3	30.9	53.9	75.6	74.0	77.1
Guyana	762	17.4	13.3	6.1	-0.1	2.3	28.4	55.2	67.4	64.8	70.5
Jamaica	2,719	19.2	52.1	20.1	0.4	2.4	53.5	59.2	72.1	68.8	75.5
Montserrat	5	12.0	0.1	0.0	0.4	1.2	14.1	52.7	73.0	74.7	70.7
Netherlands Antilles	198	13.0	2.6	1.5	1.4	2.0	92.9	45.4	76.4	72.9	79.6
Saint Kitts & Nevis	40	18.0	1.0	0.3	0.8	2.3	32.4	51.9	73.0	70.3	76.3
Saint Lucia	172	17.7	3.0	1.1	1.0	2.0	27.9	49.7	74.0	72.1	75.9
Saint Vincent & the Grenadines	109	17.4	1.9	0.8	0.1	2.1	47.4	50.9	71.8	69.8	74.1
Suriname	520	18.7	9.7	3.9	0.9	2.4	75.3	54.3	69.2	65.7	72.9
Trinidad & Tobago	1,339	14.9	19.9	10.8	0.4	1.6	13.5	38.2	69.7	66.1	73.2
Turks & Caicos Islands	23	21.0	0.5	0.1	2.6	3.0	92.5	52.6	75.0	73.1	77.8
Virgin Islands (UK)	24	15.0	0.4	0.1	1.8	1.7	40.8	34.4	77.0	76.0	78.6
Virgin Islands (US)	110	13.2	1.4	0.8	-0.1	2.1	95.1	53.1	79.2	76.1	82.2

BI 1 - 9: countries with fewer than 100,000 inhabitants: US Census Bureau; otherwise: United Nations (UN) estimates. Both agencies are currently reviewing the population projections taking into account the last census.

BI 2 - 9: linear interpolation of indicators from United Nations.

mortality indicators

	10 maternal mortality ratio (100,000 lb) or number of deaths (Nº)			11 maternal mortality ratio estimated (100,000 lb) 2005 WHO	12 infant mortality rate (1,000 lb) or number of deaths (Nº)			13 < 5 mortality estimated (1,000 lb) 2007 WHO	14 registered deaths < 5 due to		15	16 ill-defined and unknown causes (%) (2005)	17 mortality under-registration (%) (2003-05)
	ratio	(Nº)	year		rate	(Nº)	year		ADD (%)	ARI (%)	year		
The Americas	63.7			97	14.8			19	2.9	5.7		4.8	10.4
North America	13.3			11	6.6			8	0.1	1.6		1.3	1.0
Bermuda	-		2008	…	n/a	3	2006	…	…	…		…	…
Canada	8.8		2005	7	5.0		2006	6	-	1.0	2004	1.3 [a]	1.8 [e]
United States of America	13.3		2006	11	6.7		2006	8	0.1	1.7	2005	1.3	0.9
Latin America & the Caribbean	87.4			135	18.7			24	4.1	7.4		6.9	16.1
Latin America	87.6			136	18.7			24	4.1	7.4		7.0	16.2
Mexico	55.6		2007	60	15.7		2007	21	4.0	7.2	2007	1.9 [b]	3.3 [f]
Central American Isthmus	118.0			228	22.4			31	7.8	14.5		7.0	16.4
Belize	n/a	3	2008	52	17.2		2007	25	8.0	6.9	2005	1.9	14.1
Costa Rica	n/a	14	2007	30	10.0		2007	11	1.3	5.3	2007	1.6 [b]	9.6 [f]
El Salvador	71.2		2005	170	21.5		2007	24	8.8	13.5	2006	14.2 [c]	21.6 [g]
Guatemala	148.8		2005	290	…			39	12.6	25.9	2006	6.9 [c]	7.2 [h]
Honduras	…			280	23.0		2006	24	…	…		…	…
Nicaragua	76.5		2007	170	33.0		2006	35	8.0	10.0	2005	3.5	38.8
Panama	83.6		2006	130	14.7		2007	23	4.4	7.7	2006	7.9 [c]	16.7 [k]
Latin Caribbean	319.1			335	34.2			49	5.5	5.6		10.3	39.4
Cuba	46.5		2008	45	4.7		2008	6	1.3	6.5	2007	0.8 [b]	- [f]
Dominican Republic	86.3		2008	150	29.6		2008	38	4.7	4.7	2004	7.0 [a]	47.0 [e]
French Guiana	…			…	12.1		2007	…	4.8	6.0	2005	11.8	-
Guadeloupe	n/a	1	2005	…	6.1		2007	…	-	1.9	2005	8.3	-
Haiti	630.0		2006	670	57.0		2006	76	9.7	6.0	2004	28.2 [a]	94.7 [e]
Martinique	12.8		2005	…	8.8		2007	…	-	-	2005	8.5	7.4
Puerto Rico	n/a	5	2007	18	8.4		2007	…	-	1.8	2005	0.6	1.8
Andean Area	71.3			163	17.3			24	5.1	8.7		7.7	26.5
Bolivia	…			290	…			57	7.3	3.0	2003	45.0 [d]	69.5 [d]
Colombia	75.0		2006	130	15.5		2006	20	3.8	8.5	2006	1.7 [c]	21.7 [g]
Ecuador	90.2		2007	210	18.1		2007	22	4.8	13.9	2006	11.5 [c]	16.2 [g]
Peru	…			240	21.0		2004-06	20	2.9	12.3	2004	9.7 [a]	40.5 [e]
Venezuela	56.8		2007	57	16.1		2007	19	8.5	5.5	2005	0.6	10.1
Brazil	77.2		2006	110	20.0		2007	22	3.1	5.4	2007	8.7 [b]	15.7 [f]
Southern Cone	49.6			71	12.5			16	1.4	5.0		6.9	6.2
Argentina	43.7		2007	77	13.3		2007	16	1.0	5.2	2007	7.5 [b]	4.8 [f]
Chile	18.2		2007	16	8.3		2007	9	0.2	3.4	2006	2.7 [c]	1.1 [g]
Paraguay	127.3		2007	150	16.7		2007	29	4.9	7.3	2006	14.1 [c]	32.5 [g]
Uruguay	n/a	4	2008	20	10.6		2008	14	1.6	4.4	2004	8.1 [a]	- [e]
Non-Latin Caribbean	…			…	…			32	1.4	4.7		3.0	11.1
Anguilla	-		2008	…	…			…	-	-	2006	5.5 [c]	8.1 [g]
Antigua & Barbuda	-		2008	…	17.5		2008	11	-	2.4	2004	3.7 [a]	11.7 [l]
Aruba	n/a	1	2004	…	n/a	3	2004	…	-	-	2006	5.1 [c]	28.9 [k]
Bahamas	n/a	4	2007	16	17.6		2007	13	-	2.5	2005	1.6	14.7
Barbados	-		2007	16	14.2		2005	12	-	2.1	2003	3.5 [d]	7.1 [n]
Cayman Islands	-		2008	…	n/a	1	2008	…	-	-	2003	2.5 [a]	26.1 [l]
Dominica	n/a	1	2008	…	n/a	9	2008	14	-	-	2004	5.4 [a]	15.4 [g]
Grenada	-		2007	…	n/a	13	2008	19	-	18.8	2007	1.9 [b]	- [m]
Guyana	112.5		2007	470	22.0		2005	60	9.9	6.1	2005	1.1	21.4
Jamaica	…			170	21.1		2006	31	…	…		…	…
Montserrat	-		2008	…	-		2008	…	-	-	2003	…	…
Netherlands Antilles	…			…	…			…	…	…		…	…
Saint Kitts & Nevis	n/a	1	2008	…	n/a	10	2008	18	-	-	2005	1.1	-
Saint Lucia	n/a	2	2007	…	15.0		2005	13	…	…		…	…
Saint Vincent & the Grenadines	n/a	2	2007	…	26.2		2006	17	2.9	-	2004	1.4	- [l]
Suriname	184.3		2007	72	19.8		2007	28	1.0	4.4	2005	9.4	9.6
Trinidad & Tobago	n/a	9	2004	45	16.5		2004	35	-	3.0	2004	1.9 [a]	6.3 [l]
Turks & Caicos Islands	-		2008	…	n/a	1	2008	…	-	-	2005	3.8	28.0
Virgin Islands (UK)	-		2008	…	n/a	7	2008	…	-	-	2003	…	…
Virgin Islands (US)	-		2006	…	n/a	9	2006	…	-	-	2005	1.7	-

BI 16 - 17: (a) value 2004; (b) value 2007; (c) value 2006; (d) value 2003; (e) value 2003,2004; (f) value 2005-2007; (g) value 2004-2006; (h) value 2005, 2006; (k) value 2003, 2004, 2006; (l) valor 2002-2004; (m) valor 2004, 2005, 2007; (n) valor 2001-2003.

