

PHNIP Country Health Statistical Report

Dominican Republic

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Table of Contents

1. About the Report

2. Country Profile

I. Statistical Overview

- *Demographic Indicators*
- *Socioeconomic Indicators*
- *Family Planning Indicators*
- *Maternal Health Indicators*
- *Child Survival Indicators*
- *HIV/AIDS Prevention Indicators*
- *Infectious Diseases Control Indicators*

II. Trends in Health Indicators

- *Current and Projected Population by Age and Sex*
(Figure 1 and Table 1.1)
- *Population Estimates and Projections*
(Table 1.2)
- *Estimated Total Fertility Rate per Woman*
(Figure 2 and Table 2)
- *Infant Mortality Rates / Under-5 Mortality Rates*
(Figure 3 and Table 3)
- *Vaccination Coverage (DPT3) Trends*
(Figure 4 and Table 4)
- *Contraceptive Prevalence Rates - Married Women*
(Figure 5 and Table 5)

3. Data Notes

4. Sources

About the Report

Released September 2002

This report is one of a series of Country Health Statistical Reports produced by the Population, Health and Nutrition Information (PHNI) Project. Each profile contains statistical data on current health conditions, population dynamics, health and family planning behavior, and health and population trends in a given developing country. Information is compiled from PHNI's health statistics database, which draws data from a diverse range of sources listed at the end of this profile.

Hard copy editions of PHNI's profiles are available from our publications department. Reports will soon be available on the USAID Global Health Web site in Portable Document Format (.pdf). Any feedback you have on the content or presentation of this report would be greatly appreciated. We would also appreciate receiving any more recent, more accurate, or more representative information.

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I. Statistical Overview

*see data notes

Demographic Indicators				
Indicator	Value	Data Unit	Year	Source
Total Population	8,581,477		2001	BUCEN - IDB-2000
Population Growth Rate	1.6	%	2001	BUCEN - IDB-2000
Percent Urban	64.4	%	1999	World Bank/WDI-2001
Women, 15-19	426,230		2002	BUCEN - IDB-2000
Women, 15-49	2,227,884		2002	BUCEN - IDB-2000
Life Expectancy at Birth	73.4		2001	BUCEN - IDB-2000
Crude Birth Rate	24.8	per 1,000	2001	BUCEN - IDB-2000
Crude Death Rate	4.7	per 1,000	2001	BUCEN - IDB-2000
Number of Live Births	213	000s	2001	BUCEN - IDB-2000

Socioeconomic Indicators				
Indicator	Value	Data Unit	Year	Source
GNI per Capita (PPP)	5,210	\$	1999	World Bank/WDI-2001
Health Expenditure as Percentage of GDP	4.8	%	1990-1998	World Bank/WDI-2001
Physicians per 1,000 People	2.2		1990-1998	World Bank/WDI-2001
Adult Literacy Rate	83.2	%	1999	World Bank/WDI-2001
Adult Literacy Rate, Female	83.2	%	1999	World Bank/WDI-2001
Adult Literacy Rate, Male	83.2	%	1999	World Bank/WDI-2001
Gross Enrollment Rate - Primary School	Data Not Available			
Gender Parity Index - Net Enrollment Rate	1		1997	UNESCO-2000
Access to an Improved Water Source (Rural)	70	%	2000	World Bank/WDI-2001
Access to an Improved Water Source (Urban)	83	%	2000	World Bank/WDI-2001
Access to Improved Sanitation Facilities (Rural)	64	%	2000	World Bank/WDI-2001
Access to Improved Sanitation Facilities (Urban)	75	%	2000	World Bank/WDI-2001

