USAID Country Health Statistical Report

Benin

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About the Report

Released September 2004

This report is one of a series of Country Health Statistical Reports produced on behalf of the United States Agency for International Development (USAID) 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 USAID's profiles are available from PHNI'S publications department. Reports are 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. Contact us at the following:

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I. Statistical Overview

*see data notes

Demographic Indicators				
Indicator	**Value**	**Data Unit**	**Year**	**Source**
Total Population	7,250,033		2004	BUCEN-IDB-2004
Population Growth Rate	2.9	%	2004	BUCEN-IDB-2004
Percent Urban	43.7	%	2002	World Bank/WDI-2004
Women, 15-19	396,180		2004	BUCEN-IDB-2004
Women, 15-49	1,647,850		2004	BUCEN-IDB-2004
Life Expectancy at Birth	50.8		2004	BUCEN-IDB-2004
Crude Birth Rate	42.6	per 1,000	2004	BUCEN-IDB-2004
Crude Death Rate	13.7	per 1,000	2004	BUCEN-IDB-2004
Number of Live Births	308,634		2004	BUCEN-IDB-2004

Socioeconomic Indicators				
Indicator	**Value**	**Data Unit**	**Year**	**Source**
GNI per Capita (PPP)	1,060	$	2002	World Bank/WDI-2004
Health Expenditure as Percentage of GDP	4.4	%	2001	World Bank/WDI-2004
Physicians per 1,000 People	0.06	per 1,000	1995	World Bank/WDI-2004
Adult Literacy Rate	39.8	%	2002	World Bank/WDI-2004
Adult Literacy Rate, Female	25.5	%	2002	World Bank/WDI-2004
Adult Literacy Rate, Male	54.8	%	2002	World Bank/WDI-2004
Gross Enrollment Rate - Primary School	95.5	%	2000	UNESCO-2003/4
Gender Parity Index - Net Enrollment Rate	0.69		2000	UNESCO-2003/4
Access to an Improved Water Source (Rural)	55	%	2000	World Bank/WDI-2004
Access to an Improved Water Source (Urban)	74	%	2000	World Bank/WDI-2004
Access to Improved Sanitation Facilities (Rural)	6	%	2000	World Bank/WDI-2004
Access to Improved Sanitation Facilities (Urban)	46	%	2000	World Bank/WDI-2004

Family Planning Indicators

Indicator	Value	Data Unit	Year	Source
Total Fertility Rate (BUCEN)	6		2004	BUCEN-IDB-2004
Total Fertility Rate (DHS)	5.6		2001	Benin DHS-2001
Contraceptive Prevalence Rate, Modern Methods, All Women	7	%	2001	Benin DHS-2001
Contraceptive Prevalence Rate, Modern Methods, Married Women	7.2	%	2001	Benin DHS-2001
Median Age of Sexual Debut Among Women, Ages 25-49	17.3		2001	Benin DHS-2001
Mean Ideal Family Size	4.9		2001	Benin DHS-2001
Women 20-24 Who Gave Birth Before Age 20	45	%	2001	Benin DHS-2001

Maternal Health Indicators

Indicator	Value	Data Unit	Year	Source
Maternal Mortality Ratio (WHO/Hill)	850	Per 100,000 live births	2000	WHO/Hill-2004
Maternal Mortality Ratio (DHS)	Data Not Available			
Antenatal Care (at least 1 visit)	88.3 [1]	%	2001	Benin DHS-2001
Antenatal Care (2+ visits)	83.6 [2]	%	2001	Benin DHS-2001
Antenatal Care (4+ visits)	61.6 [3]	%	2001	Benin DHS-2001
Assisted Delivery by a Health Professional	72.9	%	2001	Benin DHS-2001
Assisted Delivery by Doctor	4.5	%	2001	Benin DHS-2001
Assisted Delivery by Other Health Professional	68.4	%	2001	Benin DHS-2001

[1] The value for this country represents data from the five-year period preceding the survey.
[2] The value for this country represents data from the five-year period preceding the survey.
[3] The value for this country represents data from the five-year period preceding the survey.