mortality indicators

	18Tc	18Ta	18Mc	18Ma	18Fc	18Fa	19Tc	19Ta	19Mc	19Ma	19Fc	19Fa
	general mortality rates (all causes) (1,000 pop) (2003-2005)						mortality rates from communicable diseases (100,000 pop) (2003-2005)					
	total		male		female		total		male		female	
	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted
The Americas	6.9	6.2	7.3	7.2	6.4	5.3	54.2	51.6	58.3	59.6	50.3	44.2
North America	8.1	5.3	8.2	6.0	8.1	4.7	43.0	28.4	42.5	31.8	43.4	25.2
Bermuda	…	…	…	…	…	…	…	…	…	…	…	…
Canada [a]	7.7	4.7	7.7	5.2	7.6	4.1	32.3	19.3	30.5	20.7	34.2	18.0
United States of America	8.2	5.4	8.2	6.1	8.2	4.8	44.1	29.4	43.8	33.0	44.4	26.0
Latin America & the Caribbean	6.1	6.6	6.8	7.9	5.3	5.6	61.1	66.0	68.0	76.8	54.6	56.1
Latin America	6.1	6.7	6.8	7.9	5.3	5.6	61.2	66.1	68.0	76.9	54.7	56.2
Mexico [b]	5.1	5.8	5.6	6.7	4.6	5.1	35.6	40.4	40.5	46.9	30.8	34.3
Central American Isthmus	5.5	7.0	6.3	8.1	4.7	6.0	89.8	104.8	100.8	118.8	79.5	92.2
Belize	4.9	7.0	5.6	8.2	4.3	5.9	82.7	109.6	94.6	130.7	74.7	92.8
Costa Rica [b]	4.1	4.7	4.6	5.5	3.7	4.0	20.7	23.5	23.2	26.9	18.4	20.2
El Salvador [c]	5.9	7.1	6.6	8.3	5.3	6.0	71.9	92.9	76.9	107.6	67.4	81.6
Guatemala [d]	6.0	7.8	7.3	9.3	4.9	6.4	145.0	162.0	165.6	184.1	126.0	142.0
Honduras [c]	5.1	6.9	5.7	7.7	4.6	6.1						
Nicaragua	5.4	7.7	6.0	8.6	4.8	6.8	49.6	68.2	53.1	74.2	46.2	62.6
Panama [e]	5.1	5.8	5.8	6.7	4.4	4.9	56.5	61.9	68.4	75.5	44.2	48.0
Latin Caribbean	7.5	7.6	8.3	8.6	6.7	6.6	64.9	56.9	71.8	65.6	58.7	49.2
Cuba [b]	7.3	5.3	7.9	6.0	6.8	4.6	60.7	43.2	64.7	48.7	56.8	38.1
Dominican Republic [a]	5.9	6.9	6.6	7.8	5.0	6.0	70.6	77.6	78.4	87.3	64.4	69.3
French Guiana	3.9	5.3	4.7	6.3	3.0	4.2	48.3	60.3	53.3	66.7	43.0	53.3
Guadeloupe	6.3	4.9	7.2	6.2	5.6	3.9	39.9	31.5	44.8	39.2	35.3	24.7
Haiti [a]	9.6	12.1	10.4	13.4	8.8	10.9						
Martinique	6.8	4.4	7.5	5.5	6.1	3.6	47.1	30.4	53.8	38.9	41.0	23.4
Puerto Rico	7.4	5.1	8.5	6.5	6.3	3.9	67.8	48.3	81.1	63.4	55.4	35.5
Andean Area	5.6	6.8	6.4	8.0	4.8	5.7	63.0	76.5	72.0	89.6	54.1	64.2
Bolivia [f]	8.1	10.0	8.7	11.1	7.6	9.0	135.9	166.0	145.7	186.4	126.7	148.4
Colombia [c]	5.6	6.8	6.6	8.2	4.7	5.5	45.3	53.5	53.5	64.2	37.3	43.4
Ecuador [c]	5.1	5.9	5.9	6.9	4.4	4.9	64.0	71.7	74.2	84.8	53.8	59.0
Peru [a]	5.5	6.7	6.1	7.8	4.9	5.8	109.8	133.1	123.3	154.5	96.5	113.0
Venezuela	5.1	6.3	5.8	7.4	4.3	5.3	43.1	58.0	47.9	65.4	38.4	50.8
Brazil [b]	6.4	7.0	7.4	8.5	5.5	5.7	64.9	71.0	73.0	82.9	57.3	60.0
Southern Cone	7.2	6.0	7.7	7.3	6.8	4.9	72.9	59.5	73.5	69.4	72.7	51.2
Argentina [b]	8.1	6.3	8.6	7.8	7.6	5.1	92.7	70.5	92.1	82.6	93.8	60.7
Chile [c]	5.4	4.9	5.8	5.9	5.0	4.0	33.5	30.3	35.0	35.4	32.4	25.8
Paraguay [c]	5.6	7.3	6.2	8.2	5.1	6.4	59.8	78.0	66.9	88.6	52.6	67.9
Uruguay [a]	9.6	6.2	10.2	7.7	9.2	5.1	58.5	39.9	58.4	46.1	59.7	35.4
Non-Latin Caribbean	7.0	7.6	7.9	9.2	6.2	6.3	78.8	81.6	94.0	101.4	64.6	64.1
Anguilla [c]	4.0	3.9	4.6	4.4	3.5	3.3	2.6	2.4	0.0	0.0	5.3	4.7
Antigua & Barbuda [g]	6.9	9.8	7.3	12.0	6.5	8.1	45.2	61.8	45.2	70.2	45.3	55.0
Aruba [e]	7.4	6.4	8.3	7.6	6.6	5.3	42.1	37.1	43.9	41.8	41.1	33.8
Bahamas	6.2	6.9	6.9	8.2	5.8	6.0	93.5	93.6	100.4	105.9	92.6	88.0
Barbados [k]	8.4	8.0	8.3	9.5	8.4	7.1	…					
Cayman Islands [g]	3.3	3.2	3.8	3.7	2.9	2.7	23.1	22.4	28.0	28.0	18.2	16.7
Dominica [g]	8.0	6.8	8.3	7.7	7.8	6.0	60.7	52.7	63.3	59.8	58.2	45.7
Grenada [h]	8.1	8.4	8.8	10.4	7.9	7.1	83.4	84.8	83.1	97.6	87.3	75.4
Guyana	6.9	8.0	7.9	9.3	6.0	6.8	114.9	123.2	136.3	148.2	93.1	98.2
Jamaica	…	…	…	…	…	…	…	…	…	…	…	…
Montserrat	…	…	…	…	…	…	…	…	…	…	…	…
Netherlands Antilles	…	…	…	…	…	…	…	…	…	…	…	…
Saint Kitts & Nevis	7.8	7.0	8.4	8.4	7.2	5.7	96.2	84.2	102.2	101.9	90.2	69.9
Saint Lucia	…	…	…	…	…	…	…	…	…	…	…	…
Saint Vincent & the Grenadines [g]	6.6	7.6	7.0	8.9	6.2	6.5	77.1	86.2	90.2	108.7	64.0	65.6
Suriname	6.2	7.0	7.2	8.6	5.2	5.5	82.5	85.9	103.2	112.7	61.3	61.2
Trinidad & Tobago [g]	7.5	8.2	8.7	10.1	6.4	6.6	65.9	67.1	81.6	86.4	50.6	50.1
Turks & Caicos Islands	2.2	3.0	2.4	3.1	2.1	3.0	41.5	47.7	55.3	69.5	27.2	27.4
Virgin Islands (UK)	…	…	…	…	…	…	…	…	…	…	…	…
Virgin Islands (US)	5.7	4.4	7.0	5.8	4.6	3.3	30.7	23.7	35.2	27.4	26.7	20.9

BI 18 - 28: (a) value 2003, 2004; (b) value 2005-2007; (c) value 2004-2006; (d) value 2005, 2006; (e) value 2003, 2004, 2006; (f) value 2003; (g) value 2002-2004; (h) value 2004, 2005, 2007; (k) value 2001-2003.

