

Differences in the Health Status Among Ethnic Groups Arizona, 1999



Public Health Services

Bureau of Public Health Statistics
Office of Epidemiology and Statistics

~ Leadership for a Healthy Arizona ~



**Jane Dee Hull, Governor
State of Arizona**

**Catherine R. Eden, Director
Arizona Department of Health Services**

**OFFICE OF EPIDEMIOLOGY AND STATISTICS
BUREAU OF PUBLIC HEALTH STATISTICS
ARIZONA DEPARTMENT OF HEALTH SERVICES**
2700 North 3rd Street, Room 4075
Phoenix, Arizona 85004
Phone: 602/542-1216; FAX: 602/542-2940
<http://www.hs.state.az.us/plan/index.htm>

**This publication can be made available in alternative format.
Please contact the Office of Epidemiology and Statistics
at 602/542-1216 (voice) or call 1-800-367-8939 (TDD).**

***Permission to quote from or reproduce materials from this
publication is granted when due acknowledgment is made.***

Differences
in the Health Status
Among Ethnic Groups,
Arizona, 1999

by

Christopher K. Mrela, Ph.D., Assistant Registrar of Vital Statistics
Trentham Coe, Senior Research Data Analyst

January 2001

Differences in the Health Status Among Ethnic Groups, Arizona, 1999

Table of Contents

| | |
|---|----------------|
| Purpose..... | 1 |
| Demographic Profile of Arizona Ethnic Diversity | 1 |
| Methods | 2 |
| Key Findings | 2 |
| FIGURES..... | 5 |
| 1. Teen Pregnancies | 7 |
| 2. Maternal Lifestyle and Health Characteristics..... | 13 |
| 3. Utilization of Prenatal Care Services..... | 25 |
| 4. Newborn's Health | 31 |
| 5. Mortality from Natural Causes | 43 |
| 6. Mortality from Injuries | 65 |
| 7. Age-Specific Mortality..... | 75 |
| 8. Patterns of Premature Mortality | 81 |
| 9. The Incidence of Reportable Diseases | 87 |
| RATES AND RATIOS FOR 1999 | 95 |
| SCORES IN 1999 | 101 |
| RANKING ORDER IN 1999..... | 107 |
| COMPARATIVE RATES AND RATIOS FOR 1995, 1997 AND 1999 | 113 |
| DATA SOURCES AND DEFINITIONS | 121 |
| Sources of Data..... | 123 |
| Definitions | 123 |
| Terms Related to Reproductive Health | 123 |
| Terms Related to Mortality..... | 124 |
| Medical Terms Used on the Birth Certificate..... | 125 |
| POPULATION DENOMINATORS..... | 127 |

PURPOSE

The report *Differences in the Health Status Among Ethnic Groups, Arizona, 1999* is the update* of population-level data about differences in the relative health of five ethnic groups residing in Arizona: White non-Hispanics, Hispanics, Blacks (or African-Americans), American Indians and Asians (Asian or Pacific Islanders).

The report compares the relative standing of ethnic groups on 67 indicators or measures of health status. The indicators are presented in a series of simple, self-explanatory bar charts and organized around 9 major subject areas:

(1) TEEN PREGNANCIES, (2) MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS, (3) UTILIZATION OF PRENATAL CARE SERVICES, (4) NEWBORN'S HEALTH, (5) MORTALITY FROM NATURAL CAUSES (CHRONIC OR INFECTIOUS DISEASES), (6) MORTALITY FROM INJURIES, (7) AGE-SPECIFIC MORTALITY, (8) PATTERNS OF PREMATURE MORTALITY and (9) THE INCIDENCE OF REPORTABLE DISEASES.

The report also provides scores and rankings of ethnic groups on each of the 67 health status measures. The comparisons of rates and ratios, as well as scores and rankings are intended to give some sense of the inequalities in the health status among ethnic groups in our State and to stimulate viable initiatives to improve the health of **all** Arizonans.

DEMOGRAPHIC PROFILE OF ARIZONA'S ETHNIC DIVERSITY

In 1999, the White non-Hispanic group in Arizona made up 67.4 percent of the total population statewide, while racial and ethnic minority groups accounted for 32.6 percent.

The White non-Hispanic population increased by 64.1 percent from 1980 to 1999, while Arizona's minority population more than doubled from 697,000 in 1980 to 1,607,000 in 1999 (See p.127: *Population Denominators, Population by Ethnic Group, Arizona Residents, 1980, 1990 and 1999*). The fastest growing ethnic minority groups in Arizona between 1980 and 1999 were Asian (an increase of 322 percent), followed by Hispanic (139 percent), Black (138 percent) and American Indian (72.2 percent).

Compared with the White non-Hispanic majority, the ethnic minority groups have had greater percentages of people younger than 25 years (48.6 vs. 29.9 percent). In contrast, people aged 65 years and older accounted for 17.9 percent of White non-Hispanics, but only 5.9 percent of all ethnic minority groups combined.

* Prior editions of this report were published for the 1995 and 1997 data years. This report uses the same methodology as 1997 edition, so that all scores and ranks are directly comparable. In addition, all rates and ratios are comparable for 1995, 1997 and 1999 (see p. 113 *Comparative Rates and Ratios for 1995, 1997 and 1999*).

METHODS

The 67 indicators presented in this report are individual measures of the various dimensions or facets of health status. By calculating overall scores and rankings it is possible to provide a summary measure representing a relative standing of each ethnic group on a broad range of health status issues.

Scores indicate the percentage an ethnic group is above or below the statewide average. Each score is calculated as follows:

$$\text{SCORE} = \left[\frac{\text{THE VALUE OF A RATE OR RATIO IN A SPECIFIED GROUP}}{\text{THE AVERAGE VALUE OF A RATE OR RATIO FOR THE STATE}} - 1.0 \right] \times 100$$

Scores may have positive (+) or negative (-) values. The above formula produces a score of 0.0 for a group with the same value as the statewide average. A negative score indicates better than average standing on an indicator.

The age-adjusted mortality rates presented in section 5 and section 6 of this report were computed by the direct method, i.e. by applying the age-specific death rates to the standard population distributed by age. The total U.S. population as enumerated in 1940 was selected as the standard.

KEY FINDINGS

In 1999, as in 1997, Arizona's Asian residents ranked best among ethnic groups in the overall health status, followed by White non-Hispanics, Hispanics, American Indians and Blacks.

BLACKS

Average rank: 4.1*

Average score: +60.5**

Arizona Black residents had the lowest rank of overall health status because they ranked 5th of 4th among the five ethnic groups on 49 of 67 measures (see Figure A). High infant mortality rate, high ratios of low birthweight and very low birthweight births, high incidence of many reportable diseases, high mortality rates for almost all of the leading causes of death and high rate of premature death all lowered the ranking for this population group.

However, Blacks experienced an improvement in overall score from 71.9 in 1997 to 60.5 in 1999. This decrease in scores reflects substantial declines in age-adjusted mortality rates for HIV infection (which dropped 50.3 percent between 1997 and 1999), septicemia (44.5 percent), alcoholism (41 percent), firearm-related injuries (23.5 percent) and cancer (13.2 percent).

* The average rank based on all 67 measurements (the sum of the ranks divided by 67 measurements. Ranks range between 1 = the highest rank of health indicators and 5 = the lowest rank of health indicators). See section RATES AND RATIOS, p.95.

** The average score based on all 67 measurements (the sum of all scores divided by 67 measurements). See section SCORES, p.101.

AMERICAN INDIANS

Average rank: 3.8

Average score: +61.0

In 1999, American Indians in Arizona had the highest average score among all groups, but second lowest rank of overall health status. They ranked 5th or 4th less often than Blacks (39 times on 67 indicators, Figure A), but they exceeded the statewide averages by a wider margin than any other group (Figure B). American Indians ranked poorly on measures of maternal lifestyle and health as well as in utilization of prenatal care. High infant mortality, alcoholism, diabetes, motor vehicle accidents and mortality from unintentional injuries contributed to the premature death rate. This resulted in the second lowest ranking of American Indians in the relative healthiness among racial and ethnic groups in Arizona.

HISPANICS

Average rank: 3.0

Average score: +7.1

In 1999, as in 1997, Hispanics achieved a 3rd place health ranking, with a score only slightly higher than that of White non-Hispanics. Hispanics ranked in the middle of five groups on 23 of 67 measures of health. They ranked worse than average in poor utilization of early prenatal care, high teen pregnancy rates and high premature mortality. They ranked better than average with low suicide mortality rate, low mortality from unintentional injuries, low alcohol and tobacco use among women giving birth and in total mortality.

WHITE NON-HISPANICS

Average rank: 2.6

Average score: -9.2

White non-Hispanics ranked second best in the relative healthiness among ethnic groups in Arizona. They ranked No.1 or No.2 on 37 of 67 measures of health, including low teen pregnancy rates, high utilization of prenatal care and low premature mortality. However, in the use of tobacco among women giving birth and in mortality rates for chronic obstructive pulmonary disease, lung cancer and Alzheimer's disease, White non-Hispanics ranked worst among ethnic groups.

ASIANS

Average rank: 1.5

Average score: -46.3

Many factors contributed to Asians' No.1 relative health ranking. They ranked best or second best among ethnic groups on 63 of 67 indicators, including measures of maternal lifestyle and health, cause-and-age-specific mortality and in low incidence of reportable diseases. Asians ranked second best in utilization of prenatal care services and second with a low rate of premature death. The average score of Arizona Asian residents improved from -42.8 in 1997 to -46.3 in 1999.

Figure A
Number of Times Each Group Ranked Better Than Average, Average, and Worst Than Average on 67 Indicators, Arizona, 1999

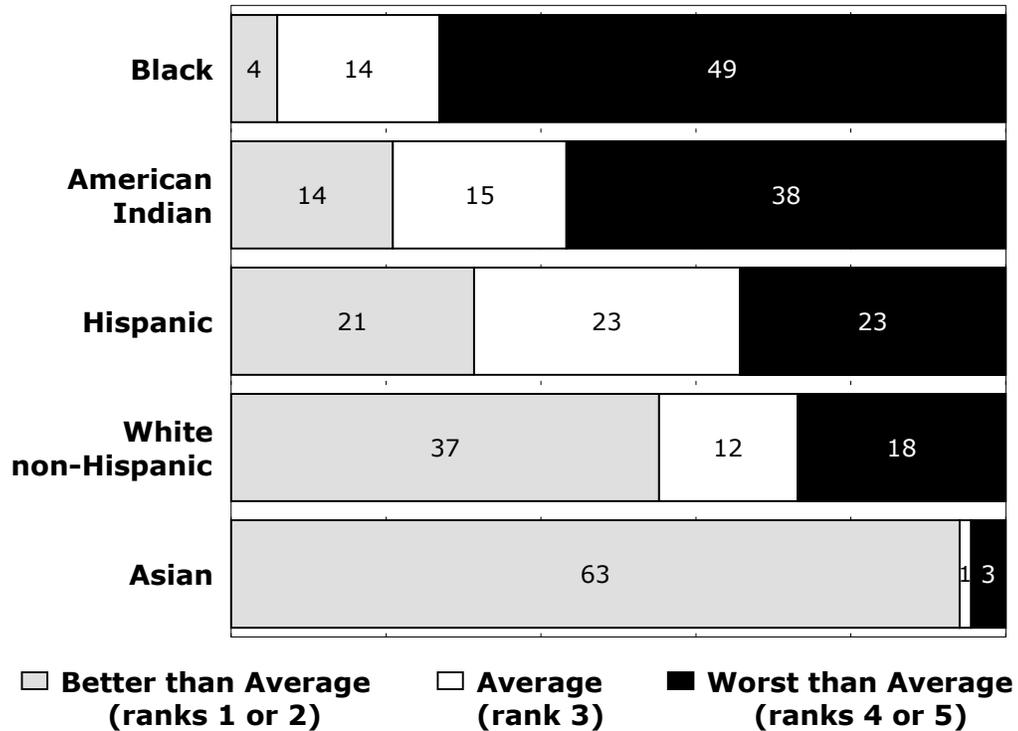
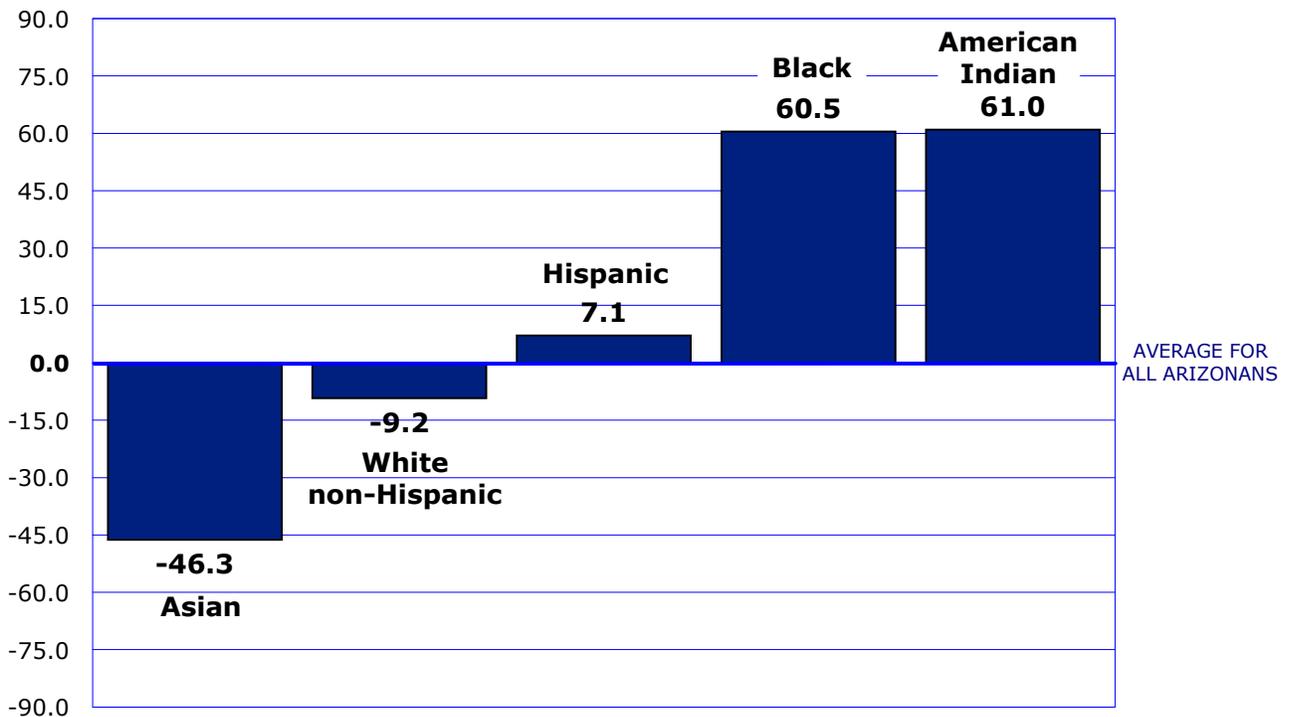


Figure B
Average Scores in 1999

(A score is a percent above or below the average for all Arizona residents. A negative score indicates better than average standing on an indicator.)



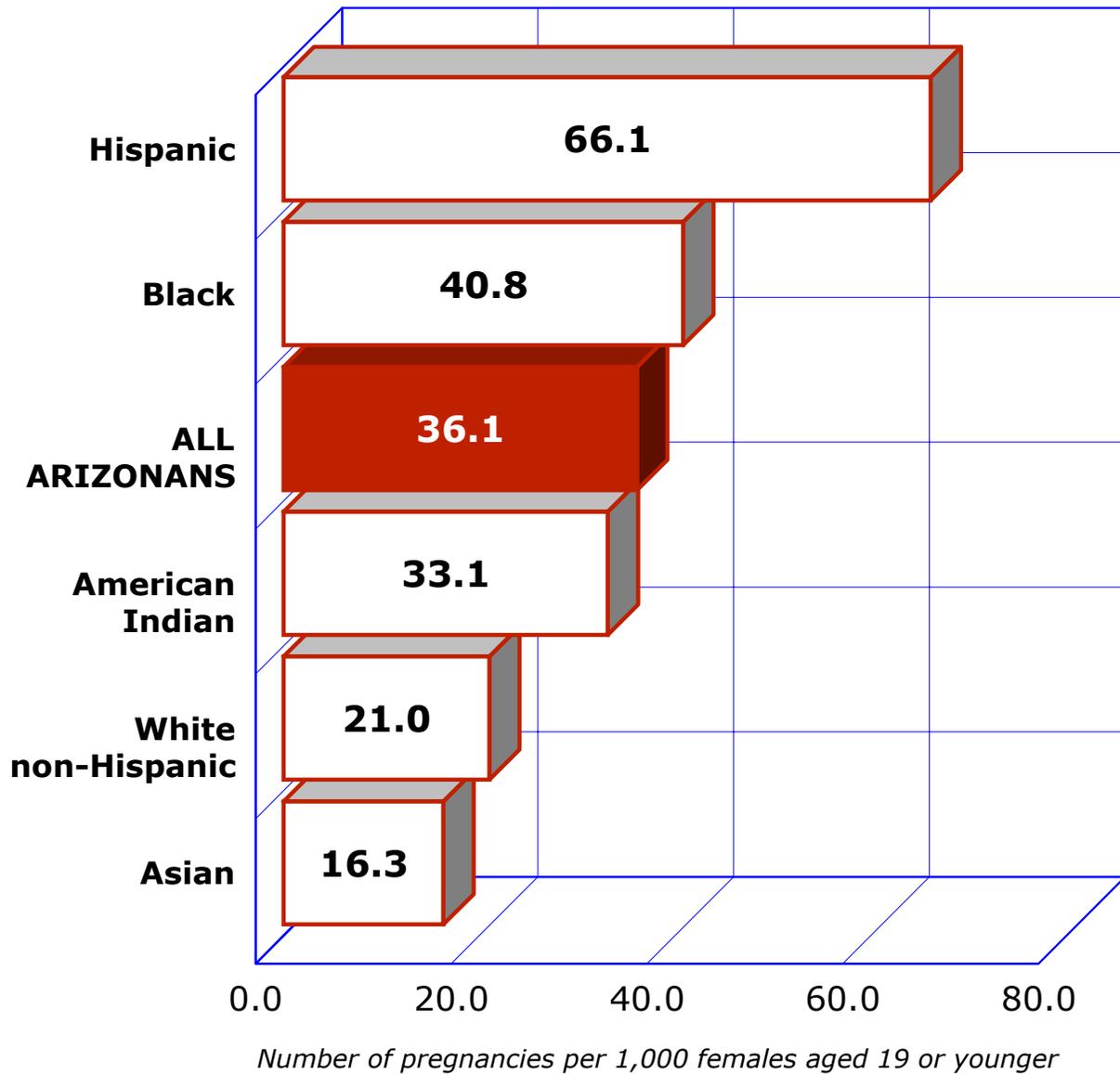
FIGURES

1. Teen Pregnancies

- Females 19 and Younger
- Females 14 and Younger
- Females 15-17 Years Old
- Females 18-19 Years Old

