



Miami-Dade County Health Department

Vital and Morbidity Statistics

2002

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Miami-Dade County Health Department Vital and Morbidity Statistics 2002

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Introduction

This is the Seventh comprehensive summary of vital statistics and morbidity data, published by the Miami-Dade County Health Department.

Source of Data

The population estimates presented in this report are from Florida Governor's Office and CACI Marketing System. The Governor's Office provided population by sex and race. CACI Marketing System provided zip code data.

The State of Florida Department of Health Office of Vital Statistics provided death and birth data for Miami-Dade County residents for the years 2002. Births and deaths recorded in Miami-Dade County for residents of other counties and states have been excluded from this report.

Analysis of Data

Data of live births and deaths were analyzed using SAS for Windows 9.0. The information of Tuberculosis (TB), HIV/AIDS data were provided by the respective programs. Staff at Office of Epidemiology and Disease Control analyzed all other data.

Technical Changes

Since 1999, causes of death have been classified by the *Tenth Revision International Classification of Disease* (ICD-10), replacing the Ninth Revision (ICD-9) used for 1979-1998 data. The change has had several consequences: 1) new cause-of-death labels and corresponding cause-of-death codes; 2) breaks in comparability over time for cause-of-death statistics; and 3) restructuring of the leading causes of death (1). Any trend analysis using years covered by ICD-9 and ICD-10 classifications must be interpreted cautiously because depending on the disease there may be an increase or decrease in the number of cases that is due to the new classification system.

The age-adjusted death rates are calculated using year 2000 population, which replaces the prior standard, the estimated year 1940 population. The statistical consequences of the new standard are generally to increase the magnitude of rates and to affect differential between groups and over time but not alter trends (1).

Limitations of Data Presented

There may be minor discrepancies in numbers between this report and Florida Vital Statistics Annual Report due to different versions of the dataset used. For morbidity data, cases are assigned to a given year based on the onset or event date of diseases/conditions, and effort was made to ensure that our data are consistent with state data. The population that was used in this report may be not in accord with previously published reports.

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1. Hoyert DL, Arias E, Smith BL, Murphy SL, Kochanek KD. Deaths: Final Data for 1999. National vital statistics reports; vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Glossary

Age-adjusted death rate: A rate that has taken into account influences on a crude death rate due to differences in the age composition of the population. In this report, the age-adjusted rates were computed by the direct method using the 2000 US standard population.

Age-specific rate: Rate obtained for specific age groups (for example, age-specific fertility rate, death rate, etc.).

AIDS: Acquired Immune Deficiency Syndrome caused by the human immunodeficiency virus (HIV).

Birthweight: The weight of a newborn at delivery, recorded in pounds and ounces or in grams.

DBPR: Florida Department of Business and Professional Regulation.

Cause of death: Any condition which leads to or contributes to death and is classifiable according to the tenth revision of the International Classification of Diseases (ICD-10).

Childbearing years: The reproductive age span of women; conventionally defined as 15 through 44 years of age for the U.S. population.

Congenital anomaly: Physical, physiological, or metabolic abnormality existing before or at birth, but not necessarily detectable at birth.

Crude rate: The rate of any demographic or vital event that is based on the total midyear population.

DACS: Florida Department of Agriculture and Consumer Services

DOH: Florida Department of Health

Ethnicity: The classification of a population that shares common characteristics, such as religion, traditions, culture, language, and tribal or national origin.

Fetal death: Death of a product of conception prior to the complete expulsion or extraction from its mother, regardless of the length of gestation.

Fertility rate: The number of live births per 1,000 female population aged 15-44 years in a given year.

Foodborne illness outbreak: A foodborne outbreak is an incident in which two or more persons have the same disease, have similar symptoms, or excrete the same pathogens and there is a time, place, and/or person association between these persons. A foodborne

disease outbreak is one in which a common food has been ingested by such persons. Nevertheless, a single case of suspected botulism, mushroom poisoning, ciguatera, paralytic shellfish poisoning, a rare disease, or a case of a disease that can be definitely related to ingestion of a food can be considered as an incident of foodborne illness and warrants further investigation.

Gestational age: Number of completed weeks elapsed between the first day of the last normal menstrual period and the date of delivery or clinical estimate.

Homicide: Death due to injury purposefully inflicted by other individuals (ICD-10 codes, X85-Y09), death from injuries resulting from legal intervention (homicide committed by law enforcement officers; ICD-10, codes, code Y87.1).

ICD-10: The International Classification of Diseases, 10th edition. A system for classifying diseases and injuries developed by the World Health Organization and used worldwide to improve comparability of cause of death statistics reported from different countries. The tenth revisions has been in use since January 1, 1999.