These countries were updated with latest demographic United Nations estimates: ABW, ARG, BHS, BLZ, BOL, BRA, BRB, CAN, CHL, COL, CRI, CUB, DOM, ECU, GRD, GTM, HTI, MEX, PAN, PER and URY.

mortality indicators

20Tc	20Ta	20Mc	20Ma	20Fc	20Fa	21Tc	21Ta	21Mc	21Ma	21Fc	21Fa	22	23	24	25
mortality rates from malignant neoplasms (100,000 pop) (2003-2005)						mortality rates from external causes (100,000 pop) (2003-2005)						corrected mortality rate (2003-2005)			rate ratio homicide mortality male:female (2003-05)
total		male		female		total		male		female		(100,000 pop)		(100,000 male pop)	
corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	suicide	land transport accidents	male homicide	
134.7	112.3	140.8	127.5	128.7	100.7	66.9	63.0	104.2	99.5	30.3	27.6	7.7	17.1	29.2	7.0
193.5	124.4	203.7	144.6	183.6	109.1	56.5	48.4	78.4	69.3	35.4	28.1	10.9	15.0	8.7	3.7
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
224.9	136.1	236.3	156.2	213.7	120.7	45.9	35.9	59.6	49.5	32.8	22.7	11.7	9.4	2.2	2.5
190.2	123.2	200.2	143.4	180.4	107.9	57.6	49.7	80.4	71.4	35.7	28.7	10.8	15.6	9.4	3.8
97.3	104.4	100.8	116.3	93.8	95.2	73.3	72.0	120.2	118.4	27.1	27.3	5.7	18.5	42.0	9.1
97.5	104.7	101.1	116.6	94.1	95.5	73.6	72.2	120.5	118.7	27.1	27.3	5.6	18.5	42.2	9.2
64.9	75.6	63.7	78.8	65.9	73.3	51.4	52.9	82.0	84.7	22.1	23.1	4.1	15.8	16.1	7.0
70.6	95.9	67.2	96.3	75.3	97.7	83.9	90.8	137.1	149.4	29.8	33.8	6.2	13.3	52.3	8.3
55.1	90.0	55.0	98.2	58.3	86.7	89.2	100.5	140.4	161.3	37.0	39.5	5.5	27.6	30.0	5.0
89.6	102.0	95.5	116.3	82.9	89.1	49.2	49.9	75.5	76.7	22.6	23.3	7.1	15.3	12.6	6.4
77.6	93.1	61.7	86.4	97.7	106.3	114.8	107.6	182.9	163.3	39.1	46.0	8.5	31.1	101.2	7.6
58.4	90.8	56.7	90.2	60.5	91.7	94.3	109.7	161.3	193.4	31.3	35.1	2.1	2.7	62.1	9.3
												…	…	…	…
67.1	102.0	59.5	94.6	76.1	111.6	70.7	80.1	112.3	124.9	26.5	32.5	13.1	16.4	30.9	7.6
89.6	103.9	93.7	113.0	84.8	95.1	53.6	54.6	88.0	89.4	19.7	20.6	6.5	15.6	22.0	9.5
128.4	107.5	145.3	124.8	112.5	93.0	66.3	61.2	97.9	92.8	32.2	27.5	7.8	16.8	14.1	5.8
177.5	128.3	202.8	150.9	152.3	107.9	57.4	46.0	75.4	63.6	39.4	28.6	12.2	10.2	8.3	3.1
74.0	93.5	79.2	101.5	71.1	88.1	81.9	83.9	124.7	128.0	31.2	32.5	3.1	25.9	12.9	5.8
70.0	103.6	83.5	128.1	56.1	79.8	75.8	81.1	119.1	126.5	30.9	34.2	13.4	20.5	10.9	6.0
154.6	117.4	191.2	159.2	120.4	85.8	53.8	47.7	84.4	78.1	25.5	20.6	8.9	16.2	4.5	4.3
												…	…	…	…
176.4	114.7	210.5	148.0	145.6	89.5	47.5	39.0	74.3	64.3	23.5	17.0	7.8	11.8	5.0	4.4
123.2	82.4	143.5	103.2	104.5	66.7	54.7	49.3	95.5	87.8	17.2	13.9	7.0	12.9	36.5	13.6
86.5	109.1	83.1	113.4	89.2	105.0	90.1	89.0	150.5	148.8	30.0	31.7	4.9	17.5	64.0	10.9
												…	…	…	
89.7	112.6	86.7	119.4	92.0	107.3	110.3	108.8	195.2	192.7	29.8	31.0	6.7	19.7	113.3	12.6
80.5	94.7	78.6	97.2	81.5	92.0	70.5	72.6	114.6	118.8	27.4	28.2	7.5	19.2	36.8	10.8
94.5	120.8	90.5	122.6	95.5	116.2	55.7	60.2	82.6	90.1	30.8	33.3	1.4	8.2	4.7	5.5
76.0	98.5	72.0	102.5	81.9	96.1	102.2	94.6	166.9	154.3	30.6	32.8	4.5	22.6	60.2	13.9
103.9	112.3	110.8	129.5	97.6	98.8	84.4	81.3	140.4	135.0	28.6	28.6	5.7	24.3	56.7	10.6
153.5	126.4	165.5	153.7	141.1	105.6	47.3	43.2	73.6	68.7	22.9	19.8	8.1	11.4	10.7	7.1
166.0	129.9	181.2	161.7	150.1	105.8	51.0	46.9	78.4	74.5	26.2	22.2	8.2	11.2	9.2	6.0
130.3	116.7	135.2	135.4	125.1	102.6	30.9	28.9	50.6	48.2	12.3	11.1	7.1	9.5	6.8	8.6
91.1	115.3	92.2	127.5	90.1	104.4	63.1	55.4	99.2	83.8	25.6	25.3	6.2	17.9	32.4	11.4
239.4	153.9	275.9	203.3	206.3	119.2	56.1	48.5	83.0	75.1	31.2	24.6	16.0	10.1	7.2	3.2
94.7	102.7	102.4	122.1	87.7	88.7	68.2	67.4	109.0	108.2	27.9	28.0	12.6	15.4	26.1	6.2
110.6	106.0	146.8	142.2	74.2	74.2	38.1	35.9	72.4	69.6	5.0	4.3	-	12.7	20.7	…
128.1	185.3	147.8	263.2	108.0	133.0	35.8	38.0	57.1	61.8	14.7	15.6	1.5	7.4	8.9	…
197.5	167.0	208.5	185.6	193.7	157.4	53.5	52.6	81.4	77.3	25.5	26.9	7.8	18.3	9.8	6.4
105.6	120.3	111.5	143.6	104.6	108.6	67.5	65.9	97.6	96.1	34.4	34.0	0.9	18.9	31.2	5.9
												…	…	…	…
72.5	66.2	90.6	83.7	54.6	50.6	35.2	34.2	57.1	54.0	14.1	15.3	-	9.6	9.8	3.1
196.5	164.8	236.0	212.5	157.1	125.0	35.2	33.6	58.6	55.6	11.4	11.6	2.8	8.9	16.7	…
146.4	154.4	173.9	209.9	121.3	116.4	50.7	52.9	81.6	88.7	20.7	20.2	3.3	6.8	1.0	1.6
56.0	66.7	55.0	69.7	57.0	65.6	94.1	95.7	147.8	150.3	39.8	40.6	25.1	19.8	31.8	4.9
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
102.4	94.3	125.9	129.0	79.1	68.7	59.6	56.7	104.8	101.7	15.1	14.6	1.4	15.2	26.5	…
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
100.3	121.8	109.2	147.0	91.4	102.4	49.5	53.8	78.9	86.8	20.3	21.8	4.2	8.2	25.0	…
74.2	85.3	74.4	93.7	74.2	78.7	74.1	75.8	113.6	117.9	34.5	35.4	16.0	15.2	4.4	3.3
102.0	110.5	113.1	135.7	91.2	91.3	62.3	58.5	103.0	96.8	22.9	22.5	11.9	15.1	33.3	7.9
25.5	41.0	13.2	22.0	38.1	59.7	34.8	36.1	60.3	62.2	9.6	10.1	2.4	6.0	-	…
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
109.7	79.3	135.1	104.1	86.6	60.0	59.9	59.2	110.1	112.1	14.3	12.1	4.8	7.8	60.4	15.1