Child Survival Indicators				
Indicator	**Value**	**Data Unit**	**Year**	**Source**
Acute Respiratory Infection (ARI) and Oral Rehydration Therapy (ORT)				
ARI Treatment - Children Under 5	29.3	%	2001	Benin DHS-2001
ORT Use Rate (ORS, RHS, or Increased Fluids)	60.9	%	2001	Benin DHS-2001
Mortality Indicators				
Infant Mortality Rate (BUCEN)	85.9	per 1,000 live births	2004	BUCEN-IDB-2004
Infant Mortality Rate (DHS)	89.1	per 1,000 live births	2001	Benin DHS-2001
Infant Mortality Rate, Females (BUCEN)	80.7	per 1,000 live births	2004	BUCEN-IDB-2004
Infant Mortality Rate, Males (BUCEN)	90.9	per 1,000 live births	2004	BUCEN-IDB-2004
Under-5 Mortality Rate (BUCEN)	145.9	per 1,000 live births	2004	BUCEN-IDB-2004
Under-5 Mortality Rate (UNICEF)	156	per 1,000 live births	2002	UNICEF-2004
Under-5 Mortality Rate (DHS)	160	per 1,000 live births	2001	Benin DHS-2001
Nutrition Indicators				
Exclusive Breastfeeding (under 4 mos.)	48.2	%	2001	Benin DHS-2001
Exclusive Breastfeeding (under 6 mos.)	37.9	%	2001	Benin DHS-2001
Stunted (height-for-age)	30.7	%	2001	Benin DHS-2001
Underweight (weight-for-age)	22.9	%	2001	Benin DHS-2001
Wasted (weight-for-height)	7.5	%	2001	Benin DHS-2001
Vaccination Coverage				
DPT3 Vaccination Rate (DHS)	72.5	%	2001	Benin DHS-2001
DPT3 Vaccination Rate (WHO)	79	%	2002	WHO/Global Summary-2003
Measles Vaccination Rate (DHS)	68	%	2001	Benin DHS-2001
Measles Vaccination Rate (WHO)	78	%	2002	WHO/Global Summary-2003
Polio Vaccination Rate (DHS)	69.3	%	2001	Benin DHS-2001
Polio Vaccination Rate (WHO)	72	%	2002	WHO/Global Summary-2003
Tetanus Toxoid Vaccination	50.1 [1]	%	2001	Benin DHS-2001

[1] The value for this country represents data from the five-year period preceding the survey.

HIV/AIDS Prevention Indicators

Indicator	Value	Data Unit	Year	Source
HIV Prevalence proportion: Adults (15–49 years)	1.9	%	2003	UNAIDS-2004
Estimated number of people living with HIV: Adults and Children	68,000		2003	UNAIDS-2004
Estimated number of people living with HIV: Women (15–49 years)	35,000		2003	UNAIDS-2004
Estimated number of people living with HIV: Children (0–14 years)	5,700		2003	UNAIDS-2004
Males Reporting Condom Use With Last Non-Regular Partner	31	%	2001	Benin DHS-2001
Females Reporting Condom Use With Last Non-Regular Partner	16.1	%	2001	Benin DHS-2001

Infectious Diseases Control Indicators

Indicator	Value	Data Unit	Year	Source
TB Estimated Number of Cases	5,644		2002	WHO/TB Control Report-2004
TB Case Detection Rate	98	%	2002	WHO/TB Control Report-2004
TB (DOTS) Treatment Success Rate	79	%	2001	WHO/TB Control Report-2004
Malaria Cases per 100,000	11,545	per 100,000	1998	WHO/RBM-2004