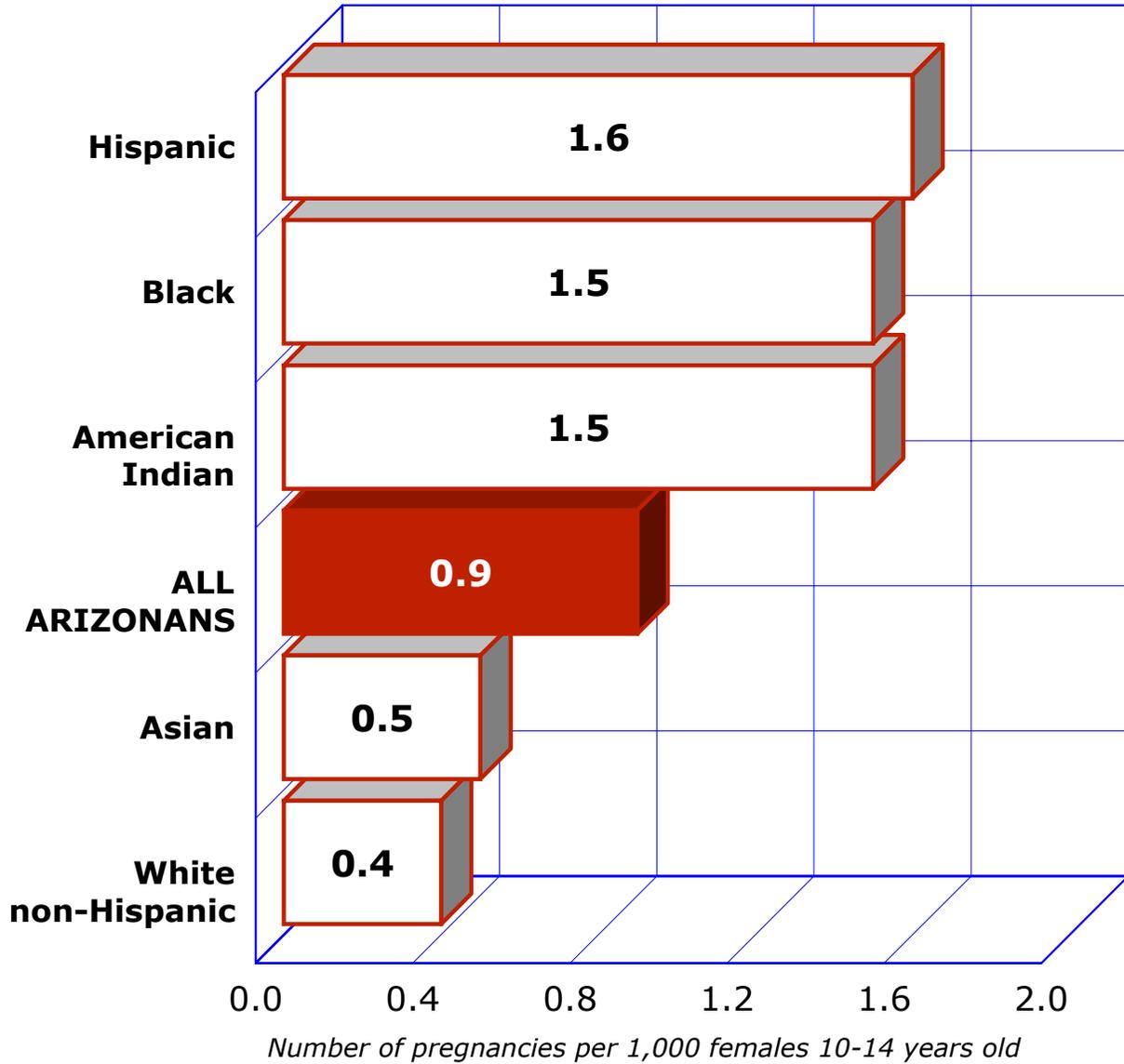
1-1

Pregnancies Among Females Aged 19 and Younger



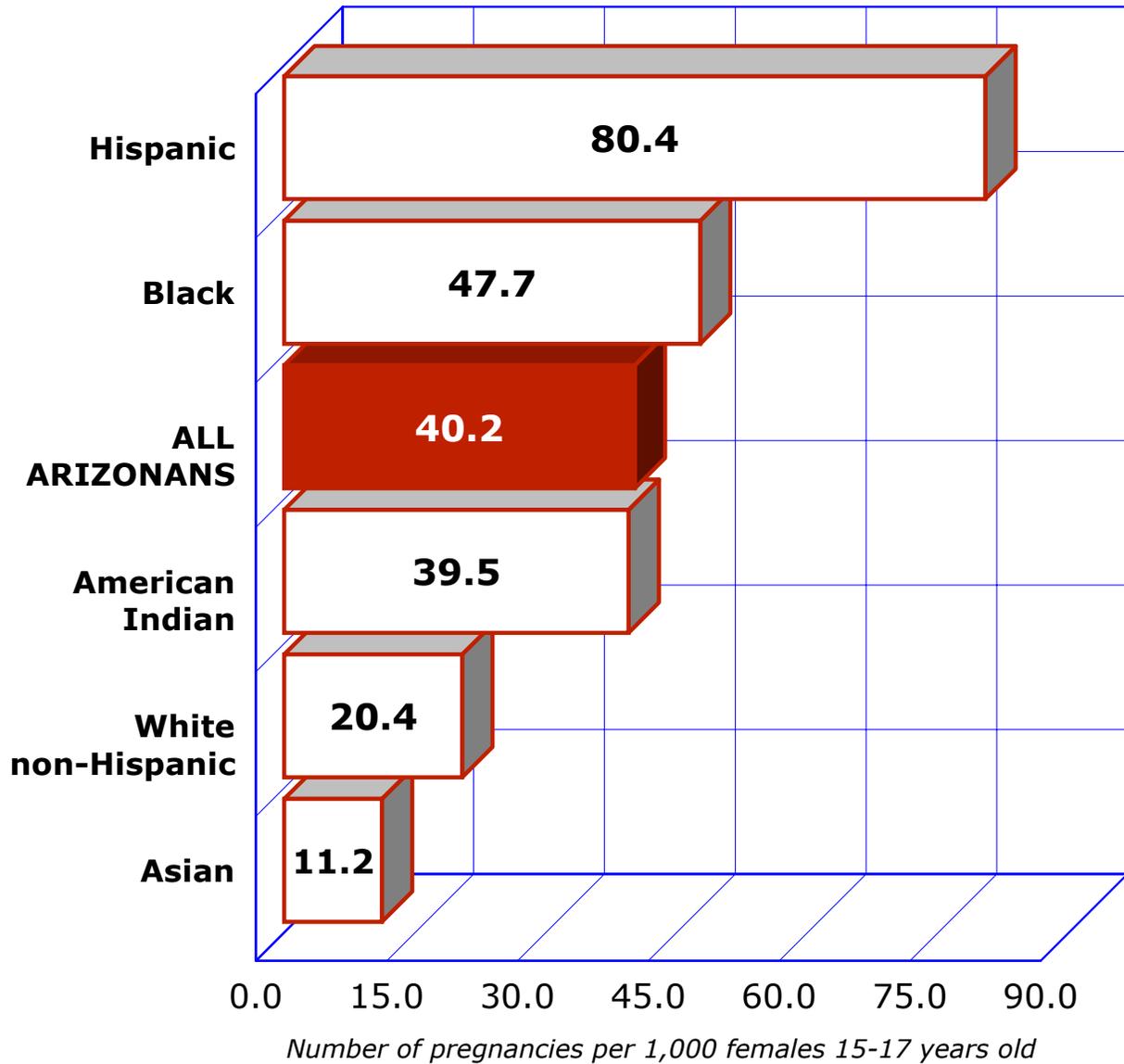
1-2

Pregnancies Among Females 14 and Younger



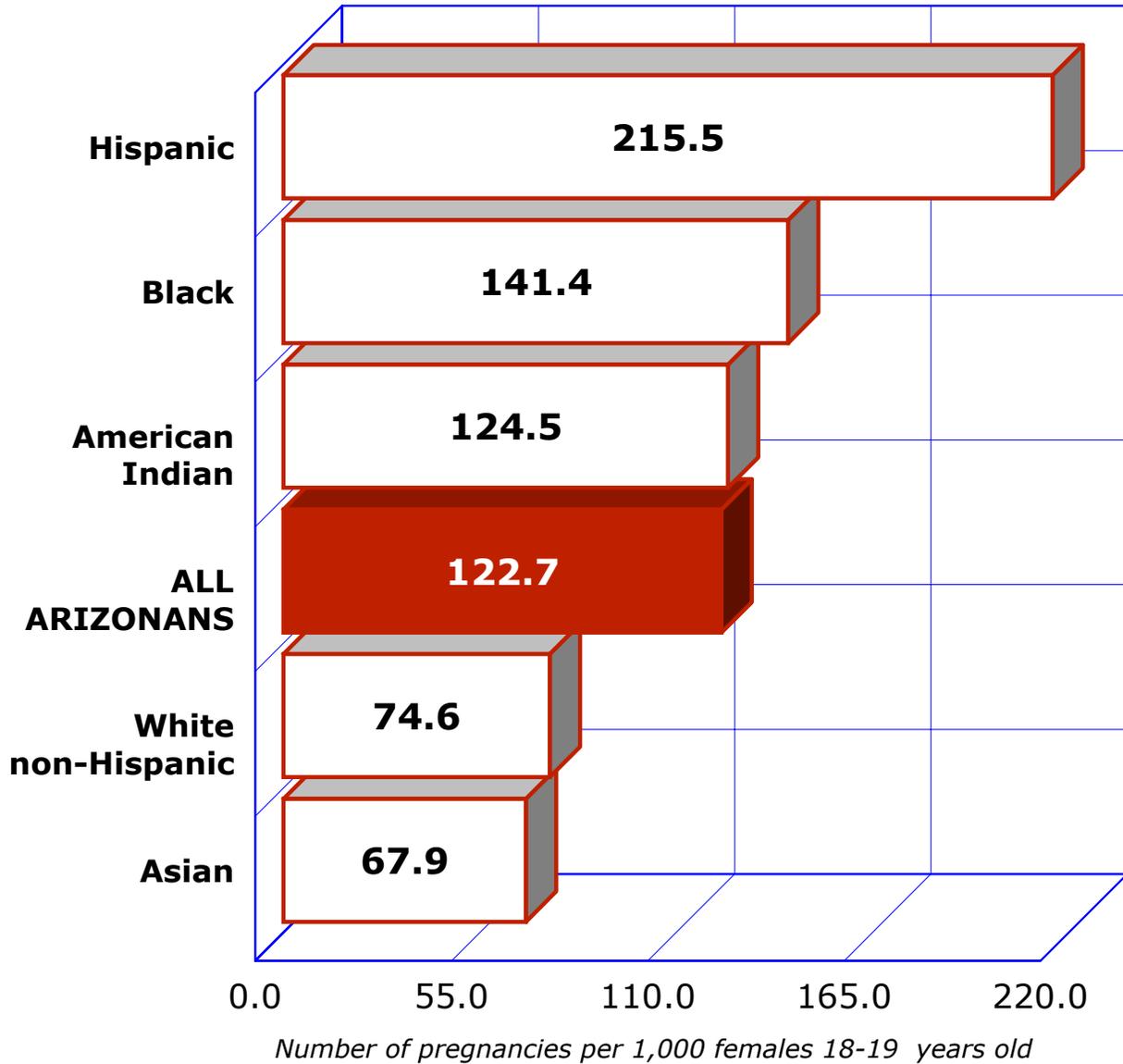
1-3

Pregnancies Among Females 15-17 Years Old



1-4

Pregnancies Among Females 18-19 Years Old



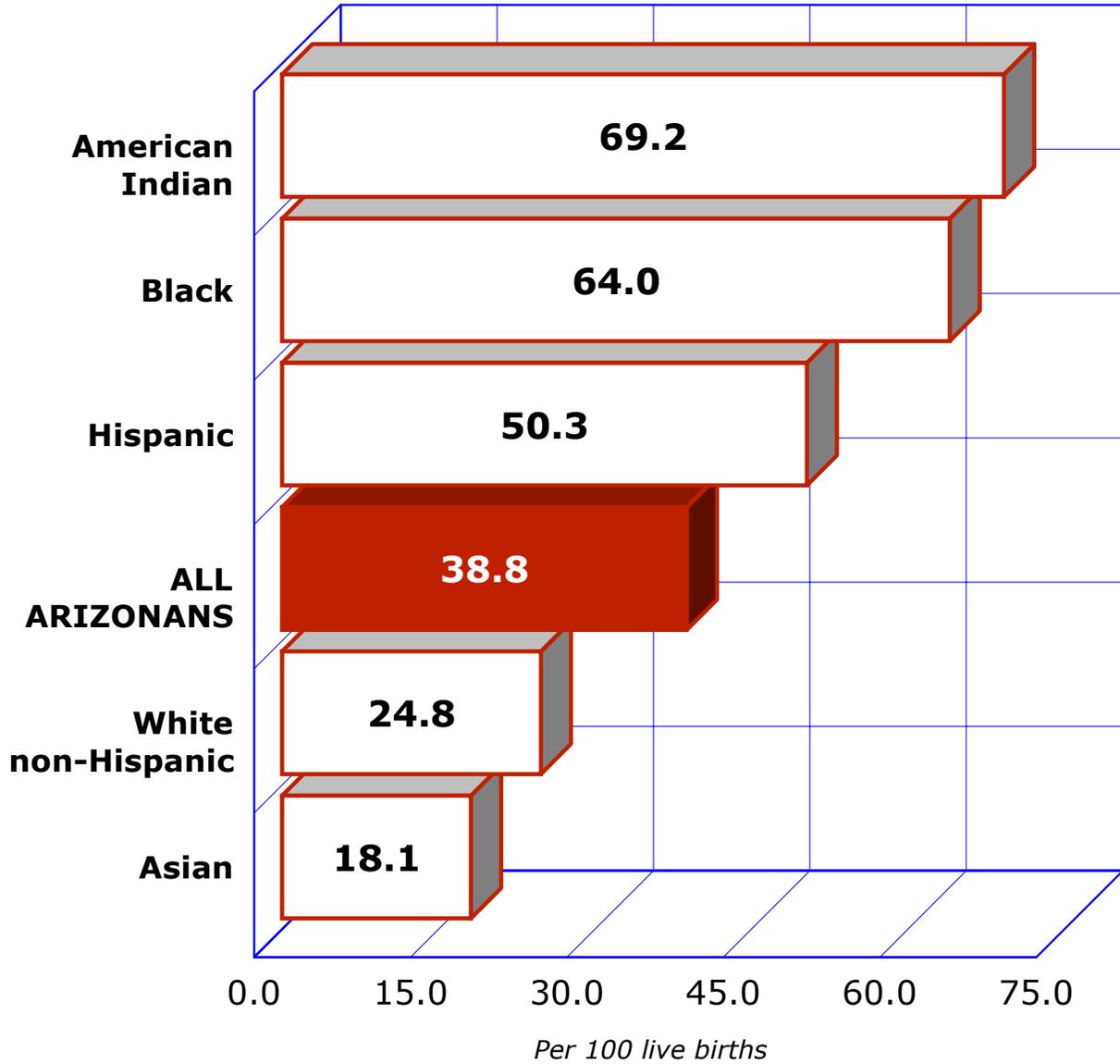
2.

Maternal Lifestyle and Health Characteristics

- Unmarried Mothers**
- Tobacco Use During Pregnancy**
- Alcohol Use During Pregnancy**
- The Incidence of Chronic Hypertension**
- Dysfunctional Labor**
- The Incidence of Anemia During Pregnancy**
- The Incidence of Diabetes**
- The Incidence of Pregnancy-Associated Hypertension**
- The Incidence of Genital Herpes**
- Maternal Weight Gain of Less Than 21 Pounds**