mortality indicators

26Tc	26Ta	26Mc	26Ma	26Fc	26Fa	27Tc	27Ta	27Mc	27Ma	27Fc	27Fa	28Tc	28Ta	28Mc	28Ma	28Fc	28Fa
mortality rates from diabetes mellitus (100,000 pop) (2003-2005)						mortality rates from ischemic heart diseases (100,000 pop) (2003-2005)						mortality rates from cerebrovascular diseases (100,000 pop) (2003-2005)					
total		male		female		total		male		female		total		male		female	
corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted	corrected	adjusted
31.6	30.3	29.3	30.0	34.1	30.8	96.3	75.7	104.3	91.6	88.6	62.0	49.1	42.2	44.3	43.2	53.8	41.4
25.5	16.1	25.0	17.8	25.9	14.6	155.0	94.3	163.3	114.1	146.9	77.4	51.5	30.9	41.1	28.4	61.5	32.6
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
27.2	15.2	27.3	17.2	27.1	13.5	138.3	77.4	150.5	95.0	126.0	62.2	52.3	28.7	42.6	26.5	61.9	30.3
25.3	16.2	24.8	17.9	25.8	14.7	156.8	96.1	164.7	116.2	149.1	79.0	51.4	31.1	40.9	28.6	61.5	32.8
35.3	39.1	31.8	37.4	39.1	40.8	59.1	63.6	66.8	77.0	51.6	52.1	47.4	49.2	46.2	52.3	48.7	46.7
35.3	39.1	31.7	37.3	39.0	40.8	59.1	63.6	66.8	77.0	51.6	52.1	47.4	49.2	46.2	52.2	48.7	46.7
69.5	80.0	64.3	77.8	74.9	81.9	57.1	65.4	62.3	75.5	52.0	56.3	29.6	33.5	27.6	33.3	31.7	33.7
27.0	38.5	22.6	33.6	31.9	43.3	42.8	58.8	46.1	66.7	40.1	51.9	26.7	36.2	26.1	37.4	27.6	35.4
31.5	52.4	27.3	47.1	36.4	58.2	26.1	43.6	28.6	50.3	23.6	37.6	17.6	28.6	18.5	32.1	17.0	25.9
16.7	18.8	14.4	17.1	19.3	20.5	59.7	68.3	67.5	81.9	51.7	55.7	25.7	28.8	24.0	28.8	27.7	29.0
26.2	32.2	19.5	27.2	34.6	37.2	48.1	59.3	46.3	66.8	51.2	53.8	22.5	27.5	19.6	28.0	26.3	27.8
26.5	41.2	23.7	37.3	29.1	44.5	22.2	33.2	25.4	38.6	19.4	28.6	16.2	23.6	16.7	24.9	15.9	22.5
…				…													
33.9	54.5	27.4	45.6	41.2	63.9	66.9	110.2	68.4	117.0	65.8	104.0	40.2	65.8	38.1	65.2	42.7	66.9
32.3	37.2	26.4	31.4	38.9	43.3	56.2	64.9	63.6	75.8	48.6	54.3	56.1	64.1	57.8	68.6	54.3	59.8
29.1	24.1	25.8	22.3	32.7	25.9	103.7	82.9	112.9	94.4	94.7	72.3	62.5	53.2	63.1	56.4	62.2	50.2
18.6	12.3	13.5	9.1	23.9	15.2	140.8	93.6	150.0	104.7	131.9	83.3	76.3	50.1	74.0	51.0	78.7	49.3
25.2	29.4	23.1	26.7	27.9	32.5	69.4	83.9	76.4	92.9	62.5	74.7	77.3	67.6	58.3	72.3	52.7	63.1
12.8	20.5	9.5	15.1	16.0	25.8	13.0	19.1	16.9	24.5	8.9	13.3	37.0	58.0	42.2	65.2	31.6	50.3
34.4	25.2	27.9	23.1	40.5	26.6	27.0	20.2	29.3	24.6	25.0	16.6		56.4	78.3	64.5	76.5	50.0
												81.0					
31.0	18.4	23.8	15.8	37.5	20.3	26.4	16.2	27.2	19.0	25.7	13.9	40.2	48.4	86.4	58.4	76.1	40.7
68.6	44.3	69.8	50.3	67.6	39.5	108.0	68.2	124.5	88.1	92.8	52.4	55.2	25.1	41.0	28.5	39.5	22.5
21.9	28.0	19.5	26.7	24.5	29.4	56.3	73.2	62.6	87.1	50.0	60.8	33.9	42.6	31.9	42.9	36.2	42.5
20.7	26.2	17.4	23.9	24.1	28.5	73.1	94.0	80.1	111.8	66.0	79.0	39.5	49.3	35.6	48.3	43.7	50.6
28.8	33.2	24.8	29.7	33.0	36.3	25.8	28.7	31.0	36.0	20.5	22.0	31.8	34.7	32.0	36.4	31.6	33.1
11.6	14.9	11.4	15.5	11.8	14.2	25.1	31.0	28.2	36.9	22.2	25.9	23.2	27.2	23.6	29.4	22.6	25.0
30.9	42.0	28.6	41.0	34.1	43.1	75.8	104.2	85.5	123.8	66.2	85.5	37.0	51.2	34.7	51.1	40.3	51.5
29.3	30.5	25.4	28.3	33.6	32.7	59.5	61.5	69.0	76.3	50.2	48.7	62.6	64.3	62.6	70.5	62.8	59.4
26.3	22.4	25.4	24.2	27.3	21.1	56.6	45.2	67.1	61.7	46.9	32.2	60.5	47.6	58.1	52.9	63.3	43.5
25.5	18.5	26.0	22.3	25.2	15.6	56.8	41.2	68.1	58.3	46.4	28.0	59.5	41.9	58.2	48.6	61.0	36.7
21.6	18.7	20.6	20.3	22.7	17.6	51.2	44.1	60.4	58.6	42.6	32.6	49.7	42.2	47.7	46.3	51.9	39.0
45.1	61.3	35.3	50.5	55.2	70.8	50.9	69.2	59.3	84.9	42.2	54.8	64.1	87.6	60.8	87.9	67.6	87.0
23.7	13.6	22.6	15.4	25.0	12.5	92.9	53.8	103.8	72.4	83.1	40.0	121.4	68.0	104.5	70.7	139.3	66.4
68.9	77.2	64.8	79.1	73.0	75.8	90.8	100.9	105.5	126.8	76.4	78.6	74.3	84.2	74.2	91.9	74.7	77.6
55.3	53.1	26.2	25.8	84.8	78.9	29.0	27.3	31.5	30.5	26.5	23.4	29.0	27.2	21.0	20.2	37.1	34.2
87.9	130.8	80.4	146.7	95.6	121.5	67.6	102.1	70.4	125.5	64.8	84.5	63.0	92.8	53.3	90.4	73.0	94.3
51.8	46.4	44.1	43.5	56.8	46.4	63.7	50.3	92.4	77.0	37.8	28.7	…	49.7	55.2	44.6	71.3	52.8
34.6	38.5	29.7	36.3	39.6	40.5	39.1	43.3	48.7	59.8	31.2	30.9	64.9	49.0	43.8	54.3	44.9	44.5
												44.3					
22.2	21.4	16.5	16.0	28.1	26.6	51.9	48.0	62.0	58.1	41.9	38.1		20.2	18.1	17.7	24.8	22.6
60.2	47.7	44.9	40.7	75.5	53.0	32.7	26.2	38.8	34.1	26.5	19.7	44.4	35.4	32.7	29.9	56.1	39.3
77.3	77.7	63.2	74.0	98.8	85.6	57.9	57.5	65.1	75.4	54.0	45.6	77.2	76.6	71.7	86.2	88.2	72.8
53.0	64.8	44.3	56.0	61.8	73.2	84.9	103.9	95.9	121.9	73.6	86.5	79.4	98.3	79.9	103.5	78.9	92.9
…	…	…	…	…	…	…	…	…	…	…	…	21.4	…	…	…	…	…
…	…	…	…	…	…	…	…	…	…	…	…	0.0	…	…	…	…	…
…	…	…	…	…	…	…	…	…	…	…	…	40.3	…	…	…	…	…
30.0	26.2	25.2	25.8	34.7	25.5	84.3	73.6	92.4	93.6	76.4	56.6	…	86.7	75.6	76.5	125.0	94.7
…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
95.7	114.3	71.3	95.4	119.9	130.1	64.7	75.5	63.2	84.5	66.3	67.3	…	63.3	48.3	64.1	60.5	62.2
33.7	39.5	32.8	41.4	34.7	37.9	58.3	68.5	73.0	91.7	43.4	47.8	100.4	126.5	110.5	140.9	103.9	114.0
105.0	115.5	106.9	128.5	103.1	104.6	132.5	146.2	154.6	186.5	111.0	112.7	54.4	84.6	78.1	95.5	75.2	76.1
14.7	24.8	15.8	27.2	13.6	22.3	10.7	15.1	10.5	13.2	10.9	17.1	…	0.0	0.0	0.0	0.0	0.0
…	…	…	…	…	…	…	…	…	…	…	…	107.1	…	…	…	…	…
34.1	24.3	36.5	28.3	32.0	21.3	121.1	84.8	137.0	104.0	106.7	69.1	76.6	29.6	41.0	32.7	39.7	26.9