Infant: An individual less than one year of age.

Infant death: Death of an individual less than one year of age. Infant deaths are further classified as neonatal deaths and postneonatal deaths. (See also neonatal death and postneonatal death.)

Live birth: The complete expulsion or extraction from its mother of a product of conception, regardless of the duration of the pregnancy, which after expulsion shows any vital signs (heart beat, breathing, umbilical cord pulsation, or movement of voluntary muscles).

Live birth order: Denotes the number position of the present birth relative to previous live births. That is, whether the live birth being counted is the 1st, 2nd, 3rd, etc. live born infant to a particular mother.

Low birthweight: A birth weight less than 2,500 grams or less than 5 pounds, 8 ounces.

Maternal death: The death of a woman resulting from pregnancy or childbearing, while pregnant or within 42 days of termination of pregnancy.

Midyear population: The estimated (except for census data) population at the midpoint of the year, which approximates the average population for the year.

Morbidity: Refers to the occurrence of diseases in a population.

Mortality: Death as a component of population change.

Natality: Birth as a component of population change.

Neonatal death: Death prior to the 28th day of life. (See also infant death.)

Perinatal: Period from 20 weeks gestation through 27 days after birth.

Postneonate: An infant between 28 days and one year of age.

Postneonatal death: Death on or after the 28th day of life and before the first birthday. (See also infant death.)

Preterm birth: Birth at less than 37 completed weeks of gestation.

Race: A geographical population of humankind that possesses inherited distinctive physical characteristics that distinguish it from other populations.

UNK: Unknown.

Years of potential life lost: A measure of the impact of premature mortality on a population. It is calculated as the sum of the differences between some predetermined minimum or desired life span and the age of death for individuals who died earlier than that predetermined age. The desired age is usually set at 65 or 75 in the calculations.

Rates and Formulae

Rates and ratios are calculated for a specific time period, typically a calendar year or a multiple of calendar years.

Age-specific rate: Number of events occurring to a specified age group per 1,000 population of the specified age group:

$$(\text{Number of events in specified age group} / \text{Number in age group}) * 1,000$$

Cause-specific death rate: Number of deaths due to a specific cause per 100,000 population:

$$(\text{Number of deaths from a specified cause} / \text{Estimated midyear population}) * 100,000$$

(Crude) birth rate: Number of live births per 1,000 population:

$$(\text{Number of live births} / \text{Estimated midyear population}) * 1,000$$

Crude death rate: Number of deaths per 1,000 population:

$$(\text{Number of deaths} / \text{Estimated midyear population}) * 1,000$$

Fetal death rate: Number of fetal deaths per 1,000 live births plus fetal deaths:

$((\text{Number of fetal deaths}/(\text{Live births} + \text{fetal deaths})) * 1,000)$

Fertility rate: The number of live births per 1,000 women of reproductive age (15 to 44).

$(\text{Number of live births}/ \text{Female population aged 15-44 years}) * 1,000$

Infant mortality rate: Deaths of individuals less than 1 year of age per 1,000 live births:

$(\text{Number of deaths less than 1 year}/\text{Number of live births}) * 1,000$

Maternal mortality rate: Number of maternal deaths per 100,000 live births:

$(\text{Number of maternal deaths}/\text{Number of live births}) * 100,000$

Neonatal mortality rate: Number of individuals dying at less than 28 days of age per 1,000 live births:

$(\text{Number of deaths among infants less than 28 days old}/\text{Number of live births}) * 1,000$

Post-neonatal mortality rate: Number of infants dying at 28 to 365 days of age per 1,000 live births:

$(\text{Number of deaths among infants 28-365 days old}/\text{Number of live births}) * 1,000$