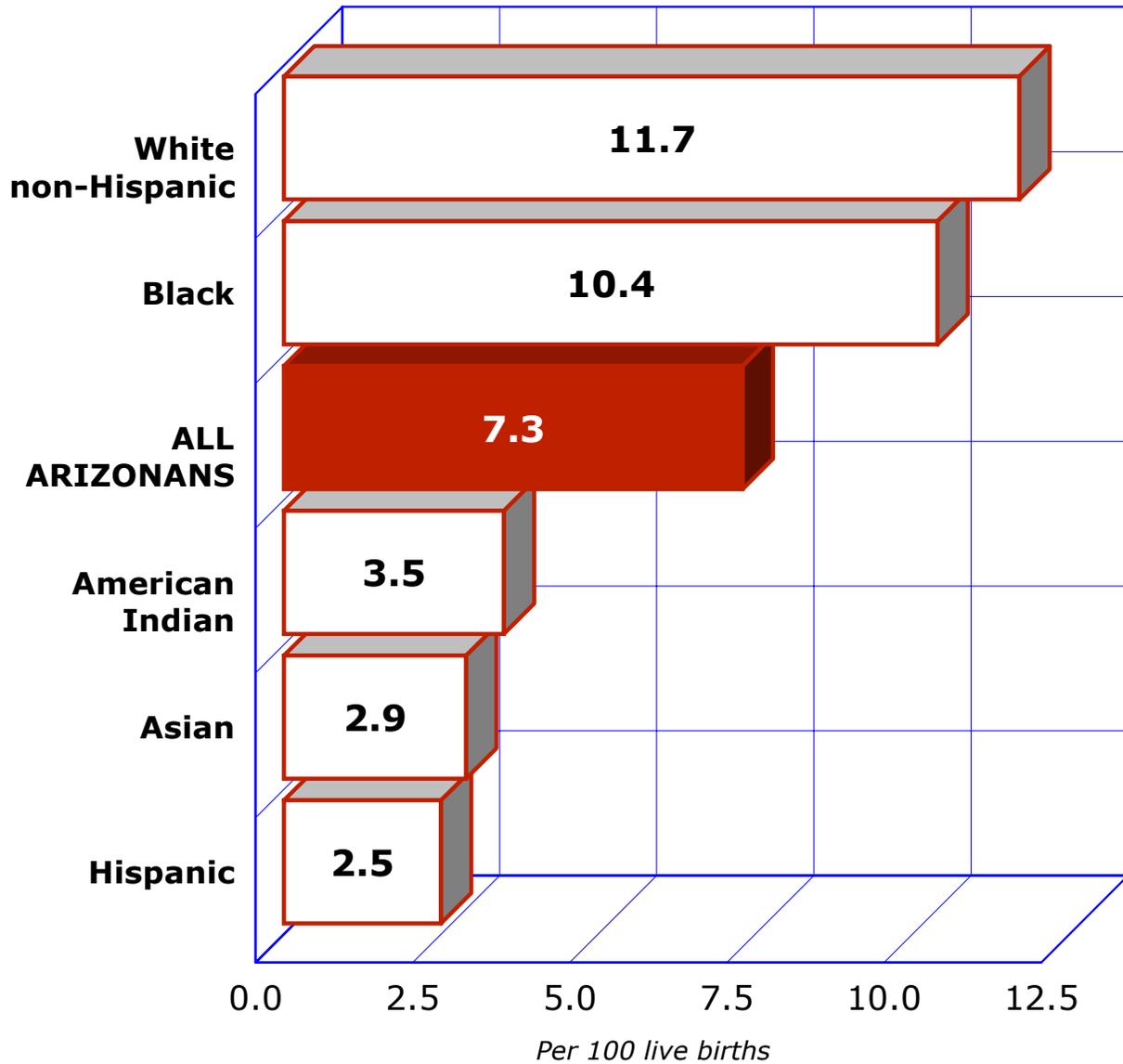
2-1

Unmarried Mothers



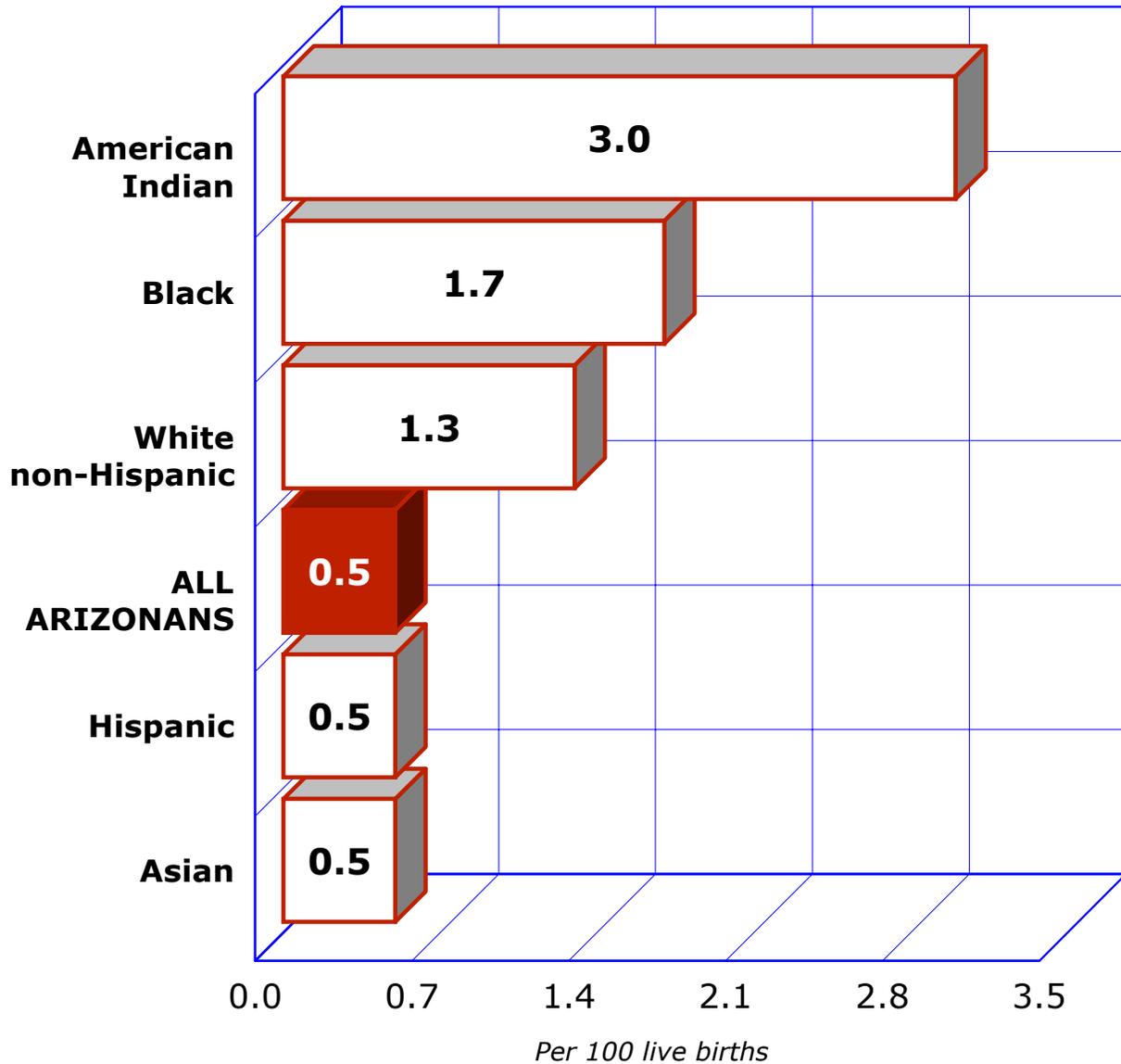
2-2

Tobacco Use During Pregnancy



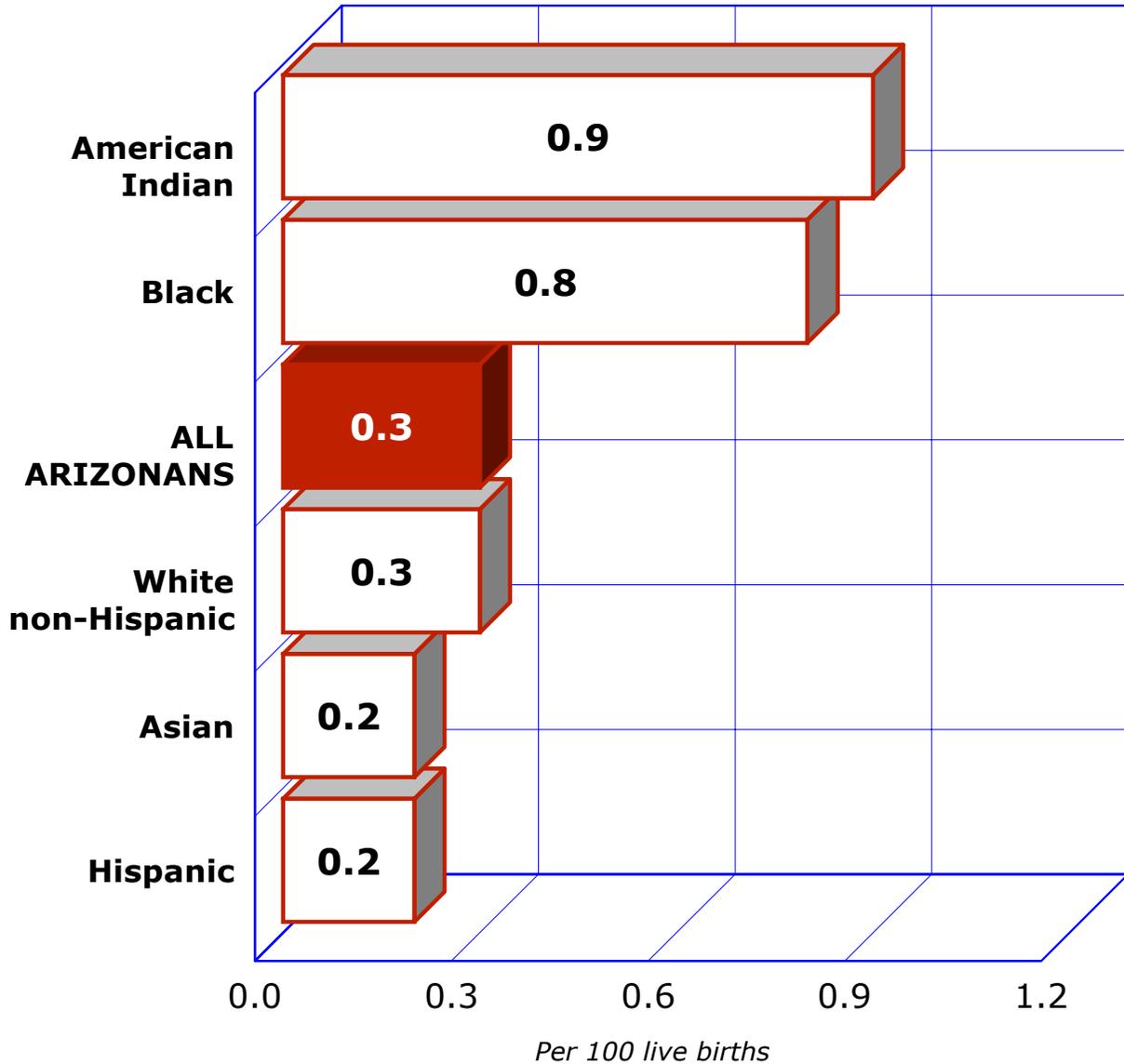
2-3

Alcohol Use During Pregnancy



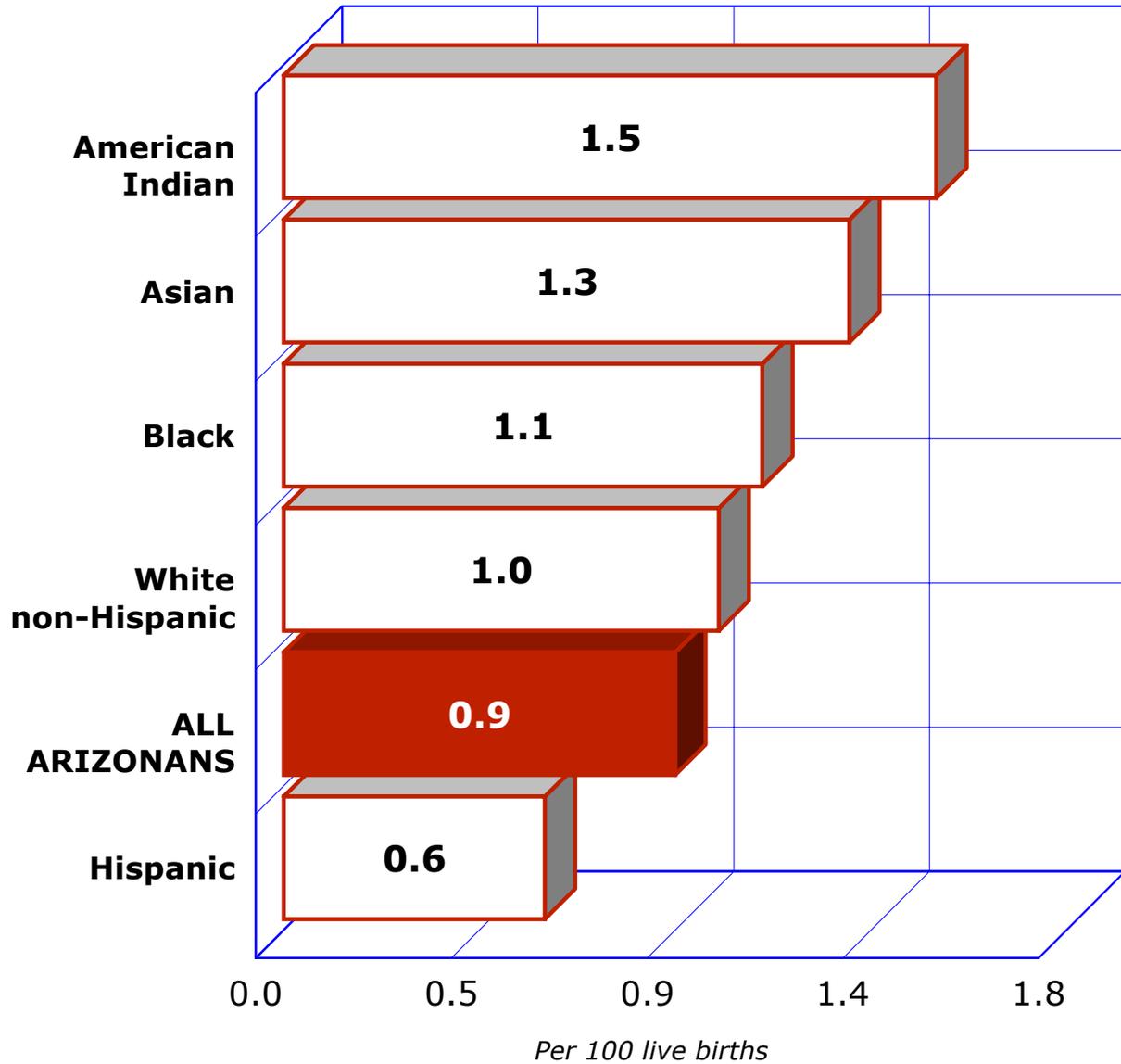
2-4

The Incidence of Chronic Hypertension in Women Giving Birth



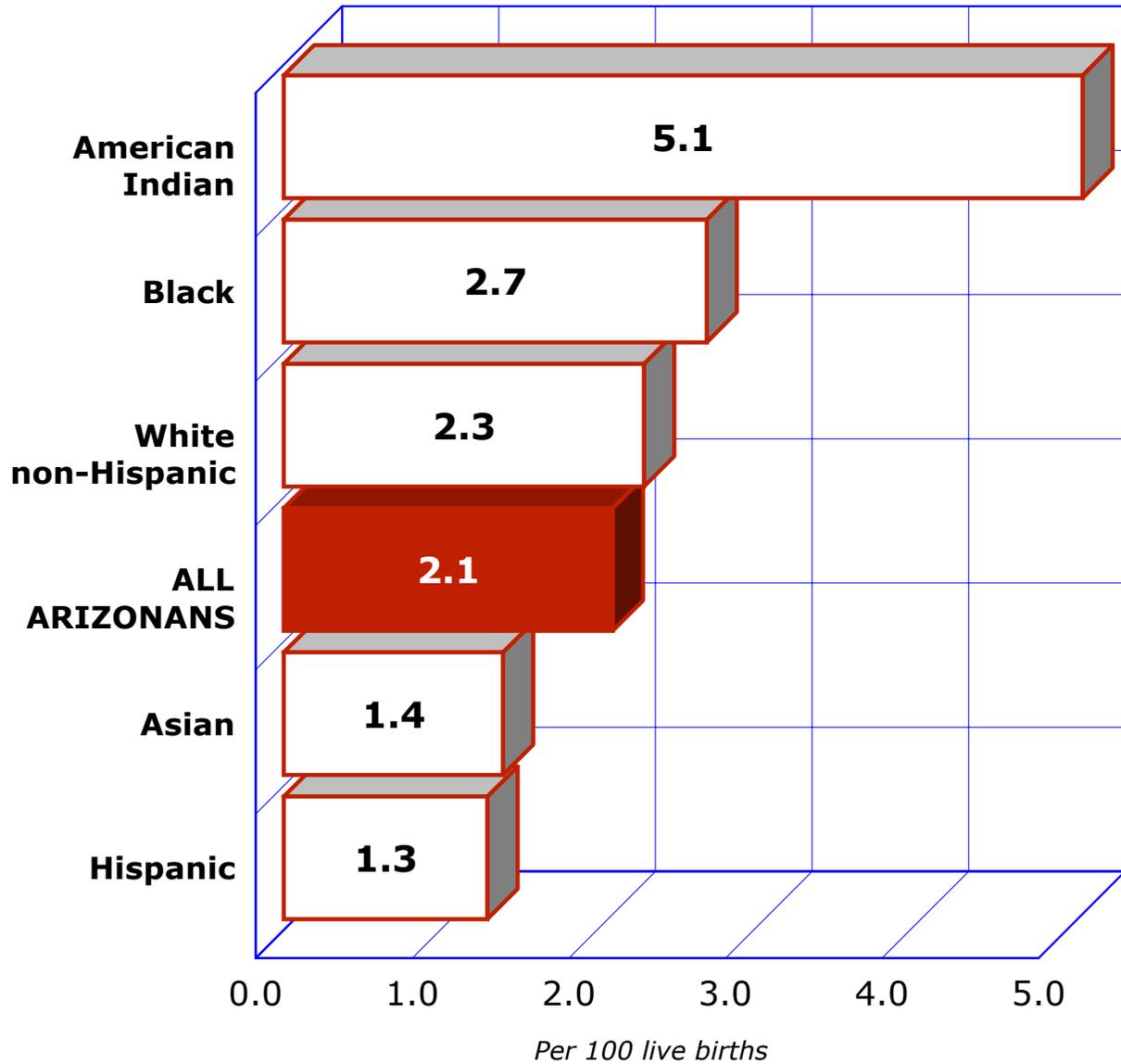
2-5

Dysfunctional Labor



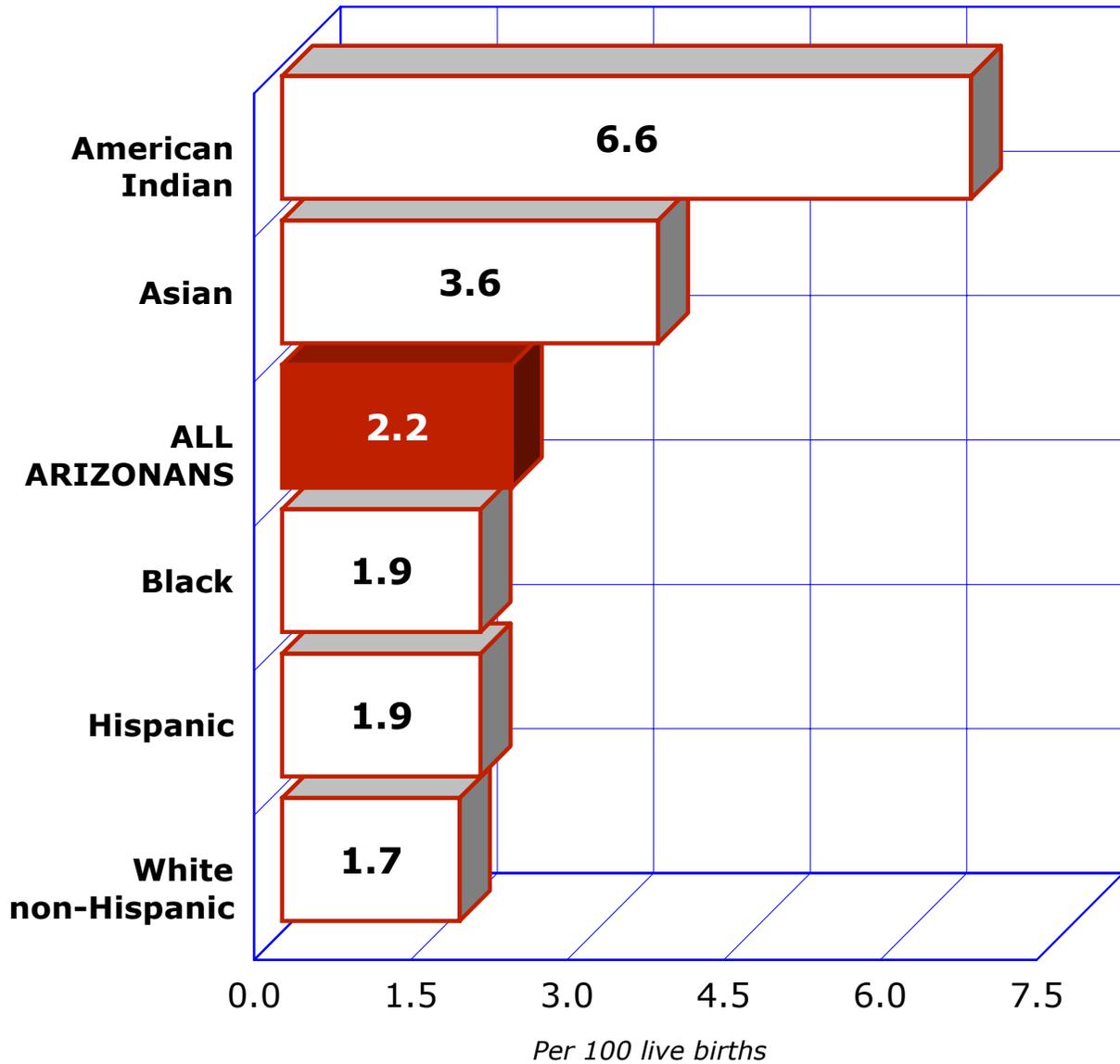
2-6

The Incidence of Anemia During Pregnancy



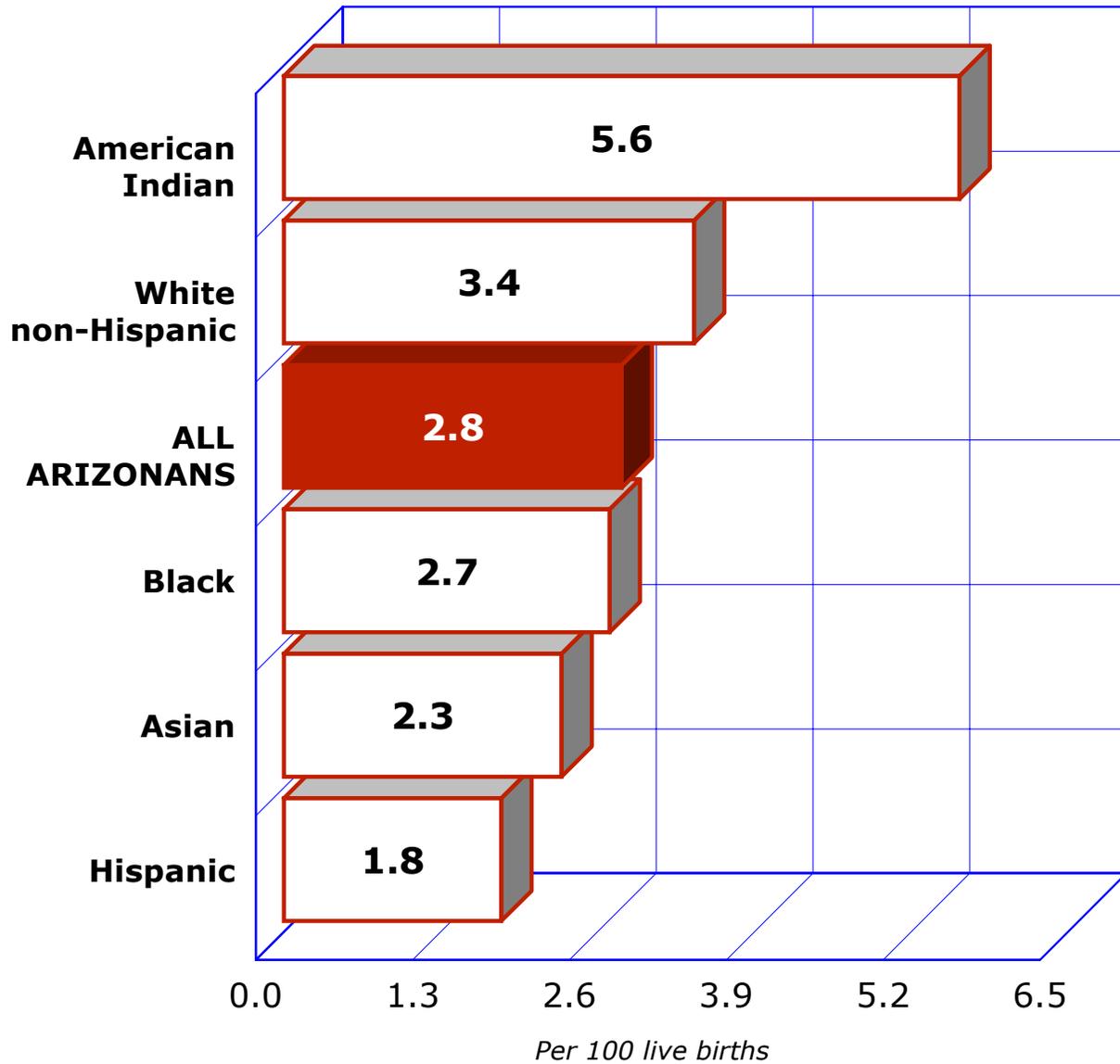
2-7

The Incidence of Diabetes During Pregnancy



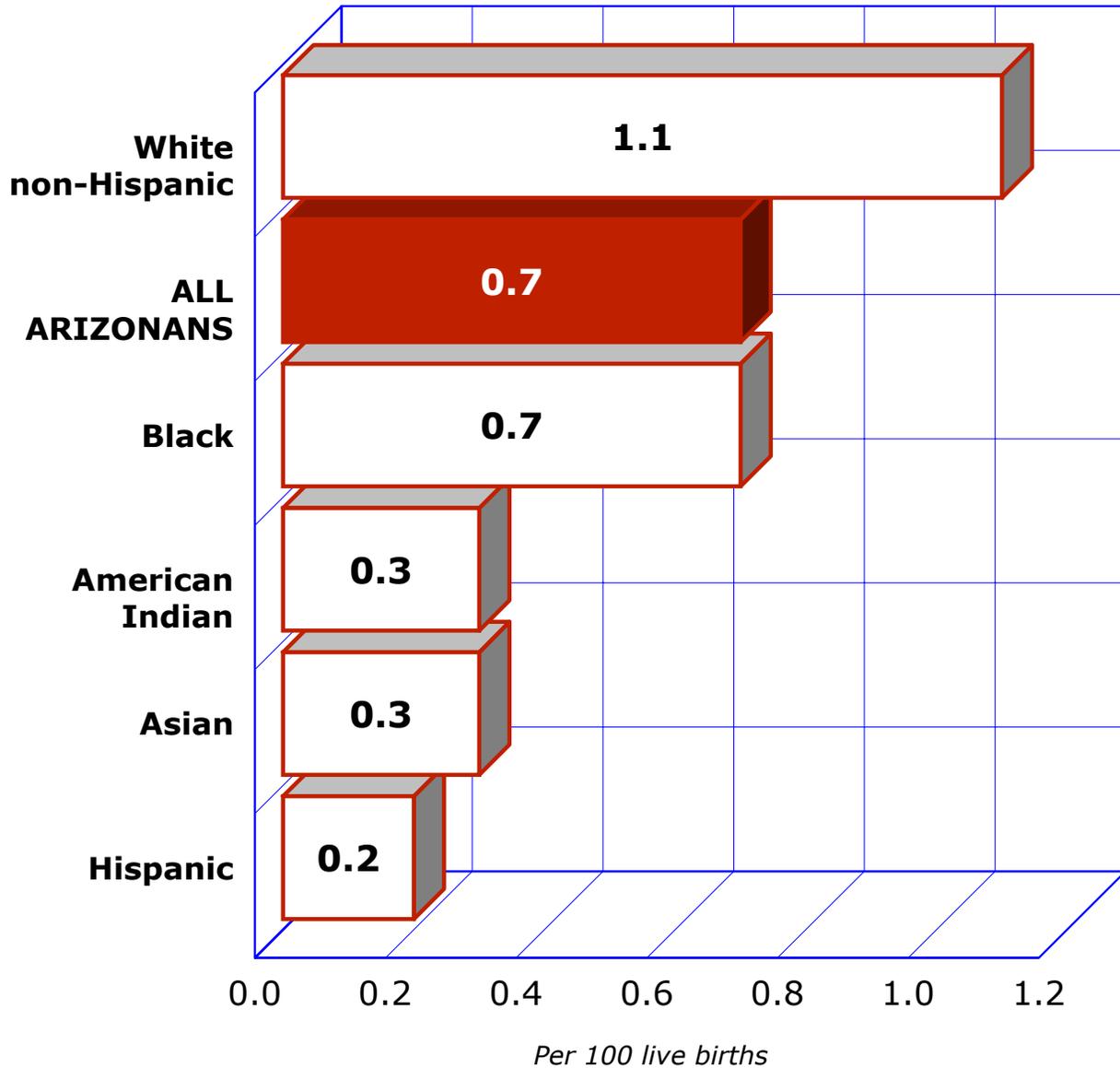
2-8

The Incidence of Pregnancy-Associated Hypertension



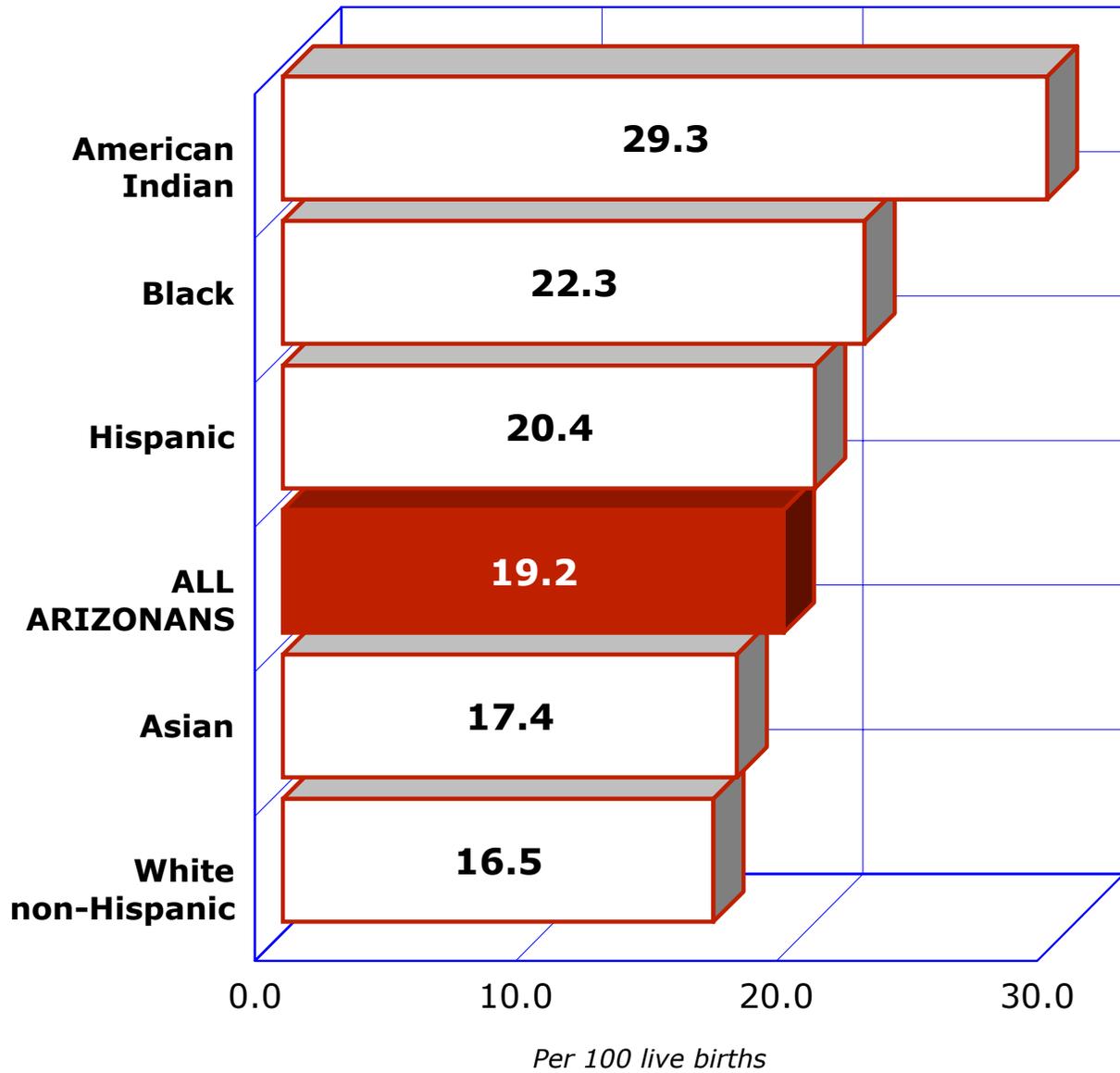
2-9

The Incidence of Genital Herpes During Pregnancy



2-10

Maternal Weight Gain of Less Than 21 Pounds

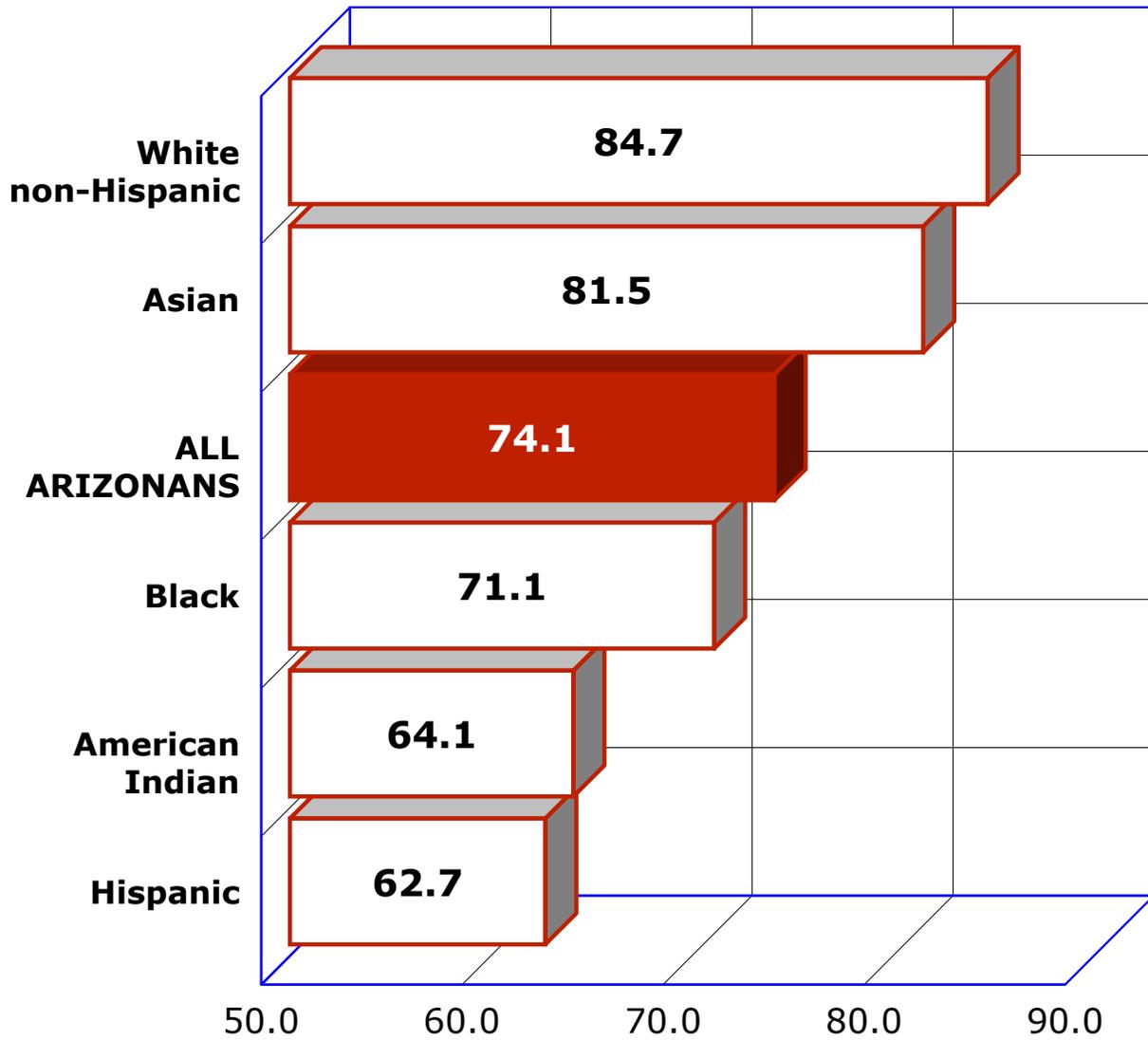


3. Utilization of Prenatal Care Services

- Early Prenatal Care**
- Five or More Prenatal Visits**
- No Prenatal Care**

3-1

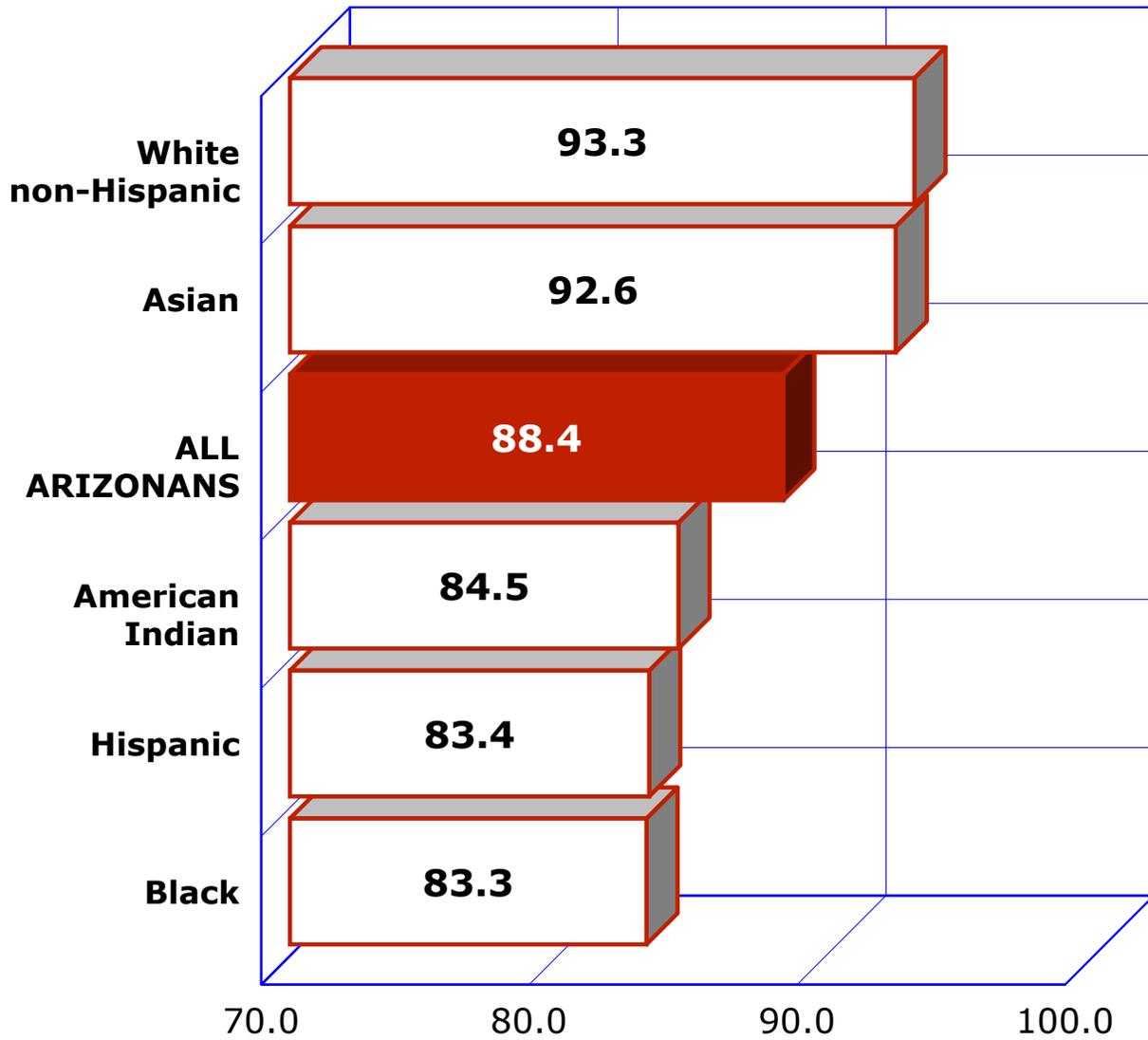
Early Prenatal Care



Women giving birth who received prenatal care in the first trimester of pregnancy per 100 live births in specified group

3-2

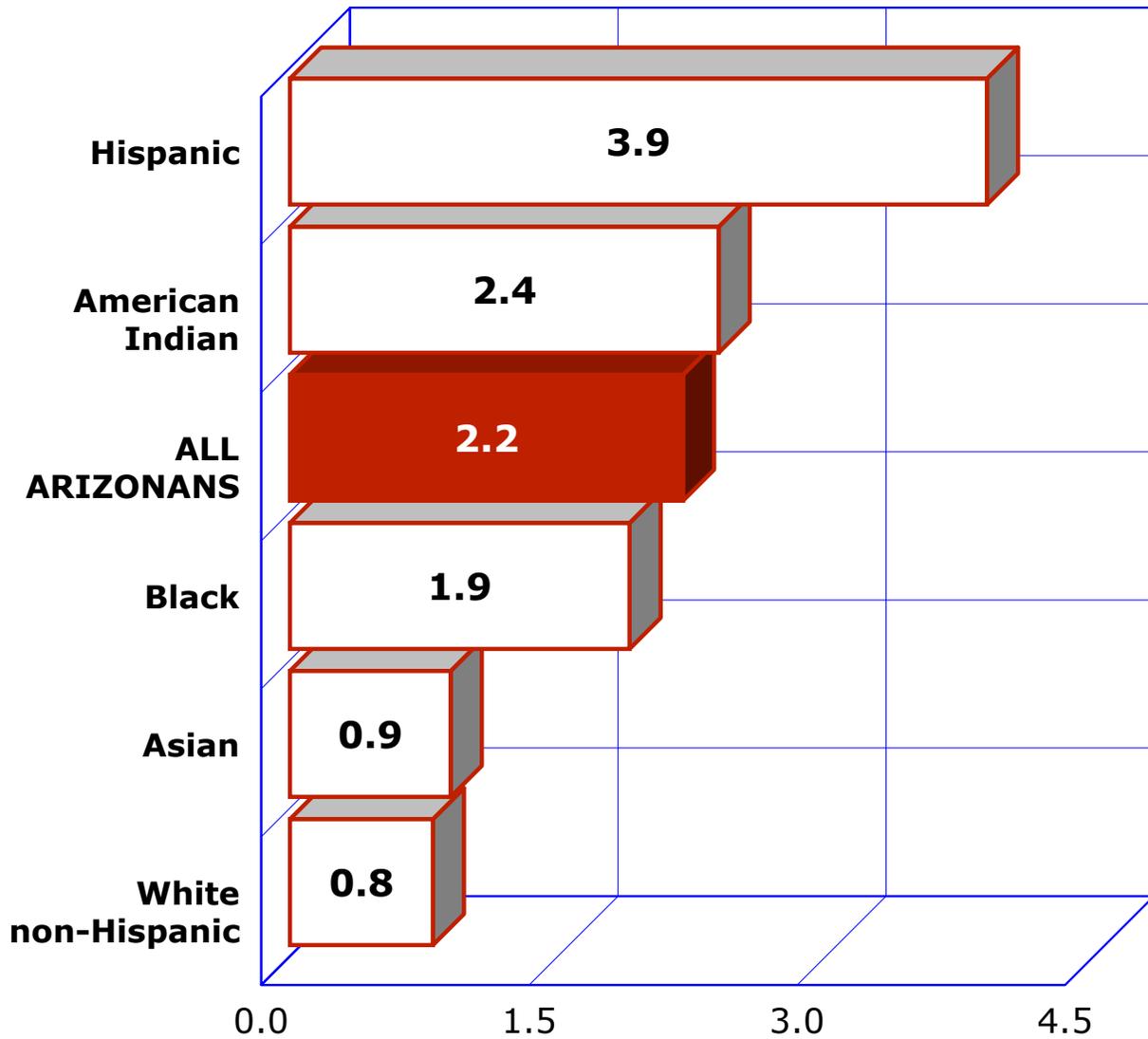
Five or More Prenatal Visits



Women giving birth who had five or more prenatal visits per 100 live births in specified group

3-3

No Prenatal Care

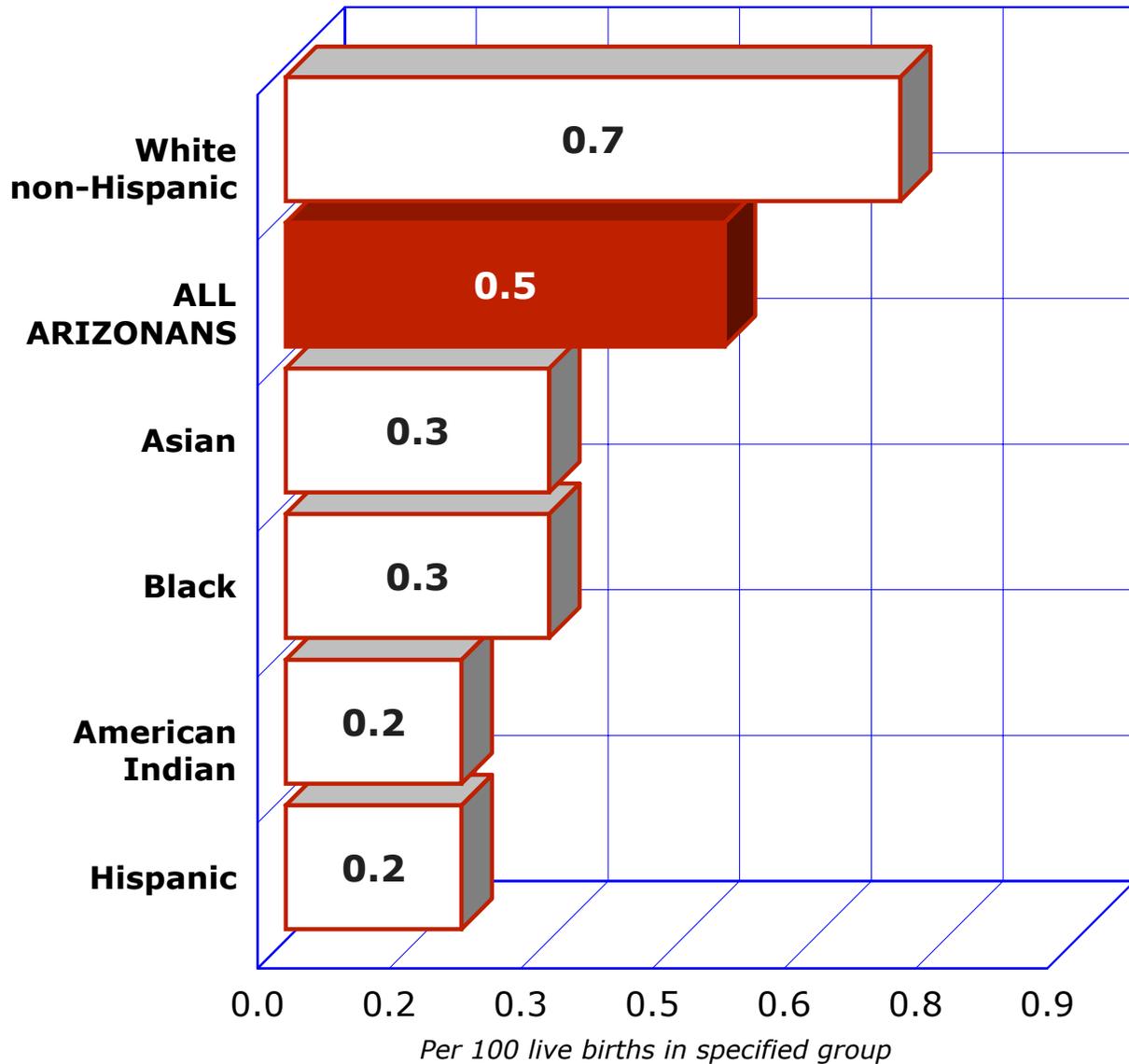


Women giving birth who received no prenatal care per 100 live births in specified group

4.

