

health situation in the americas Basic Indicators

2008



**Pan American
Health
Organization**



Regional Office of the
World Health Organization

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

60
years

World Health Organization
Our health
Our future

preface

This fourteenth publication on the health situation of the Region of the Americas includes a set of basic indicators and provides the latest information available on 56 basic indicators for 48 countries and territories, as well as for groupings of countries or sub-regions. Resolution CD40.R10, *Collection and Use of Core Health Data*, requires the Member States of the Pan American Health Organization (PAHO) to gather data in order to develop these basic indicators.

This year the publication includes an analysis of the quality of mortality data based on the proportion of mortality under-registration and on the proportion of deaths assigned to ill-defined and unknown causes. This information was used to develop an index for classifying the quality of mortality data. The results show that of the 32 countries studied, 19 (59%) have good quality mortality data, and 7 countries (22%) have poor or very poor quality mortality data. In addition to problems with data quality, 2 countries from Central America and 14 Caribbean countries were excluded from the analysis due to their critical situation in the availability of mortality data.

There is also a comparison between estimated infant and maternal mortality using the World Health Organization methodology and those calculated from data reported by the countries. This comparison allows for better visualization of differences between different ways of measuring the same indicator and provides a parameter for discussing the validity of these important health indicators.

Information required for decision-making must be available, but also accurate and timely. In this publication we want to emphasize those aspects that reveal differences in the quality of data observed among the different countries in the Region. By doing so, it is expected that those responsible for health statistics in the countries of the Americas will be encouraged to implement improvements in the collection, validation, analysis and dissemination of data.

Strengthening and improving health information is everyone's responsibility, therefore, PAHO developed the *Regional Plan of Action for Strengthening Vital and Health Statistics*, approved by the Executive Committee (Resolution CE142.R4, June 2008)¹. The Plan requests PAHO to provide technical cooperation to countries in order to improve the quality and coverage of vital and health statistics, to promote horizontal cooperation, to establish a collaboration mechanism among the different areas of PAHO, and to coordinate actions with other international agencies and relevant actors in order to strengthen the health information systems of the countries in the Region.

The material presented in this brochure has been compiled, drafted, and reviewed by PAHO staff at Headquarters and country levels and staff from ministries of health. For more information, including all basic indicators and their definitions, please refer to www.paho.org/english/dd/ais/coredata.htm.



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(1) More information can be found at <http://www.paho.org/english/gov/ce/ce142.r4-e.pdf>

demographic indicators

| | 1 total population (thousands) | 2 crude birth rate (1,000 pop) | 3 annual births average (thousands) | 4 annual deaths average (thousands) | 5 annual pop growth (%) | 6 total fertility rate (child/woman) | 7 urban population (%) | 8 dependency ratio (100 pop) | 9T life expectancy at birth (years) 2008 | 9M | 9F |
|--|---|---|--|--|----------------------------------|---|---------------------------------|---------------------------------------|---|------|--------|
| | 2008 | 2008 | 2008 | 2008 | 2008 | 2008 | 2008 | 2008 | total | male | female |
| The Americas | 921,420 | 17.3 | 16,052.6 | 6,297.8 | 1.1 | 2.2 | 79.7 | 52.7 | 75.5 | 72.6 | 78.4 |
| North America | 342,035 | 13.6 | 4,663.4 | 2,801.8 | 0.9 | 2.0 | 81.6 | 48.6 | 78.6 | 76.0 | 81.1 |
| Bermuda | 67 | 11.2 | 0.7 | 0.5 | 0.5 | 1.9 | 100.0 | 44.7 | 78.3 | 76.2 | 80.5 |
| Canada | 33,170 | 10.3 | 343.3 | 248.8 | 0.9 | 1.5 | 80.4 | 44.0 | 80.8 | 78.5 | 83.1 |
| United States of America | 308,798 | 13.9 | 4,319.4 | 2,552.5 | 1.0 | 2.0 | 81.7 | 49.1 | 78.4 | 75.7 | 80.9 |
| Latin America & the Caribbean | 579,385 | 19.5 | 11,389.2 | 3,496.0 | 1.2 | 2.3 | 78.4 | 54.8 | 73.4 | 70.2 | 76.5 |
| Latin America | 572,388 | 19.6 | 11,268.0 | 3,444.4 | 1.2 | 2.3 | 79.0 | 55.1 | 73.7 | 70.6 | 76.9 |
| Mexico | 107,801 | 19.0 | 2,054.2 | 519.1 | 1.1 | 2.2 | 77.2 | 54.8 | 76.4 | 74.0 | 78.8 |
| Central American Isthmus | 41,788 | 26.3 | 1,108.6 | 223.7 | 1.9 | 3.2 | 55.2 | 71.3 | 72.5 | 69.4 | 75.7 |
| Belize | 294 | 24.7 | 7.3 | 1.1 | 2.0 | 2.9 | 51.7 | 67.2 | 76.1 | 73.3 | 79.3 |
| Costa Rica | 4,534 | 17.5 | 79.6 | 18.8 | 1.5 | 2.1 | 63.3 | 49.2 | 78.9 | 76.6 | 81.4 |
| El Salvador | 6,953 | 22.5 | 157.0 | 41.1 | 1.3 | 2.6 | 60.7 | 62.8 | 72.1 | 69.0 | 75.1 |
| Guatemala | 13,686 | 32.7 | 453.6 | 77.8 | 2.5 | 4.1 | 48.5 | 87.1 | 70.5 | 67.0 | 74.0 |
| Honduras | 7,246 | 27.4 | 200.7 | 40.9 | 1.9 | 3.2 | 47.9 | 73.8 | 70.4 | 67.2 | 73.9 |
| Nicaragua | 5,676 | 24.5 | 140.4 | 26.7 | 1.3 | 2.7 | 56.8 | 67.1 | 73.2 | 70.2 | 76.3 |
| Panama | 3,399 | 20.5 | 70.0 | 17.3 | 1.6 | 2.5 | 73.2 | 56.1 | 75.7 | 73.2 | 78.4 |
| Latin Caribbean | 35,987 | 19.0 | 686.7 | 272.3 | 0.9 | 2.4 | 69.1 | 56.9 | 72.2 | 69.7 | 74.8 |
| Cuba | 11,265 | 10.3 | 115.6 | 85.6 | 0.0 | 1.5 | 75.7 | 42.9 | 78.4 | 76.4 | 80.6 |
| Dominican Republic | 9,904 | 23.2 | 230.7 | 59.3 | 1.4 | 2.8 | 69.0 | 62.6 | 72.4 | 69.5 | 75.7 |
| French Guiana | 207 | 23.5 | 4.9 | 0.8 | 2.4 | 3.2 | 76.0 | 61.4 | 76.0 | 72.7 | 80.0 |
| Guadeloupe | 448 | 14.5 | 6.5 | 2.9 | 0.6 | 2.1 | 98.3 | 51.6 | 79.3 | 76.1 | 82.3 |
| Haiti | 9,751 | 27.5 | 270.5 | 89.5 | 1.6 | 3.5 | 46.8 | 69.7 | 61.3 | 59.4 | 63.2 |
| Martinique | 400 | 12.2 | 4.9 | 3.1 | 0.3 | 1.9 | 98.0 | 50.9 | 79.7 | 76.7 | 82.4 |
| Puerto Rico | 4,012 | 13.3 | 53.6 | 31.1 | 0.5 | 1.8 | 98.3 | 52.0 | 78.9 | 74.9 | 82.8 |
| Andean Area | 126,259 | 20.4 | 2,593.7 | 723.5 | 1.3 | 2.5 | 76.4 | 56.1 | 72.6 | 69.6 | 75.8 |
| Bolivia | 9,694 | 26.8 | 262.0 | 73.3 | 1.7 | 3.4 | 65.6 | 70.7 | 65.9 | 63.8 | 68.0 |
| Colombia | 46,741 | 18.5 | 866.8 | 260.9 | 1.2 | 2.2 | 74.5 | 52.1 | 73.1 | 69.5 | 76.8 |
| Ecuador | 13,481 | 20.7 | 280.1 | 70.2 | 1.1 | 2.5 | 65.6 | 60.7 | 75.2 | 72.3 | 78.2 |
| Peru | 28,221 | 20.6 | 586.6 | 174.0 | 1.2 | 2.5 | 71.4 | 56.3 | 71.7 | 69.2 | 74.3 |
| Venezuela | 28,122 | 21.1 | 598.2 | 145.1 | 1.6 | 2.5 | 93.4 | 55.2 | 73.9 | 71.0 | 77.0 |
| Brazil | 194,228 | 18.8 | 3,672.1 | 1,241.1 | 1.2 | 2.2 | 85.6 | 50.9 | 72.6 | 69.0 | 76.3 |
| Southern Cone | 66,325 | 17.3 | 1,152.7 | 464.7 | 1.0 | 2.2 | 88.1 | 54.9 | 76.0 | 72.6 | 79.4 |
| Argentina | 39,934 | 17.4 | 697.0 | 306.9 | 1.0 | 2.2 | 92.0 | 56.2 | 75.5 | 71.7 | 79.2 |
| Chile | 16,803 | 14.9 | 251.9 | 91.9 | 1.0 | 1.9 | 88.5 | 47.3 | 78.7 | 75.6 | 81.7 |
| Paraguay | 6,238 | 24.4 | 153.6 | 34.8 | 1.8 | 3.0 | 60.3 | 65.2 | 72.0 | 69.9 | 74.1 |
| Uruguay | 3,350 | 14.9 | 50.2 | 31.1 | 0.3 | 2.1 | 92.3 | 58.2 | 76.6 | 73.0 | 80.0 |
| Non-Latin Caribbean | 6,997 | 17.3 | 121.2 | 51.6 | 0.5 | 2.1 | 46.2 | 52.9 | 72.0 | 69.4 | 74.7 |
| Anguilla | 14 | 13.1 | 0.2 | 0.1 | 2.3 | 1.8 | 100.0 | 47.9 | 80.5 | 78.0 | 83.1 |
| Antigua & Barbuda | 70 | 16.4 | 1.1 | 0.4 | 0.5 | 2.2 | 30.5 | 43.9 | 72.7 | 70.3 | 75.2 |
| Aruba | 104 | 13.6 | 1.4 | 0.7 | 0.1 | 2.0 | 46.8 | 45.7 | 74.4 | 71.4 | 77.2 |
| Bahamas | 335 | 16.7 | 5.6 | 2.0 | 1.2 | 2.0 | 83.7 | 49.1 | 73.9 | 71.0 | 76.7 |
| Barbados | 295 | 10.9 | 3.2 | 2.1 | 0.3 | 1.5 | 39.8 | 37.7 | 77.5 | 74.6 | 80.0 |
| Cayman Islands | 48 | 12.4 | 0.6 | 0.2 | 2.4 | 1.9 | 100.0 | 40.7 | 80.3 | 77.7 | 83.0 |
| Dominica | 73 | 15.7 | 1.1 | 0.6 | 0.2 | 2.1 | 73.9 | 53.7 | 75.3 | 72.4 | 78.4 |
| Grenada | 106 | 18.1 | 1.9 | 0.9 | 0.0 | 2.3 | 30.9 | 56.4 | 68.9 | 67.1 | 70.5 |
| Guyana | 736 | 16.7 | 12.2 | 6.2 | -0.3 | 2.3 | 28.4 | 58.3 | 67.1 | 64.6 | 70.3 |
| Jamaica | 2,728 | 19.7 | 53.8 | 19.5 | 0.5 | 2.4 | 53.3 | 61.2 | 72.7 | 70.1 | 75.3 |
| Montserrat | 10 | 17.3 | 0.2 | 0.1 | 1.0 | 1.8 | 14.0 | 51.8 | 79.2 | 76.9 | 81.5 |
| Netherlands Antilles | 194 | 12.3 | 2.4 | 1.5 | 1.2 | 1.9 | 92.7 | 45.1 | 75.3 | 71.5 | 78.9 |
| Saint Kitts & Nevis | 40 | 17.8 | 0.7 | 0.3 | 0.7 | 2.3 | 32.3 | 53.0 | 72.9 | 70.1 | 76.0 |
| Saint Lucia | 167 | 18.8 | 3.2 | 1.1 | 1.1 | 2.2 | 27.8 | 51.2 | 73.9 | 72.0 | 75.8 |
| Saint Vincent & the Grenadines | 121 | 19.8 | 2.4 | 0.8 | 0.5 | 2.2 | 47.0 | 53.5 | 71.8 | 69.7 | 74.0 |
| Suriname | 461 | 19.2 | 8.9 | 3.2 | 0.5 | 2.4 | 74.9 | 55.0 | 70.4 | 67.2 | 73.7 |
| Trinidad & Tobago | 1,338 | 14.8 | 19.9 | 10.9 | 0.4 | 1.6 | 13.2 | 39.3 | 70.1 | 68.2 | 72.1 |
| Turks & Caicos Islands | 22 | 21.1 | 0.5 | 0.1 | 2.6 | 3.0 | 91.8 | 53.4 | 75.2 | 72.9 | 77.6 |
| Virgin Islands (UK) | 24 | 14.8 | 0.4 | 0.1 | 1.9 | 1.7 | 40.6 | 34.2 | 77.1 | 75.9 | 78.3 |
| Virgin Islands (US) | 111 | 13.4 | 1.5 | 0.8 | -0.1 | 2.1 | 94.8 | 54.0 | 79.5 | 75.6 | 83.4 |