Family Planning Indicators				
Indicator	Value	Data Unit	Year	Source
Total Fertility Rate (BUCEN)	3		2001	BUCEN - IDB-2000
Total Fertility Rate (DHS)	2.9		1999	Dominican Republic Experimental DHS-1999
Contraceptive Prevalence Rate, Modern Methods, All Women	45.6	%	1999	Dominican Republic Experimental DHS-1999
Contraceptive Prevalence Rate, Modern Methods, Married Women	64.7	%	1999	Dominican Republic Experimental DHS-1999
Median Age of Sexual Debut Among Women, Ages 25-49	18.7 ¹		1999	Dominican Republic Experimental DHS-1999
Mean Ideal Family Size	3		1999	Dominican Republic Experimental DHS-1999
Women 20-24 Who Gave Birth Before Age 20	39.2	%	1996	Dominican Republic DHS-1996

Maternal Health Indicators				
Indicator	Value	Data Unit	Year	Source
Maternal Mortality Ratio (DHS)	Data Not Available			
Maternal Mortality Ratio (WHO/Hill)	110	Per 100,000 live births	1995	WHO/Hill-2001
Antenatal Care (at least 1 visit)	97.9	%	1996	Dominican Republic DHS-1996
Antenatal Care (2+ visits)	96.1	%	1996	Dominican Republic DHS-1996
Antenatal Care (4+ visits)	86.9	%	1996	Dominican Republic DHS-1996
Assisted Delivery by a Health Professional	98	%	1999	Dominican Republic Experimental DHS-1999
Assisted Delivery by Doctor	96	%	1999	Dominican Republic Experimental DHS-1999
Assisted Delivery by Other Health Professional	2	%	1999	Dominican Republic Experimental DHS-1999

¹ The value for this country represents data from women ages 20-49.

Child Survival Indicators				
Indicator	Value	Data Unit	Year	Source
Acute Respiratory Infection (ARI) and Oral Rehydration Therapy (ORT)				
ARI Treatment - Children Under 5	61	%	1999	Dominican Republic Experimental DHS-1999
ORT Use Rate (ORS, RHS, or Increased Fluids)	67	%	1999	Dominican Republic Experimental DHS-1999
Mortality Indicators				
Infant Mortality Rate (BUCEN)	33	per 1,000 live births	2002	BUCEN - IDB-2000
Infant Mortality Rate (DHS)	46.6	per 1,000 live births	1996	Dominican Republic DHS-1996
Infant Mortality Rate, Females (BUCEN)	30	per 1,000 live births	2002	BUCEN - IDB-2000
Infant Mortality Rate, Males (BUCEN)	37	per 1,000 live births	2002	BUCEN - IDB-2000
Under-5 Mortality Rate (BUCEN)	42.7	per 1,000 live births	2001	BUCEN - IDB-2000
Under-5 Mortality Rate (DHS)	57.2	per 1,000 live births	1996	Dominican Republic DHS-1996
Nutrition Indicators				
Exclusive Breastfeeding (under 4 mos.)	25.3	%	1996	Dominican Republic DHS-1996
Exclusive Breastfeeding (under 6 mos.)	18.8	%	1996	Dominican Republic DHS-1996
Stunted (height-for-age)	10.7	%	1996	Dominican Republic DHS-1996
Underweight (weight-for-age)	5.9	%	1996	Dominican Republic DHS-1996
Wasted (weight-for-height)	1.2	%	1996	Dominican Republic DHS-1996
Vaccination Coverage				
DPT3 Vaccination Rate (DHS)	62.4	%	1999	Dominican Republic Experimental DHS-1999
Measles Vaccination Rate (DHS)	82.6	%	1999	Dominican Republic Experimental DHS-1999
Polio Vaccination Rate (DHS)	39.7	%	1999	Dominican Republic Experimental DHS-1999
Tetanus Toxoid Vaccination	86.1	%	1999	Dominican Republic Experimental DHS-1999