Newborn's Health

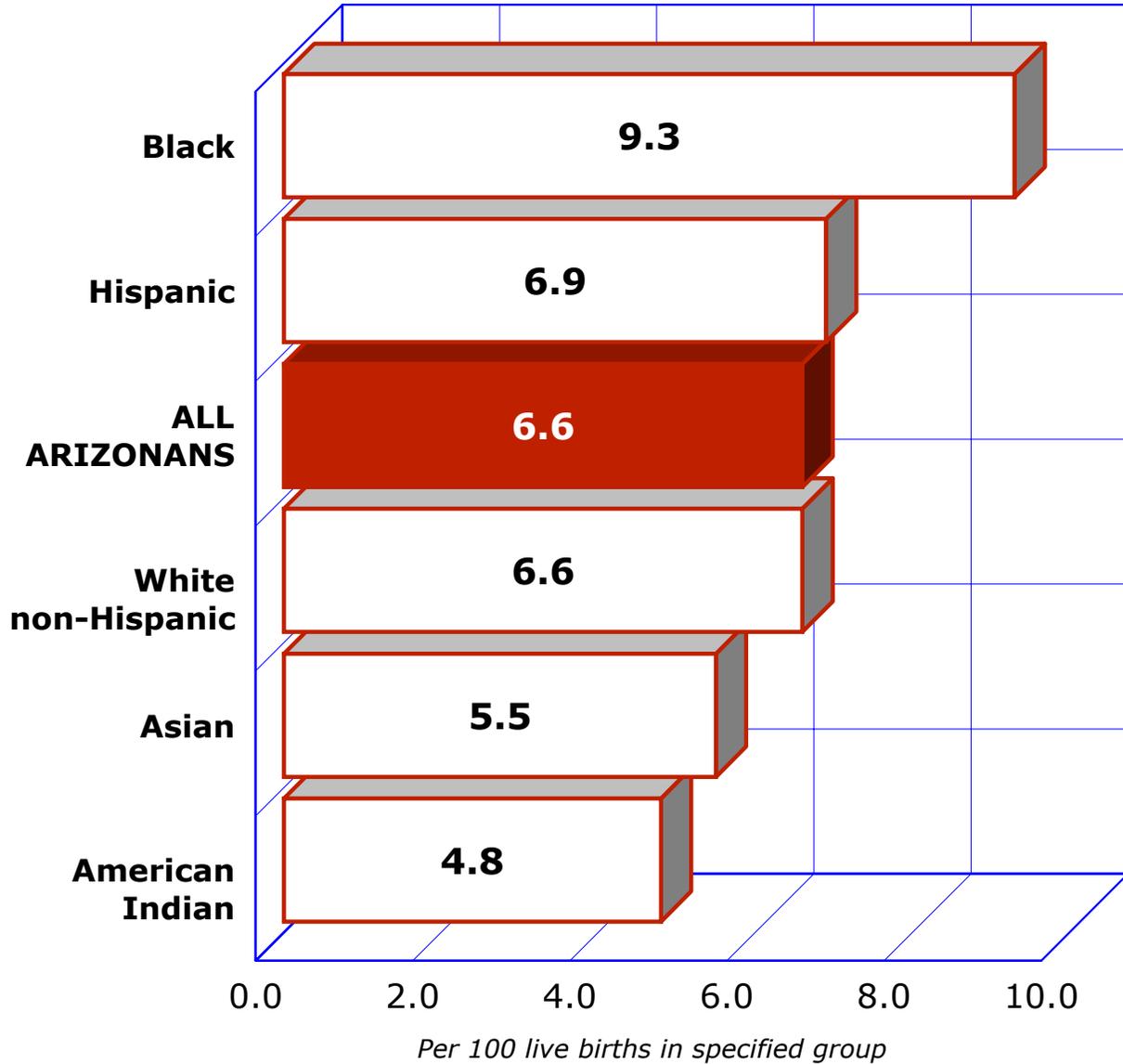
- The Incidence of Hyaline Membrane Disease**
- Newborn Intensive Care**
- The Incidence of Low-Birthweight Births**
- The Incidence of Very Low-Birthweight Births**
- The Incidence of Congenital Anomalies (Birth Defects)**
- Infant Mortality**
- Sudden Infant Death Syndrome**
- Mortality of Infants from Low-Birthweight/Short Gestation**
- Neonatal Mortality**
- Postneonatal Mortality**

4-1**The Incidence of Hyaline Membrane Disease***

* A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

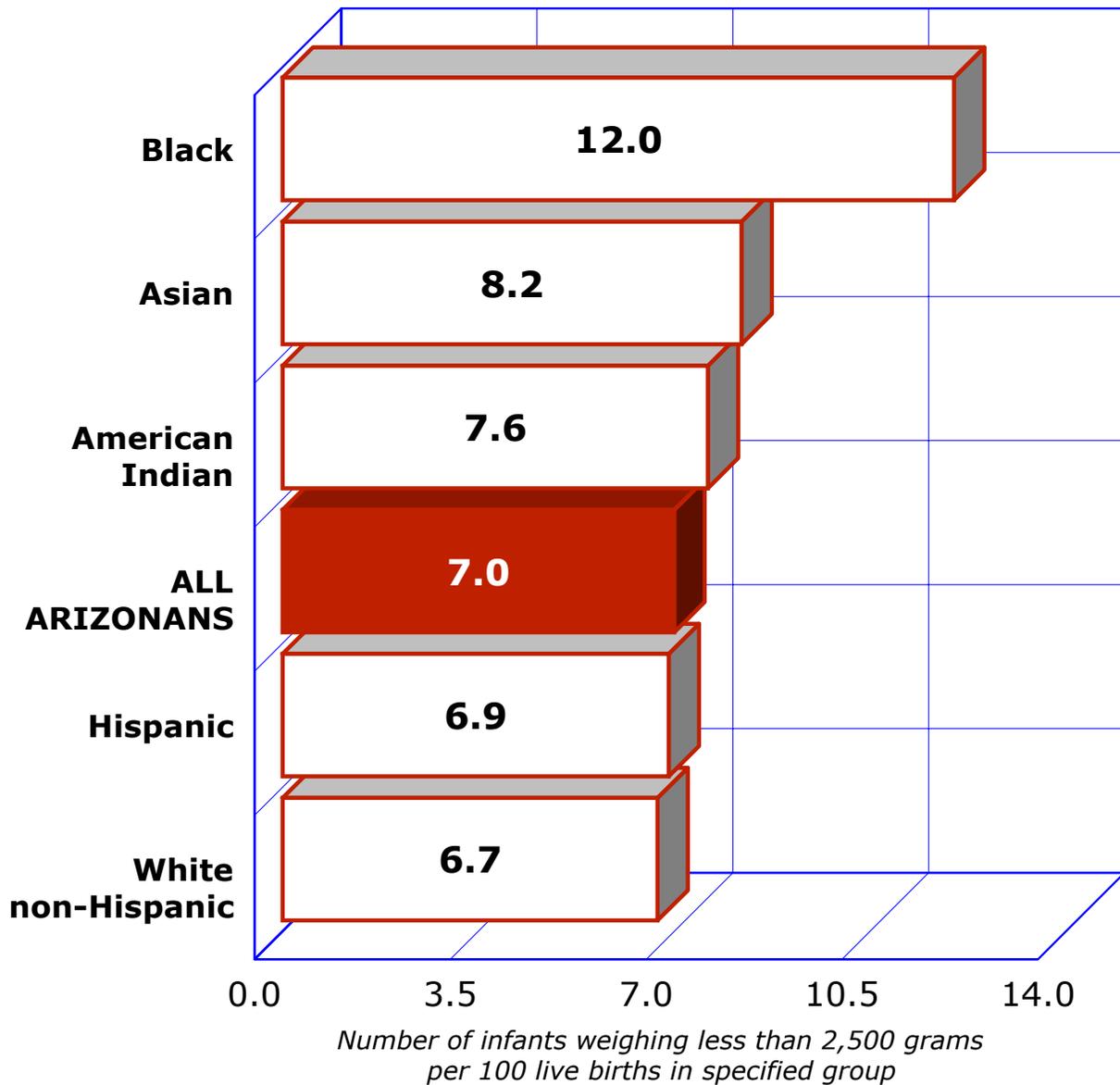
4-2

The Incidence of Newborn Intensive Care



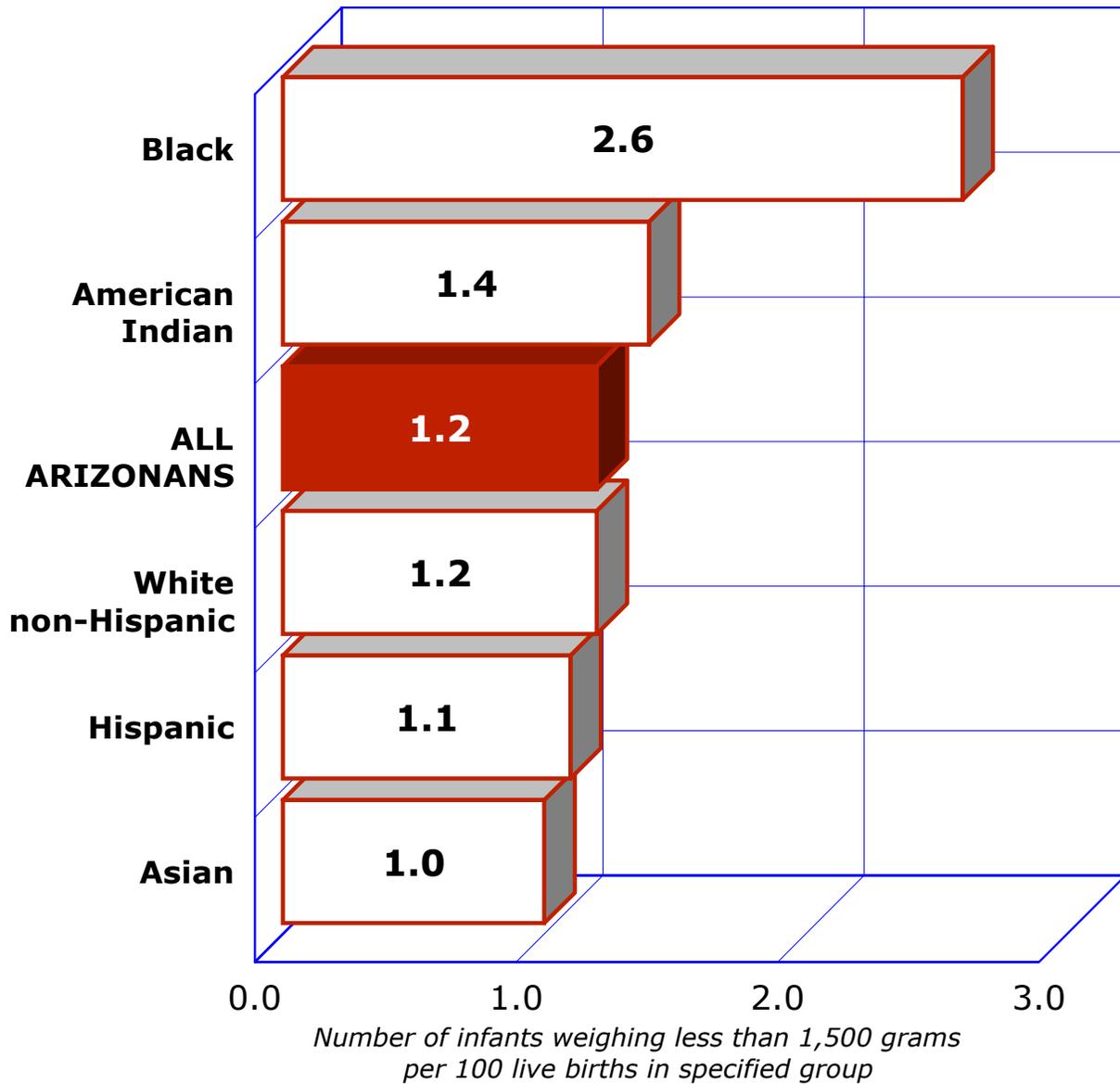
4-3

The Incidence of Low-Birthweight Births



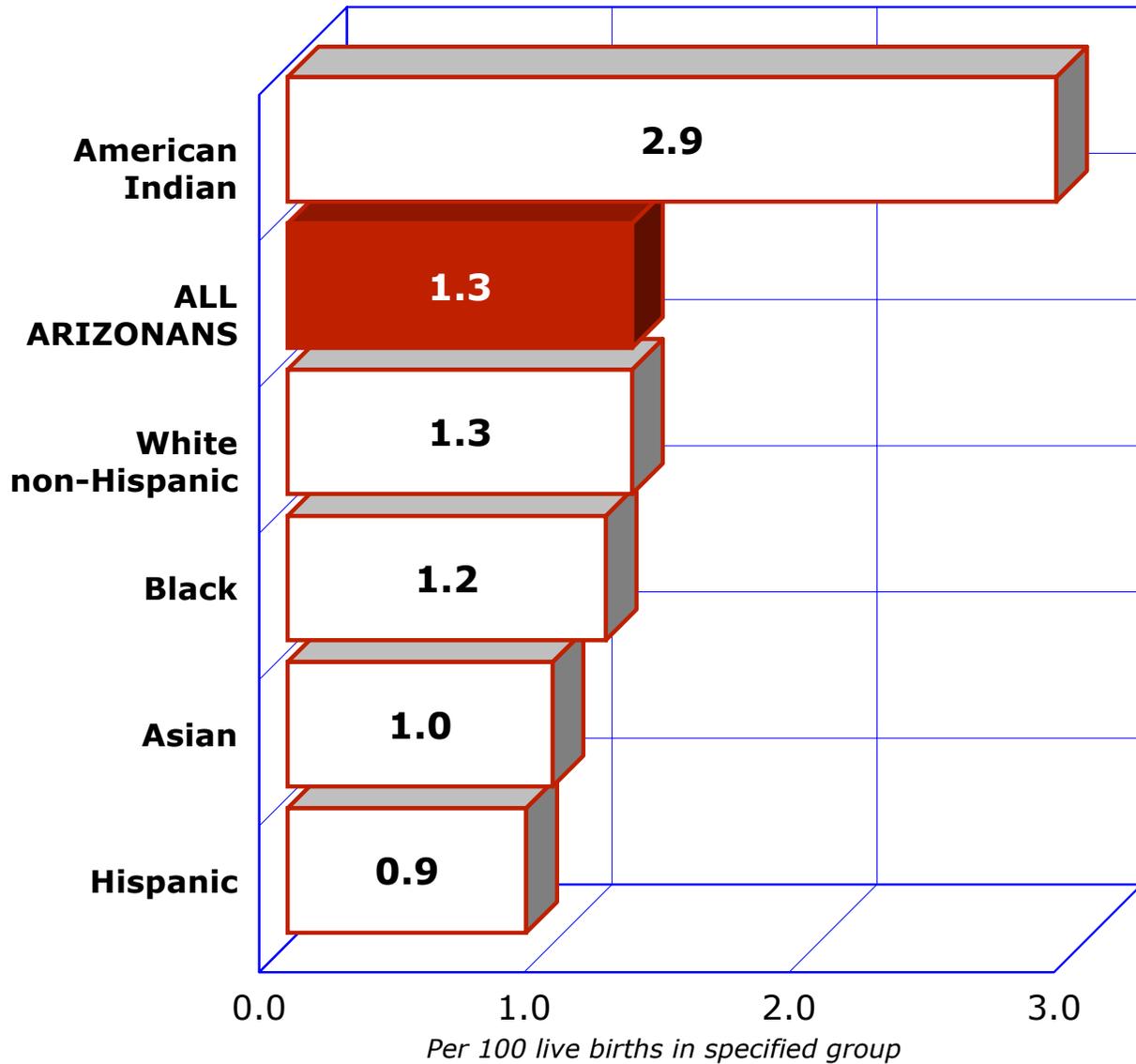
4-4

The Incidence of Very Low-Birthweight Births



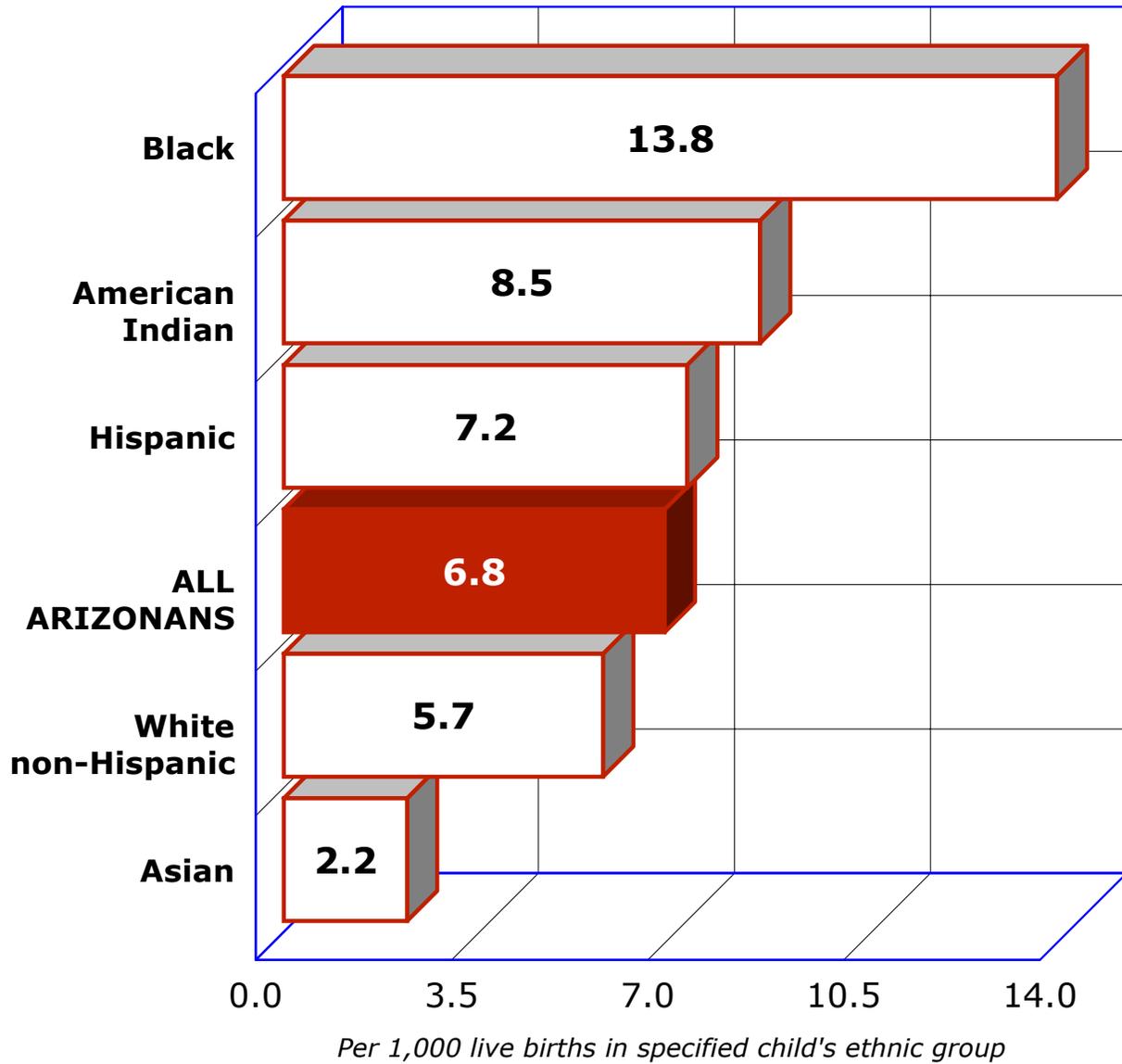
4-5

The Incidence of Congenital Anomalies (Birth Defects)