BI 1 - 9: countries with less 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 UN.

mortality indicators

| | 10 | | 11 | | | 12 | | 13 | | 14 | | | 15 | | | 16 | 17 |
|--|---|------|--|------|------|---|--------|----------------------------------|------|------|-----|------|---|--|------|----|----|
| | maternal mortality ratio (100,000 lb) or number of deaths (N ^o) | | infant mortality rate (1,000 lb) or number of deaths (N ^o) | | | estimated under 5 mortality (1,000 lb) 2006 | | registered deaths under 5 due to | | ADD | | | ill-defined and unknown causes (%) (2005) | mortality under-registration (%) (2003-05) | | | |
| | ratio (N ^o) | year | rate (N ^o) | year | year | by UN | by WHO | (%) | (%) | year | (%) | (%) | | | | | |
| The Americas | 67.5 | | 16.1 | | | 22 | 21 | 3.5 | 6.2 | | | | | 4.9 | 8.6 | | |
| North America | 15.1 | | 6.8 | | | 8 | 8 | 0.1 | 1.6 | | | | | 1.3 | 1.0 | | |
| Bermuda | - | 2005 | n/a | 1 | 2005 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | |
| Canada | 5.9 | 2004 | 5.4 | 2005 | 6 | 6 | 0.1 | 1.1 | 2004 | 1.2 | a | 1.8 | d | 0.9 | | | |
| United States of America | 15.1 | 2005 | 6.9 | 2005 | 8 | 8 | 0.1 | 1.7 | 2005 | 1.3 | | | | | | | |
| Latin America & the Caribbean | 89.2 | | 20.2 | | | 28 | 26 | 4.9 | 8.1 | | | | | 7.1 | 15.0 | | |
| Latin America | 89.4 | | 20.2 | | | 28 | 26 | 4.9 | 8.1 | | | | | 7.1 | 15.0 | | |
| Mexico | 58.6 | 2006 | 15.7 | 2007 | 21 | 35 | 4.1 | 8.3 | 2006 | 1.9 | b | 1.6 | e | | | | |
| Central American Isthmus | 118.4 | | 22.3 | | | 35 | 32 | 10.7 | 20.1 | | | | | 8.6 | 16.2 | | |
| Belize | n/a | 6 | 2007 | 17.2 | 2007 | 21 | 16 | ... | ... | ... | ... | ... | ... | ... | | | |
| Costa Rica | n/a | 14 | 2007 | 10.1 | 2007 | 12 | 12 | 1.1 | 4.7 | 2007 | 1.4 | c | 5.3 | e | | | |
| El Salvador | 71.2 | 2005 | 21.5 | 2007 | 30 | 25 | 8.8 | 13.5 | 2006 | 14.2 | b | 21.6 | e | | | | |
| Guatemala | 148.8 | 2005 | ... | ... | 41 | 41 | 14.7 | 30.7 | 2004 | 10.4 | a | 7.6 | d | | | | |
| Honduras | ... | ... | 23.0 | 2006 | 43 | 27 | ... | ... | ... | ... | ... | ... | ... | ... | | | |
| Nicaragua | 90.4 | 2006 | 33.0 | 2006 | 27 | 36 | 8.0 | 10.0 | 2005 | 3.5 | | 38.8 | | | | | |
| Panama | 83.6 | 2006 | 14.8 | 2006 | 24 | 23 | 6.5 | 7.3 | 2004 | 7.9 | a | 16.2 | d | | | | |
| Latin Caribbean | 306.8 | | 34.5 | | | 43 | 47 | 5.7 | 5.3 | | | | | 12.1 | 42.8 | | |
| Cuba | 30.2 | 2007 | 5.3 | 2007 | 7 | 7 | 1.4 | 5.9 | 2006 | 0.8 | b | - | - | | | | |
| Dominican Republic | 72.8 | 2007 | 30.7 | 2007 | 34 | 29 | 4.7 | 4.7 | 2004 | 7.2 | a | 48.7 | d | | | | |
| French Guiana | ... | ... | 10.4 | 2003 | 15 | ... | 4.8 | 6.0 | 2005 | 11.8 | | - | - | | | | |
| Guadeloupe | n/a | 3 | 2004 | 7.1 | 2005 | 9 | ... | - | 1.9 | 2005 | 8.3 | | - | | | | |
| Haiti | 630.0 | 2006 | 57.0 | 2006 | 74 | 80 | 10.3 | 6.4 | 2004 | 35.2 | a | 93.5 | d | | | | |
| Martinique | - | 2004 | 6.1 | 2003 | 8 | ... | - | - | 2005 | 8.5 | | 7.4 | | | | | |
| Puerto Rico | n/a | 2 | 2006 | 8.7 | 2006 | 9 | ... | - | 1.8 | 2005 | 0.6 | | 1.8 | | | | |
| Andean Area | 89.5 | | 21.5 | | | 30 | 26 | 5.5 | 9.2 | | | | | 4.5 | 25.7 | | |
| Bolivia | 229.0 | 2003 | 54.0 | 2003 | 63 | 61 | 7.1 | 4.4 | 2003 | ... | | ... | ... | | | | |
| Colombia | 73.1 | 2005 | 15.9 | 2005 | 27 | 21 | 4.3 | 8.0 | 2005 | 1.7 | | 22.7 | | | | | |
| Ecuador | 73.0 | 2006 | 20.1 | 2006 | 27 | 24 | 6.0 | 15.5 | 2005 | 11.9 | | 15.4 | | | | | |
| Peru | ... | ... | 21.0 | 2003 | 31 | 25 | 3.3 | 13.9 | 2004 | 9.5 | a | 47.0 | d | | | | |
| Venezuela | 59.9 | 2005 | 16.5 | 2006 | 22 | 21 | 8.5 | 5.5 | 2005 | 0.6 | | 10.1 | | | | | |
| Brazil | 74.7 | 2005 | 21.2 | 2005 | 30 | 20 | 4.4 | 6.0 | 2005 | 10.4 | | 13.4 | | | | | |
| Southern Cone | 51.3 | | 12.4 | | | 18 | 16 | 1.5 | 4.4 | | | | | 6.9 | 2.5 | | |
| Argentina | 47.8 | 2006 | 12.9 | 2006 | 16 | 17 | 1.2 | 3.7 | 2005 | 7.4 | | 1.4 | e | | | | |
| Chile | 18.1 | 2006 | 7.6 | 2006 | 9 | 9 | 0.5 | 4.7 | 2005 | 2.8 | | - | - | | | | |
| Paraguay | 121.4 | 2006 | 18.0 | 2006 | 39 | 22 | 4.9 | 7.3 | 2006 | 14.1 | b | 32.5 | e | | | | |
| Uruguay | n/a | 14 | 2007 | 11.9 | 2007 | 16 | 15 | 1.7 | 4.9 | 2004 | 8.0 | a | - | f | | | |
| Non-Latin Caribbean | 92.1 | | ... | | | 24 | 34 | 3.6 | 4.8 | | | | | 3.4 | 11.4 | | |
| Anguilla | - | 2007 | ... | ... | ... | ... | - | - | 2006 | 5.5 | b | ... | ... | | | | |
| Antigua & Barbuda | - | 2007 | 21.8 | 2007 | ... | 11 | - | 2.4 | 2004 | 3.7 | a | ... | ... | | | | |
| Aruba | n/a | 1 | 2004 | n/a | 3 | 2004 | 20 | ... | - | 2004 | 5.9 | a | 40.1 | d | | | |
| Bahamas | n/a | 4 | 2007 | 17.6 | 2007 | 18 | 14 | ... | ... | ... | ... | ... | ... | | | | |
| Barbados | - | 2005 | 14.2 | 2005 | 12 | 12 | ... | ... | ... | ... | ... | ... | ... | | | | |
| Cayman Islands | - | 2007 | n/a | 6 | 2007 | ... | ... | - | - | 2003 | 2.2 | g | ... | | | | |
| Dominica | - | 2007 | n/a | 13 | 2007 | ... | 15 | - | - | 2004 | 5.4 | a | ... | | | | |
| Grenada | - | 2007 | 11.0 | 2007 | 43 | 20 | 4.3 | 8.7 | 2005 | 0.8 | | 7.1 | | | | | |
| Guyana | 161.2 | 2005 | 22.0 | 2005 | 59 | 62 | 9.9 | 6.1 | 2005 | 1.1 | | 21.4 | | | | | |
| Jamaica | 95.0 | 2003 | ... | ... | 18 | 32 | ... | ... | ... | ... | ... | ... | ... | | | | |
| Montserrat | - | 2007 | n/a | 1 | 2007 | ... | ... | - | - | 2003 | ... | ... | ... | | | | |
| Netherlands Antilles | ... | ... | ... | ... | 17 | ... | ... | ... | ... | ... | ... | ... | ... | | | | |
| Saint Kitts & Nevis | - | 2007 | n/a | 15 | 2007 | ... | 19 | - | - | 2005 | 1.1 | | ... | | | | |
| Saint Lucia | n/a | 1 | 2006 | 15.0 | 2005 | 17 | 14 | ... | ... | ... | ... | ... | ... | | | | |
| Saint Vincent & the Grenadines | n/a | 2 | 2007 | 26.2 | 2006 | 28 | 20 | 2.9 | - | 2004 | 1.4 | a | 4.4 | d | | | |
| Suriname | n/a | 8 | 2006 | 19.1 | 2006 | 36 | 39 | 2.4 | 8.7 | 2003 | 8.7 | g | 9.6 | | | | |
| Trinidad & Tobago | n/a | 9 | 2004 | 16.5 | 2004 | 18 | 38 | - | 3.0 | 2004 | ... | ... | 5.1 | d | | | |
| Turks & Caicos Islands | n/a | 1 | 2007 | n/a | 2 | 2007 | ... | ... | - | 2005 | 3.8 | | ... | | | | |
| Virgin Islands (UK) | - | 2006 | n/a | 6 | 2006 | ... | ... | - | - | 2003 | ... | ... | ... | | | | |
| Virgin Islands (US) | - | 2005 | n/a | 11 | 2005 | 10 | ... | - | - | 2005 | 1.7 | | 5.4 | | | | |