HIV/AIDS Prevention Indicators				
Indicator	Value	Data Unit	Year	Source
HIV Prevalence, Adults	2.8	%	1999	UNAIDS-2000
HIV Prevalence, Females 15-24, High Estimates	3.1	%	1999	UNAIDS-2000
HIV Prevalence, Females 15-24, Low Estimates	2.4	%	1999	UNAIDS-2000
HIV Prevalence, Males 15-24, High Estimates	3.1	%	1999	UNAIDS-2000
HIV Prevalence, Males 15-24, Low Estimates	2.1	%	1999	UNAIDS-2000
Males Reporting Condom Use With Last Non-Regular Partner	Data Not Available			
Females Reporting Condom Use With Last Non-Regular Partner	29.3 ¹	%	1996	Dominican Republic DHS-1996

Infectious Diseases Control Indicators				
Indicator	Value	Data Unit	Year	Source
TB Incidence Rate	Data Not Available			
TB Case Detection Rate	70.3	%	1998	WHO/TB Control Report-2001
TB (DOTS) Treatment Success Rate	Data Not Available			
Malaria	3,589	Reported # of cases	1999	WHO/RBM-2002

¹ The value for this country represents the percentage of females reporting use of condom at last sexual encounter with any person (cohabitating or not) other than the woman's spouse.

II. Trends in Health Indicators

Figure 1: Current and Projected Population by Age and Sex (in thousands)