morbidity indicators

	29 tuberculosis incidence rate [1] (100,000 pop) 2007 total	29 tuberculosis incidence rate [1] (100,000 pop) 2007 SS+	31 malaria risk areas pop (%) 2008	32 malaria API (1,000 pop) 2008	33 malaria reported cases 2008	34 dengue reported cases 2008	35 aids incidence rate (100,000 pop) 2007	36 male:female ratio of aids cases 2007	37 proportion of low birthweight (<2,500 g) (%) 2005-08, lay
The Americas	24.0	13.2	4.9	7.0	612,762	874,176	10.5	2.5	8.1
North America	4.3	1.6	-	-	1,673	100	11.0	…	8.1
Bermuda	4.5 a	3.0 a	-	-	…	-	22.4	2.8	6.0
Canada	4.5	1.4	-	-	168 a,*	- a	0.7	4.2	6.1
United States of America	4.3	1.6	-	-	1,505 b,*	100	12.1	…	8.3
Latin America & the Caribbean	35.8	20.2	7.9	11.1	611,089	874,076	10.0	2.5	8.1
Latin America	36.1	20.3	7.9	11.1	597,136	869,560	9.9	2.6	8.1
Mexico	17.0	10.7	1.8 a	1.4 a	2,357	118,952	7.1	3.7	8.0
Central American Isthmus	30.0	19.7	12.3	4.4	18,469	38,945	8.8	2.3	8.9
Belize	21.4	18.3	46.8 b	6.0 b	539	39	15.2 a	1.0 a	13.4
Costa Rica	12.3	7.2	1.7	10.1	966	8,277	3.9	5.3	6.6
El Salvador	27.3	15.4	30.7 a	- a	33	5,804	7.0	2.7	8.8
Guatemala	23.5	17.6	9.5	4.0	7,198	3,230	8.9	1.9	…
Honduras	38.6	27.5	16.6	6.3	8,225	18,941	12.0	1.2	10.0
Nicaragua	41.2	26.0	3.9	3.4	764	1,424	1.7	1.9	8.8
Panama	47.7	24.9	6.7	3.1	744	1,230	21.9	2.9	8.5
Latin Caribbean	54.4	31.4	11.5	4.4	42,736	9,729	6.2	3.1	9.5
Cuba	6.8	3.9	-	-	19 b,*	70 b	3.2 a	5.1 a	5.1
Dominican Republic	42.3	24.2	3.4 a	3.3 a	1,840 b	4,654	3.4 a	1.4 a	11.0
French Guiana	23.3	…	10.9 a	120.2 a	4,074 a	704	…	…	…
Guadeloupe	4.5	…	-	-	12 *	316	…	…	8.8
Haiti	145.4	81.4	38.1 b	9.8 b	36,774 b	…	…	…	…
Martinique	5.0	…	-	-	14 *	601	5.8 a	2.3 a	12.1
Puerto Rico	2.5	1.4	-	-	3 b,*	3,384	21.4	2.2	12.5
Andean Area	51.2	30.4	8.9	17.9	217,665	116,068	2.7	2.8	8.2
Bolivia	90.0	59.7	7.5	13.1	9,748	8,089	1.9 a	2.5 a	...
Colombia	24.7	16.2	11.4 b	19.3 b	110,480 b	43,448	1.9	2.8 a	8.4
Ecuador	36.6	25.8	8.2	1.4	4,891	2,840	3.6 a	3.1 a	6.9
Peru	113.7	62.4	7.4 b	24.0 b	50,797 b	13,643	3.8	3.0	8.4
Venezuela	23.3	12.3	7.3 b	19.0 b	41,749 b	48,048	…	…	…
Brazil	39.3	20.2	11.4 b	18.6 b	314,421	585,769	17.7	1.5	8.2
Southern Cone	23.0	11.9	1.3	0.6	1,488	97	4.1	3.1	6.8
Argentina	24.7	12.6	0.7	0.6	130	40	3.8	2.5	7.2
Chile	14.5	7.0	-	-	5 b,*	25	3.6	4.9	5.9
Paraguay	37.0	20.8	9.5 b	2.3 b	1,341 b	32	5.6 a	3.1 a	6.2
Uruguay	18.2	11.4	-	-	12 *	-	7.2	2.3 a	8.3
Non-Latin Caribbean	17.1	8.6	4.2	8.3	13,953	4,516	34.6	1.6	11.2
Anguilla	-	-	-	-	-	9	7.1	…	16.0
Antigua & Barbuda	2.4	2.4	-	-	-	17	8.4 a	…	5.3
Aruba	…	…	-	-	…	-	- a	…	…
Bahamas	13.8	9.6	-	-	14 *	1	92.3	1.7	10.5
Barbados	6.3	3.1	-	-		1	40.5	1.5	11.8
Cayman Islands	2.1	2.1	-	-	1 a,*	1	6.4	1.0	7.5
Dominica	4.2	4.2	-	-	- b	80	5.6 a	…	10.4
Grenada	2.9	2.9	-	-	-	6	24.2	2.3	…
Guyana	77.7	30.5	32.4	47.5	11,815	324	25.8 a	1.5 a	11.2
Jamaica	3.9	2.9	-	-	22 *	359	40.8	1.3	12.0
Montserrat	40.0	20.0	-	-	-	2	-	…	8.0
Netherlands Antilles	2.6 a	2.6 a	-	-	…	1,030	…	…	…
Saint Kitts & Nevis	10.0	10.0	-	-	-	49	23.1	0.8	7.8
Saint Lucia	11.3	10.7	-	-	- b	98	…	…	11.4
Saint Vincent & the Grenadines	11.0	3.7	-	-	1 *	6	67.9	3.0	7.9
Suriname	24.7	13.3	9.8	43.5	2,086	79	40.4 a	1.1 a	10.9
Trinidad & Tobago	16.4	9.8	-	-	14 b	2,366	14.3	2.5	10.2
Turks & Caicos Islands	33.3 a	33.3 a	-	-	…	-	95.5	0.6	7.4
Virgin Islands (UK)	-	-	-	-	-	15	8.3	- c	4.5
Virgin Islands (US)	…	…	-	-	- b	73 b	31.0	1.0 a	10.4

Cholera, 2008

Country	cases
USA	5 (includes 4 imported)
total	5

*

Measles, 2008

country	cases
ARG	1
CAN	61
ECU	1
JAM	2
PER	1
USA	140
total	206

cases related to importation *

Yellow Fever, 2008

country	cases	deaths
ARG	9	3
BOL	1	0
BRA	46	27
COL	3	3
PER	15	10
PRY	27	11
total	101	54

*

*** Source:**
Prevention and Control of Communicable Diseases Project; PAHO, 2009

Comprehensive Family Immunization Project; PAHO, 2009

BI 29: (1) new and relapse cases. **BI 29 - 36:** (a) value 2006; (b) value 2007; (c) 2:0. **BI 33:** (*) imported.