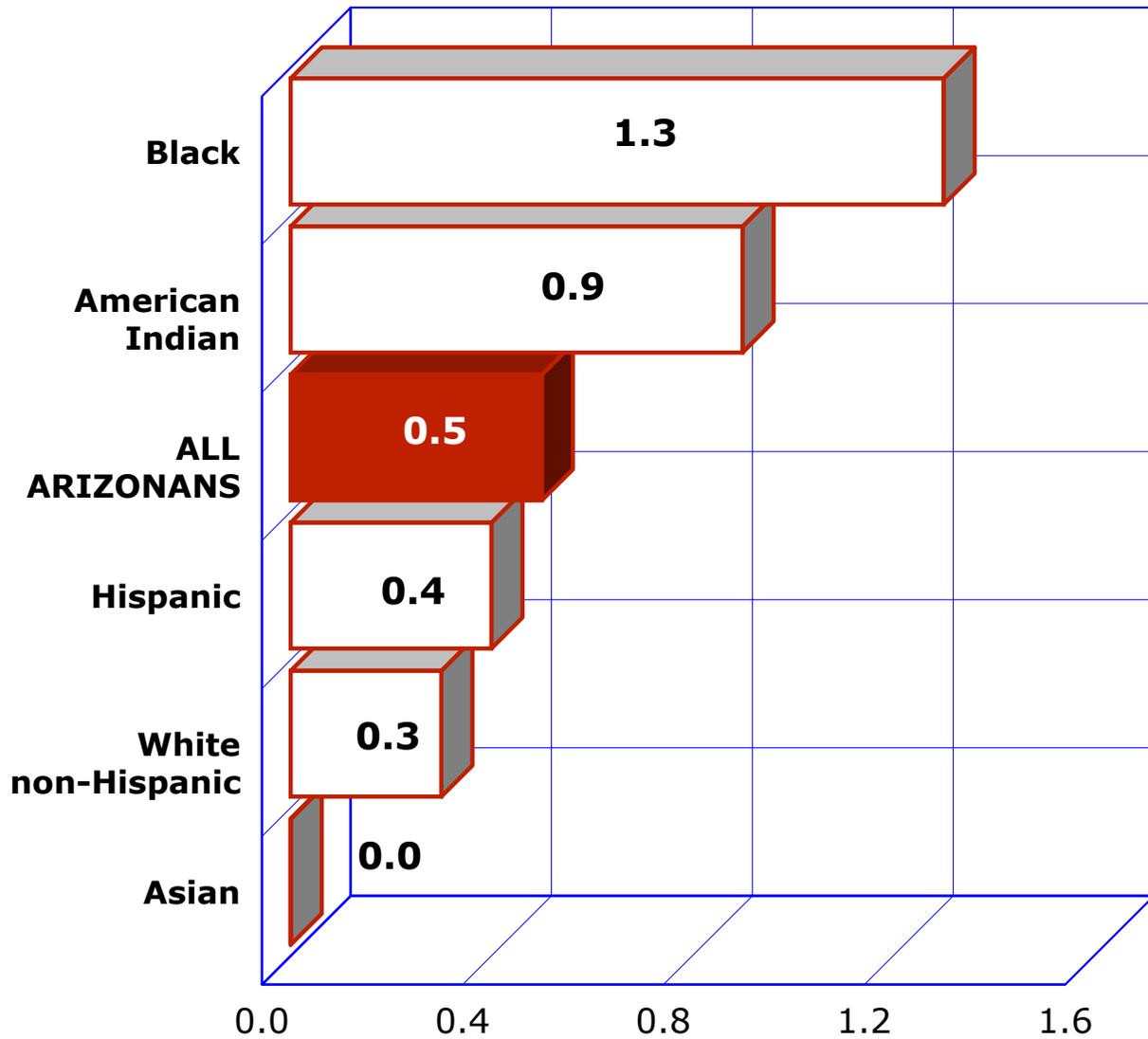
4-6

Infant Mortality



4-7

Infant Mortality from SIDS*

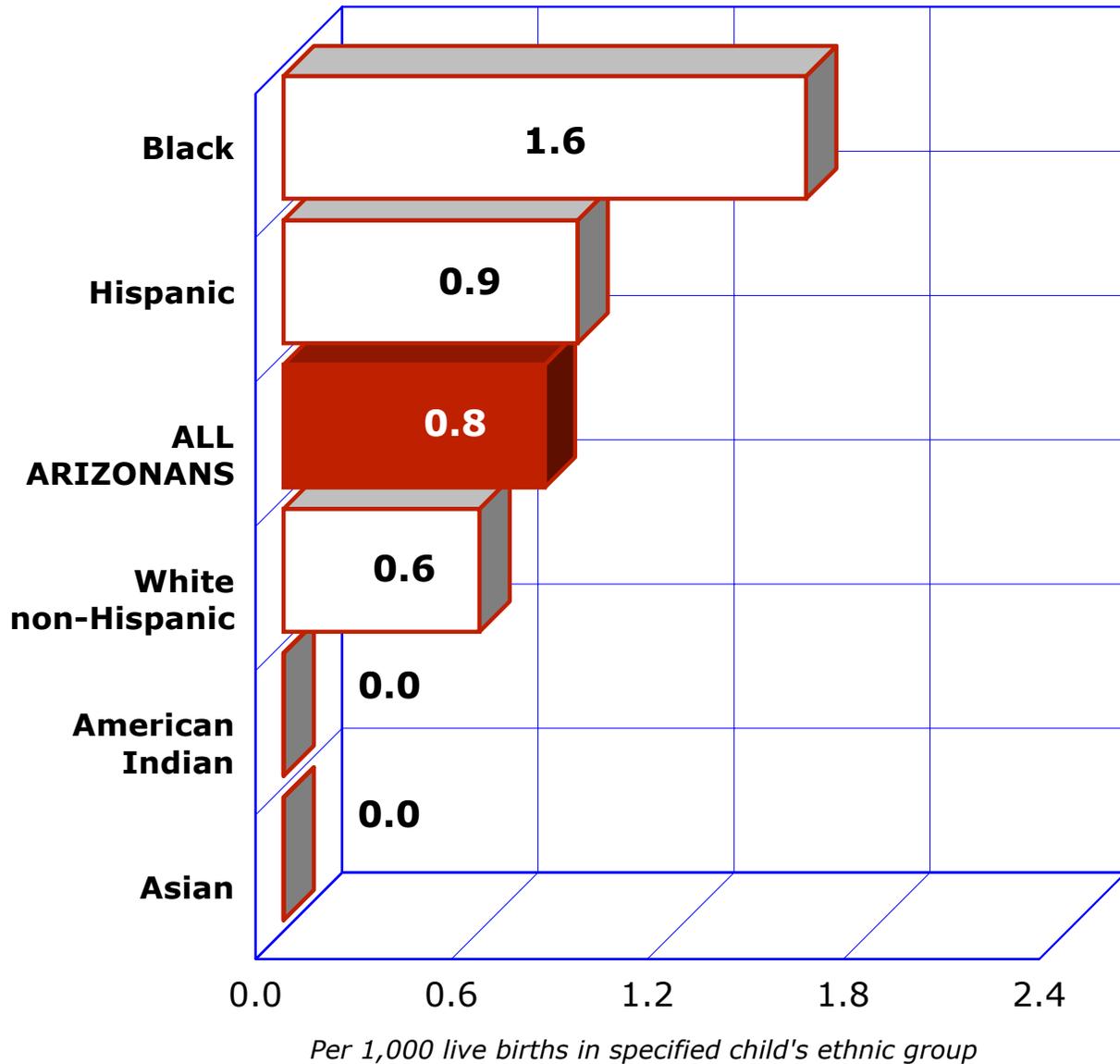


Per 1,000 live births in specified child's ethnic group

*** Sudden Infant Death Syndrome.**

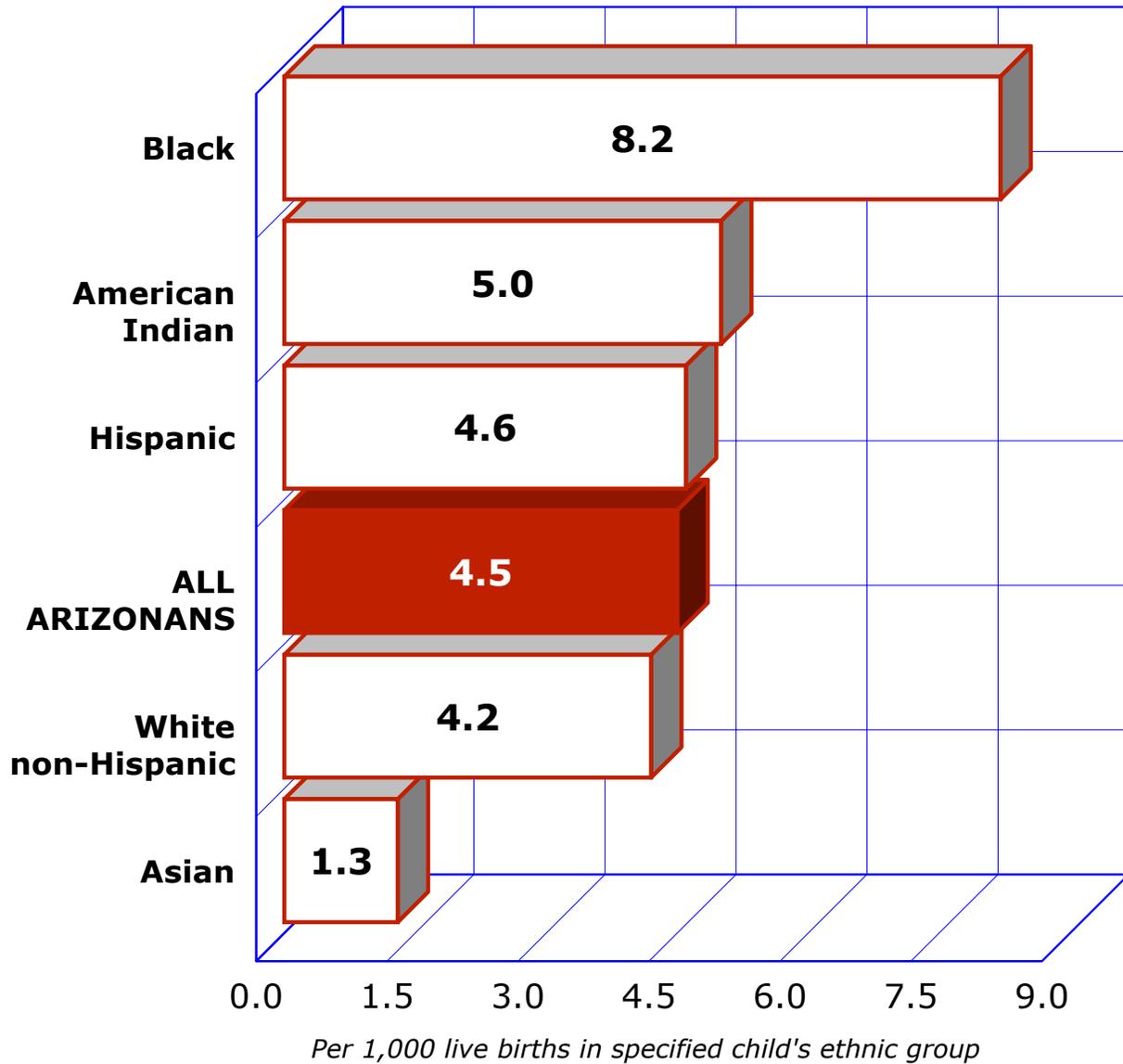
4-8

Infant Mortality from Low Birthweight/Short Gestation



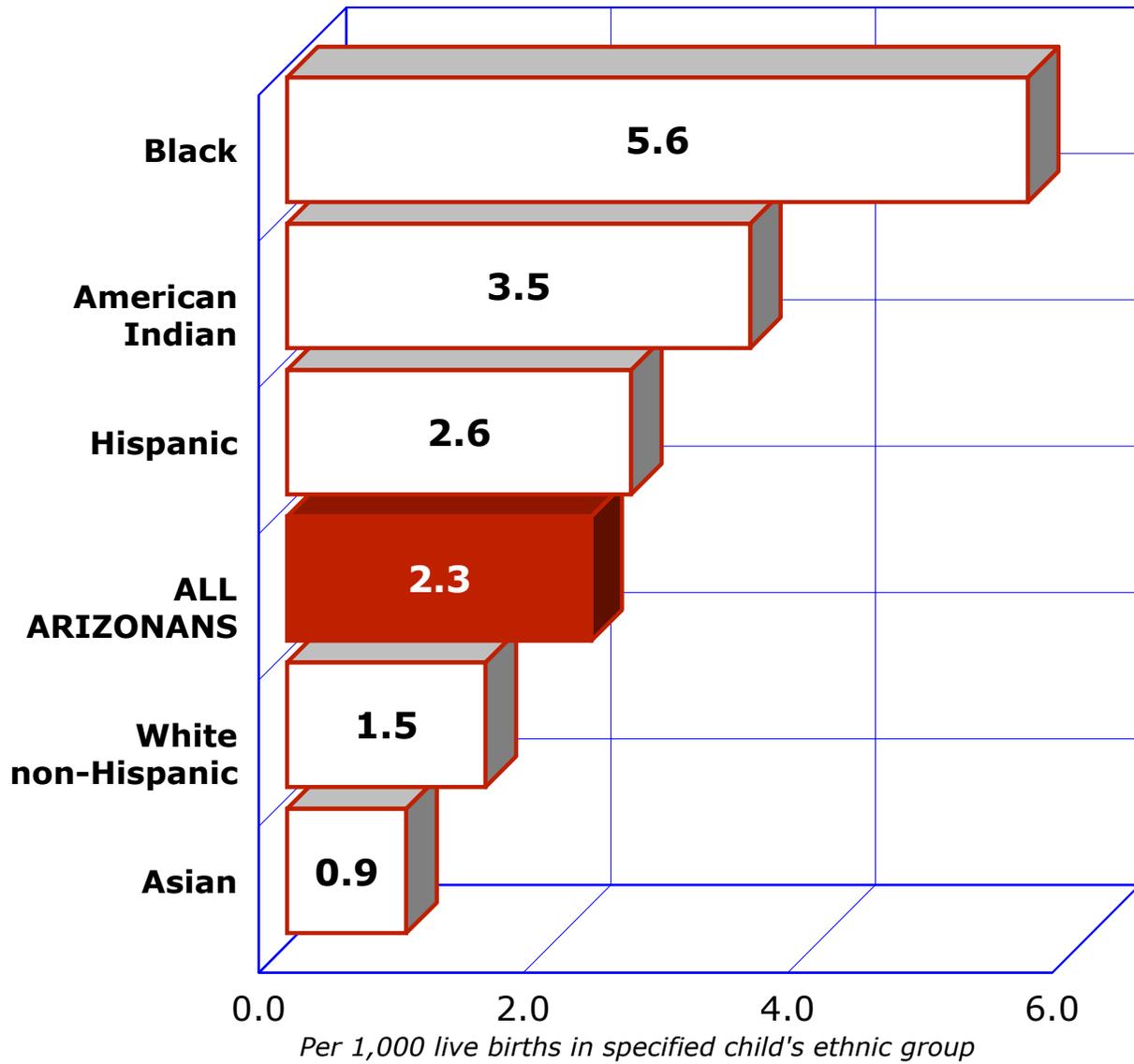
4-9

Neonatal Mortality



4-10

Postneonatal Mortality

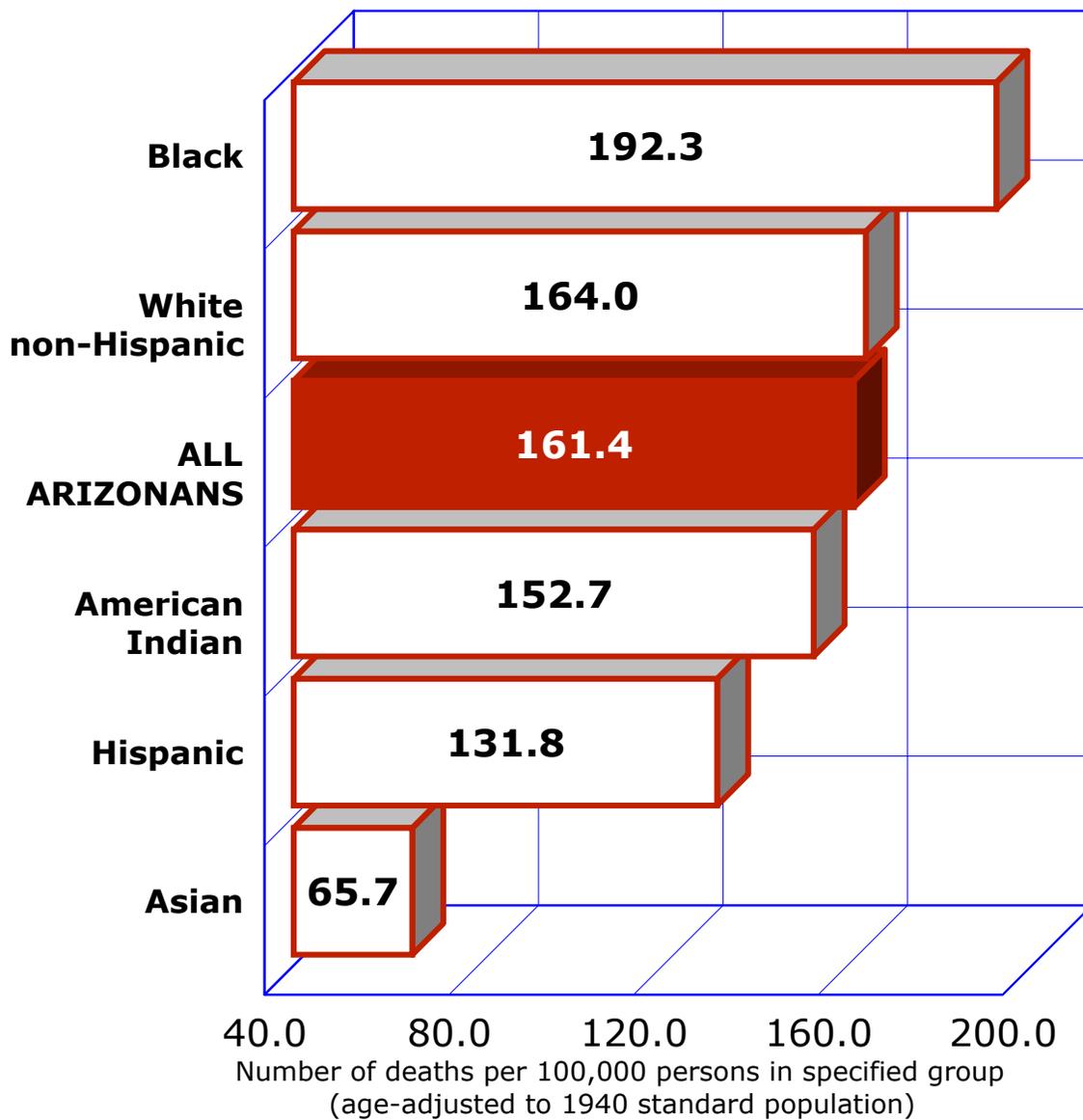


5. Mortality from Natural Causes

- Mortality from Cardiovascular Diseases**
- Mortality from Diseases of the Heart**
- Mortality from Coronary Heart Disease**
- Mortality from Cerebrovascular Disease**
- Mortality from Chronic Obstructive Pulmonary Disease**
- Mortality from Malignant Neoplasms**
- Mortality from Lung Cancer**
- Mortality from Breast Cancer**
- Mortality from Cervical Cancer**
- Mortality from Colorectal Cancer**
- Mortality from Prostate Cancer**
- Mortality from Pneumonia & Influenza**
- Mortality from Diabetes**
- Mortality from Infectious & Parasitic Diseases**
(excluding HIV Infection)
- Mortality from HIV Infection**
- Mortality from Septicemia**
- Mortality from Alzheimer's Disease**
- Mortality from Nephritis, Nephrotic Syndrome & Nephrosis**
- Mortality from Alcoholism**
- Mortality from All Causes**