BI 16 - 17: (a) value 2004; (b) value 2006; (c) value 2007; (d) value 2002-2004; (e) value 2004-2006; (f) value 2001, 2003, 2004; (g) value 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 corrected | | male corrected | | female corrected | | | total corrected | | male corrected | | female corrected | |
| | adjusted | adjusted | adjusted | adjusted | adjusted | adjusted | | adjusted | adjusted | adjusted | adjusted | adjusted | adjusted |
| The Americas | 6.8 | 6.3 | 7.4 | 7.3 | 6.3 | 5.3 | | 56.4 | 55.5 | 61.0 | 63.9 | 51.9 | 47.9 |
| North America | 8.1 | 5.3 | 8.1 | 6.0 | 8.1 | 4.7 | | 42.6 | 28.2 | 42.2 | 31.6 | 43.0 | 25.0 |
| Bermuda | ... | ... | ... | ... | ... | ... | | ... | ... | ... | ... | ... | ... |
| Canada ^a | 7.1 | 4.4 | 7.3 | 5.0 | 7.0 | 3.8 | | 28.6 | 17.4 | 27.4 | 19.0 | 29.8 | 15.9 |
| 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 | 6.8 | 6.9 | 8.1 | 5.3 | 5.6 | | 64.8 | 74.4 | 72.6 | 86.4 | 57.4 | 63.5 |
| Latin America | 6.1 | 6.8 | 6.9 | 8.0 | 5.3 | 5.6 | | 64.7 | 74.3 | 72.5 | 86.3 | 57.3 | 63.5 |
| Mexico ^b | 5.3 | 6.2 | 6.1 | 7.3 | 4.6 | 5.2 | | 37.7 | 46.3 | 44.7 | 55.0 | 31.1 | 38.4 |
| Central American Isthmus | 5.3 | 6.8 | 6.0 | 7.8 | 4.6 | 5.8 | | 86.7 | 102.6 | 94.9 | 115.1 | 78.7 | 91.3 |
| Belize | ... | ... | ... | ... | ... | ... | | ... | ... | ... | ... | ... | ... |
| Costa Rica ^b | 4.1 | 4.7 | 4.5 | 5.4 | 3.6 | 4.0 | | 20.8 | 23.8 | 23.1 | 27.1 | 18.5 | 20.6 |
| El Salvador ^b | 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 ^a | 5.5 | 7.2 | 6.5 | 8.5 | 4.6 | 6.0 | | 142.8 | 160.2 | 157.7 | 178.4 | 128.4 | 143.3 |
| Honduras ^b | 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 ^a | 5.1 | 5.9 | 5.8 | 6.8 | 4.4 | 5.0 | | 56.4 | 63.2 | 67.9 | 77.3 | 44.5 | 48.9 |
| Latin Caribbean | 7.9 | 7.8 | 8.5 | 8.8 | 7.2 | 6.9 | | 139.9 | 146.5 | 158.7 | 169.2 | 122.8 | 126.9 |
| Cuba ^b | 7.8 | 5.6 | 8.3 | 6.3 | 7.3 | 5.0 | | 67.2 | 47.3 | 70.2 | 53.0 | 64.3 | 42.0 |
| Dominican Republic ^a | 6.5 | 7.8 | 7.4 | 8.9 | 5.6 | 6.8 | | 76.1 | 85.1 | 86.2 | 95.6 | 65.8 | 75.6 |
| 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 | 9.9 | 12.3 | 10.4 | 13.2 | 9.4 | 11.6 | | 337.9 | 384.2 | 390.4 | 455.4 | 292.5 | 325.3 |
| 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 | 6.3 | 7.9 | 4.9 | 5.8 | | 63.2 | 79.9 | 70.9 | 91.8 | 55.6 | 69.0 |
| Bolivia ^b | 7.8 | 9.5 | 8.3 | 10.5 | 7.2 | 8.5 | | ... | ... | ... | ... | ... | ... |
| Colombia | 5.4 | 6.7 | 6.1 | 7.9 | 4.7 | 5.6 | | 40.1 | 52.2 | 45.1 | 60.3 | 35.2 | 45.2 |
| Ecuador | 4.3 | 5.0 | 4.8 | 5.8 | 3.7 | 4.1 | | 52.5 | 59.9 | 61.0 | 71.0 | 43.9 | 49.2 |
| Peru ^a | 6.2 | 7.6 | 6.9 | 8.6 | 5.6 | 6.6 | | 126.7 | 156.3 | 140.8 | 177.7 | 112.6 | 136.2 |
| 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 | 6.4 | 7.1 | 7.5 | 8.6 | 5.4 | 5.8 | | 62.3 | 72.0 | 70.1 | 84.3 | 54.7 | 60.7 |
| Southern Cone | 6.9 | 5.9 | 7.5 | 7.2 | 6.4 | 4.8 | | 67.5 | 57.9 | 69.3 | 67.6 | 65.7 | 49.6 |
| Argentina ^b | 7.6 | 6.0 | 8.2 | 7.5 | 7.0 | 4.9 | | 83.7 | 65.2 | 84.9 | 76.6 | 82.6 | 55.8 |
| Chile | 5.3 | 4.9 | 5.8 | 6.0 | 4.8 | 4.0 | | 33.2 | 30.8 | 35.0 | 36.4 | 31.5 | 25.9 |
| Paraguay ^b | 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 ^c | 9.3 | 6.0 | 9.8 | 7.4 | 8.9 | 4.8 | | 58.1 | 40.3 | 60.2 | 48.1 | 56.1 | 33.8 |
| Non-Latin Caribbean | 7.0 | 7.6 | 8.0 | 9.2 | 6.0 | 6.2 | | 78.5 | 81.4 | 94.4 | 101.5 | 62.8 | 62.8 |
| Anguilla ^b | 4.0 | 3.9 | 4.6 | 4.4 | 3.5 | 3.3 | | 2.6 | 2.4 | - | - | 5.3 | 4.7 |
| Antigua & Barbuda ^a | 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 ^a | 4.2 | 3.8 | 4.6 | 4.5 | 3.8 | 3.2 | | 34.6 | 31.4 | 38.1 | 37.4 | 31.5 | 26.4 |
| Bahamas | ... | ... | ... | ... | ... | ... | | ... | ... | ... | ... | ... | ... |
| Barbados | ... | ... | ... | ... | ... | ... | | ... | ... | ... | ... | ... | ... |
| Cayman Islands ^a | 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 ^a | 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 | 8.0 | 8.9 | 8.7 | 11.4 | 7.3 | 6.9 | | 83.3 | 89.7 | 79.2 | 100.4 | 87.3 | 80.0 |
| 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 ^a | 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 ^a | 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 2002-2004; (b) value 2004-2006; (c) URY refers to 2004-2006 for general mortality and to 2001, 2003, 2004 for cause-specific mortality.

BI 19: ICD-10 codes A00-B99, 600-603, J00-J22; ICD-9 codes 001-139, 320-322, 460-466, 480-487.