II. Trends in Health Indicators

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

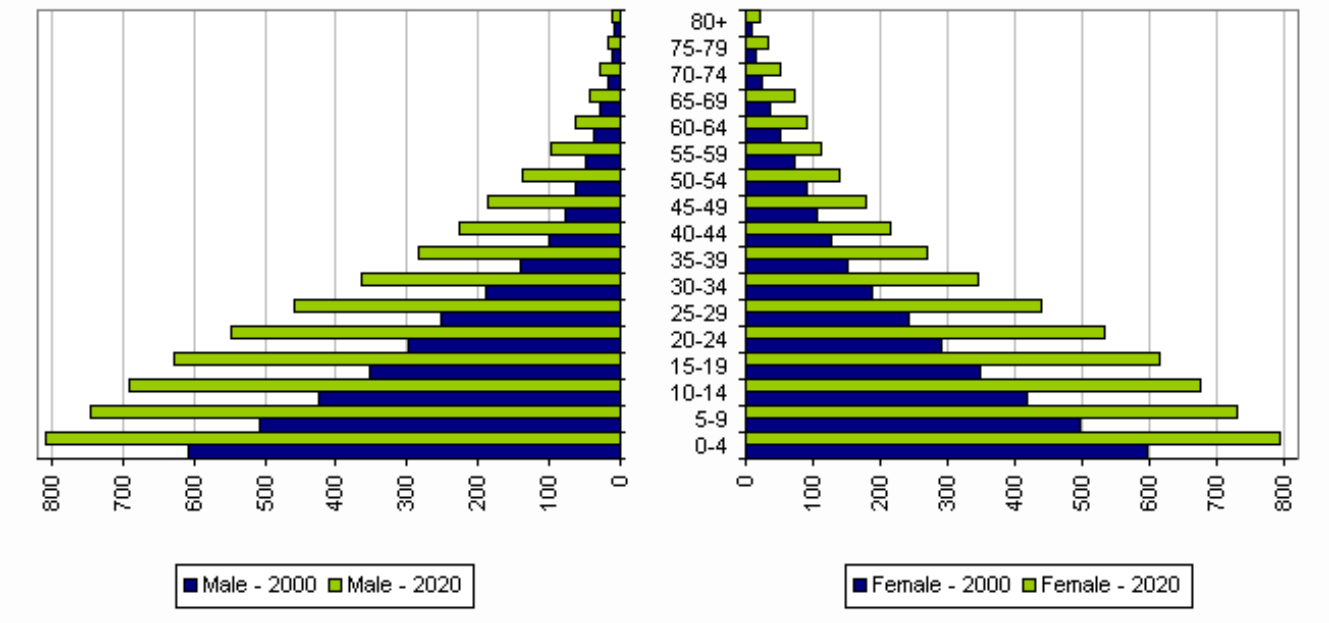

Table 1.1: Current and Projected Population by Age and Sex

Source: BUCEN-IDB

Age Group	Male - 2000	Male - 2020	Female - 2000	Female - 2020
0-4	607,440	809,661	596,194	792,029
5-9	506,255	744,264	497,595	728,468
10-14	424,531	690,171	417,314	675,162
15-19	352,813	627,858	347,556	612,976
20-24	298,056	548,843	290,486	533,616
25-29	251,176	458,943	242,370	440,227
30-34	188,612	364,582	188,698	344,523
35-39	141,640	283,862	151,273	267,989
40-44	101,292	227,749	126,516	214,959
45-49	76,593	186,481	106,554	177,325
50-54	62,627	136,961	90,749	138,734
55-59	49,970	98,109	73,360	111,663
60-64	37,970	63,768	52,385	91,559
65-69	27,482	41,596	36,508	71,715
70-74	18,009	28,110	23,706	52,418
75-79	10,468	16,972	13,779	32,516
80+	7,959	11,706	10,460	21,470

TABLE 1.2: Population Estimates and Projections

Source: BUCEN-IDB

1960	1970	1980	1990	2000	2010	2020	2030	2040	2050
2,055,083	2,619,809	3,444,116	4,661,949	6,428,396	8,504,094	10,646,985	12,949,704	15,393,279	17,991,423