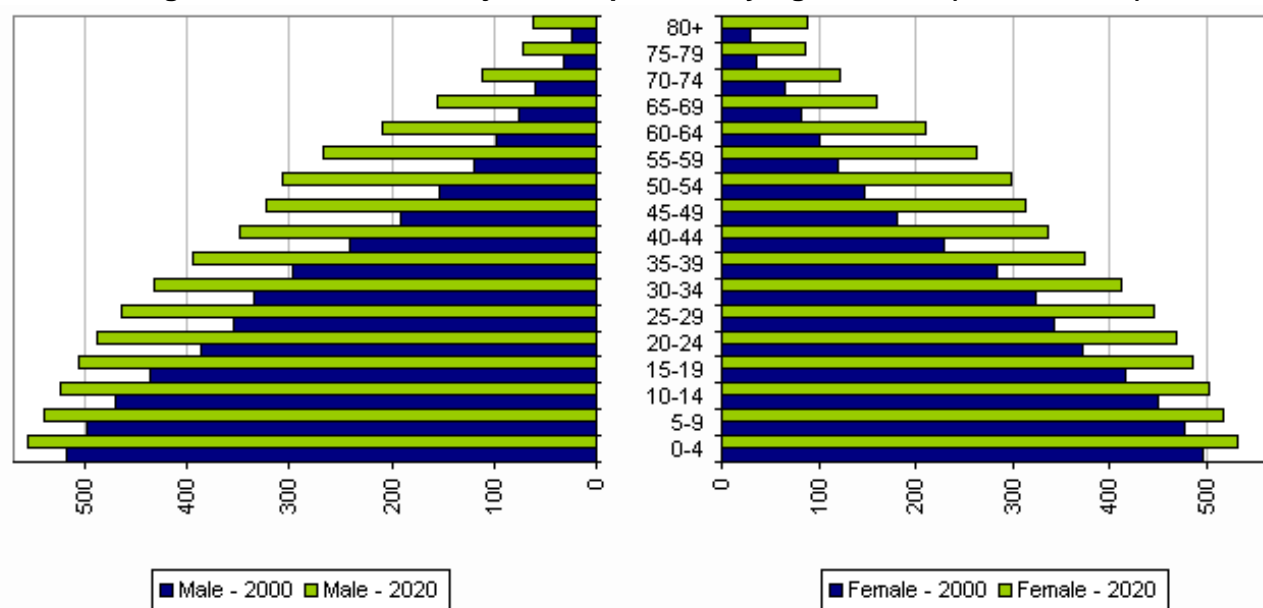


Table 1.1: Current and Projected Population by Age and Sex

Source: BUCEN - IDB

Age Group	Male - 2000	Male - 2020	Female - 2000	Female - 2020
0-4	517,475	556,416	495,705	532,284
5-9	498,453	540,967	476,909	518,128
10-14	470,974	523,423	450,363	501,938
15-19	435,956	506,332	416,091	485,615
20-24	386,259	489,044	371,958	468,968
25-29	354,120	465,335	341,852	445,293
30-34	335,740	432,230	323,961	412,470
35-39	296,307	394,360	284,603	375,179
40-44	240,554	349,026	229,389	335,668
45-49	190,373	322,649	181,189	312,561
50-54	152,616	306,555	148,016	299,528
55-59	119,973	267,282	120,059	263,848
60-64	98,036	208,982	101,212	209,417
65-69	76,202	154,761	82,264	159,611
70-74	60,335	110,683	64,496	121,449
75-79	31,915	70,844	36,003	85,614
80+	23,802	62,011	29,373	89,302

TABLE 1.2: Population Estimates and Projections

Source: BUCEN - IDB

1980	1990	2000	2010	2020
5,696,855	7,098,057	8,442,533	9,884,141	11,377,773

Figure 2: Estimated Total Fertility Rate per Woman

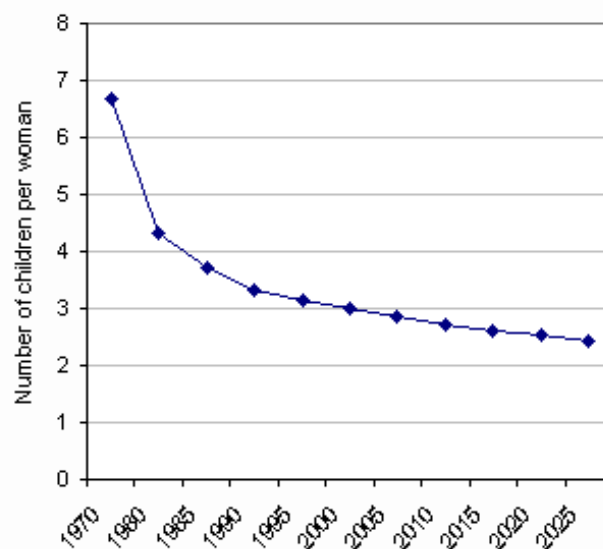


Table 2: Estimated Total Fertility Rate per Woman

Source: BUCEN - IDB

1970	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025
6.7	4.3	3.7	3.3	3.2	3.0	2.9	2.7	2.6	2.5	2.4

Figure 3: Infant Mortality Rates / Under-5 Mortality Rates

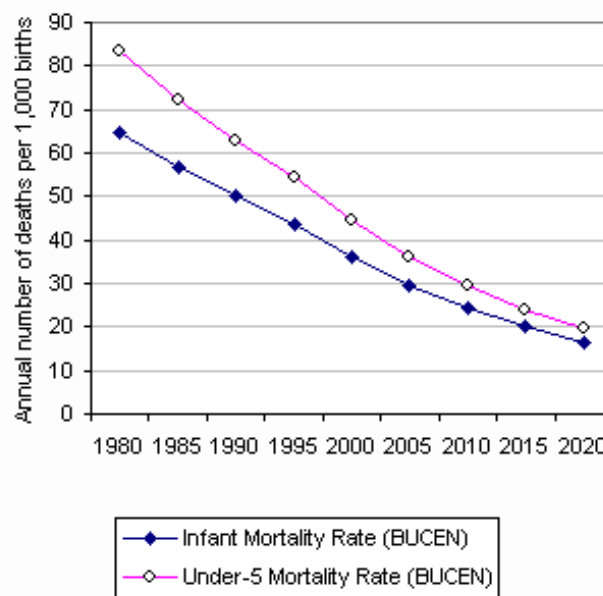


Table 3: Infant Mortality Rates / Under-5 Mortality Rates

Source: BUCEN - IDB 2000

Indicator	1980	1985	1990	1995	2000	2005	2010	2015	2020
Infant Mortality Rate (BUCEN)	64.5	56.8	49.9	43.5	35.9	29.6	24.4	20.0	16.6
Under-5 Mortality Rate (BUCEN)	83.4	72.4	62.9	54.2	44.3	36.2	29.5	24.0	19.7