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) | | suicide | | land transport accidents | | male homicide | | | | | | | | | | | |
| corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | corrected | adjusted | suicide | land transport accidents | male homicide | rate ratio homicide mortality male:female (2003-05) | | | | |
| 133.7 | 116.3 | 140.4 | 132.9 | 127.4 | 103.8 | 66.8 | 64.3 | 103.9 | 100.0 | 30.0 | 29.1 | 7.7 | 16.9 | 29.8 | 8.4 | | | | | | | | | | | | | | | | |
| 192.2 | 123.9 | 202.6 | 144.1 | 182.2 | 108.5 | 56.3 | 48.3 | 78.2 | 69.1 | 35.2 | 28.0 | 10.9 | 15.0 | 8.7 | 3.7 | | | | | | | | | | | | | | | | |
| 211.6 | 130.0 | 225.2 | 150.3 | 198.4 | 114.2 | 44.1 | 35.0 | 58.1 | 48.5 | 30.5 | 21.5 | 11.6 | 9.3 | 2.1 | 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 | | | | | | | | | | | | | | | | |
| 97.6 | 106.1 | 102.1 | 119.2 | 93.4 | 95.9 | 73.3 | 73.9 | 119.8 | 119.6 | 26.8 | 29.0 | 5.8 | 18.1 | 43.0 | 10.0 | | | | | | | | | | | | | | | | |
| 97.6 | 106.1 | 102.2 | 119.2 | 93.5 | 96.0 | 73.3 | 74.0 | 119.8 | 119.7 | 26.8 | 29.1 | 5.7 | 18.1 | 43.1 | 10.1 | | | | | | | | | | | | | | | | |
| 70.3 | 78.2 | 70.8 | 83.3 | 69.7 | 73.2 | 57.6 | 60.7 | 94.2 | 99.0 | 23.3 | 26.1 | 4.6 | 17.9 | 19.5 | 7.3 | | | | | | | | | | | | | | | | |
| 70.2 | 96.0 | 65.3 | 95.2 | 76.4 | 98.9 | 78.5 | 83.3 | 126.8 | 133.9 | 28.2 | 32.3 | 6.7 | 14.4 | 49.0 | 8.2 | | | | | | | | | | | | | | | | |
| 88.4 | 102.7 | 93.0 | 116.1 | 83.8 | 90.6 | 50.8 | 49.2 | 77.1 | 75.4 | 22.6 | 22.5 | 8.2 | 15.8 | 12.2 | 5.5 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 56.1 | 89.5 | 51.7 | 84.8 | 60.3 | 93.9 | 77.5 | 93.3 | 130.6 | 161.2 | 26.7 | 31.3 | 2.1 | 3.1 | 48.8 | 10.0 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 89.3 | 102.6 | 94.8 | 111.1 | 83.9 | 94.1 | 56.5 | 57.5 | 90.6 | 94.4 | 20.6 | 20.8 | 7.1 | 17.1 | 24.0 | 8.8 | | | | | | | | | | | | | | | | |
| 117.2 | 110.1 | 130.2 | 128.5 | 104.2 | 94.6 | 69.5 | 62.5 | 103.2 | 90.1 | 35.6 | 34.3 | 8.7 | 16.7 | 15.3 | 6.1 | | | | | | | | | | | | | | | | |
| 184.1 | 130.8 | 207.6 | 151.9 | 159.9 | 112.9 | 64.5 | 54.0 | 81.3 | 71.1 | 47.0 | 35.5 | 13.6 | 11.6 | 9.1 | 3.1 | | | | | | | | | | | | | | | | |
| 88.5 | 110.7 | 94.8 | 125.5 | 82.5 | 97.1 | 90.0 | 79.6 | 143.5 | 117.6 | 32.6 | 37.1 | 3.5 | 30.4 | 15.4 | 7.2 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 56.7 | 81.6 | 57.9 | 87.6 | 55.4 | 76.7 | 63.0 | 61.5 | 94.3 | 90.3 | 33.9 | 35.2 | ... | 11.0 | ... | ... | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 87.8 | 107.6 | 83.8 | 111.2 | 92.8 | 105.9 | 89.5 | 87.7 | 145.0 | 139.9 | 30.5 | 34.7 | 4.8 | 16.7 | 64.0 | 10.3 | | | | | | | | | | | | | | | | |
| 88.1 | 110.6 | 83.5 | 116.9 | 94.4 | 108.8 | 109.3 | 100.9 | 181.7 | 165.3 | 31.9 | 34.9 | 6.3 | 18.2 | 112.3 | 9.9 | | | | | | | | | | | | | | | | |
| 66.3 | 79.7 | 64.1 | 81.3 | 68.5 | 78.7 | 61.3 | 63.5 | 98.4 | 102.9 | 23.9 | 24.7 | 6.2 | 16.0 | 30.5 | 10.4 | | | | | | | | | | | | | | | | |
| 109.5 | 126.2 | 105.5 | 126.2 | 112.5 | 124.1 | 57.7 | 69.7 | 85.8 | 101.0 | 31.2 | 41.0 | 1.7 | 8.6 | 5.1 | 5.3 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 102.5 | 111.2 | 111.6 | 128.4 | 93.8 | 97.9 | 80.8 | 83.4 | 136.1 | 138.4 | 25.9 | 28.5 | 5.2 | 22.1 | 57.4 | 11.6 | | | | | | | | | | | | | | | | |
| 147.9 | 124.7 | 160.7 | 152.4 | 135.5 | 104.3 | 49.3 | 45.5 | 76.0 | 71.7 | 23.4 | 20.7 | 8.9 | 11.9 | 11.5 | 7.2 | | | | | | | | | | | | | | | | |
| 156.8 | 125.8 | 172.6 | 155.9 | 141.7 | 103.7 | 47.8 | 44.4 | 72.0 | 69.0 | 24.6 | 21.4 | 8.0 | 10.2 | 9.3 | 6.0 | | | | | | | | | | | | | | | | |
| 128.2 | 117.1 | 133.0 | 136.2 | 123.4 | 103.3 | 46.4 | 43.7 | 75.3 | 72.4 | 18.0 | 16.4 | 10.5 | 14.1 | 9.9 | 9.0 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 240.4 | 158.4 | 285.1 | 212.0 | 199.0 | 119.2 | 56.0 | 48.6 | 83.4 | 75.7 | 30.4 | 24.0 | 15.7 | 10.6 | 7.4 | 3.3 | | | | | | | | | | | | | | | | |
| 90.1 | 98.9 | 98.4 | 118.2 | 82.0 | 83.9 | 68.6 | 67.2 | 110.8 | 109.0 | 27.1 | 27.0 | 13.9 | 14.9 | 26.6 | 6.6 | | | | | | | | | | | | | | | | |
| 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 | 3.0 | | | | | | | | | | | | | | | | |
| 126.7 | 114.1 | 132.2 | 132.1 | 121.7 | 100.6 | 16.3 | 14.7 | 23.3 | 22.1 | 9.8 | 8.1 | - | 13.2 | - | ... | | | | | | | | | | | | | | | | |
| 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 | ... | | | | | | | | | | | | | | | | |
| 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 | 5.9 | | | | | | | | | | | | | | | | |
| 136.2 | 154.2 | 159.3 | 213.6 | 113.9 | 113.9 | 50.4 | 56.0 | 82.5 | 99.7 | 19.5 | 19.6 | 3.5 | 5.7 | 0.7 | ... | | | | | | | | | | | | | | | | |
| 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 | ... | | | | | | | | | | | | | | | | |
| 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 | ... | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |

BI 23: ICD-10 codes V01 - V89.

BI 24: ICD-10 codes X85 - Y09.

mortality indicators

| 26Tc | | 26Ta | | 26Mc | | 26Ma | | 26Fc | | 26Fa | | mortality rates from diabetes mellitus (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 |
| 32.0 | 27.0 | 29.8 | 27.7 | 34.2 | 26.3 | 96.2 | 81.0 | 104.7 | 98.3 | 88.0 | 66.1 | 50.7 | 42.3 | 46.5 | 42.9 | 54.9 | 41.7 |
| 25.3 | 16.0 | 24.9 | 17.8 | 25.7 | 14.5 | 154.1 | 93.9 | 162.6 | 113.9 | 145.8 | 76.9 | 51.1 | 30.7 | 40.9 | 28.3 | 61.1 | 32.4 |
| 25.3 | 14.8 | 25.8 | 17.0 | 24.8 | 12.8 | 128.8 | 74.3 | 142.8 | 93.5 | 115.1 | 57.7 | 48.5 | 27.4 | 40.3 | 25.9 | 56.5 | 28.4 |
| 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 |
| 36.1 | 38.8 | 32.8 | 38.1 | 39.4 | 39.4 | 60.5 | 65.5 | 69.0 | 80.8 | 52.2 | 52.2 | 50.4 | 54.3 | 50.0 | 58.0 | 51.1 | 51.2 |
| 35.9 | 38.6 | 32.6 | 37.8 | 39.2 | 39.2 | 60.2 | 65.2 | 68.8 | 80.5 | 52.0 | 52.0 | 50.3 | 54.1 | 49.8 | 57.8 | 50.9 | 51.0 |
| 74.0 | 83.1 | 70.4 | 83.3 | 77.1 | 81.9 | 58.9 | 66.2 | 67.8 | 80.4 | 50.4 | 53.9 | 30.6 | 34.5 | 30.0 | 35.8 | 31.1 | 33.2 |
| 25.2 | 35.5 | 20.8 | 30.8 | 30.2 | 40.2 | 41.8 | 59.1 | 44.7 | 67.0 | 39.4 | 52.0 | 28.3 | 39.6 | 27.5 | 40.8 | 29.3 | 38.8 |
| 18.3 | 21.8 | 15.7 | 19.9 | 21.1 | 23.6 | 57.8 | 69.8 | 65.9 | 84.4 | 49.4 | 56.2 | 24.2 | 29.2 | 22.8 | 29.3 | 25.8 | 29.1 |
| 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 |
| 21.1 | 35.5 | 18.6 | 31.8 | 23.5 | 38.9 | 17.8 | 29.6 | 20.1 | 34.2 | 15.6 | 25.4 | 20.1 | 32.8 | 20.5 | 34.4 | 19.8 | 31.3 |
| 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 |
| 33.5 | 39.1 | 27.4 | 32.4 | 40.1 | 46.1 | 56.1 | 65.6 | 63.8 | 75.5 | 48.3 | 55.7 | 57.1 | 66.6 | 58.9 | 69.5 | 55.6 | 63.9 |
| 31.1 | 28.7 | 26.5 | 25.7 | 35.7 | 31.4 | 88.9 | 82.1 | 94.9 | 93.7 | 82.9 | 71.6 | 75.3 | 69.1 | 72.6 | 70.0 | 77.9 | 68.3 |
| 19.1 | 13.2 | 13.0 | 9.6 | 25.6 | 16.7 | 150.4 | 99.9 | 157.5 | 111.8 | 143.4 | 88.5 | 80.9 | 53.8 | 76.4 | 54.0 | 85.8 | 53.8 |
| 29.3 | 36.8 | 26.4 | 33.4 | 32.7 | 40.4 | 81.8 | 105.4 | 89.5 | 117.5 | 74.2 | 93.3 | 65.8 | 85.8 | 68.6 | 92.0 | 63.5 | 79.9 |
| 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 | 77.3 | 56.4 | 78.3 | 64.5 | 76.5 | 50.0 |
| 31.9 | 46.3 | 25.6 | 37.9 | 37.0 | 53.1 | 18.2 | 27.5 | 16.6 | 25.8 | 19.5 | 28.8 | 93.9 | 143.5 | 85.1 | 131.3 | 100.8 | 153.5 |
| 31.0 | 18.4 | 23.8 | 15.8 | 37.5 | 20.3 | 26.4 | 16.2 | 27.2 | 19.0 | 25.7 | 13.9 | 81.0 | 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 | 40.2 | 25.1 | 41.0 | 28.5 | 39.5 | 22.5 |
| 22.2 | 28.4 | 19.7 | 27.1 | 25.2 | 29.7 | 57.1 | 73.1 | 63.1 | 87.3 | 51.4 | 60.3 | 35.0 | 44.2 | 32.7 | 44.6 | 37.9 | 44.1 |
| 21.7 | 28.0 | 17.9 | 25.7 | 26.1 | 30.3 | 72.5 | 93.9 | 78.2 | 113.2 | 67.4 | 77.7 | 40.3 | 51.9 | 35.6 | 51.3 | 46.1 | 53.1 |
| 23.7 | 29.1 | 20.7 | 26.7 | 26.7 | 31.3 | 21.3 | 25.9 | 25.8 | 32.9 | 16.8 | 19.4 | 26.8 | 32.3 | 27.1 | 34.4 | 26.4 | 30.3 |
| 13.9 | 16.0 | 13.6 | 16.6 | 14.1 | 15.4 | 30.5 | 34.1 | 34.3 | 40.7 | 26.7 | 28.3 | 28.1 | 31.6 | 28.8 | 33.9 | 27.3 | 29.3 |
| 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 |
| 28.7 | 30.9 | 24.9 | 28.6 | 32.6 | 33.0 | 62.6 | 67.4 | 72.9 | 83.7 | 52.5 | 53.0 | 66.3 | 70.9 | 67.7 | 77.7 | 65.0 | 65.5 |
| 25.7 | 20.9 | 25.2 | 23.6 | 26.2 | 18.7 | 54.8 | 44.6 | 65.9 | 62.1 | 44.0 | 30.5 | 60.1 | 48.6 | 58.6 | 55.0 | 61.5 | 43.4 |
| 24.8 | 19.0 | 25.7 | 22.9 | 23.8 | 15.9 | 53.4 | 40.9 | 65.4 | 58.7 | 41.9 | 26.8 | 58.4 | 44.6 | 58.3 | 51.9 | 58.6 | 38.7 |
| 21.5 | 19.4 | 20.7 | 21.3 | 22.3 | 18.0 | 51.2 | 46.3 | 60.6 | 62.1 | 42.1 | 33.5 | 50.0 | 45.1 | 48.8 | 50.2 | 51.2 | 41.1 |
| 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 |
| 22.9 | 13.7 | 22.0 | 15.5 | 23.8 | 12.3 | 94.7 | 57.1 | 109.6 | 79.0 | 80.8 | 40.4 | 120.6 | 71.0 | 107.6 | 75.8 | 132.6 | 66.8 |
| 73.8 | 82.2 | 70.2 | 84.8 | 77.5 | 80.0 | 97.7 | 108.7 | 113.0 | 136.0 | 82.7 | 85.0 | 77.2 | 86.0 | 77.1 | 93.8 | 77.3 | 79.4 |
| 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 |
| - | - | - | - | - | - | 62.8 | 56.5 | 80.7 | 79.1 | 46.2 | 38.5 | 35.7 | 32.3 | 33.6 | 33.7 | 37.8 | 31.2 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 22.2 | 21.4 | 16.5 | 16.0 | 28.1 | 26.6 | 51.9 | 48.0 | 62.0 | 58.1 | 41.9 | 38.1 | 21.4 | 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 |
| 79.4 | 89.1 | 67.0 | 91.3 | 91.3 | 86.6 | 53.6 | 61.1 | 66.2 | 91.5 | 41.4 | 38.8 | 73.8 | 81.9 | 66.7 | 90.9 | 80.7 | 75.2 |
| 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 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 30.0 | 26.2 | 25.2 | 25.8 | 34.7 | 25.5 | 84.3 | 73.6 | 92.4 | 93.6 | 76.4 | 56.6 | 100.4 | 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 | 54.4 | 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 | 107.1 | 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 | 76.6 | 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 | - | - | - | - | - | - |
| 34.1 | 24.3 | 36.5 | 28.3 | 32.0 | 21.3 | 121.1 | 84.8 | 137.0 | 104.0 | 106.7 | 69.1 | 40.3 | 29.6 | 41.0 | 32.7 | 39.7 | 26.9 |