Figure 2: Estimated Total Fertility Rate per Woman

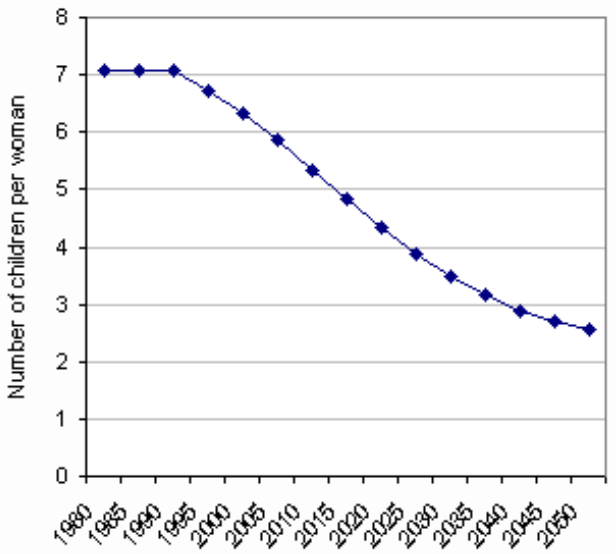

Table 2: Estimated Total Fertility Rate per Woman

Source: BUCEN-IDB

1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050
7.1	7.1	7.1	6.7	6.3	5.9	5.4	4.8	4.3	3.9	3.5	3.2	2.9	2.7	2.6

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

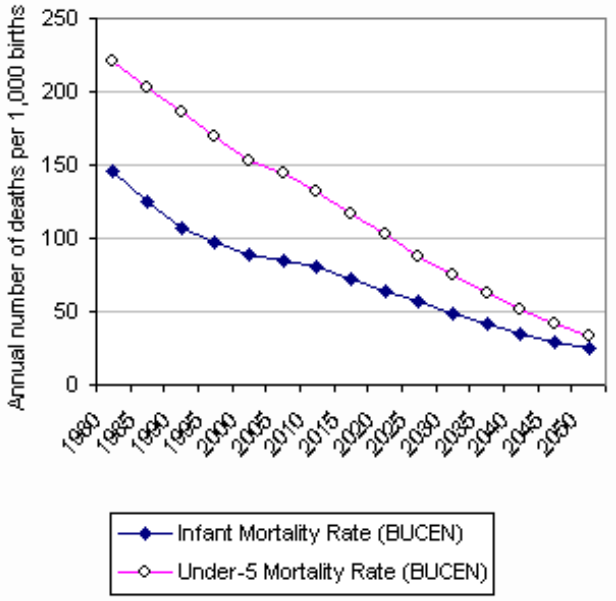

Table 3: Infant Mortality Rates / Under-5 Mortality Rates

Source: BUCEN-IDB 2002

Indicator	1980	1985	1990	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050
Infant Mortality Rate (BUCEN)	145.4	124.9	106.8	96.8	89.5	85.0	80.1	72.1	64.2	56.4	48.9	41.8	35.2	29.4	24.4
Under-5 Mortality Rate (BUCEN)	220.3	202.2	186.4	169.2	153.4	144.0	132.2	116.9	102.2	88.0	74.7	62.4	51.3	41.7	33.7