resources, access & coverage indicators

	38 human resources per 10,000 pop: physicians c2006	38 human resources per 10,000 pop: nurses c2006	38 human resources per 10,000 pop: dentists c2006	41 hospital beds per 1,000 pop 2005-08, lay	42A national health expenditure as a % of GDP: public 2007	42B national health expenditure as a % of GDP: private 2007	43 health care by trained personnel (%): prenatal	44 health care by trained personnel (%): at birth	44 health care by trained personnel (%): year	45 immunization coverage (%): under 1 year of age: DPT3 2008	46 immunization coverage (%): under 1 year of age: Polio3 2008	47 immunization coverage (%): under 1 year of age: BCG 2008	48 immunization coverage (%): 1 year of age: measles/MMR 2008	49 contraceptive use (women, all methods) (%) 2005-08, lay
The Americas	…	…	…	2.3	…	…	94.4	92.0		93	93	97	94	…
North America	…	…	…	3.1	…	…	99.0	99.5		95	92	…	92	…
Bermuda	…	…	…	3.2	3.7 l, f	4.4 q	100.0	100.0	2007	95	95	n/a	89	…
Canada	19.1	77.2	5.8	3.4	7.5	1.4 n	…	100.0	2007	94 b, g	90 b, g	n/a	94 b, g	…
United States of America	…	…	…	3.1	7.8	4.5 n	99.0	99.5	2006	96 b, g	93 b, g	n/a	92 b, g	…
Latin America & the Caribbean	…	…	…	1.8	…	…	92.2	88.3		91	93	97	94	…
Latin America	…	…	…	1.9	…	…	92.3	88.5		91	93	97	95	61
Mexico	14.0	19.0	0.7	1.7 a	4.9 c, k	2.6 o	94.2 d	98.7	2007	96	96	100	95	71
Central American Isthmus	13.6	5.3	3.7	0.9	…	…	77.3	55.4		94	94	99	95	63
Belize	8.1	15.7	0.9	1.2 a	1.9 f	1.4 n	99.7	94.8	2008	94	94	98	96	…
Costa Rica	20.0	15.3	6.5	1.3	5.2	3.2 o	91.7	98.7	2007	89	89	86	89	96
El Salvador	20.1	5.1	8.1	0.8 a	2.9 c, l	4.0 o	51.9 a	43.7	2007	98	98	99	95	72
Guatemala	9.9	4.0	1.9	0.6 a	2.1 m	4.8 o	70.0 c	31.4	2007	96	96	99	96	68
Honduras	9.0	1.7	3.0	0.7 a	4.1 l	2.8 o	91.7	66.9	2006	93	93	100 *	95	43
Nicaragua	16.4	1.4	2.9	0.9 a	5.0	4.1 p	90.2 d	84.0	2007	97	97	100 *	100 *	72
Panama	13.8	11.5	2.9	2.2	4.3 d	2.0 o	83.9	91.5	2007	82	82	100	85	10 a
Latin Caribbean	…	…	…	3.0	…	…	92.9	69.2		72	72 *	80	78	58
Cuba	63.4	83.8	9.5	6.0	10.9 c, m	…	100.0	99.9	2008	100 *	100 *	99	100 *	78
Dominican Republic	10.9	1.3	1.1	1.0 a	1.8	3.4 o	98.9	97.8	2007	81	81	92	95	73
French Guiana	…	…	…	2.7	…	…	49.0	49.0	2004	…	…	…	…	…
Guadeloupe	…	…	…	6.1	…	…	97.2	99.9	2006	…	…	…	…	…
Haiti	…	…	…	1.3	2.7 m, f	2.8 o	84.5	26.1	2005	53	52	61	54 b, h	23
Martinique	…	…	…	4.1	…	…	99.5 d	99.9	2007	…	…	…	…	…
Puerto Rico	22.0	65.9	3.9	3.1	3.5 f	…	98.9	99.9	2007	…	…	…	…	…
Andean Area	13.5	7.2	4.8	1.2	…	…	91.3	85.1		84	90	94	92	51
Bolivia	4.9	5.5	0.7	1.1	3.3	1.6 o	…	65.0	2008	83	82	87	87	25
Colombia	16.0	8.0	9.0	1.0	3.5 e	2.5 o	93.6 e	97.1	2006	92	92	93	92	56
Ecuador	15.4	5.2	1.7	0.6 a	2.3 c	4.0 o	84.1	73.6	2007	99	99	100 *	98	…
Peru	11.5	7.6	1.1	1.5	2.0 l	1.8 p	91.0	71.0	2006	99	98	100 *	90	71
Venezuela	…	…	…	1.3	2.8	2.3 o	…	95.0	2005	50	76	90	93	30
Brazil	17.0	5.4	11.6	2.4	3.6 d, l	3.8 o	97.8	97.3	2006	98	100	100 *	99	81
Southern Cone	24.2	4.2	6.8	2.2	…	…	90.1	98.3		91	92	97	95	60
Argentina	32.1	3.8	9.3	…	4.6 d, k	3.3 o	88.4 e	99.4	2007	92	94	100 *	98	54
Chile	9.3	4.3	1.8	2.3	4.0 d, k	2.1 o	96.0	99.7	2006	98	97	100	96	64
Paraguay	6.0	2.8	0.9	1.3	2.3	3.2 o	86.5	90.6	2007	76	76	76	77	79
Uruguay	38.7	10.2	12.4	2.9 a	9.0	2.8 p	94.9	98.7	2006	95	95	99	95	78
Non-Latin Caribbean	…	…	…	2.5	…	…	95.5	95.1		88	88	90	87	…
Anguilla	…	…	…	2.2	4.2 f	2.6 n	100.0	100.0	2008	100	100	100	100	…
Antigua & Barbuda	…	…	…	1.7	2.9 f	1.4 n	100.0	100.0	2008	100 *	100	n/a	100 *	…
Aruba	…	…	…	…	8.5 e, m	1.9 o	…	…		…	…	…	…	68
Bahamas	…	…	…	3.2	3.0 f	3.1 n	98.0	99.0	2007	93	93	n/a	90	…
Barbados	…	…	.	7.6	4.4 f	1.9 n	100.0	100.0	2007	85	85	n/a	94	…
Cayman Islands	…	…	…	2.9	3.5 f	…	99.6	100.0	2008	89	89	80	86	…
Dominica	…	…	…	3.8	3.8 c, m	2.4 n	100.0	100.0	2008	96	95	98	100	…
Grenada	…	…	…	2.6	3.2 f	3.9 n	100.0 c	98.8	2007	100	100	n/a	100	…
Guyana	3.8	14.2	1.9	1.9	5.6 f	1.9 q	96.3 d	93.3	2007	93	93	96	95	34
Jamaica	10.4	8.0	2.8	1.7 a	2.6 c	2.7 o	…	93.0	2007	84	83	87	79	…
Montserrat	…	…	…	6.0	7.1 f	0.8 n	100.0	100.0	2008	100	100	100	100	…
Netherlands Antilles	…	…	…	…	11.5	0.7 n	…	…		90 #	90 #	n/a	100 #	…
Saint Kitts & Nevis	…	…	…	5.5	2.1 f	2.4 n	100.0 b	100.0	2008	99	98	95	99	54
Saint Lucia	…	…	…	2.8	2.2 c, m	3.3 o	99.2	100.0	2007	96	96	100	100	…
Saint Vincent & the Grenadines	…	…	…	3.0	3.6 f	0.7 n	99.5	99.2	2008	100 *	100 *	100 *	100 *	20 a
Suriname	8.9	16.3	1.0	3.1	3.8 f	0.8 n	90.0	90.0	2007	84	85	n/a	86	46
Trinidad & Tobago	…	…	…	2.7	2.4 f	1.9 o	94.4	99.7	2004	90	91	n/a	91	…
Turks & Caicos Islands	…	…	…	1.4	4.8 f	…	95.7	100.0	2008	100 *	100 *	100 *	94	…
Virgin Islands (UK)	…	…	…	1.8	2.3 f	…	99.0	100.0	2008	81	80	89	77	…
Virgin Islands (US)	14.7	…	…	…	3.0 f	…	92.1	98.9	2006	…	…	…	…	…

BI 41 - 49: (a) value public sector; (b) value 2007; (c) value 2008; (d) value 2006; (e) value 2005; (f) value 2004; (g) < 2 years; (h) < 1 year; (*) reported coverage >100%; (#) value St. Maarten;
BI 42AB: (k) incl. 'Obras Sociales' (ARG), ISAPRES and FONASA (CHL), IMSS and *Seguro Popular* (MEX) and IAMC (URY); (l) institutional expenditure; (m) expenditure by activities or budgetary program; (n) medical care and expenses; (o) health; (p) health care and health conservation; (q) personal care and health.