Figure 4: Vaccination Coverage (DPT3) Trends

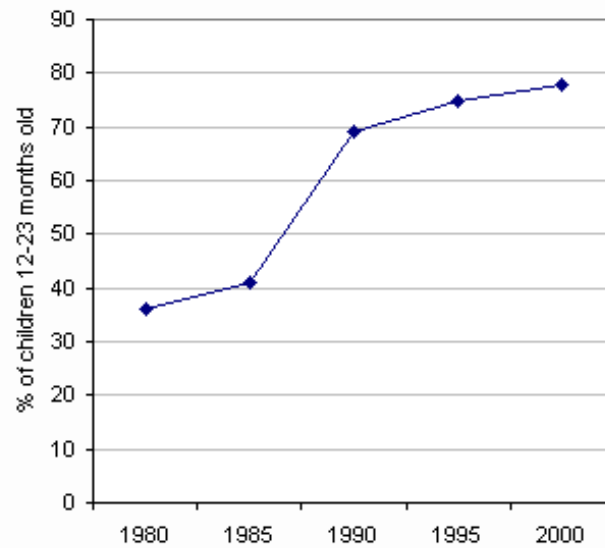


Table 4: Vaccination Coverage (DPT3) Trends

Source: WHO/Global Summary

1980	1985	1990	1995	2000
36.0	41.0	69.0	75.0	77.9

Figure 5: Contraceptive Prevalence Rates, Modern Methods, Married Women

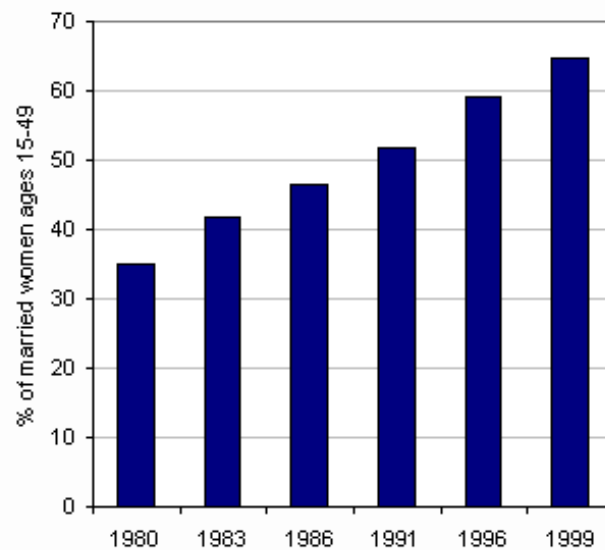


Table 5: Contraceptive Prevalence Rates, Modern Methods, Married Women

Source: Dominican Republic DHS
Dominican Republic Experimental DHS
Ross/TFGI

1980	1983	1986	1991	1996	1999
35.0	41.7	46.5	51.7	59.2	64.7

Data Notes

*Indicator definitions that differ from those in the data notes section are identified by footnotes accompanying the indicator tables.

Demographic Indicators

Total Population	The number of people in a given area (i.e., country) in a particular time period (usually a midyear estimate).
Population Growth Rate	The average annual growth rate is the rate of natural increase in a population plus the net migration rate. The rate of natural increase is the difference between the birth rate and the death rate, but it is conventionally measured in percentage terms (per hundred rather than per thousand).
Percent Urban	The percentage of the midyear population living in areas defined as urban in each country and reported to the United Nations.
Women, 15-19	The number of women between the ages of 15-19 in the midyear population.
Women, 15-49	The number of women between the ages of 15-49 in the midyear population.
Life Expectancy at Birth	The average number of years that a person at age 0 will live if age-specific death rates remain constant. Life expectancy at birth is highly affected by rates of infant and child death.
Crude Birth Rate	The number of births per thousand of the population. The product of the number of live births, divided by the midpoint population, multiplied by 1,000.
Crude Death Rate	The number of deaths per thousand of the population. The product of the number of deaths divided by the midpoint population, multiplied by 1,000.
Number of Live Births	The number of live births, annually, within a country.