morbidity indicators

| | 29 tuberculosis incidence rate ¹ (100,000 pop) 2006 | | 31 malaria risk areas pop (%) 2007 | 32 malaria API (1,000 pop) 2007 | 33 malaria reported cases 2007 | 34 dengue reported cases 2007 | 35 aids incidence rate (100,000 pop) 2006 | 36 male:female ratio of aids cases 2006 | 37 proportion of low birthweight (<2,500 g) (%) 2004-07, lay |
|--|--|------|------------------------------------|---------------------------------|--------------------------------|-------------------------------|---|---|--|
| | total | SS+ | | | | | | | |
| The Americas | 25.0 | 14.0 | 6.3 | 7.1 | 779,055 | 902,662 | 11.5 | 2.8 | 8.0 |
| North America | 4.5 | 1.6 | - | - | 1,732 | 488 | 12.2 | 2.8 | 8.0 |
| Bermuda | 4.5 | 3.0 | - | - | ... | - | 12.1 | 3.0 | 6.0 |
| Canada | 4.4 | 1.2 | - | - | 168 b, c | - b | 0.8 | 3.1 | 6.0 |
| United States of America | 4.5 | 1.7 | - | - | 1,564 b, c | 488 | 13.4 a | 2.8 a | 8.2 |
| Latin America & the Caribbean | 37.1 | 21.2 | 10.1 | 11.2 | 777,323 | 902,174 | 10.9 | 2.7 | 8.0 |
| Latin America | 37.4 | 21.4 | 10.2 | 11.3 | 761,586 | 898,628 | 10.8 | 2.8 | 8.0 |
| Mexico | 17.0 | 11.3 | 1.8 b | 1.4 b | 2,514 b | 48,436 | 5.1 | 3.7 | 8.3 |
| Central American Isthmus | 31.5 | 19.7 | 9.2 | 16.6 | 31,697 | 83,167 | 7.4 | 2.9 | 8.7 |
| Belize | 30.1 | 21.3 | 46.8 | 6.0 | 845 | 40 | 15.2 | 1.0 | 6.9 |
| Costa Rica | 11.1 | 6.5 | 3.3 | 7.8 | 1,223 | 26,440 | 4.1 | 7.0 | 6.8 |
| El Salvador | 24.3 | 13.5 | 27.4 b | - b | 49 b | 12,476 | 6.1 | 2.5 | 8.0 |
| Guatemala | 27.8 | 19.2 | 3.0 | 36.8 | 15,382 | 5,886 | 7.4 | 2.1 | ... |
| Honduras | 45.9 | 29.0 | 8.7 b | 12.9 b | 11,561 b | 33,508 | 8.3 | 1.2 | 10.0 |
| Nicaragua | 36.1 | 23.2 | 10.7 a | 8.1 a | 1,356 | 1,415 | 1.1 | 4.6 | 8.3 |
| Panama | 49.8 | 26.1 | - | 3.8 | 1,281 | 3,402 | 22.7 | 2.9 | 9.3 |
| Latin Caribbean | 55.9 | 31.3 | 24.2 | 2.8 | 31,105 | 29,677 | 6.2 | ... | 7.9 |
| Cuba | 6.8 | 3.8 | - | - | 35 c | 28 | 3.2 | 5.1 | 5.2 |
| Dominican Republic | 47.4 | 27.6 | 9.0 b | 4.7 b | 3,525 b | 9,628 | 3.5 | 1.4 | ... |
| French Guiana | 35.9 a, g | ... | 10.9 b | 120.2 b | 4,074 b | 661 | ... | ... | ... |
| Guadeloupe | 7.8 a, g | ... | - | - | 6 b, c | 3,266 | ... | ... | 9.8 |
| Haiti | 147.8 | 79.0 | 80.1 | 3.1 | 23,452 | ... | ... | ... | ... |
| Martinique | 6.1 a, g | ... | - | - | 10 b, c | 5,082 | 5.8 | 2.3 | 11.5 |
| Puerto Rico | 2.8 | 1.7 | - | - | 3 c | 11,012 | 21.4 | 2.2 | 13.0 |
| Andean Area | 53.4 | 32.0 | 16.0 | 14.7 | 236,731 | 149,013 | 11.7 | 3.4 | 7.8 |
| Bolivia | 96.4 | 61.9 | 7.5 | 19.6 | 14,458 | 7,332 | 2.0 | 2.5 | ... |
| Colombia | 24.4 | 16.8 | 11.4 | 19.3 | 107,189 | 43,541 | 1.6 | 2.8 | 8.1 |
| Ecuador | 34.8 | 24.1 | 22.1 b | 2.2 b | 8,464 | 10,587 | 3.6 | 3.1 | 5.4 |
| Peru | 124.4 | 69.8 | 32.5 b | 7.2 b | 64,871 b | 6,907 | 3.5 | 3.0 | 8.4 |
| Venezuela | 24.7 | 13.0 | 7.3 | 19.0 | 41,749 | 80,646 | 43.8 | 5.2 | 8.0 |
| Brazil | 41.0 | 21.7 | 11.4 | 18.6 | 458,487 | 559,954 | 17.2 | 1.5 | 8.1 |
| Southern Cone | 22.7 | 12.5 | 2.2 | 0.3 | 1,052 | 28,381 | 3.6 | 3.5 | 6.8 |
| Argentina | 24.0 | 12.4 | - b | 0.5 b | 209 b | 173 | 3.6 | 2.4 | 7.2 |
| Chile | 15.1 | 9.3 | - | - | 5 c | 27 | 2.5 | 6.4 | 5.9 |
| Paraguay | 38.4 | 24.0 | 23.6 b | 0.3 b | 823 b | 28,181 | 5.6 | 3.1 | 6.0 |
| Uruguay | 16.7 | 9.2 | - | - | 15 b, c | - | 4.9 | 2.3 | 8.3 |
| Non-Latin Caribbean | 19.2 | 9.6 | 2.3 | 11.4 | 15,737 | 3,546 | 33.1 | 1.3 | 12.2 |
| Anguilla | - | - | - | - | - b | - | - | - | 16.0 |
| Antigua & Barbuda | 5.8 | 5.8 | - | - | - | 1 | 10.1 | ... | 5.3 |
| Aruba | ... | ... | - | - | ... | - | - | 0.0 | ... |
| Bahamas | ... | ... | - | - | 49 b, c | - | 77.7 | 1.4 | 10.5 |
| Barbados | 1.7 | 1.4 | - | - | 3 a, c | 1,426 | 34.5 | 1.6 | 13.6 |
| Cayman Islands | - | - | - | - | 1 b, c | - b | 17.8 | 3.0 | 7.9 |
| Dominica | 27.5 | 11.6 | - | - | - | 111 | 5.8 | ... | 10.1 |
| Grenada | 0.9 | 0.9 | - | - | - | - | 10.4 | 1.2 | 9.0 |
| Guyana | 96.1 | 39.8 | 15.2 | 101.6 | 11,657 | 352 | 25.8 | 1.5 | 12.6 |
| Jamaica | 3.5 | 2.3 | - | - | 382 b, c | 1,448 | 43.9 | 1.3 | 13.7 |
| Montserrat | - | - | - | - | - b | - | - | 0.0 | 11.9 |
| Netherlands Antilles | 2.6 | 2.6 | - | - | ... | - b | ... | ... | ... |
| Saint Kitts & Nevis | 2.6 | 2.6 | - | - | ... | - | 23.1 | 0.8 | 10.8 |
| Saint Lucia | 9.2 | 8.0 | - | - | - | 39 | 16.1 a | 1.5 a | 11.4 |
| Saint Vincent & the Grenadines | 10.8 | 6.7 | - | - | - | 2 | 34.2 | 1.7 | 7.9 |
| Suriname | 27.9 | 13.8 | 10.5 b | ... | 3,631 b | 41 | 45.3 | 1.1 | 10.9 |
| Trinidad & Tobago | 17.5 | 11.2 | - | - | 14 c | 47 | 10.3 | 1.4 | 10.5 |
| Turks & Caicos Islands | 33.3 | 33.3 | - | - | ... | - | 42.9 | 0.5 | ... |
| Virgin Islands (UK) | - a | - a | - | - | - b | 6 | 4.3 a | ... | 11.0 |
| Virgin Islands (US) | ... | ... | - | - | - | 73 | 28.8 | 1.0 | 11.2 |

Cholera, 2007

| country | cases |
|--------------|-------------------------|
| CAN | 1 (imported) |
| USA | 7 (includes 4 imported) |
| total | 8 |

*

Measles[&], 2007

| country | cases |
|--------------|------------|
| CAN | 101 |
| USA | 43 |
| VEN | 32 |
| total | 176 |