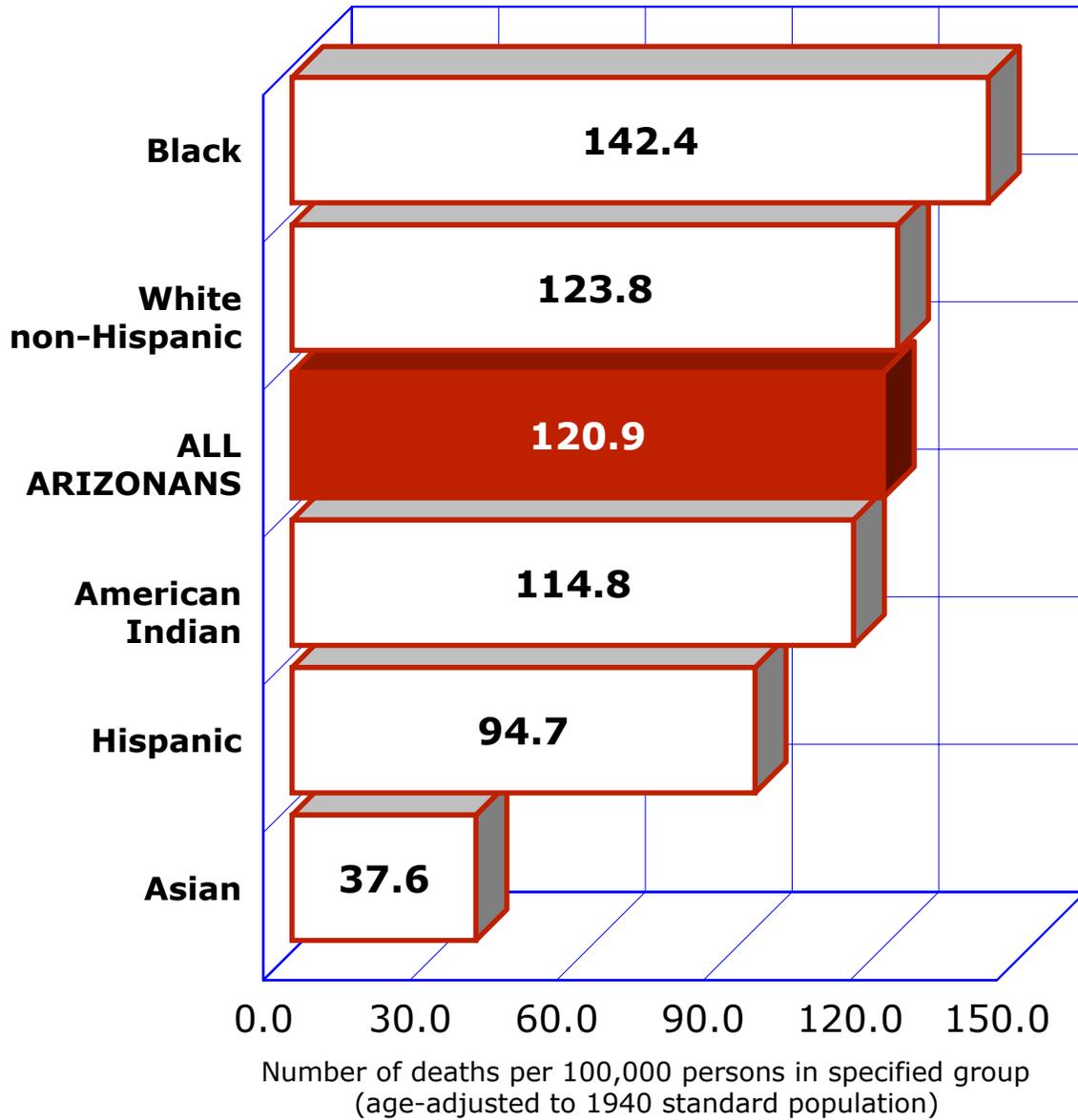
5-1

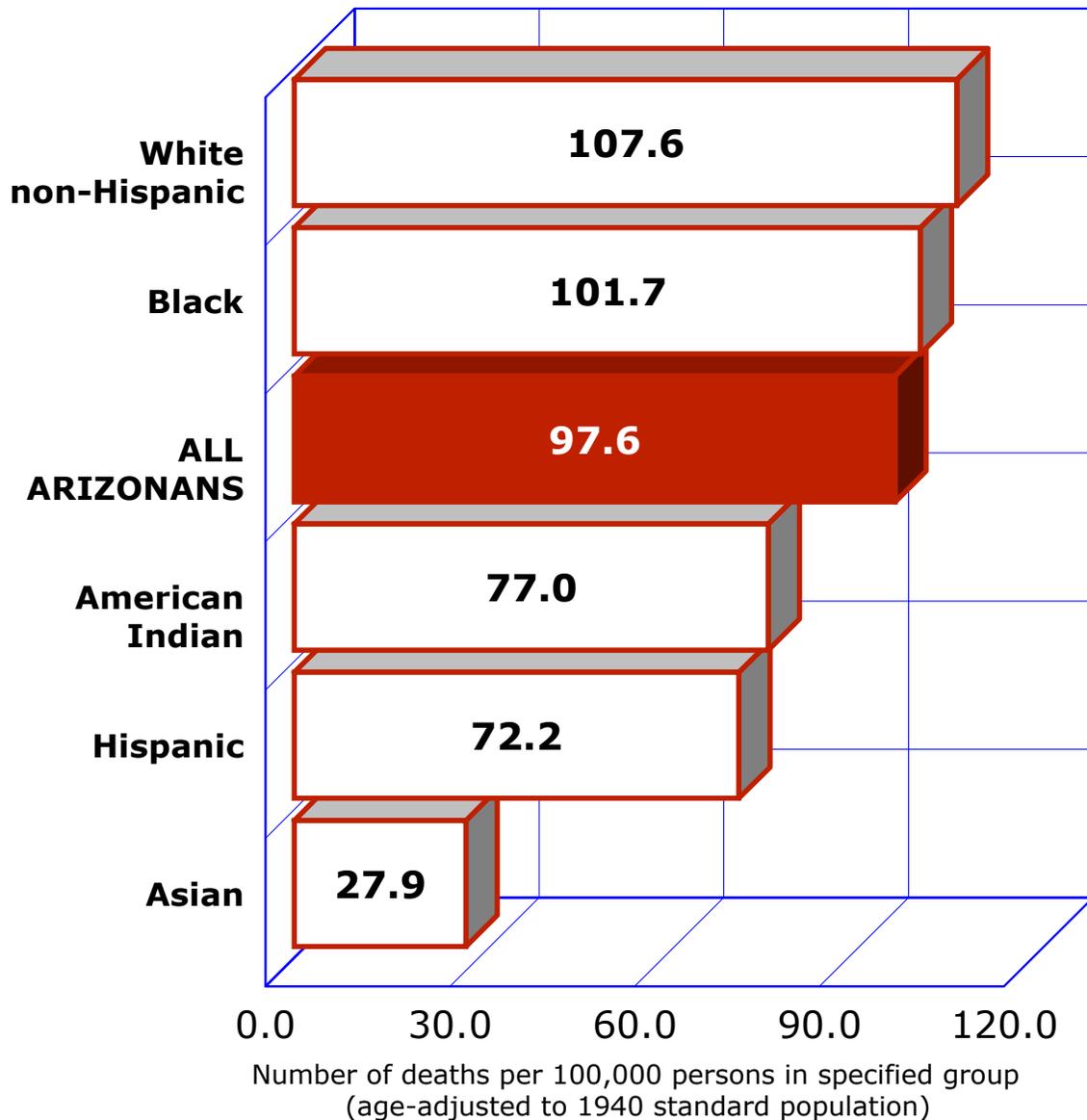
Mortality from Cardiovascular Diseases

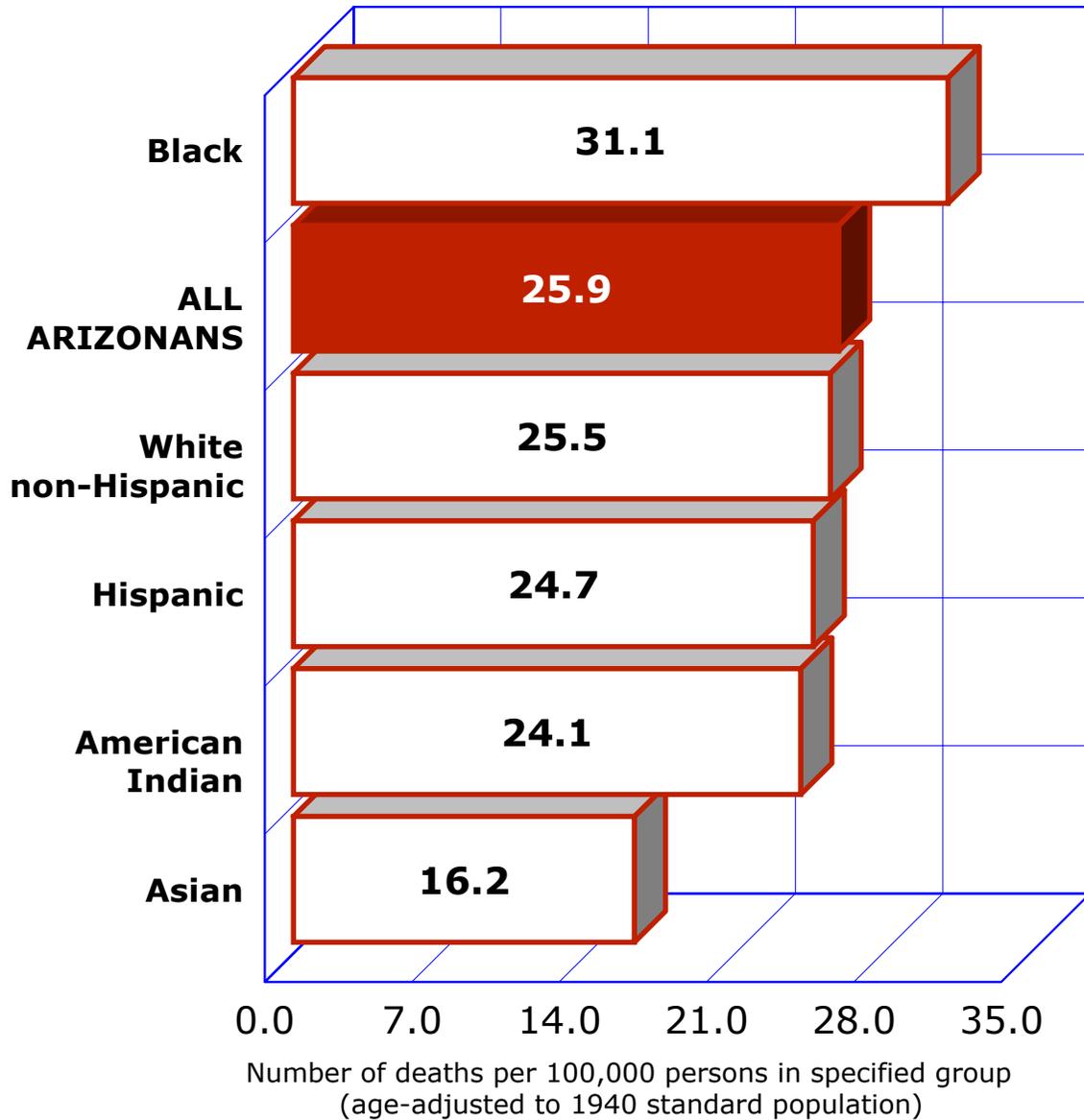


5-2

Mortality from Diseases of the Heart

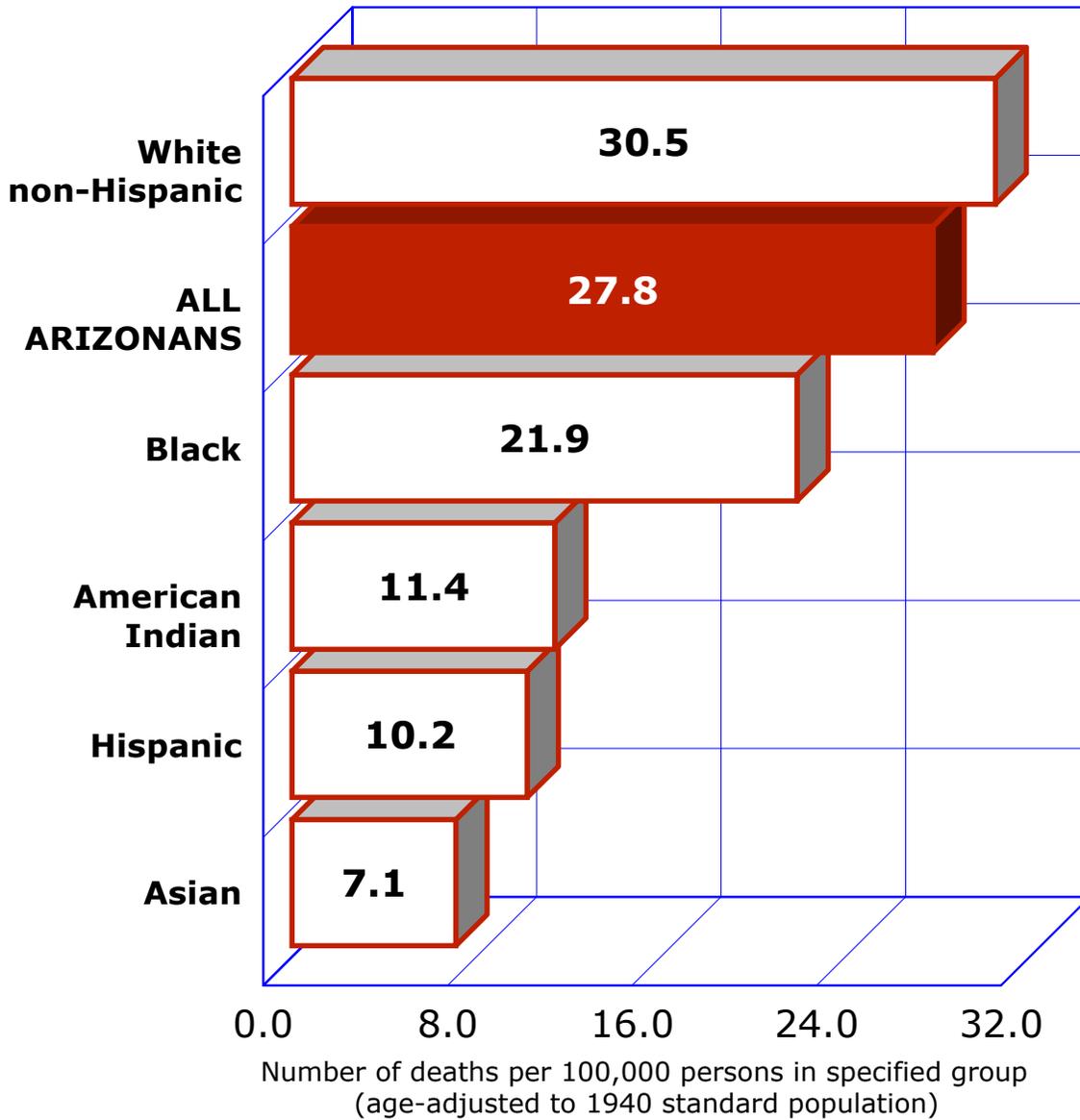


5-3**Mortality from
Coronary Heart Disease**

5-4**Mortality from
Cerebrovascular Disease**

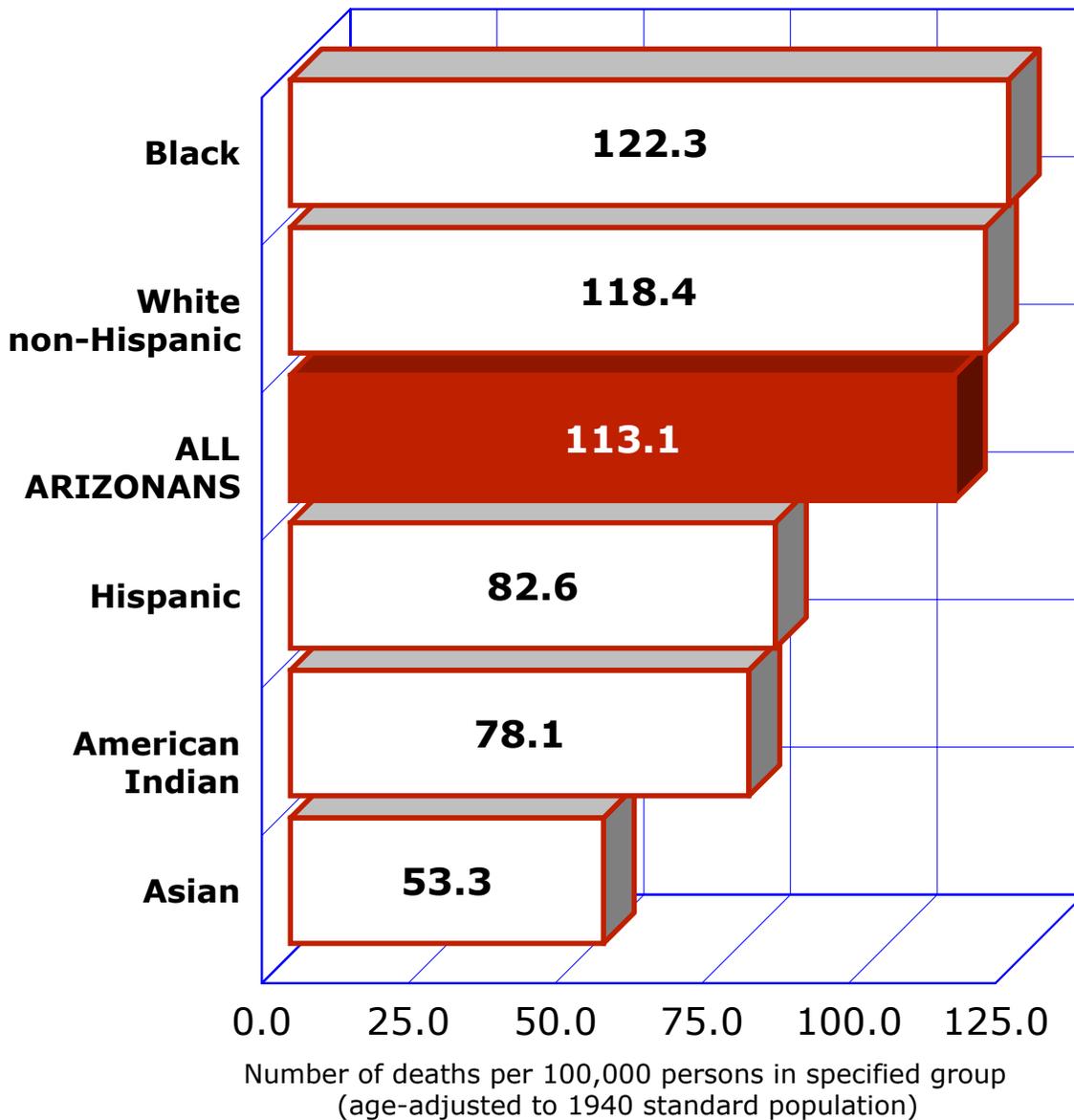
5-5

Mortality from Chronic Obstructive Pulmonary Disease



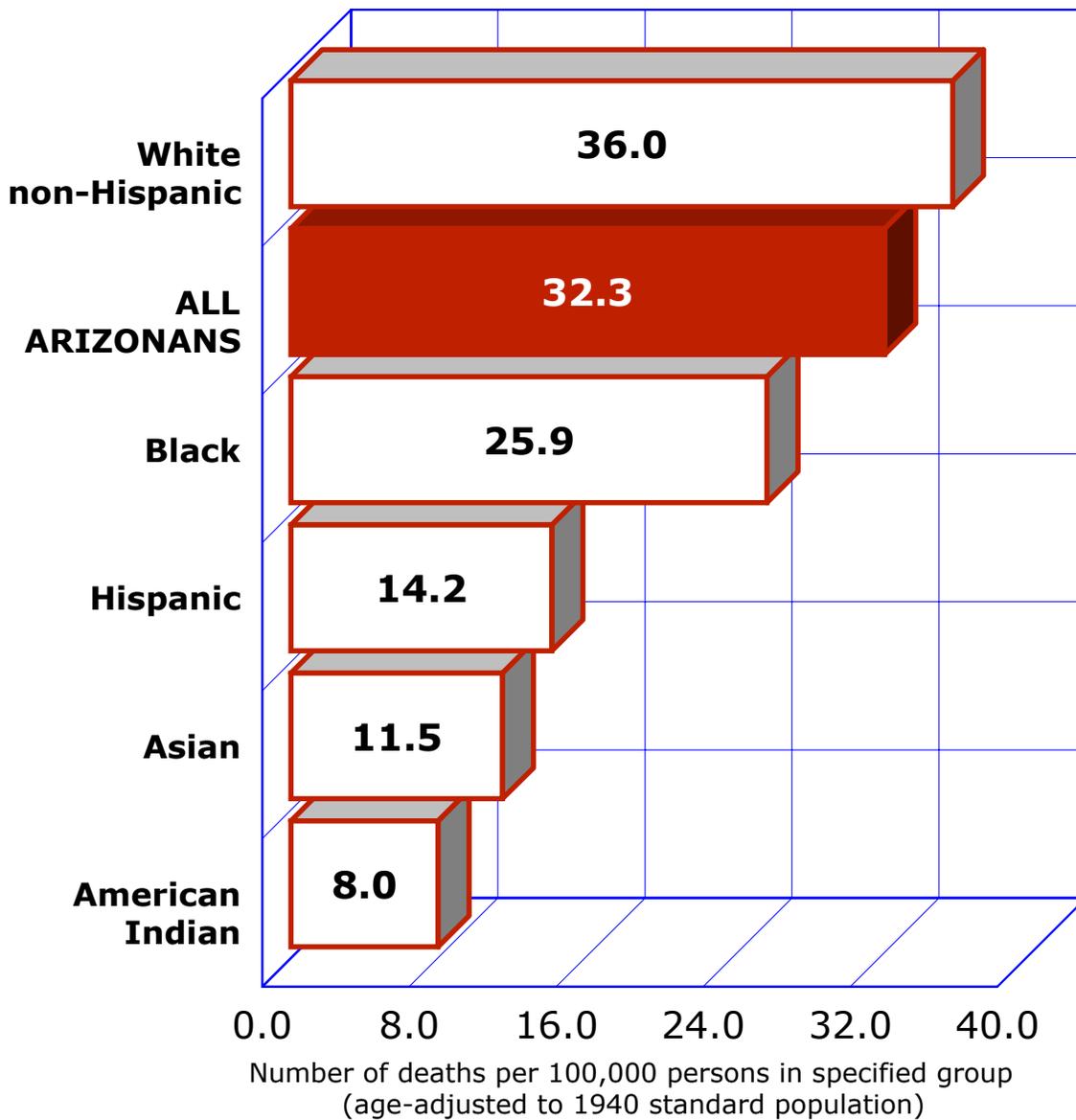
5-6

Mortality from Malignant Neoplasms



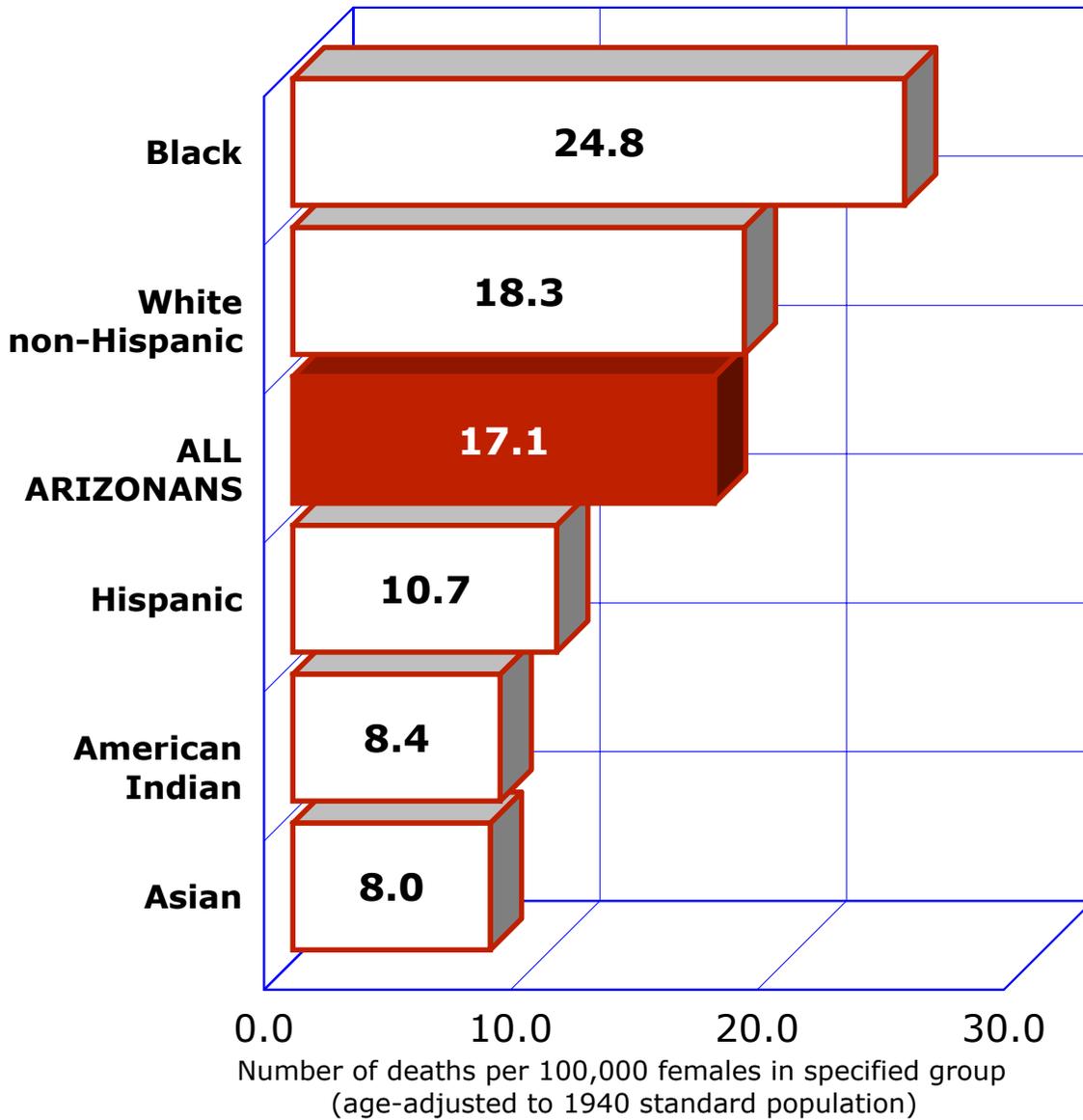
5-7

Mortality from Lung Cancer