Socioeconomic Indicators

GNI per Capita (PPP)	The gross national income (GNI) converted to international dollars using purchasing power parity (PPP) rates. An international dollar has the same purchasing power over GNI as a U.S. dollar has in the United States.
Health Expenditure as Percentage of GDP	Total health expenditures is the sum of public and private health expenditures figured as a percentage of a country's gross domestic product (GDP). It covers the provision of health services (preventive and curative), family planning activities, nutrition activities, and emergency aid designated for health but does not include provision of water and sanitation.
Physicians per 1,000 People	Physicians are defined as graduates of any faculty or school of medicine who are working in the country in any medical field (practice, teaching, research).
Adult Literacy Rate	The percentage of people ages 15 and over who can, with understanding, read and write a short, simple statement about their everyday life.
Adult Literacy Rate, Female	The percentage of women ages 15 and over who can, with understanding, read and write a short, simple statement about their everyday life.
Adult Literacy Rate, Male	The percentage of men ages 15 and over who can, with understanding, read and write a short, simple statement about their everyday life.
Gross Enrollment Rate - Primary School	Total enrolment in primary level of education, regardless of age, expressed as a percentage of the official school-age population corresponding to primary level of education in give school-year. GER can be over 100% due to the inclusion of over-aged and under-aged pupils/students because of early or late entrants, and grade repetition.

Gender Parity Index - Net Enrollment Rate	The ratio of the female-to-male net primary school enrollment rates measures progress towards gender equity in school attendance and the level of learning opportunities available for women in relation to those available to men. Calculation Method: Divide the female net primary school enrollment rate by the male net primary school enrollment rate.
Access to an Improved Water Source (Rural)	Access to an improved water source in rural areas. Refers to the percentage of the rural population with reasonable access to an adequate amount of water from an improved source, such as a household connection, public standpipe, borehole, protected well or spring, or rainwater collection. Unimproved sources include vendors, tanker trucks, and unprotected wells and springs. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within one kilometer of the dwelling.
Access to an Improved Water Source (Urban)	Access to an improved water source in urban areas. Refers to the percentage of the urban population with reasonable access to an adequate amount of water from an improved source, such as a household connection, public standpipe, borehole, protected well or spring, or rainwater collection. Unimproved sources include vendors, tanker trucks, and unprotected wells and springs. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within one kilometer of the dwelling.
Access to Improved Sanitation Facilities (Rural)	Access to improved sanitation facilities in rural areas. Refers to the percentage of the rural population with access to at least adequate excreta disposal facilities (private or shared, but not public) that can effectively prevent human, animal, and insect contact with excreta.
Access to Improved Sanitation Facilities (Urban)	Access to improved sanitation facilities in urban areas. Refers to the percentage of the urban population with access to at least adequate excreta disposal facilities (private or shared, but not public) that can effectively prevent human, animal, and insect contact with excreta.
Family Planning Indicators	
Total Fertility Rate (BUCEN)	The number of children a woman between ages 15-44 would have during her reproductive life, if, for all of her childbearing years she were to experience the age-specific birth rates for that given year.
Total Fertility Rate (DHS)	The number of children a woman between ages 15-49 would have during her lifetime if she were to bear children at the currently observed rates.
Contraceptive Prevalence Rate, Modern Methods, All Women	Percentage of all women ages 15-49 currently using a modern method of contraception. Modern methods include oral contraceptives, IUDs, injectables, female and male sterilization, all emergency contraception, and barrier methods (diaphragm, foam, jelly, male and female condom).
Contraceptive Prevalence Rate, Modern Methods, Married Women	Percent of currently married ages women 15-49 currently using a modern method of contraception. Modern methods include oral contraceptives, IUDs, injectables, female and male sterilization, all emergency contraception, and barrier methods (diaphragm, foam, jelly, male and female condom).
Median Age of Sexual Debut Among Women, Ages 25-49	Median age of first sexual intercourse for women ages 25-49.
Mean Ideal Family Size	Mean ideal number of children for all women, according to number of living children.
Women 20-24 Who Gave Birth Before Age 20	Percentage of women ages 20-24 who have already given birth or were pregnant with their first child before the age of 20.
Maternal Health Indicators	
Maternal Mortality Ratio (DHS)	The estimated number of women who die as a result of pregnancy or childbirth per 100,000 live births, arrived mostly through 'direct sisterhood method'. The use of information reported by a sibling is to expand the sample size and to compensate for the lack of vital registration system.
Maternal Mortality Ratio (WHO/Hill)	The estimated number of women who die as a result of pregnancy or childbirth per 100,000 live births arrived through Hill et al., adjustment procedure depending on the nature of data used.
Antenatal Care (at least 1 visit)	Percentage of women of reproductive age (15-49) who receive at least one antenatal care visit during pregnancy (in the three-year period preceding the survey).
Antenatal Care (2+ visits)	Percentage of women of reproductive age (15-49) who receive at least two antenatal care visits during pregnancy (in the three-year period preceding the survey).