& cases related to importation *

Yellow Fever, 2007

| country | cases | deaths |
|--------------|-----------|-----------|
| BOL | 6 | 6 |
| BRA | 13 | 10 |
| COL | 6 | 6 |
| PRY | 1 | 0 |
| PER | 23 | 18 |
| total | 49 | 40 |

*

* Source:

Prevention and Control of Communicable Diseases; PAHO, 2008 and Comprehensive Family Immunization Project; PAHO, 2008

resources, access & coverage indicators

| | 38 human resources per 10,000 pop | | | 40 hospital beds per 1,000 pop | 41 national health expenditure as a % of GDP | | 43 health care by trained personnel (%) | | | 44 immunization coverage (%) | | | | 49 contraceptive use (women, all methods) (%) 2004-06, lay | |
|--|-----------------------------------|-----------------|-------------------|--------------------------------|--|---------------------|---|-------------------|----------|------------------------------|---------------------|---------------------|---------------------|---|---------------------|
| | physicians c2005 | nurses c2005 | dentists c2005 | | 2004-07, lay | public 2004 | private 2004 | prenatal | at birth | year | under 1 year of age | | 1 year of age | | |
| | | | | | | | | | | | DPT3 2007 | Polio3 2007 | BCG 2007 | | measles/MMR 2007 |
| The Americas | ... | ... | ... | 2.4 | ... | ... | 93.9 | 91.4 | | 93 | 94 | 96 | 93 | ... | |
| North America | 22.2 | 78.4 | 5.4 | 3.2 | ... | ... | 96.5 | 99.4 | | 95 | 93 | n/a | 92 | ... | |
| Bermuda | ... | ... | ... | 5.0 | 3.7 ⁿ | 5.3 ^s | 100.0 | 100.0 | 2007 | 94 | 94 | n/a | 89 | ... | |
| Canada | 19.1 | 77.2 | 5.8 | 3.4 | 7.4 ^b | 1.4 ^{b, p} | ... | 100.0 | 2007 | 94 ^h | 90 ^h | n/a | 94 ^h | ... | |
| United States of America | 22.5 | 78.5 | 5.4 | 3.1 | 8.1 ^b | 4.6 ^{b, p} | 96.5 | 99.4 | 2005 | 95 ^{f, h} | 93 ^h | n/a | 92 ^h | ... | |
| Latin America & the Caribbean | ... | ... | ... | 1.8 | ... | ... | 92.4 | 87.8 | | 93 | 94 | 96 | 94 | 68 | |
| Latin America | ... | ... | ... | 1.8 | ... | ... | 92.7 | 88.0 | | 93 | 94 | 96 | 94 | 68 | |
| Mexico | 14.0 | 19.0 | 0.7 | 1.6 | 2.4 | 2.7 ^{b, q} | 94.2 | 93.7 | 2006 | 98 | 98 | 99 | 96 | 71 | |
| Central American Isthmus | 12.3 | 6.0 | 3.0 | 1.0 | ... | ... | 76.7 | 54.5 | | 93 | 93 | 97 | 94 | 64 | |
| Belize | 9.3 | 15.7 | 0.9 | 1.2 ^a | 1.9 | 1.5 ^p | 99.2 | 94.6 | 2007 | 96 | 97 | 99 | 96 | 56 | |
| Costa Rica | 20.0 | 15.3 | 6.5 | 1.3 | 4.8 ^c | 3.2 ^{c, q} | 91.7 | 94.3 | 2006 | 89 | 89 | 91 | 90 | 96 | |
| El Salvador | 12.6 | 8.1 | 5.5 | 0.7 ^a | 3.7 ^{c, n} | 3.9 ^{c, q} | 51.9 ^a | 43.7 ^a | 2007 | 100 ^{*, l} | 100 ^{*, l} | 100 ^{*, l} | 100 ^{*, l} | 67 | |
| Guatemala | 9.7 | 3.6 | 1.6 | 0.6 | 2.2 ^b | 4.8 ^{b, q} | 70.4 | 31.4 | 2007 | 93 | 93 | 97 | 93 | ... | |
| Honduras | 8.5 | 3.3 | 1.3 | ... | 3.9 ^b | 2.9 ^{b, q} | 91.7 | 66.9 | 2005 | 86 | 86 | 91 | 89 | 43 | |
| Nicaragua | 16.4 | 1.4 | 2.9 | 1.0 ^a | 3.5 ^b | 4.1 ^{b, r} | 90.2 | 80.2 | 2006 | 100 [*] | 100 [*] | 100 [*] | 100 [*] | 72 | |
| Panama | 13.8 | 11.5 | 2.9 | 2.2 | 4.3 ^b | 2.0 ^{b, q} | 83.9 ^e | 91.0 | 2006 | 88 | 87 | 100 | 89 | 48 | |
| Latin Caribbean | ... | ... | ... | 2.6 | ... | ... | 93.0 | 69.7 | | 80 | 80 | 84 | 79 | 51 | |
| Cuba | 62.7 | 79.5 | 9.4 | 4.9 | 6.3 ^{c, o} | ... | 100.0 | 99.9 | 2007 | 93 | 99 | 100 | 100 | 77 | |
| Dominican Republic | 20.0 | 3.9 | 9.0 | 1.0 ^a | 1.2 ^d | 3.2 ^{d, q} | 98.9 | 97.8 | 2007 | 87 | 86 | 92 | 96 | 51 | |
| French Guiana | ... | ... | ... | 3.0 | ... | ... | 49.0 | 49.0 | 2004 | ... | ... | ... | ... | ... | |
| Guadeloupe | ... | ... | ... | 6.1 | ... | ... | 98.0 | 99.2 | 2005 | ... | ... | ... | ... | ... | |
| Haiti | ... | ... | ... | 1.3 | 2.7 ^o | 2.1 ^q | 84.5 | 26.1 | 2005 | 68 | 66 | 70 | 54 ^k | 23 | |
| Martinique | ... | ... | ... | 4.2 | ... | ... | 99.6 | 99.9 | 2004 | ... | ... | ... | ... | 50 | |
| Puerto Rico | 22.0 | 65.9 | 3.9 | 3.0 | 3.5 | ... | 97.8 | 99.8 | 2006 | ... | ... | ... | ... | ... | |
| Andean Area | 12.7 | 6.4 | 4.7 | 1.1 | ... | ... | ... | 85.3 | | 84 | 85 | 92 | 85 | 52 | |
| Bolivia | ... | ... | ... | 1.1 | 4.2 ^b | 1.6 ^{b, q} | ... | 62.5 | 2007 | 82 | 82 | 86 | 83 | 21 | |
| Colombia | 12.7 | 6.1 | 7.8 | 1.0 | 3.4 ^o | 2.4 ^q | 93.5 | 96.9 | 2005 | 93 | 93 | 93 | 95 | 56 | |
| Ecuador | 15.4 | 5.2 | 1.7 | 1.7 | 2.2 | 6.1 ^q | ... | 80.0 | 2005 | 100 [*] | 100 | 100 [*] | 100 [*] | 66 | |
| Peru | 11.5 | 7.6 | 1.1 | 1.2 ^a | 2.3 ^d | 2.1 ^{d, r} | 91.0 | 71.0 | 2006 | 87 | 87 | 100 | 95 | 71 | |
| Venezuela | ... | ... | ... | 0.9 ^a | 4.4 ^c | 2.0 ^{c, q} | ... | 95.0 | 2005 | 61 | 67 | 82 | 56 | 30 | |
| Brazil | 16.4 | 5.5 | 11.6 | 2.4 | 3.6 ^{b, n} | 3.8 ^{b, q} | 97.4 | 97.1 | 2005 | 98 | 100 | 100 [*] | 100 [*] | 81 | |
| Southern Cone | 24.2 | 4.2 | 6.8 | 2.1 | ... | ... | 89.9 | 98.0 | | 94 | 92 | 97 | 95 | 68 | |
| Argentina | 32.1 | 3.8 | 9.3 | ... | 4.6 ^{b, m} | 3.2 ^{b, q} | 88.4 ^c | 99.4 | 2006 | 96 | 94 | 100 [*] | 99 | 68 | |
| Chile | 9.3 | 4.3 | 1.8 | 2.3 | 3.9 ^{b, m} | 2.1 ^{b, q} | 96.0 | 99.7 | 2006 | 96 | 95 | 98 | 92 | 64 | |
| Paraguay | 6.0 | 2.8 | 0.9 | 1.3 | 2.1 | 2.9 ^q | 85.3 ^e | 88.2 | 2006 | 78 | 78 | 78 | 80 | 73 | |
| Uruguay | 38.7 | 10.2 | 12.4 | 2.9 ^a | 7.0 ^{c, m, n} | 3.1 ^{c, q} | 94.9 | 98.7 | 2006 | 95 | 95 | 99 | 97 | 78 | |
| Non-Latin Caribbean | ... | ... | ... | 2.7 | ... | ... | 95.5 | 96.1 | | 88 | 89 | 90 | 84 | ... | |
| Anguilla | ... | ... | ... | 2.2 | 4.3 | 2.6 ^p | 100.0 | 100.0 | 2007 | 100 | 95 | 100 [*] | 100 | 43 | |
| Antigua & Barbuda | ... | ... | ... | 2.0 | 2.9 | 1.0 ^p | 100.0 | 100.0 | 2007 | 99 | 98 | n/a | 99 | ... | |
| Aruba | ... | ... | ... | 3.2 | 8.5 ^{c, o} | 2.5 ^{c, q} | ... | ... | ... | ... | ... | ... | ... | 68 | |
| Bahamas | 16.7 | 23.8 | 2.5 | 3.2 | 3.4 ^c | 2.9 ^{c, p} | 98.0 | 99.0 | 2007 | 95 | 95 | n/a | 96 | ... | |
| Barbados | ... | ... | ... | 6.6 | 4.3 ^d | 1.8 ^{d, p} | 100.0 | 100.0 | 2006 | 93 | 93 | n/a | 75 | ... | |
| Cayman Islands | ... | ... | ... | 3.0 | 3.7 | ... | 99.9 | 100.0 | 2007 | 91 | 91 | 84 | 87 | 43 | |
| Dominica | ... | ... | ... | 4.0 | 3.8 | 2.2 ^p | 100.0 | 94.0 | 2007 | 96 | 93 | 90 | 96 | ... | |
| Grenada | ... | ... | ... | 2.6 | 3.2 | 5.4 ^s | 100.0 | 98.8 | 2007 | 100 [*] | 100 [*] | n/a | 98 | 54 | |
| Guyana | 2.2 | 3.4 | 0.1 | 2.5 | 5.6 | 1.1 ^s | 96.3 | 96.6 | 2006 | 94 | 94 | 97 | 96 | 34 | |
| Jamaica | 8.5 | 16.5 | 0.8 | 2.0 | 3.1 ^b | 2.4 ^{b, q} | ... | 94.5 | 2006 | 85 | 85 | 87 | 76 | ... | |
| Montserrat | ... | ... | ... | 3.0 | 7.1 | 1.1 ^p | 100.0 | 100.0 | 2007 | 100 [*] | 100 [*] | 100 | 100 | ... | |
| Netherlands Antilles | ... | ... | ... | ... | 11.5 | 0.9 ^p | ... | ... | ... | 100 ^g | 100 ^g | n/a | 82 ^g | ... | |
| Saint Kitts & Nevis | ... | ... | ... | 5.7 | 2.1 | 1.8 ^p | 100.0 | 100.0 | 2007 | 100 | 100 | 97 | 99 | 54 | |
| Saint Lucia | ... | ... | ... | 2.9 | 3.7 | 1.4 ^p | 99.2 | 97.9 | 2006 | 99 | 99 | 100 | 94 | ... | |
| Saint Vincent & the Grenadines | 6.9 | 19.8 | 1.4 | 3.5 | 3.6 | 0.6 ^p | 95.0 ^c | 100.0 | 2007 | 100 [*] | 100 [*] | 100 [*] | 100 [*] | 20 ^a | |
| Suriname | ... | ... | ... | 3.3 | 3.8 | 0.7 | 89.9 | 89.8 | 2006 | 84 | 84 | n/a | 85 | 46 | |
| Trinidad & Tobago | ... | ... | ... | 2.7 | 2.5 ^c | 2.9 ^{c, q} | 94.4 | 99.6 | 2004 | 88 | 90 | n/a | 91 | 38 | |
| Turks & Caicos Islands | ... | ... | ... | 1.4 | 4.8 | ... | 100.0 ^b | 100.0 | 2007 | 80 | 80 | 100 | 87 | 99 | |
| Virgin Islands (UK) | ... | ... | ... | 1.9 | 2.3 | ... | 99.0 | 100.0 | 2006 | 95 | 83 | 98 | 71 | ... | |
| Virgin Islands (US) | 14.7 | ... | ... | ... | 3.0 | ... | 91.7 | 98.3 | 2005 | ... | ... | ... | ... | ... | |