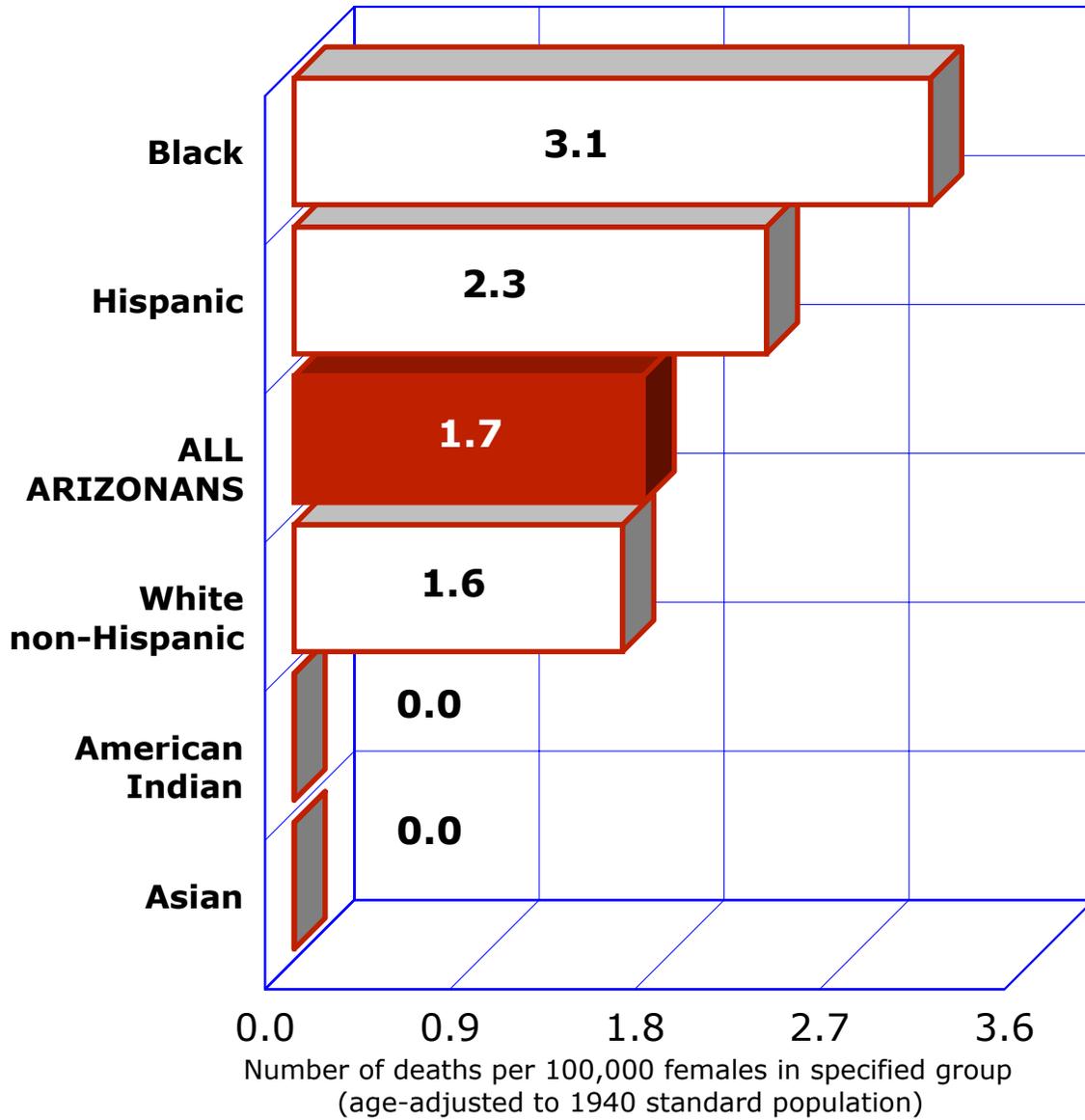
5-8

Mortality from Breast Cancer



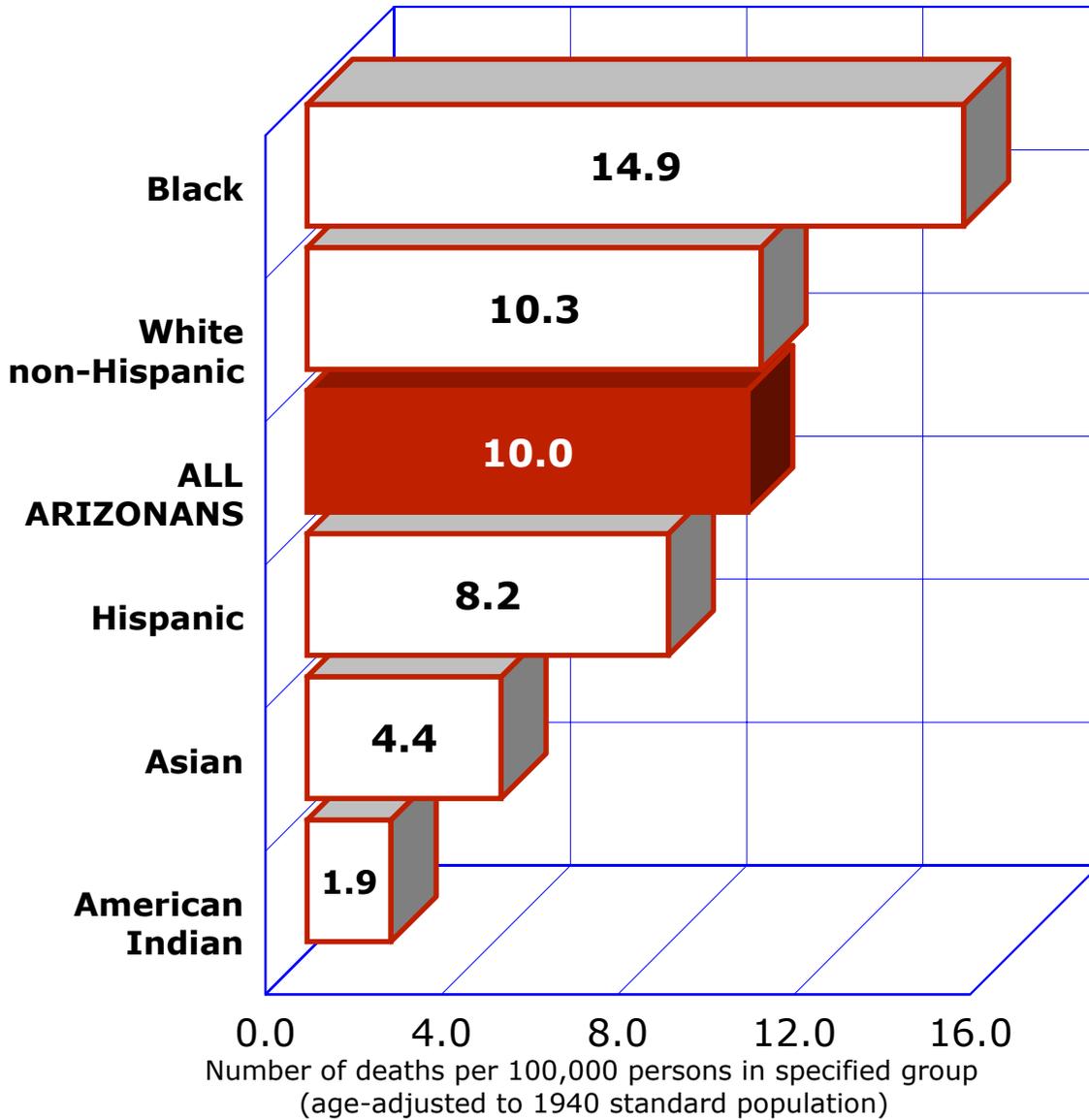
5-9

Mortality from Cervical Cancer



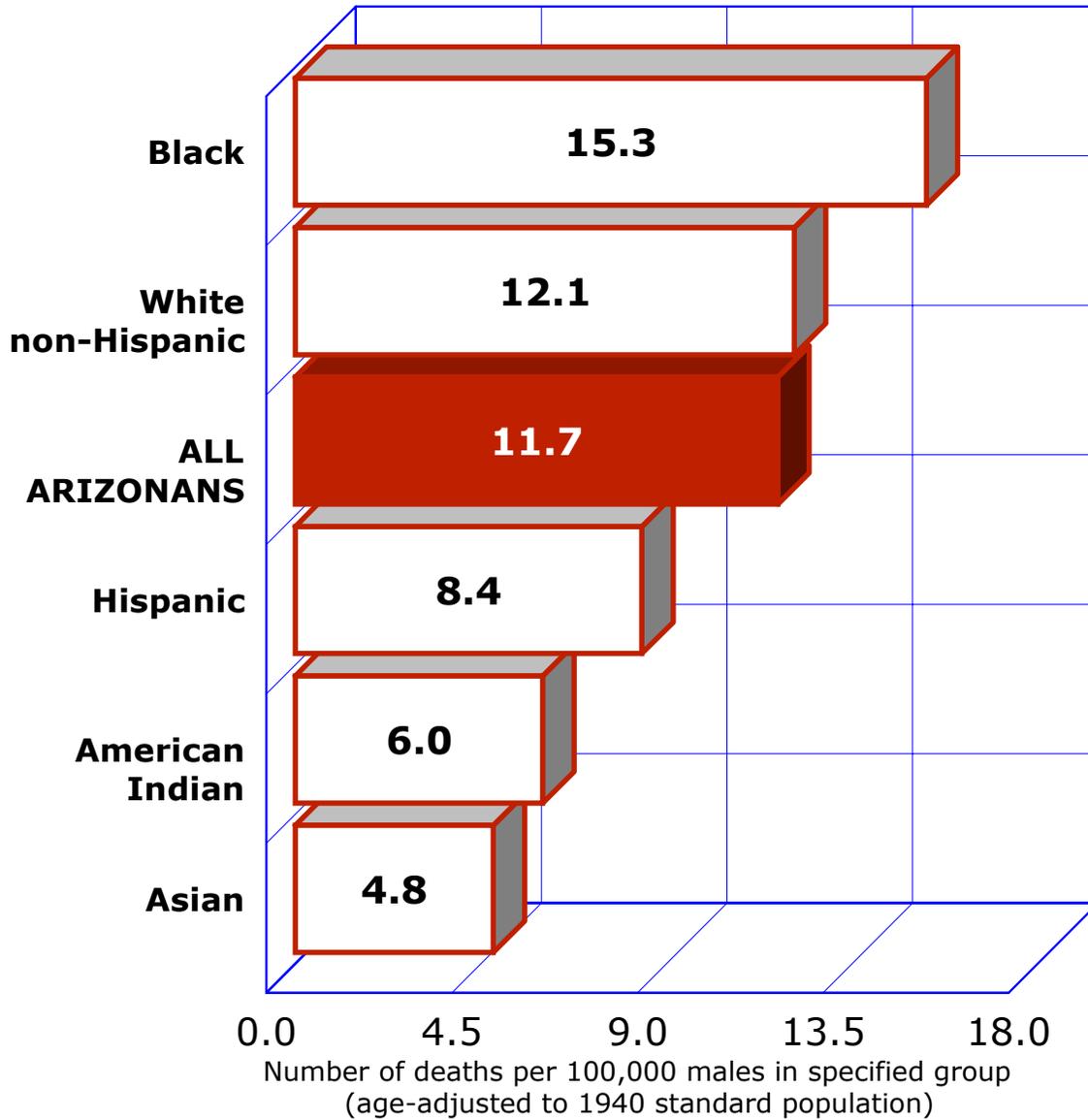
5-10

Mortality from Colorectal Cancer



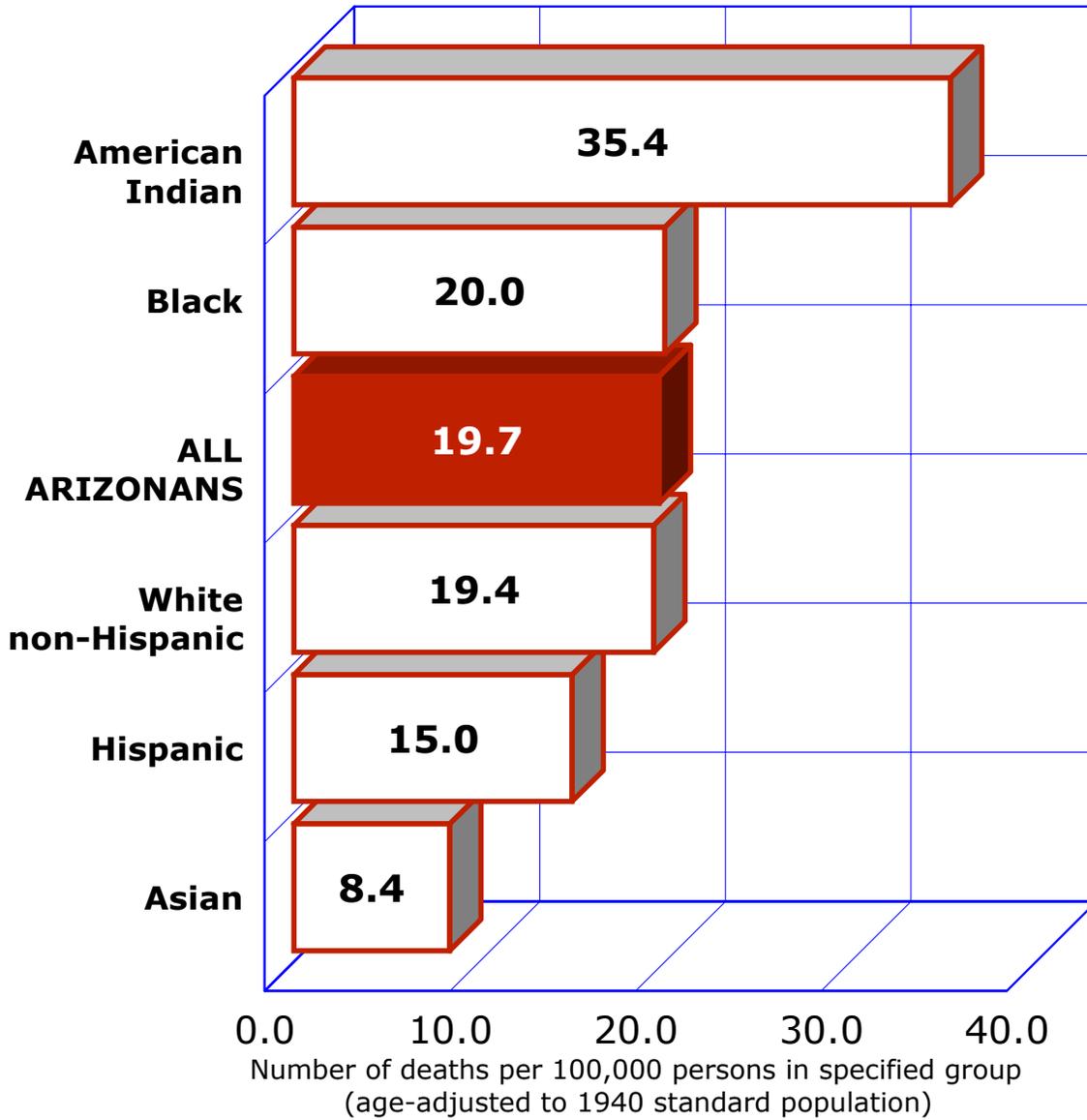
5-11

Mortality from Prostate Cancer



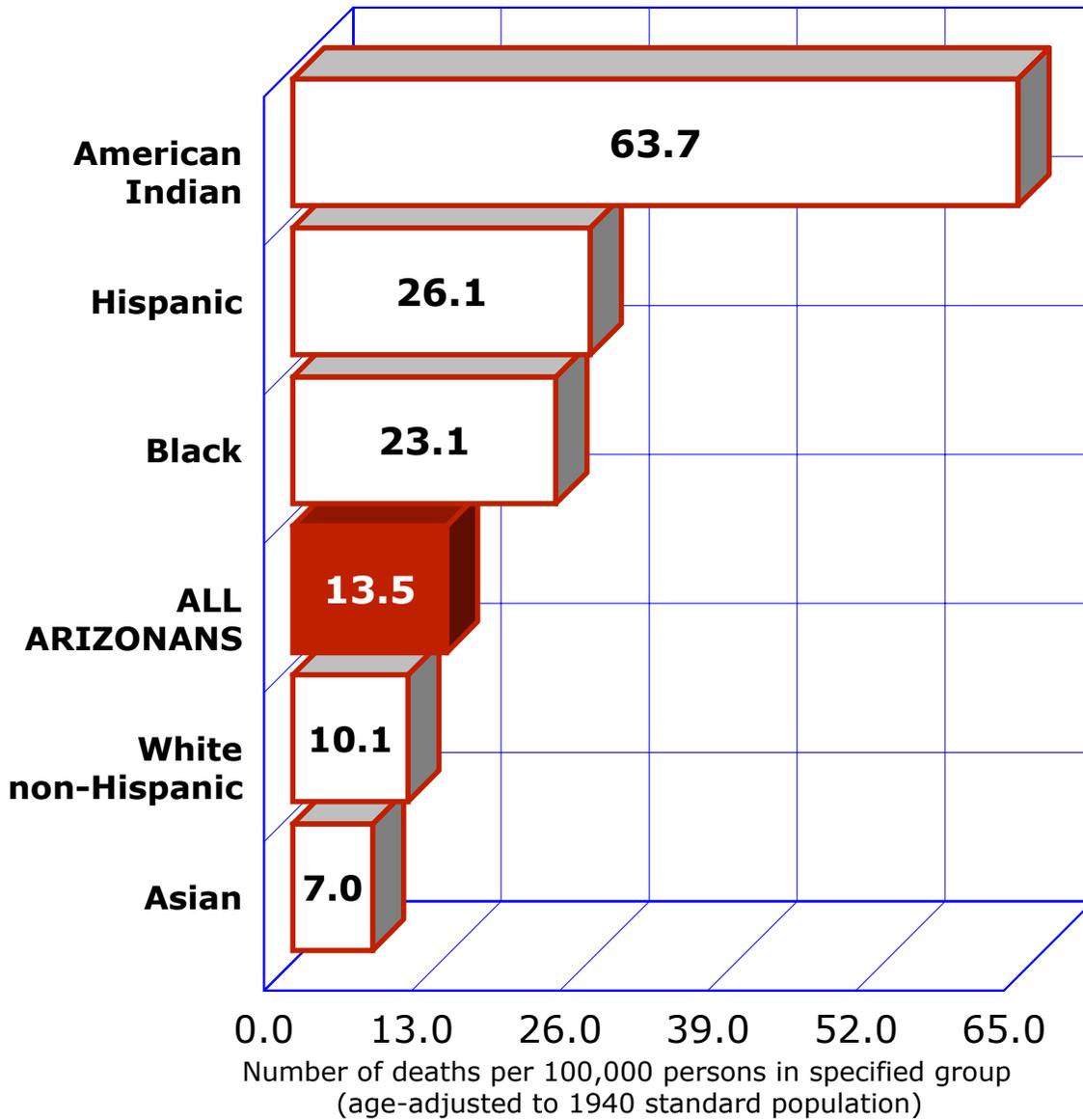
5-12

Mortality from Pneumonia & Influenza



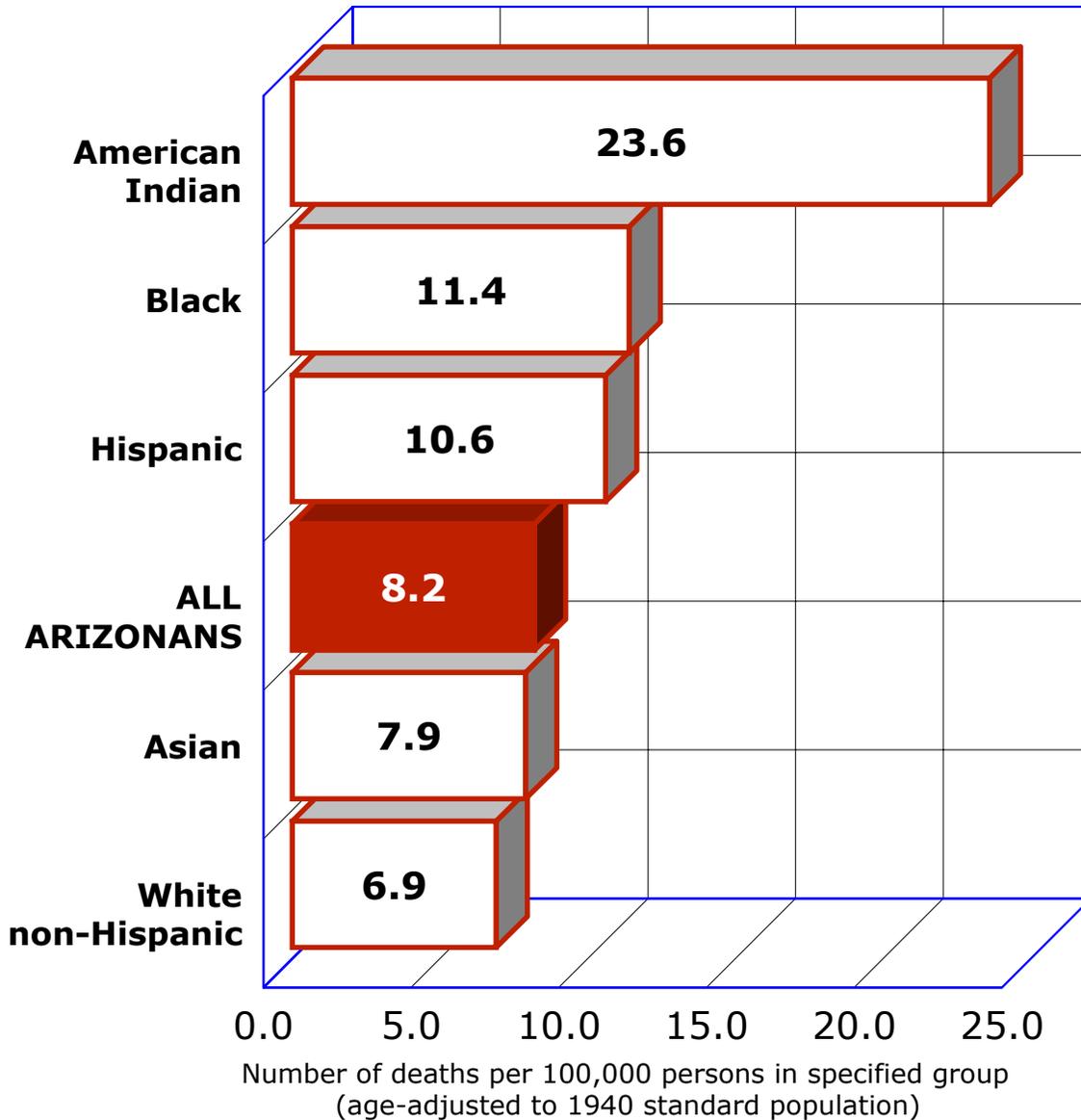
5-13

Mortality from Diabetes



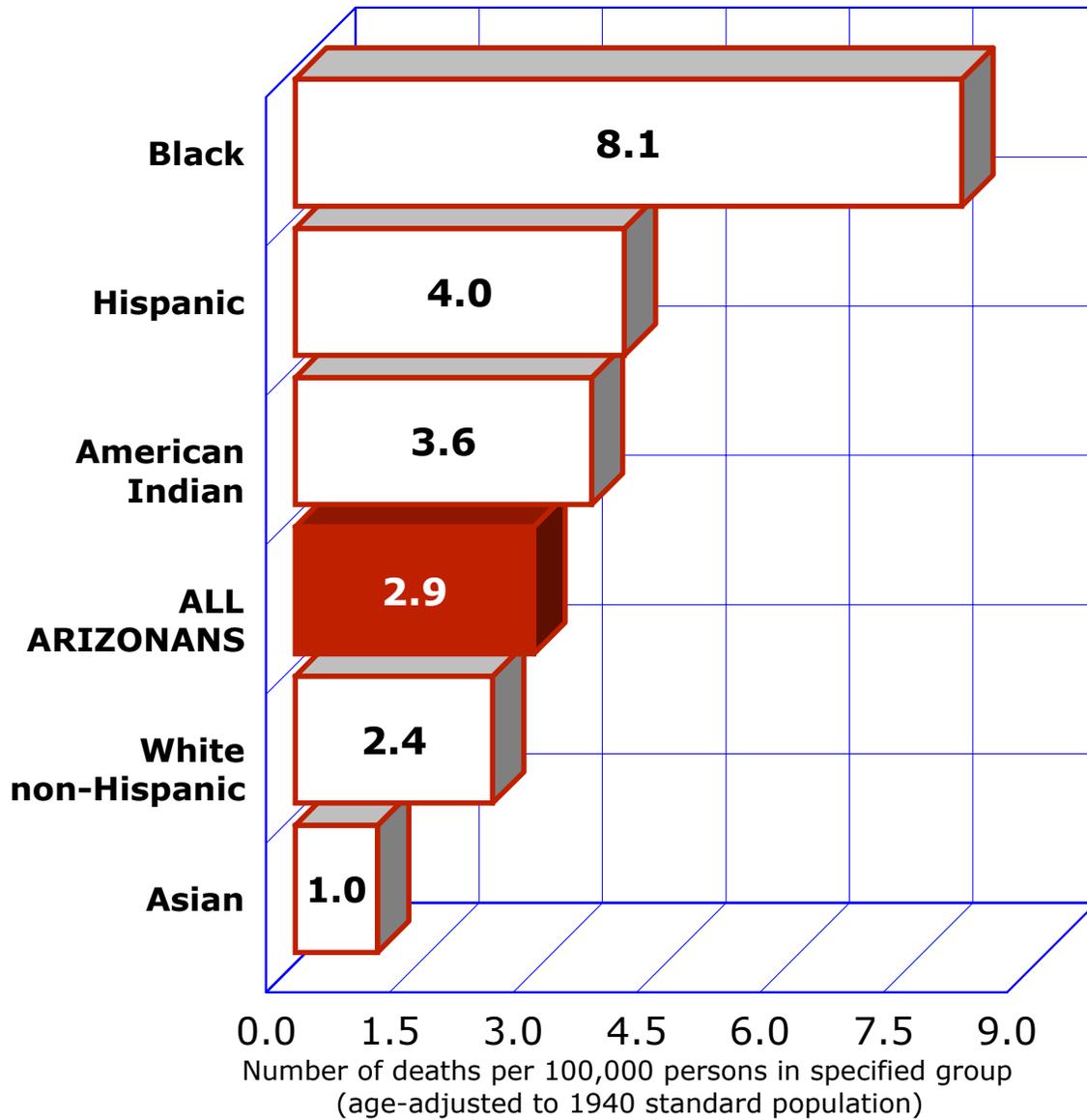
5-14

Mortality from Infectious & Parasitic Diseases (excluding HIV Infection)