Figure 4: Vaccination Coverage (DPT3) Trends

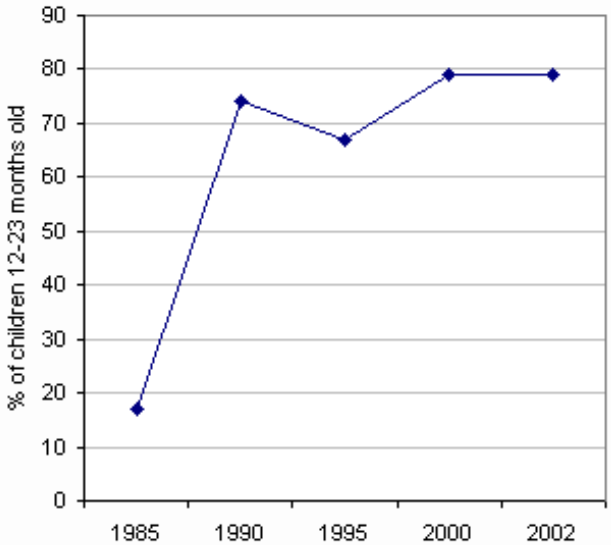

Table 4: Vaccination Coverage (DPT3) Trends

Source: WHO/Global Summary

1985	1990	1995	2000	2002
17.0	74.0	67.0	79.0	79.0

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

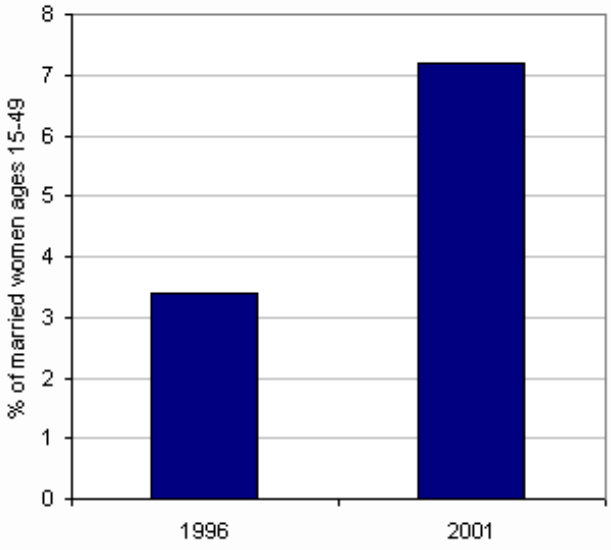

Table 5: Contraceptive Prevalence Rates, Modern Methods, Married Women

Source: Benin DHS

1996	2001
3.4	7.2

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 15-49 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 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).
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 given birth before age 20.

Maternal Health Indicators

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. The margins of uncertainty associated with the estimated maternal mortality ratios are very large and the estimates should not be used to monitor trends in the short term (including comparisons between 1995 and 2000 estimates). In addition, cross-country comparisons should be treated with considerable circumspection because different strategies are used to derive the estimates for different countries rendering comparisons fraught with difficulty. For further information please refer to the source.

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 the "sisterhood method". The data are aggregated based on different time periods ranging from four to ten years preceding the survey. Thus, the data may not be suitable for trend analysis due to over-lapping year ranges of estimates. For further information on methodology please refer to: Stanton, Cynthia, Noureddine Abderrahim, and Kenneth Hill. 1997. DHS Maternal Mortality Indicators: An assessment of Data Quality and Implications for Data Use. Calverton: Macro International Inc., or individual country DHS reports.
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, for whom treatment was sought from a health facility or provider.
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 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 (UNICEF)	Annual number of deaths that occur in children 0-4 years old per 1,000 births (five-year period preceding survey).
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.
DPT3 Vaccination Rate (WHO)	Proportion of living children 12-23 months old who have received three complete doses of vaccines aginst diphtheria, pertussis, and tetanus.
Measles Vaccination Rate (DHS)	Percentage of living children 12-23 months old who have received one dose of Measles Containing Vaccince.
Measles Vaccination Rate (WHO)	Percentage of living children 12-23 months old who have received one dose of Measles Containing Vaccince.
Polio Vaccination Rate (DHS)	Proportion of living children 12-23 months who have received three doses of polio vaccine.
Polio Vaccination Rate (WHO)	Proportion of living children 12-23 months who have received 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 proportion: Adults (15–49 years)	The adult HIV prevalence proportion is the estimated number of adults living with HIV divided by the adult population (aged 15–49).
Estimated number of people living with HIV: Adults and Children	Estimated number of adults and children living with HIV. Children are defined as those aged 0–14 years.
Estimated number of people living with HIV: Women (15–49 years)	Estimated number of women (aged 15–49) living with HIV.
Estimated number of people living with HIV: Children (0–14 years)	Estimated number of children under age 15 living with HIV.
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 Estimated Number of Cases	The estimated number of cases (all forms).
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 Cases per 100,000	Number of malaria cases per 100,000 of the population during the year for which data was reported.

Statistical Sources For Benin

Benin DHS 1996	Nicaise Kodjogbe, et. al, Enquete Demographique et de Sante, Republique de Benin 1996. Calverton, Maryland, USA: Institut National de la Statistique et de l'Analyse Economique and Macro International Inc., 1997.
Benin DHS 2001	Institut National de la Statistique et de l'Analyse Economique and Macro International Inc. "Enquete Demographique et de Sante au Benin 2001." Macro International, Calverton, MD: 2002
BUCEN-IDB 2002	United States Census Bureau (BUCEN), International Programs Center. International Database. October 2002.
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UNICEF 2004	UNICEF Web site. Progress since the World Summit for Children. www.childinfo.org/cmr/revis/db2.htm. Data accessed on Web site in May 2004.
WHO/Global Summary 2002	WHO Vaccine-Preventable Diseases Monitoring System. 2002 Global Summary. World Health Organization, Geneva.
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