socioeconomic indicators

	50T literate population (15+ years old) (%) 2007 total	50M male	50F female	51 calories availability (Kcal/pc/day) 2003	52A gross national income (US$ per capita) 2007 current value	52B ppp value	53 annual GDP growth (%) 2006-07	54 highest 20%/ lowest 20% income ratio 2000-06, lay	55T 2006 population with access (%) to improved facilities of drinking water sources total	55U urban	55R rural	56T improved sanitation facilities total	56U urban	56R rural
The Americas	…	…	…	3,206	21,393	23,178	3.1	13.6	94	98	80	87	92	68
North America	…	…	…	3,739	45,424	44,843	1.1	8.2	99	100	95	100	100	99
Bermuda	…	…	…	2,235	…	…	4.3	…	…	…	…	…	…	…
Canada	…	…	…	3,605	39,650	35,500	1.7	5.5	100	100	99	100	100	99
United States of America	…	…	…	3,754	46,040	45,840	1.0	8.4	99	100	94	100	100	99
Latin America & the Caribbean	…	…	…	2,873	6,009	9,787	4.4	…	91	97	72	78	86	49
Latin America	91.1	92.0	90.3	2,887	6,035	9,829	4.4	17.2	91	97	72	78	86	49
Mexico	92.8	94.4	91.4	3,171	9,400	13,910	2.2	11.5	95	98	85	81	91	48
Central American Isthmus	81.2	83.8	78.9	2,384	2,753	5,419	4.2	17.8	88	96	79	77	85	67
Belize	…	…	…	2,876	3,760	6,080	-0.9	…	…	100	…	…	…	…
Costa Rica	95.9	95.7	96.2	2,813	5,520	10,510	6.3	12.4	98	99	96	96	96	95
El Salvador	82.0	84.9	79.7	2,556	2,850	5,640	3.3	16.4	92 c	98 c	88 c	94 c	99 c	90 c
Guatemala	73.2	79.0	68.0	2,227	2,450	4,520	3.2	16.8	…	…	…	…	…	…
Honduras	83.6	83.7	83.5	2,373	1,590	3,610	4.3	23.9	84	95	74	66	78	55
Nicaragua	78.0 a	78.1 a	77.9 a	2,291	990	2,510	2.6	15.0	79	90	63	48	57	34
Panama	93.4	94.0	92.8	2,287	5,500	10,610	9.8	23.1	93 c	99 c	83 c	93 c	98 c	84 c
Latin Caribbean	…	…	…	2,585	…	…	…	…	82	90	69	67	78	50
Cuba	99.8	99.8	99.8	3,286	…	…	…	…	91	95	78	98	99	95
Dominican Republic	89.1	88.8	89.5	2,281	3,560	6,350	7.3	14	95	97	91	79	81	74
French Guiana	…	…	…	…	…	…	…	…	…	…	…	…	…	…
Guadeloupe	…	…	…	…	…	…	…	…	…	98	…	…	…	…
Haiti	…	…	…	2,109	520	1,050	1.4	25	58	70	51	19	29	12
Martinique	…	…	…	…	…	…	…	…	…	…	…	…	…	…
Puerto Rico	…	…	…	…	…	…	…	…	…	…	…	…	…	…
Andean Area	91.5	93.4	89.7	2,484	4,391	8,481	5.9	19.5	90	97	74	74	83	50
Bolivia	90.7	96.0	86.0	2,219	1,260	4,150	2.8	33.7	86	96	69	43	54	22
Colombia	92.7	92.4	92.8	2,567	4,100	8,260	6.2	26.6	93	99	77	78	85	58
Ecuador	84.2	87.3	81.7	2,641	3,110	7,110	1.6	17.2	95	98	91	84	91	72
Peru	89.6	94.9	84.6	2,579	3,410	7,200	7.6	13.9	84	92	63	72	85	36
Venezuela	95.2	95.4	94.9	2,272	7,550	12,290	6.6	10.0	…	…	…	…	…	…
Brazil	90.0	89.8	90.2	3,146	5,860	9,270	4.2	19.4	91	97	58	77	84	37
Southern Cone	97.0	97.1	97.0	2,892	6,192	11,909	6.5	15.2	91	98	70	90	93	69
Argentina	97.6	97.6	97.7	2,959	6,040	12,970	7.6	15.9	96	98	80	91	92	83
Chile	96.5	96.6	96.5	2,872	8,190	12,330	4.1	13.8	95	98	72	94	97	74
Paraguay	94.6	95.7	93.5	2,524	1,710	4,520	4.9	16.9	77	94	52	70	89	42
Uruguay	97.9	97.4	98.2	2,883	6,390	11,020	7.1	11.5	100 c	100 c	100 c	98 c	93 c	98 c
Non-Latin Caribbean	…	…	…	2,698	5,969	9,432	-0.4	…	94	97	91	87	88	87
Anguilla	…	…	…	…	…	…	…	…	…	…	…	…	99	…
Antigua & Barbuda	…	…	…	2,313	11,650 b	17,680 b	-2.1 b	…	…	95	…	…	98	…
Aruba	98.1	98.2	98.1	…	…	…	…	…	100	100	100	…	…	…
Bahamas	…	…	…	2,709	…	…	1.6	…	…	98	…	100	100	100
Barbados	…	…	…	3,123	…	…	…	…	100	100	100	99	99	100
Cayman Islands	98.9	98.7	99.0	…	…	…	…	…	…	…	…	…	…	…
Dominica	…	…	…	2,785	4,030 b	6,930 b	2.6 b	…	…	100	…	…	…	…
Grenada	…	…	…	2,990	3,920	5,480	2.9	…	…	97	…	97	96	97
Guyana	…	…	…	2,764	1,250	2,580	9.2	…	93	98	91	81	85	80
Jamaica	86.0	80.5	91.1	2,690	3,330	5,300	-7.7	9.9	93	97	88	83	82	84
Montserrat	…	…	…	…	…	…	…	…	100	100	100	96	96	96
Netherlands Antilles	96.4	96.3	96.4	2,592	…	…	…	…	…	…	…	…	…	…
Saint Kitts & Nevis	…	…	…	2,713	9,990	13,680	2.5	…	99	99	99	96	96	96
Saint Lucia	…	…	…	2,975	5,520	9,240	2.0	…	98	98	98	…	…	…
Saint Vincent & the Grenadines	…	…	…	…	4,210	7,170	6.2	…	…	…	…	…	…	96
Suriname	90.4	92.7	88.1	2,697	4,730	7,640	4.7	…	92	97	79	82	89	60
Trinidad & Tobago	98.7	99.1	98.3	2,788	14,480	22,420	5.1	…	94	97	93	92	92	92
Turks & Caicos Islands	…	…	…	…	…	…	…	…	100	100	100	…	98	…
Virgin Islands (UK)	…	…	…	…	…	…	…	…	98	98	98	100	100	100
Virgin Islands (US)	…	…	…	…	…	…	…	…	…	…	…	100	100	99

BI 50THM, 52AB, 53: (a) value 2005; (b) value 2006.
BI 55, 56TUR: (c) data provided by country.

premature mortality due to cerebrovascular disease (CeVD), c2006

Figure 1.
Proportional premature mortality due to cerebrovascular disease by income level; countries of the Americas; c 2006.

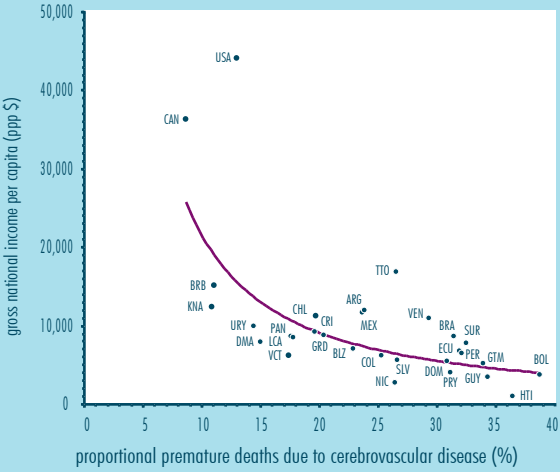
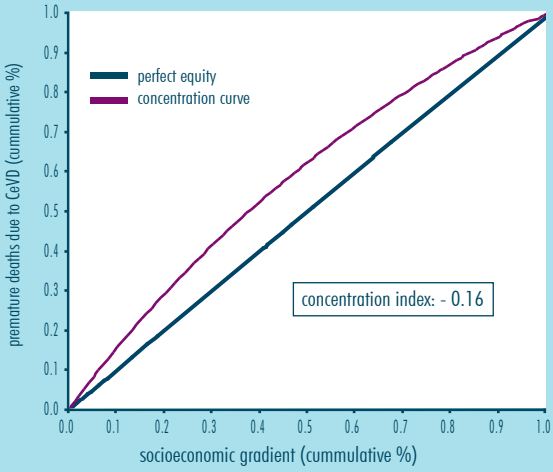


Figure 2.
Inequality concentration curve of premature mortality due to cerebrovascular disease; countries of the Americas; c 2006.



Both the expansion of life expectancy and the reduction of the disease burden - by postponing the age of onset of chronic infirmity relative to average life duration - are phenomena that are taking place in the populations across the Region of the Americas.

Cerebrovascular diseases (ICD 10: I60-I69) are among those chronic cardiovascular illnesses for which a great number of preventive interventions and disease management are available and, indeed, there has been a sustained reduction in mortality due to stroke in most countries of the Region of the Americas between 1970 and 2000. Despite these health gains, mortality due to cerebrovascular diseases remains four times greater in Latin American and Caribbean than in North American countries. More importantly, a considerable proportion of deaths originated by cerebrovascular diseases (~22%) occurs prematurely: each year, this untimely burden of mortality represents on average, 90,000 deaths among people younger than 65 years of age in the Americas (out of a total burden of more than 400,000 deaths due to this same group of causes). This burden of premature mortality disproportionately affects women.

The reasons for these differences are not well known, although it is suspected that there are significant disparities in the incidence of cerebrovascular events, access to health services, quality of medical care for stroke, and risk-factor control. The map of this brochure depicts the quintile distribution of proportional premature mortality due to cerebrovascular diseases in the countries and territories of the Americas.

Among the many uses of the PAHO Basic Indicators to generate evidence in public health, an exploratory analysis of the relationship between premature mortality due to cerebrovascular diseases (CeVD) and potential socioeconomic inequality determinants, at the ecological level, is presented here. **Figure 1** shows the non-linear inverse relationship between premature mortality due to CeVD, as a proportion of the total number of deaths due to CeVD, and gross national income per capita, adjusted by purchasing power parity; the higher the income, the lower the proportional premature mortality due to CeVD; in other words, the wealthier people are more able to postpone deaths due to CeVD to ages older than 65 years than the poorer.