Antenatal Care (4+ visits)	Percentage of women of reproductive age (15-49) who receive four or more antenatal care visits during pregnancy (in the three-year period preceding the survey).
Assisted Delivery by a Health Professional	The percentage of births/deliveries that occur with the assistance of any trained health professional during the five-year period preceding the survey. May include doctors, nurses, midwives, village health workers, or any other trained health professional.
Assisted Delivery by Doctor	The percentage of live births/deliveries that occur with the assistance of a doctor during the five-year period preceding the survey.
Assisted Delivery by Other Health Professional	The percentage of live births/deliveries that occur with the assistance of a nurse, midwife, village health worker, or any other trained health professional besides a doctor during the five-year period preceding the survey.
Child Survival Indicators	
ARI Treatment - Children Under 5	Percentage of children under five years who were ill with an acute respiratory infection (ARI), which is associated with cough, rapid breathing and a high fever, during the two weeks preceding the survey, and who were treated with specific remedies.
ORT Use Rate (ORS, RHS, or Increased Fluids)	Oral Rehydration Therapy (ORT). Percentage of children under age 5 with diarrhea two weeks prior to survey who received increased fluids, oral rehydration solution (ORS) or recommended home solution (RHS).
Infant Mortality Rate (BUCEN)	The estimated annual number of deaths of infants under 12 months in a given year per 1,000 live births in that same year.
Infant Mortality Rate (DHS)	The estimated annual number of deaths of infants under 12 months in a given year per 1,000 live births in that same year (five-year period preceding survey).
Infant Mortality Rate, Females (BUCEN)	The estimated annual number of deaths of female infants under 12 months in a given year per 1,000 live births in that same year.
Infant Mortality Rate, Males (BUCEN)	The estimated annual number of of male infants under 12 months in a given year per 1,000 live births in that same year.
Under-5 Mortality Rate (BUCEN)	Annual number of deaths that occur in children 0-4 years old per 1,000 births.
Under-5 Mortality Rate (DHS)	Annual number of deaths that occur in children 0-4 years old per 1,000 births (five-year period preceding survey).
Exclusive Breastfeeding (under 4 mos.)	Percentage of children under 4 months exclusively breastfed. Exclusive breastfeeding is defined as providing no food or liquid other than breast milk to the child during the 24-hour period before the survey.
Exclusive Breastfeeding (under 6 mos.)	Percentage of children under 6 months exclusively breastfed. Exclusive breastfeeding is defined as providing no food or liquid other than breast milk to the child during the 24-hour period before the survey.
Stunted (height-for-age)	Percentage of children under age five whose height-for-age is below minus-two standard deviations from the median of the reference population.
Underweight (weight-for-age)	Percentage of children under age five whose weight-for-age is below minus-two standard deviations from the median of the reference population.
Wasted (weight-for-height)	Percentage of children under age five whose weight-for-height is below minus-two standard deviations from the median of the reference population.
DPT3 Vaccination Rate (DHS)	Proportion of living children 12-23 months old who have received three complete doses of vaccines against diphtheria, pertussis, and tetanus.
Measles Vaccination Rate (DHS)	Percentage of living children who have received one dose of MCV (fully immunized) against measles.
Polio Vaccination Rate (DHS)	Percentage of children receiving three doses of polio vaccine.
Tetanus Toxoid Vaccination	Percentage of pregnant women receiving two (or more) doses of tetanus toxoid (three-year period preceding survey).