BI 41 - 49: (a) value public sector; (b) value 2006; (c) value 2005; (d) value 2003; (e) value 2007; (f) value 2004; (g) value St. Maarten; (h) < 2 years; (k) < 1 year; (l) data under country review.
BI 42 AB: (m) incl. 'Obras Sociales' (ARG), ISAPRES and FONASA (CHL), IAMC (URY); (n) institutional expenditure; (o) expenditure by activities or budgetary program; (p) medical care and expenses; (q) health; (r) health care and health conservation; (s) personal care and health.
BI 45 - 48: (*) reported coverage > 100%.

socioeconomic indicators

| | 50T | 50M | 50F | 51 calories availability (Kcal/pc/day) | 52A | | 53 annual GDP growth (%) | 54 highest 20%/ lowest 20% income ratio | 55T | | | 56T | 56U | 56R |
|--|--|------|--------|---|---|------------------|-----------------------------------|--|-------------------------------|-----------------|-----------------|---|-----------------|-----------------|
| | literate population (15+ years old) (%) 2007 | | | | gross national income (US\$ per capita) 2006 | | | | population with access (%) to | | | improved sanitation 2006 | | |
| | total | male | female | | 2003 | current value | | | ppp value | 2005-06 | 2000-05, lay | improved sources of drinking water, 2006 | | |
| | | | | | | | | | total | urban | rural | total | urban | rural |
| The Americas | ... | ... | ... | 3,205 | 20,040 | 22,268 | 4.4 | 14.3 | 94 | 98 | 79 | 86 | 92 | 66 |
| North America | ... | ... | ... | 3,739 | 43,928 | 43,314 | 2.9 | 8.2 | 99 | 100 | 95 | 100 | 100 | 99 |
| Bermuda | ... | ... | ... | 2,235 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Canada | ... | ... | ... | 3,605 | 36,650 | 36,280 | 2.8 | 5.5 | 100 | 100 | 99 | 100 | 100 | 99 |
| United States of America | ... | ... | ... | 3,754 | 44,710 | 44,070 | 2.9 | 8.5 | 99 | 100 | 94 | 100 | 100 | 99 |
| Latin America & the Caribbean | 86.4 | 87.1 | 85.8 | 2,875 | 4,952 | 8,961 | 5.3 | 18.2 | 90 | 96 | 71 | 77 | 86 | 47 |
| Latin America | 86.4 | 87.1 | 85.8 | 2,888 | 4,969 | 8,998 | 5.3 | 18.3 | 90 | 97 | 71 | 77 | 86 | 47 |
| Mexico | 92.4 | 94.4 | 90.6 | 3,171 | 7,830 | 11,990 | 4.8 | 12.8 | 95 | 98 | 85 | 81 | 91 | 48 |
| Central American Isthmus | 82.1 | 84.4 | 80.0 | 2,389 | 2,614 | 5,330 | 5.3 | 15.6 | 83 | 93 | 69 | 65 | 79 | 46 |
| Belize | ... | ... | ... | 2,876 | 3,740 | 7,080 | 5.6 | ... | ... | 100 | ... | ... | ... | ... |
| Costa Rica | 95.9 | 95.7 | 96.2 | 2,813 | 4,980 | 9,220 | 8.2 | 13.0 | 98 | 99 | 96 | 96 | 96 | 95 |
| El Salvador | 85.5 | 88.4 | 82.8 | 2,556 | 2,680 | 5,610 | 4.2 | 20.7 | 84 | 94 | 68 | 86 | 90 | 80 |
| Guatemala | 73.2 | 79.0 | 68.0 | 2,227 | 2,590 | 5,120 | 4.5 | 13.9 | 75 ^e | 90 ^e | 60 ^e | 47 ^e | 77 ^e | 17 ^e |
| Honduras | 83.1 | 82.4 | 83.7 | 2,373 | 1,270 | 3,420 | 6.0 | 17.1 | 84 | 95 | 74 | 66 | 78 | 55 |
| Nicaragua | 80.5 | 79.7 | 81.4 | 2,291 | 930 | 2,720 | 3.7 | 8.8 | 79 | 90 | 63 | 48 | 57 | 34 |
| Panama | 93.4 | 94.0 | 92.8 | 2,287 | 5,000 | 8,690 | 8.1 | 24.0 | 92 | 96 | 81 | 74 | 78 | 63 |
| Latin Caribbean | 84.5 | 83.8 | 85.1 | 2,593 | ... | ... | 6.1 | ... | 82 | 90 | 69 | 67 | 78 | 50 |
| Cuba | 99.8 | 99.8 | 99.8 | 3,286 | ... | ... | 5.4 | ... | 91 | 95 | 78 | 98 | 99 | 95 |
| Dominican Republic | 89.1 | 88.8 | 89.5 | 2,281 | 2,910 | 5,500 | 10.7 | 13.5 | 95 | 97 | 91 | 79 | 81 | 74 |
| French Guiana | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Guadeloupe | ... | ... | ... | ... | ... | ... | ... | ... | ... | 98 | 94 | ... | ... | ... |
| Haiti | 62.1 | 60.1 | 64.0 | 2,109 | 430 | 1,070 | 2.3 | 26.4 | 58 | 70 | 51 | 19 | 29 | 12 |
| Martinique | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 85 | ... | ... | ... |
| Puerto Rico | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Andean Area | 71.7 | 73.1 | 70.3 | 2,485 | 3,568 | 7,183 | 7.3 | 20.1 | 90 | 97 | 74 | 74 | 83 | 50 |
| Bolivia | 90.3 | 95.3 | 85.4 | 2,219 | 1,100 | 3,810 | 4.6 | 42.0 | 86 | 96 | 69 | 43 | 54 | 22 |
| Colombia | 93.6 | 93.6 | 93.5 | 2,567 | 3,120 | 6,130 | 6.8 | 21.0 | 93 | 99 | 77 | 78 | 85 | 58 |
| Ecuador | 92.6 | 93.6 | 91.6 | 2,641 | 2,910 | 6,810 | 3.9 | ... | 95 | 98 | 91 | 84 | 91 | 72 |
| Peru | 90.5 | 95.2 | 85.8 | 2,579 | 2,980 | 6,490 | 7.7 | 15.3 | 84 | 92 | 63 | 72 | 85 | 36 |
| Venezuela | ... | ... | ... | 2,272 | 6,070 | 10,970 | 10.3 | 15.8 | ... | ... | ... | ... | ... | ... |
| Brazil | 90.5 | 90.1 | 90.9 | 3,146 | 4,710 | 8,700 | 3.7 | 21.0 | 91 | 97 | 58 | 77 | 84 | 37 |
| Southern Cone | 96.9 | 97.0 | 96.9 | 2,892 | 5,227 | 10,771 | 6.9 | 17.7 | 91 | 98 | 70 | 90 | 94 | 69 |
| Argentina | 97.6 | 97.6 | 97.7 | 2,959 | 5,150 | 11,670 | 8.5 | 17.9 | 96 | 98 | 80 | 91 | 92 | 83 |
| Chile | 96.5 | 96.6 | 96.5 | 2,872 | 6,810 | 11,300 | 4.0 | 15.8 | 95 | 98 | 72 | 94 | 97 | 74 |
| Paraguay | 93.7 | 94.4 | 93.1 | 2,524 | 1,410 | 4,040 | 4.3 | 25.8 | 77 | 94 | 52 | 70 | 89 | 42 |
| Uruguay | 98.0 | 97.6 | 98.3 | 2,883 | 5,310 | 9,940 | 7.0 | 10.1 | 100 | 100 | 100 | 100 | 100 | 99 |
| Non-Latin Caribbean | ... | ... | ... | 2,751 | 5,544 | 9,369 | 5.4 | ... | 94 | 97 | 91 | 87 | 87 | 87 |
| Anguilla | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 99 | ... |
| Antigua & Barbuda | ... | ... | ... | 2,313 | 11,050 | 15,130 | 11.5 | ... | ... | 95 | ... | ... | 98 | ... |
| Aruba | 98.1 | 98.2 | 98.1 | ... | ... | ... | ... | ... | 100 | 100 | ... | ... | ... | ... |
| Bahamas | ... | ... | ... | 2,709 | ... | ... | ... | ... | ... | 98 | ... | 100 | 100 | 100 |
| Barbados | ... | ... | ... | 3,123 | ... | 15,150 | ... | ... | 100 | 100 | 100 | 99 | 99 | 100 |
| Cayman Islands | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Dominica | ... | ... | ... | 2,785 | 4,160 | 7,870 | 4.0 | ... | ... | 100 | ... | ... | ... | ... |
| Grenada | ... | ... | ... | 2,990 | 4,650 | 8,770 | 0.7 | ... | ... | 97 | ... | 97 | 96 | 97 |
| Guyana | ... | ... | ... | 2,764 | 1,150 | 3,410 | 4.8 | ... | 93 | 98 | 91 | 81 | 85 | 80 |
| Jamaica | 86.0 | 80.5 | 91.1 | 2,690 | 3,560 | 7,050 | 2.5 | 9.7 | 93 | 97 | 88 | 83 | 82 | 84 |
| Montserrat | ... | ... | ... | ... | ... | ... | ... | ... | 100 | 100 | 100 | 96 | 96 | 96 |
| Netherlands Antilles | 96.4 | 96.3 | 96.4 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Saint Kitts & Nevis | ... | ... | ... | ... | 8,460 | 12,440 | 5.8 | ... | 99 | 99 | 99 | 96 | 96 | 96 |
| Saint Lucia | ... | ... | ... | 2,975 | 5,060 | 8,500 | 4.5 | ... | 98 | 98 | 98 | ... | ... | ... |
| Saint Vincent & the Grenadines | ... | ... | ... | ... | 3,320 | 6,220 | 1.5 | ... | ... | ... | ... | ... | ... | 96 |
| Suriname | 90.4 | 92.7 | 88.1 | 2,697 | 4,210 | 7,720 | 5.8 | ... | 92 | 97 | 79 | 82 | 89 | 60 |
| Trinidad & Tobago | 98.7 | 99.1 | 98.3 | 2,788 | 12,500 | 16,800 | 12.0 | ... | 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) | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