There is also a non-linear direct relationship (not shown) between the risk of dying prematurely due to CeVD, as measured by the mortality rate, and the magnitude of the average income ratio of the richest quintile to the average income of the poorest quintile. This so-called "20/20 Kuznets ratio" is a summary measure of the depth of income inequality in a society: the deeper the income inequality, the greater the risk of dying prematurely due to CeVD.

Figure 2 tells us how unequally distributed those premature deaths due to CeVD are among the countries of the Americas or, more specifically, along the social gradient of the population defined by income level. The concentration index, a robust summary measure of inequality, is 0.16, indicating that premature mortality due to CeVD is disproportionately concentrated among the poorer in the social gradient. The concentration curve indicates that almost 30% of the premature deaths due to CeVD are in the poorest 20% of the population of the Americas, whereas only 13% of those premature deaths are concentrated in its richest 20%.

This exploratory analysis shows the importance of chronic diseases with regard to premature mortality and its unequal distribution in the population. These untimely deaths are associated with both poverty and income inequality, as well as with difficulties to access health services and benefits of social policies. In fact, poverty-reduction and inequality-reduction strategies could contribute to reduce the burden of premature mortality due to cerebrovascular diseases in the Americas, along with other strategies such as those aimed at strengthening and developing health policies directed at the prevention and control of chronic diseases, health promotion, and access to health care.

technical notes & sources

Technical notes:

■ Infant mortality rate (IMR) and maternal mortality ratio (MMR) (BI 10, 11) are reported by countries. For some countries due to the small number of events, rate/ratio does not meet standards for reliability and precision and number of events are presented. An increase of MMR or IMR may reflect an improvement in data coverage and quality.

■ Certified deaths due to ill-defined and unknown conditions (BI 16) refers to death certificates issued in a given year for which the underlying cause of death was symptoms, signs, and ill-defined and unknown conditions (ICD-10: R00-R99).

■ Mortality under-registration (BI 17) is determined by subtracting from 1 the total cumulative deaths registered in a country-period divided by the corresponding total cumulative estimated deaths, obtained after applying the UN estimated crude death rates to the corresponding population estimates by the UN. For countries with population fewer than 300.000 pop, US Census Bureau rate and population are applied.

■ Corrected mortality rates (BI 18Tc/Mc/Fc – IB 28Tc/Mc/Fc) were computed based on registered mortality data, applying a correction algorithm for mortality under-registration and a redistribution algorithm for deaths from ill-defined causes. The methodology used is presented in Health Statistics from the Americas, 2006 edition (http://www.paho.org/HSA2006).

■ Age-adjusted mortality rates (BI 18 Ta/Ma/Fa – BI 28Ta/Ma/Fa) were computed by direct standardization to the World Standard Population (2,400 under 1 year; 9,600 from 1 to 4 years; 19,000 from 5 to 14 years; 43,000 from 15 to 44 years; 19,000 from 45 to 64 years; and 7,000 65 years and older) (WHO, World Health Statistics Annual; 1996 Edition; Geneva, 1998).

■ Malaria risk areas population (BI 31) shows the proportion of the total population in a country living in high and moderate malaria transmission risk areas. Moderate risk: API between 1 to 10/1,000 pop; high risk: API $>$ 10/1,000 pop.

■ National Health Expenditure (BI 42AB) corresponds to expenditure in the function 'health' (Division 07) of the functional classification of government expenditure of the International Family of Classifications of the United Nations. It includes expenditures by general government, from social security funds and other public health insurance systems (mandatory). Data are from the public finance statistics of the International Monetary Fund (printed version 2006 and CD, 2004) and from financial reports of public health insurance institutions. For more information, please go to:
www.paho.org/Spanish/DPM/SHD/HP/nhexp-metodos.htm

■ Denominator for rates of BI 29, 30, 31, 35 y 41: UN WPP 2008 Revision; US Bureau of the Census.

Subregional aggregates express average values weighted by respective denominator. The sum of the total is presented for absolute numbers. Values from different years are included in this total.

Information presented in this publication supersedes that of previous editions and is under ongoing review. Users are advised not to compare data series between different editions. Data sources were defined to ensure comparability; therefore, statistics can differ from national statistics.

Suggested citation:
Pan American Health Organization, Health Information and Analysis Project. Health Situation in the Americas: Basic Indicators 2009. Washington, D.C., United States of America, 2009.

Data sources:

■ Technical reports from PAHO/WHO Country Representatives; Region of the Americas; 2009, (BI 10, 12, 37, 41, 43-44, 49). **As of 26 June 2009.**

■ Technical reports from PAHO/WHO Regional Areas; 2008 (BI 29-36, 38-40, 42AB, 45-48). **As of 26 June 2009.**

■ United Nations Population Division. World Population Prospects: The 2008 Revision, New York; 2009 (BI 1-6, 9THM).

■ U.S. Bureau of the Census. International Data Base (BI 1-6, 8, 9THM). Accessed 20 July 2009 at:
http://www.census.gov/ipc/www/idb/informationGateway.php

■ World Health Organization. World Health Statistics 2009. Geneva, WHO; 2009 (BI 11, 13).

■ United Nations Population Division. World Urbanization Prospects: The 2007 Revision, New York; 2006 (BI 7).

■ PAHO/WHO. Technical Information System: Regional Mortality Database, HSD/HA; Washington DC; 2009 (BI 14-28).

■ UNESCO. Institute for Statistics (UIS). Data Centre, UIS Estimates (BI 50THM). Accessed 20 July 2009 at: http://www.stats.uis.unesco.org.

■ United Nations. Food and Agriculture Organization (FAO), FAOSTAT Statistical Database. Rome (BI 51). Accessed 27 July 2009 at: http://apps.fao.org.

■ The World Bank 2009 World Development Indicators. Washington, D.C.; 2009 (BI 52AB-54).

■ WHO/UNICEF. Monitoring Programme for Water Supply and Sanitation (JMP, 2008). Data provided by the Pan American Center for Sanitary Engineering and Environment Sciences (CEPIS) (BI 55-56).

Map:
PAHO/WHO Regional Mortality Database, 2008; Analysis: HSD/HA.

Abbreviations:
(-) magnitude zero; **(0)** magnitude less than half the measurement unit; **(...)** data not available; **(c)** circa; **(pop)** population; **(lb)** live births; **(lay)** latest available year; **(ppp)** purchasing power parity; **(GDP)** gross domestic product; **(ADD)** acute diarrheal diseases: CIE-10: A00-A09; **(ARI)** acute respiratory infections: CIE-10: J00-J22; **(SS+)** sputum smear positive; **(API)** annual parasite index; **(aids)** acquired immunodeficiency syndrome; **(DPT3)** diphtheria-pertussis-tetanus, third dose; **(Polio 3)** oral polio vaccine or inactivated polio vaccine, third dose; **(BCG)** anti-tuberculosis vaccine (bacille Calmette-Guerin); **(MMR)** measles, mumps and rubella; **(n/a)** not applicable; **(IB)** basic indicator.

Country codes according to ISO 3166-1:
Aruba **(ABW)**, Anguilla **(AIA)**, Netherlands Antilles **(ANT)**, Argentina **(ARG)**, Antigua and Barbuda **(ATG)**, Bahamas **(BHS)**, Belize **(BLZ)**, Bermuda **(BMU)**, Bolivia **(BOL)**, Brazil **(BRA)**, Barbados **(BRB)**, Canada **(CAN)**, Chile **(CHL)**, Colombia **(COL)**, Costa Rica **(CRI)**, Cuba **(CUB)**, Cayman Islands **(CYM)**, Dominica **(DMA)**, Dominican Republic **(DOM)**, Ecuador **(ECU)**, Guadeloupe **(GLP)**, Grenada **(GRD)**, Guatemala **(GTM)**, French Guiana **(GUF)**, Guyana **(GUY)**, Honduras **(HND)**, Haiti **(HTI)**, Jamaica **(JAM)**, Saint Kitts & Nevis **(KNA)**, Saint Lucia **(LCA)**, Mexico **(MEX)**, Montserrat **(MSR)**, Martinique **(MTQ)**, Nicaragua **(NIC)**, Panama **(PAN)**, Peru **(PER)**, Puerto Rico **(PRI)**, Paraguay **(PRY)**, El Salvador **(SLV)**, Suriname **(SUR)**, Turks and Caicos Islands **(TCA)**, Trinidad & Tobago **(TTO)**, Uruguay **(URY)**, United States of America **(USA)**, Saint Vincent & the Grenadines **(VCT)**, Venezuela **(VEN)**, Virgin Islands UK **(VGB)** and Virgin Islands US **(VIR)**.

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PAHO/HSD/HA/09.01