HIV/AIDS Prevention Indicators

HIV Prevalence, Adults	The estimated number of adults (ages 15-49) living with HIV/AIDS at the end of 1999 divided by the 1999 adult population (ages 15–49).
HIV Prevalence, Females 15-24, High Estimates	HIV prevalence, adolescent females 15-24 for high estimates.
HIV Prevalence, Females 15-24, Low Estimates	HIV prevalence, adolescent females 15-24 for low estimates.
HIV Prevalence, Males 15-24, High Estimates	HIV prevalence, adolescent males 15-24 for high estimates.
HIV Prevalence, Males 15-24, Low Estimates	HIV prevalence, adolescent males 15-24 for low estimates.
Males Reporting Condom Use With Last Non-Regular Partner	Among men who have had sex in the last year, percentage who used condoms during their last sexual intercourse with a non-regular partner/non-cohabitating partner.
Females Reporting Condom Use With Last Non-Regular Partner	Among women who have had sex in the last year, percentage who used condoms during their last sexual intercourse with a non-regular partner/non-cohabitating partner.

Infectious Diseases Control Indicators

TB Incidence Rate	Total number of TB cases (all types) estimated in a given period of time per 100,000 population.
TB Case Detection Rate	TB Case Detection Rate is defined as the percentage of the annual new smear-positive notifications of the estimated annual new smear-positive incidence.
TB (DOTS) Treatment Success Rate	The proportion of smear-positive patients who were cured plus the proportion who completed treatment.
Malaria	Reported number of cases of malaria during the year for which data reported.

Statistical Sources For Dominican Republic

BUCEN - IDB 2000	United States Census Bureau (BUCEN), International Programs Center. International Database. Web site revision dated October 2000.
Dominican Republic DHS 1986	Consejo Nacional de Poblacion y Familia (CONAPOFA) and Institute for Resource Development/Westinghouse. Republica Dominicana Encuesta Demografica y de Salud, HDS-1986. Santa Domingo, Dominican Republic: CONAPOFA, 1987.
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Dominican Republic DHS 1996	Centro de Estudios Sociales y Demographicos, et al., Encuesta Demografica y de Salud 1996. Calverton, Maryland USA, Macro International Inc., June 1997
Dominican Republic Experimental DHS 1999	Centro de Estudios Sociales y Demographicos; Agencia para el Desarrollo Internacional, USAID; Macro International, Inc. "Encuesta Experimental de Demografia y Salud 1999". Calverton, Maryland USA, Macro International Inc., September 2001.
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WHO/Global Summary 2001	WHO Vaccine-Preventable Diseases Monitoring System. 2001 Global Summary. World Health Organization, Geneva.
WHO/Hill 2001	Kenneth Hill, Carla Abou Zahr & Tessa Wardlaw: Estimates of Maternal Mortality for 1995. Bulletin of the World Health Organization, vol. 79, no. 3, 182-193, 2001.
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WHO/TB Control Report 2001	Global Tuberculosis Control, WHO Report 2000. World Health Organization, Geneva.
World Bank/WDI 2001	World Bank Development Indicators 2001, CD-Rom. Washington, DC: The World Bank, 2001.