**Midyear Population Estimates by Age, Race and Sex,
Miami-Dade County 2002**

Age (yrs.)	White			Nonwhite			All		
	Sub-total	Female	Male	Sub-total	Female	Male	Female	Male	Total
0-4	99,921	48,746	51,175	55,796	27,371	28,425	76,117	79,600	155,717
5-9	97,500	47,504	49,996	59,441	29,207	30,234	76,711	80,230	156,941
10-14	100,175	48,854	51,321	63,596	31,408	32,188	80,262	83,509	163,771
15-19	97,694	47,431	50,263	64,189	32,105	32,084	79,536	82,347	161,883
15-17	60,011	29,217	30,794	39,053	19,312	19,741	48,529	50,535	99,064
18-19	37,683	18,214	19,469	25,136	12,793	12,343	31,007	31,812	62,819
20-24	95,422	46,636	48,786	57,124	29,197	27,927	75,833	76,713	152,546
25-29	106,148	52,255	53,893	53,596	27,775	25,821	80,030	79,714	159,744
30-34	116,797	57,585	59,212	52,511	27,315	25,196	84,900	84,408	169,308
35-39	128,385	63,509	64,876	55,242	29,025	26,217	92,534	91,093	183,627
40-44	125,295	62,805	62,490	55,509	29,607	25,902	92,412	88,392	180,804
45-49	112,030	57,430	54,600	49,844	26,828	23,016	84,258	77,616	161,874
50-54	101,097	52,535	48,562	40,703	21,959	18,744	74,494	67,306	141,800
55-59	89,009	46,573	42,436	30,291	16,431	13,860	63,004	56,296	119,300
60-64	77,209	41,206	36,003	23,539	12,858	10,681	54,064	46,684	100,748
65-69	68,485	37,245	31,240	18,383	10,281	8,102	47,526	39,342	86,868
70-74	62,584	34,806	27,778	14,126	8,304	5,822	43,110	33,600	76,710
75-79	52,941	30,751	22,190	9,807	6,044	3,763	36,795	25,953	62,748
80-84	37,301	23,132	14,169	5,742	3,706	2,036	26,838	16,205	43,043
85+	34,331	23,772	10,559	4,854	3,448	1,406	27,220	11,965	39,185
Total	1,602,324	822,775	779,549	714,293	372,869	341,424	1,195,644	1,120,973	2,316,617

Source: Official April 1, 2002 Florida Population from the January, 1999 Florida Demographic Estimating Conference

Selected Health Indicators in Miami-Dade County, Florida and United States, 2000-2002

Birth Rates (per 1,000)	2000			2001			2002			Florida	United States
	White	Nonwhite	All	White	Nonwhite	All	White	Nonwhite	All	2002	2001
Total Population	14.0	14.9	14.3	14.2	14.1	14.2	14.1	13.1	13.8	12.3	14.5
10-17 year-old Women	9.3	14.1	11.2	7.8	12.2	9.5	7.3	11.1	8.8	9.3	9.8
18-19 year-old Women	66.1	82.1	72.9	66.3	78.7	71.7	60.6	74.9	66.6	76.2	75.5
15-44 year-old Women	66.4	58.8	64.1	67.8	56.2	63.9	68.3	53.4	63.5	62.3	66.9
Infant and Maternal Health											
Low Birthweight (<2500 grams) (%)	6.4	11.2	7.9	6.1	11.1	7.6	6.5	11.8	8.1	8.4	7.7
Very Low Birthweight (<1500 grams) (%)	1.1	2.4	1.6	1.1	2.9	1.6	1.2	2.6	1.6	1.6	1.4
Preterm Births (<37 weeks) (%)	8.8	13.6	10.3	8.2	12.8	9.6	8.3	13.2	9.7	N/A***	11.9
Receiving Prenatal Care in the First Trimester (%)	89.7	78.6	86.2	91.4	79.8	87.8	92.1	81.6	89.0	84.4	83.4
Births to Teens Aged 10-17 Years (%)	3.2	6.9	4.4	2.7	6.3	3.8	2.5	6.0	3.5	3.8	3.8
Births to Teens Aged 18-19 Years (%)	5.2	10.1	6.7	5.2	10.1	6.7	4.9	10.2	6.4	7.7	7.5
Infant Mortality (per 1,000 live births)	4.4	7.6	5.8	4.0	10.1	5.8	4.3	9.9	5.9	7.5	6.9
Neonatal Mortality (per 1,000 live births)	3.2	5.4	3.9	2.6	6.6	3.8	3.3	5.7	4.0	5.0	4.6
Postneonatal Mortality (per 1,000 live births)	1.2	3.2	1.8	1.3	3.5	2.0	1.0	4.1	1.9	2.5	2.3
Fetal Mortality*	6.6	14.7	9.3	6.4	12.9	8.6	6.4	13.9	8.7	7.7	N/A***
Maternal Mortality (per 100,000 live births)	18.2	19.7	18.6	4.4	51.0	18.5	13.3	42.3	21.8	9.7	10.0
Mortality											
Crude Mortality (per 100,000)	952.9	512.8	819.5	974.3	551.2	833.0	913.7	472.8	777.7	1003.8	849.0
Age-Adjusted Mortality (per 100,000)	773.5	777.5	792.8	787.0	767.0	799.8	735.0	695.7	742.1	790.0	850.0

* Fetal Deaths per 1,000 live births plus fetal deaths

***N/A: Data not available