BI 52A - 54: (a) estimated to be US\$ 11,116 and more; (b) estimated to be US\$ 906 - 3,595; (c) based on expenditure shares; (d) urban data.
BI 55 - 56: (e) value 2002 and provided by country.

infant and maternal mortality: WHO estimates vs. country figures

Figure 1: Infant Mortality Rate WHO vs. country figures

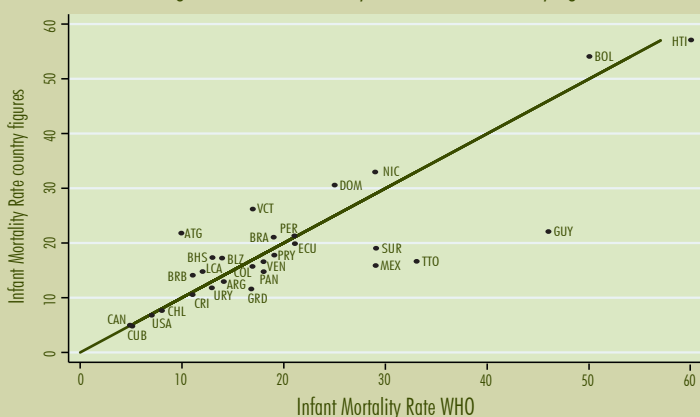


Figure 2: Maternal Mortality Ratio WHO vs. country figures



Table 1: Infant Mortality Rate (IMR) and Maternal Mortality Ratio (MMR)

| country | IMR, WHO, 2006 | IMR, country | year | MMR WHO, 2005 | MMR country | year |
|---------|----------------|--------------|------|---------------|-------------|------|
| ARG | 14 | 13 | 2006 | 77 | 48 | 2006 |
| ATG | 10 | 22 | 2007 | ... | - | 2007 |
| BHS | 13 | 18 | 2007 | ... | ... | ... |
| BLZ | 14 | 17 | 2007 | ... | ... | ... |
| BOL | 50 | 54 | 2003 | 290 | 229 | 2003 |
| BRA | 19 | 21 | 2005 | 110 | 75 | 2005 |
| BRB | 11 | 14 | 2005 | 16 | - | 2005 |
| CAN | 5 | 5 | 2005 | 7 | 6 | 2005 |
| CHL | 8 | 8 | 2006 | 16 | 18 | 2006 |
| COL | 17 | 16 | 2005 | 130 | 73 | 2005 |
| CRI | 11 | 10 | 2007 | ... | ... | ... |
| CUB | 5 | 5 | 2007 | 45 | 30 | 2007 |
| DOM | 25 | 31 | 2007 | 150 | 73 | 2007 |
| ECU | 21 | 20 | 2006 | 210 | 73 | 2006 |
| GRD | 17 | 11 | 2007 | ... | - | 2007 |
| GTM | ... | ... | ... | 290 | 149 | 2005 |
| GUY | 46 | 22 | 2005 | 470 | 161 | 2005 |
| HND | 23 | 23 | 2006 | ... | ... | ... |
| HTI | 60 | 57 | 2006 | 670 | 630 | 2006 |
| JAM | ... | ... | ... | 170 | 95 | 2003 |
| LCA | 12 | 15 | 2005 | ... | ... | ... |
| MEX | 29 | 16 | 2007 | 60 | 59 | 2006 |
| NIC | 29 | 33 | 2006 | 170 | 90 | 2006 |
| PAN | 18 | 15 | 2006 | 130 | 84 | 2006 |
| PER | 21 | 21 | 2003 | ... | ... | ... |
| PRY | 19 | 18 | 2005 | 150 | 121 | 2006 |
| SLV | 22 | 22 | 2007 | 170 | 71 | 2007 |
| SUR | 29 | 19 | 2006 | ... | ... | ... |
| TTO | 33 | 17 | 2004 | ... | ... | ... |
| URY | 13 | 12 | 2007 | ... | ... | ... |
| USA | 7 | 7 | 2005 | 11 | 15 | 2005 |
| VCT | 17 | 26 | 2006 | ... | ... | ... |
| VEN | 18 | 17 | 2006 | 57 | 60 | 2005 |

Figures 1 and 2 show the difference between WHO estimates and the numbers reported by the country for both the maternal mortality ratio (per 100,000 lb) and the infant mortality rate (per 1,000 lb). Deviances from the straight line reflect the differences between rates/ratios reported by the countries and WHO estimates. Table 1 shows maternal and infant mortality reported by countries and estimated by WHO.

Infant Mortality Rate (IMR): Four countries (GUY, MEX, SUR, TTO) report infant mortality rates lower than the WHO estimates. The relative difference between the reported and estimated mortality in these countries is greater than 50%. Two countries (ATG, VCT) show reported rates higher than the estimated rate, with a relative difference of over 30% (Figure 1). In general, the differences observed may stem from the assumptions used in the WHO estimation methodology or from possible under-registration of births and/or infant deaths. In Mexico, for example, we observe a large difference between the rate reported by the country and the estimated rate although Mexico has a good vital statistics system. Additionally, it can be observed that countries with higher reported rates than estimated tend to have smaller populations and the estimation error is larger.

Maternal Mortality Ratio (MMR): Figure 2 shows the comparison between the maternal mortality ratio in the two different sources where the estimates are in most cases higher than the figures reported by the countries. In four countries, the estimates are more than 100% higher than the figures reported (ECU, SLV, GUY, DOM). The estimates for ARG, COL, GTM, JAM, NIC, and PAN are 50% to 100% higher than the country reported figures. The estimates for BRA and CUB are approximately 50% higher than their reported figures. Observed differences between the estimated and reported maternal mortality ratio are higher than those for the infant mortality rate.

Conclusion: Since monitoring of maternal and infant mortality is part of the Millennium Development Goals, having methodologies that allow the validation of reported indicators is essential. The analysis of the data has shown that estimation does not always provide reliable indicators for certain countries. For example, estimation of infant mortality in Mexico shows: a) a rate different to the national reality and b) a rate not consistent to other countries. It is therefore necessary to work with the countries in the identification of methodologies that will lead to an improvement in the quality of mortality data, and to develop correction methods for immediate use in areas such as monitoring and health situation analysis.

Limitations: Estimates of WHO correspond to the year 2005 (MMR) and 2006 (IMR). The data reported by the countries does not necessarily correspond to the year of the estimates. The magnitude of some differences between reported and estimated is very large and cannot be explained solely due to the difference in years.

The following countries have been excluded from the analysis for lack of up-to-date information (2003 or most recent year): MMR: ANT, GUF, HON, PER; IMR: ANT, GTM, JAM. Furthermore, countries with few events were not included, owing to the fluctuation in the rate/ratio over time.

Source: Technical reports from the PAHO/WHO Representative Office in the countries of the Region of the Americas; 2008. WHO, World Health Statistics 2008, Geneva, WHO, 2008.

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).

technical notes & sources

Technical notes:

- Infant mortality rate (IMR) and maternal mortality ratio (MMR) (BI 10, 11) are reported or estimated by countries. Data are presented when the variation coefficient (relative standard error) is less than 23%; otherwise the number of deaths is shown. 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-9 codes 780-799; ICD-10 codes 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.
- 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>). The rates represent the average mortality for three years. General corrected mortality rates for Bolivia and Honduras were determined with UN life-tables and UN population estimates.
- 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. Data from previous years were used to calculate the estimated APIs.
- National Health Expenditure (BI 42A) corresponds to expenditure in the function 'health' (Division 07) of the Functional Classification of the Government Expenditure by Functions 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 come from the International Monetary Fund's Government Finance Statistics database (Printed version 2006 and CD, 2004) and from public health insurance institutions' financial reports. (www.paho.org/Spanish/DPM/SHD/HP/nhexp-metodos.htm).
- Denominator for rates of BI 29, 30, 31, 35 y 41: UN WPP 2006 Revision; US Census Bureau.

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.

Data sources:

- Technical reports from PAHO/WHO Country Representatives; Region of the Americas; 2008, (BI 10-11, 37, 41, 43-44, 49). **As of 20 June 2008.**
- Technical reports from PAHO/WHO Regional Units; 2008 (BI 29-36, 38-40, 42AB, 45-48). **As of 3 June 2008.**
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- WHO/UNICEF. Joint Monitoring Programme for Water Supply and Sanitation (JMP), 2008. With data of 2006. In press. (IB-55-56).

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




Abbreviations:

(-) magnitude zero; (0) magnitude less than half the measurement unit; (...) data not available; (c) circa; (pop) population; (Ib) live births; (Iay) latest available year; (ppp) purchasing power parity; (GDP) gross domestic product; (ADD) acute diarrheal diseases: CIE9 (001-009); CIE10 (A00-A09); (ARI) acute respiratory infections: CIE9 (460-466; 480-487); CIE10 (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.

PAHO/HSD/HA/08.01

Quality of mortality data in the Americas, 2003 or most recent year

The quality of mortality data was measured by means of a composite index that is composed of "Proportion of under-registered deaths" and the "Proportion of deaths due to ill-defined and unknown conditions". The index has four categories: good quality data ($\leq 10\%$), medium quality (11-20%), poor quality (21-40%) and very poor quality ($> 41\%$).

| DATA QUALITY INDEX | COUNTRIES |
|--|---|
|  good | ARG, CAN, CHL, CRI, CUB, GLP, GRD, GTM, GUF, MEX, MTQ, PRI, SUR, TTO, URY, USA, VCT, VEN, VIR |
|  medium | BRA, COL, ECU, GUY, PAN, SLV |
|  poor | ABW, DOM, NIC, PER, PRY |
|  very poor | BOL, HTI |
|  no data | AIA, ANT, ATG, BHS, BLZ, BMU, BRB, CYM, DMA, HND, JAM, KNA, LCA, MSR, TCA, VGB |

Index: $0.7 * \text{Proportion of under-registered deaths (\%)} + 0.3 * \text{Proportion of certified deaths due to ill-defined and unknown conditions (\%)}$

Source: PAHO/WHO; *Technical Information System: Regional Mortality Database*; PAHO, 2008. As of 8 August 2008.

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.

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