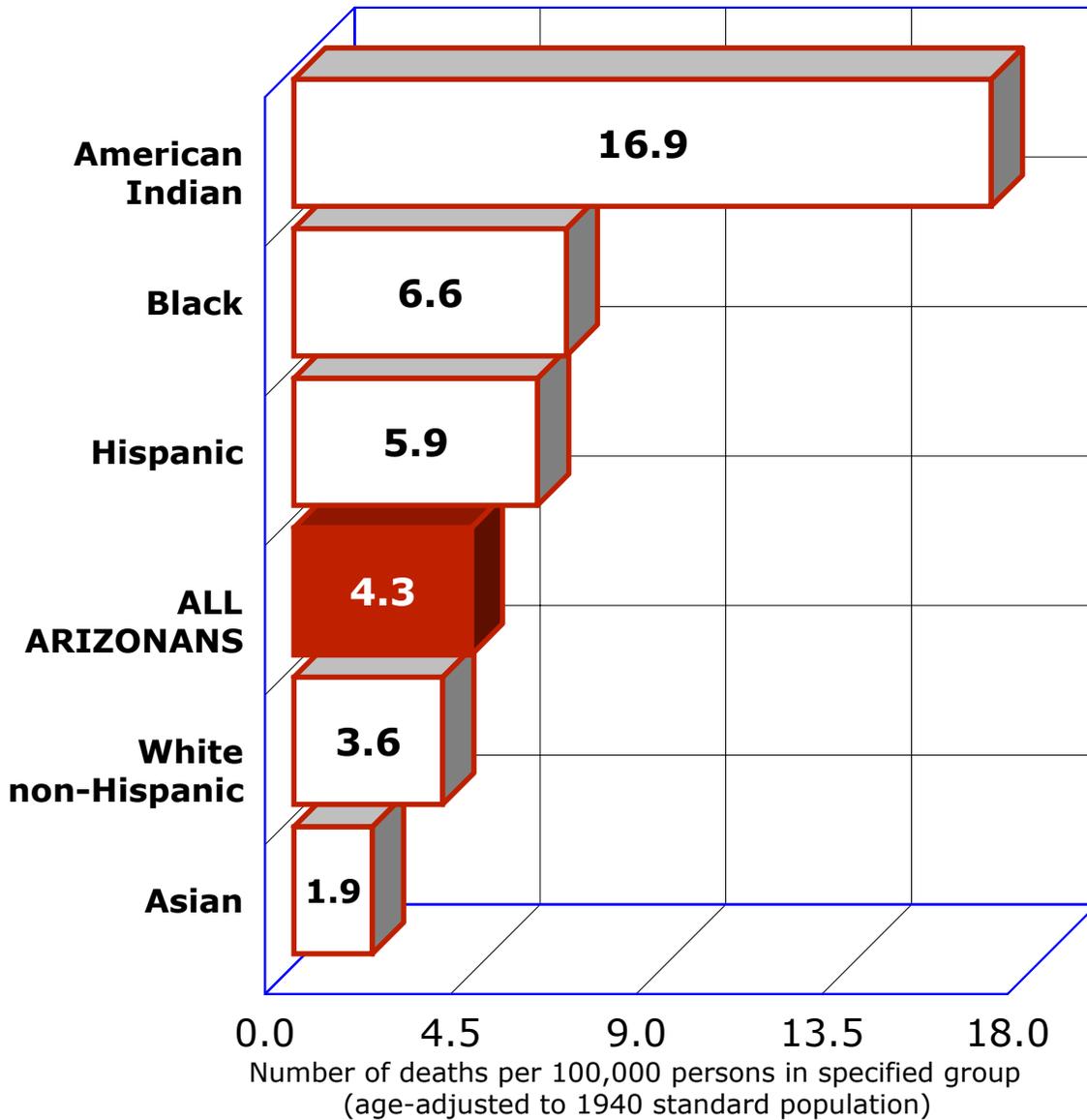
5-15

Mortality from HIV Infection



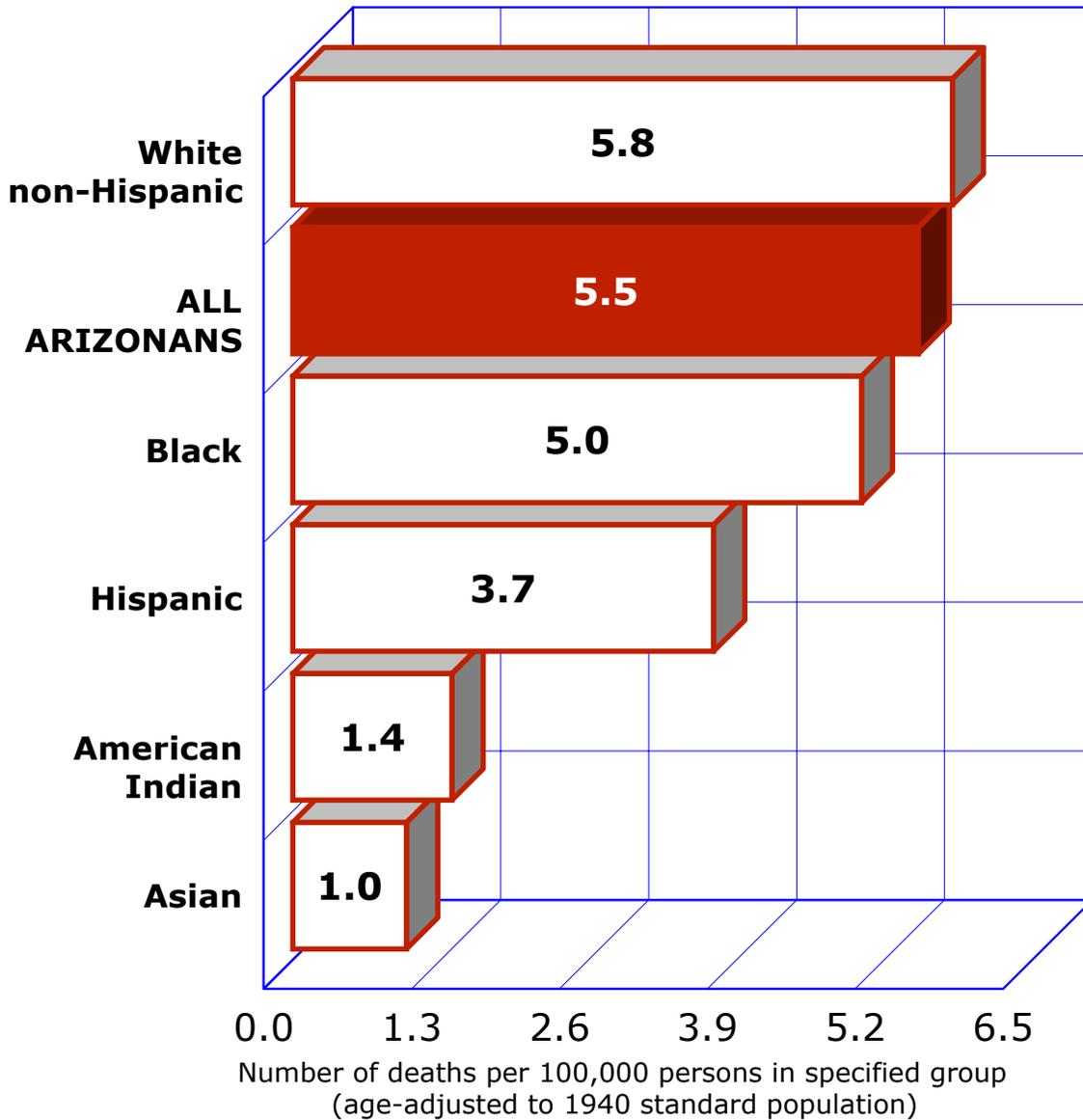
5-16

Mortality from Septicemia



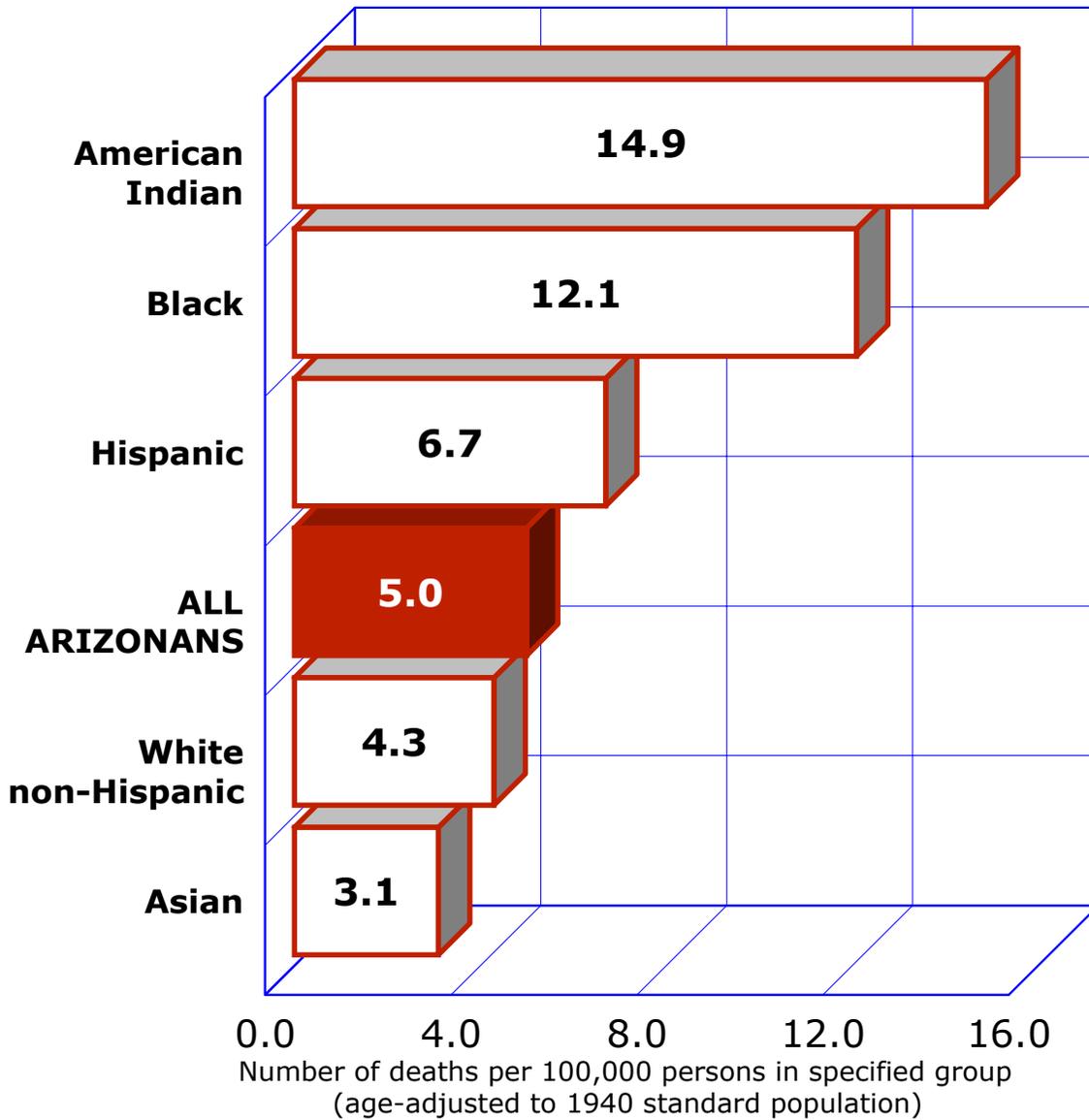
5-17

Mortality from Alzheimer's Disease



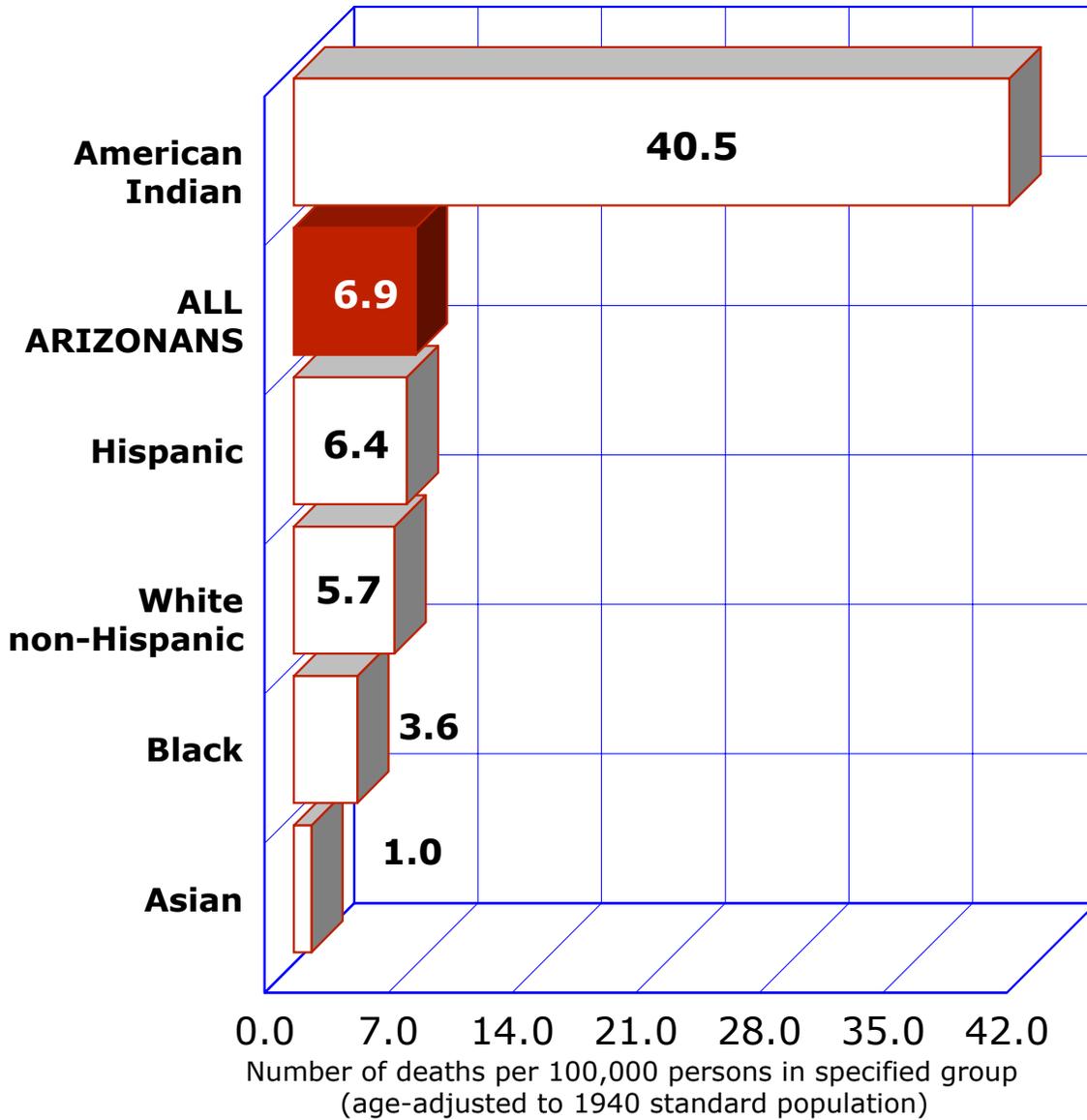
5-18

Mortality from Nephritis, Nephrotic Syndrome and Nephrosis



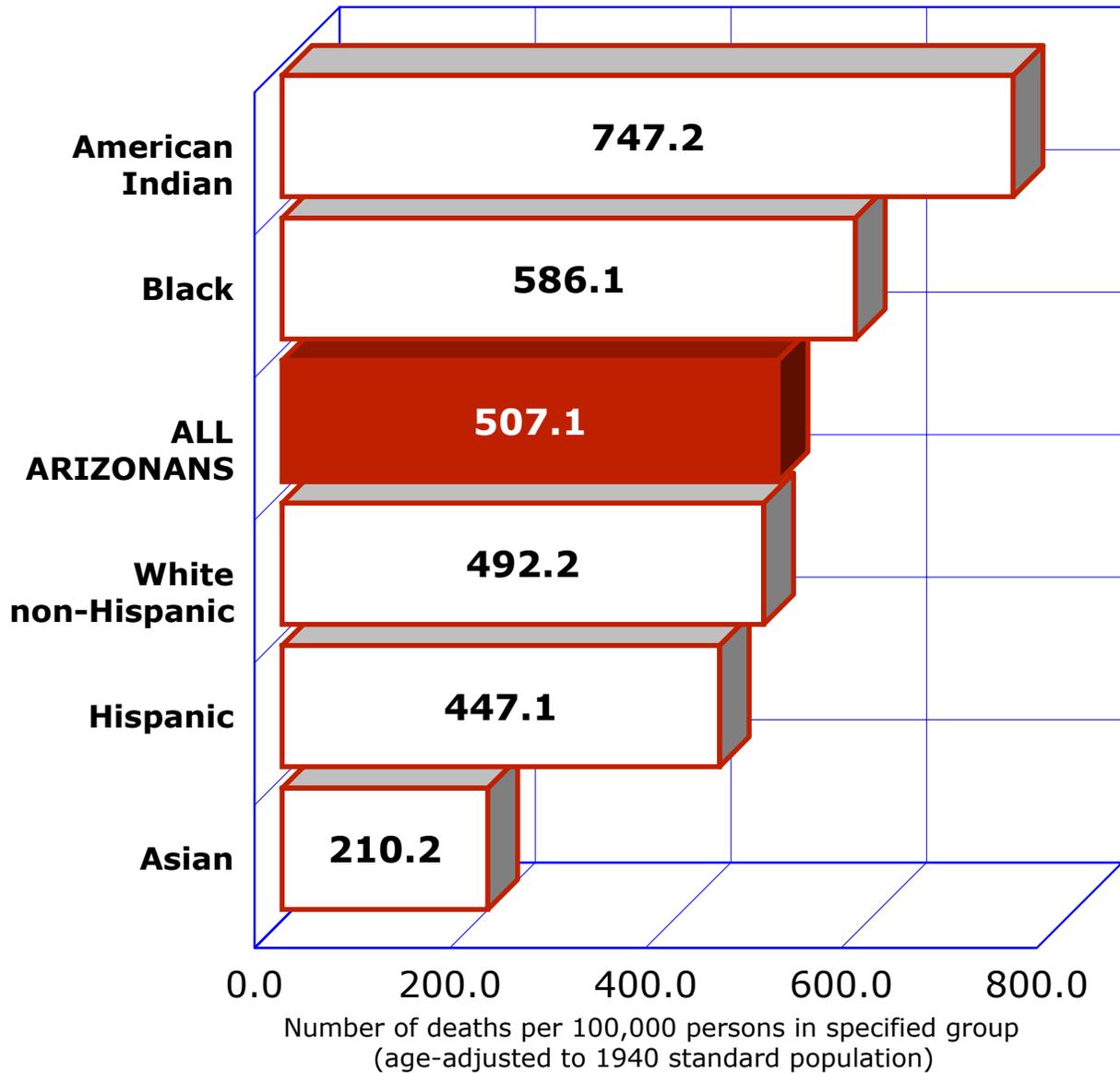
5-19

Mortality from Alcoholism



5-20

Mortality from All Causes

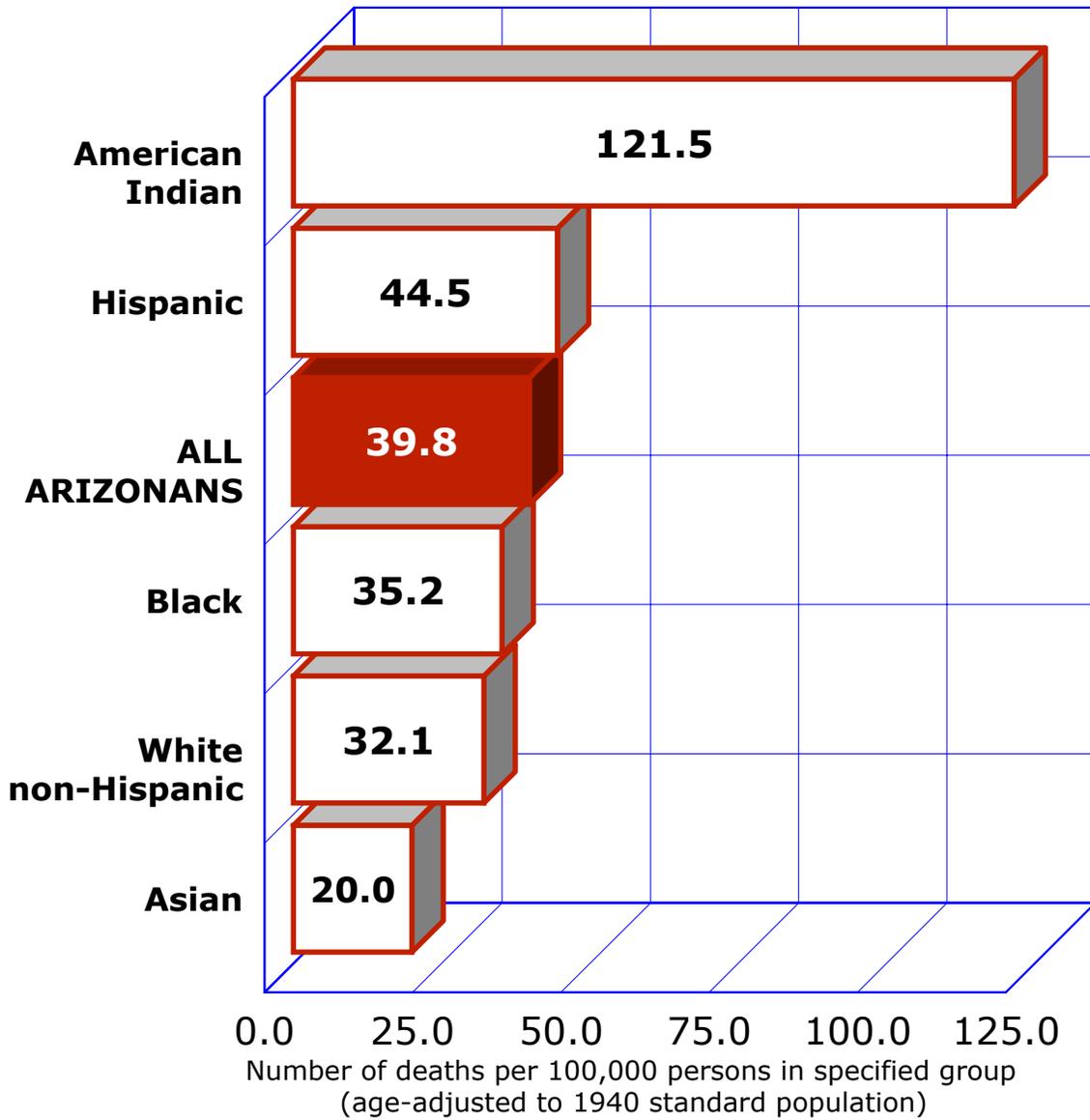


6. Mortality from Injuries

- Mortality from Unintentional Injuries**
- Mortality from Motor Vehicle-Related Injuries**
- Mortality from Fall-Related Injuries**
- Drowning Mortality**
- Firearm-Related Mortality**
- Drug-Related Mortality**
- Suicide Mortality**
- Homicide Mortality**

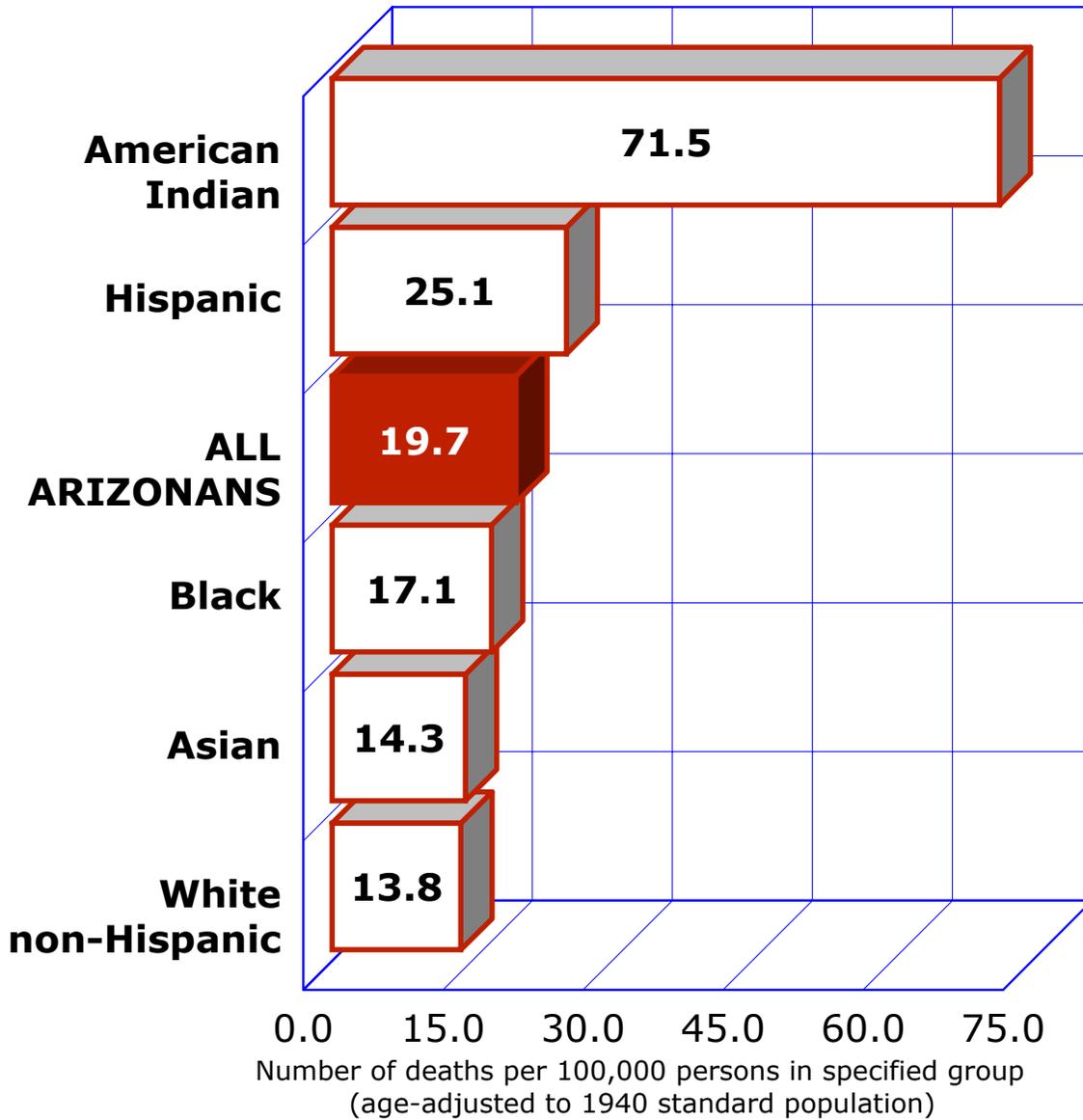
6-1

Mortality from Unintentional Injuries



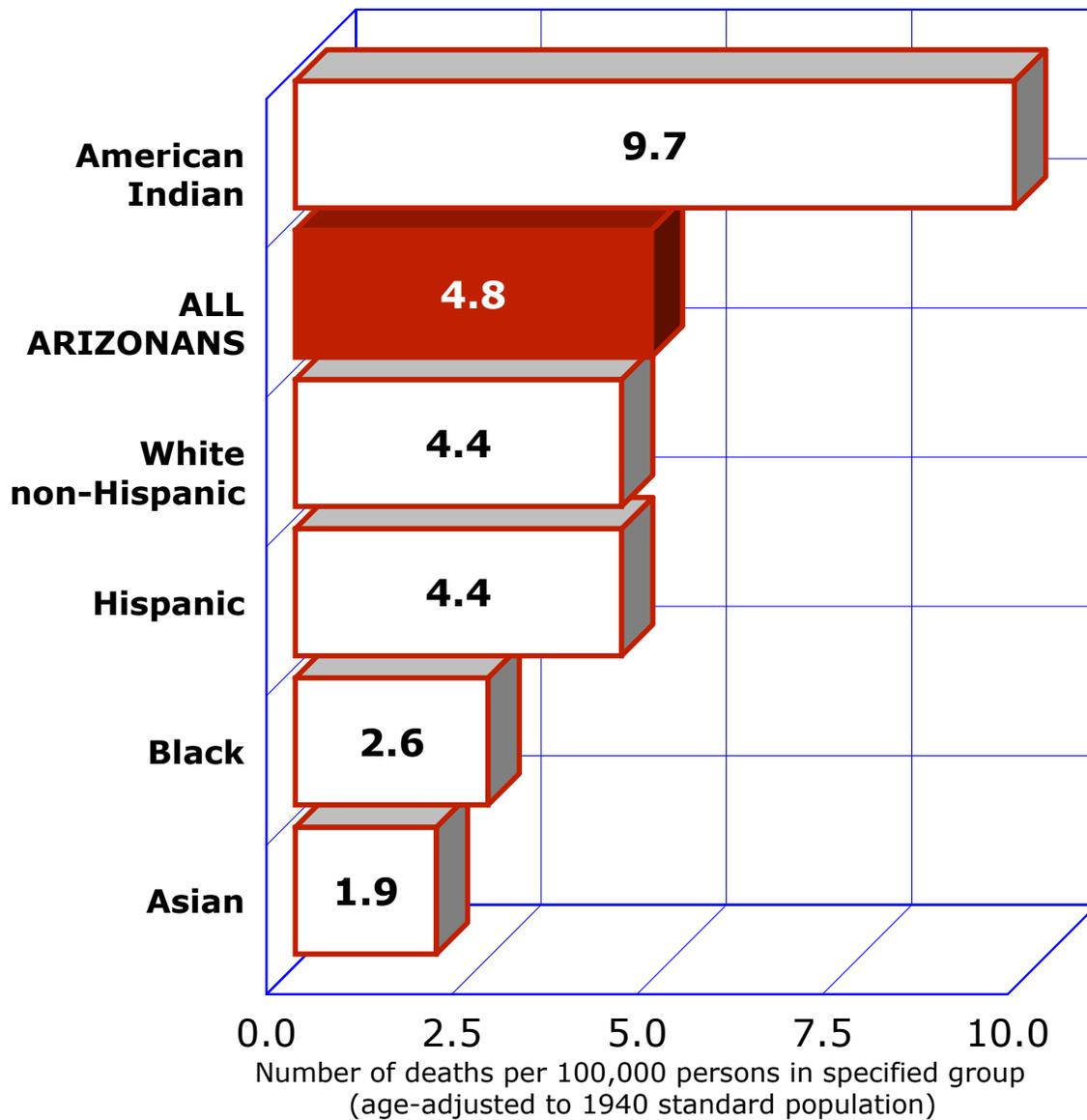
6-2

Mortality from Motor Vehicle-Related Injuries



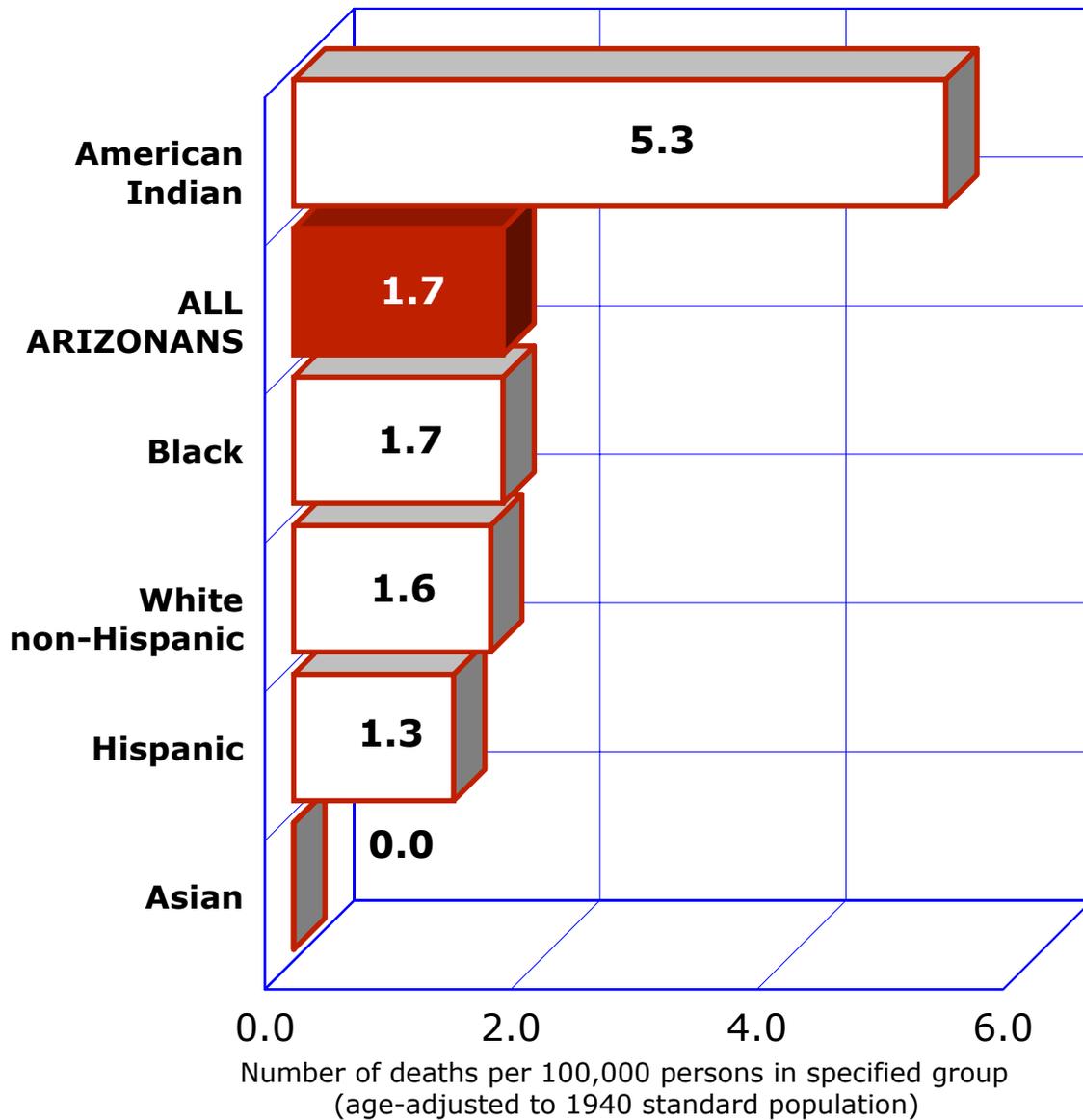
6-3

Mortality from Fall-Related Injuries



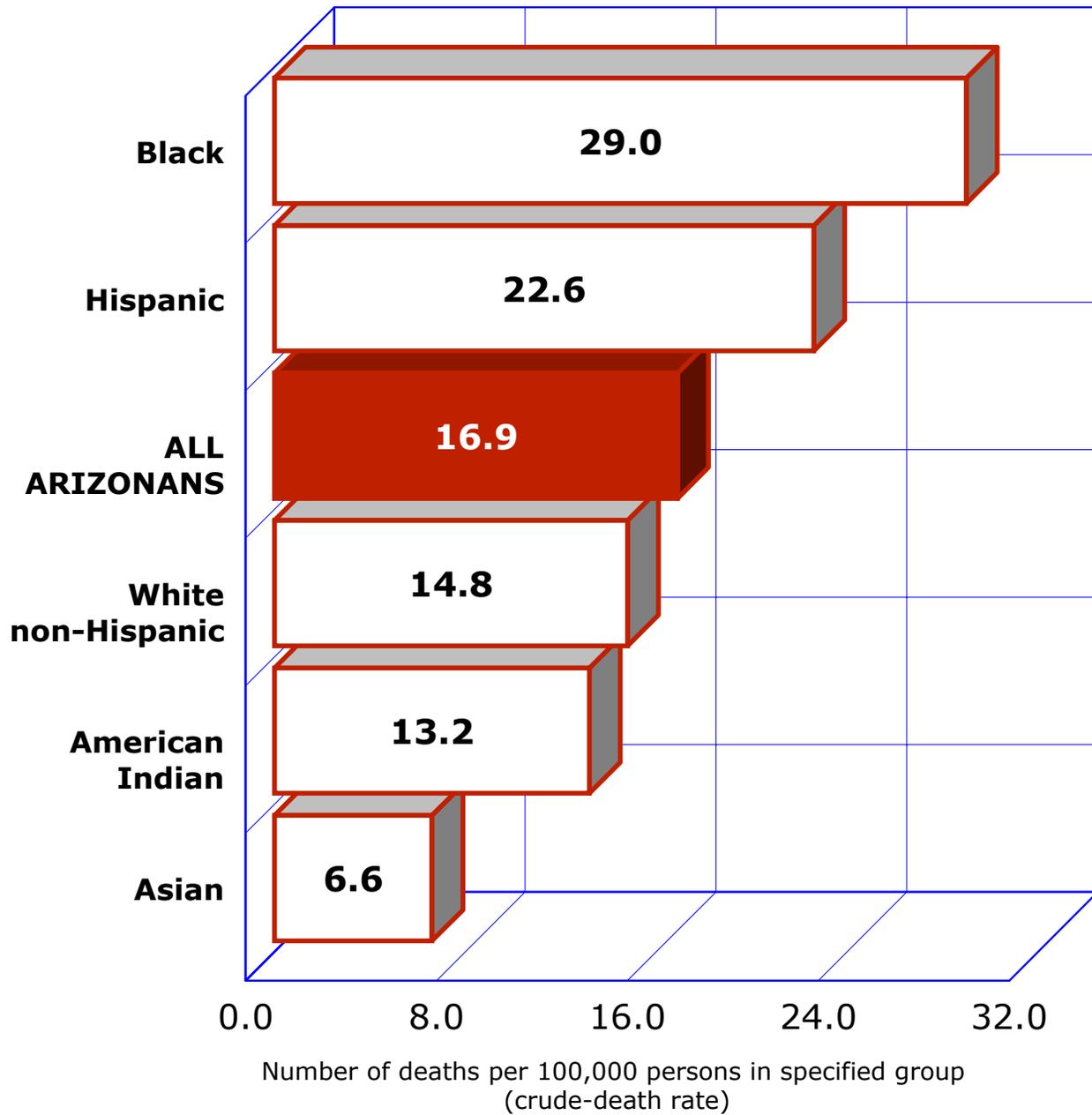
6-4

Drowning Mortality



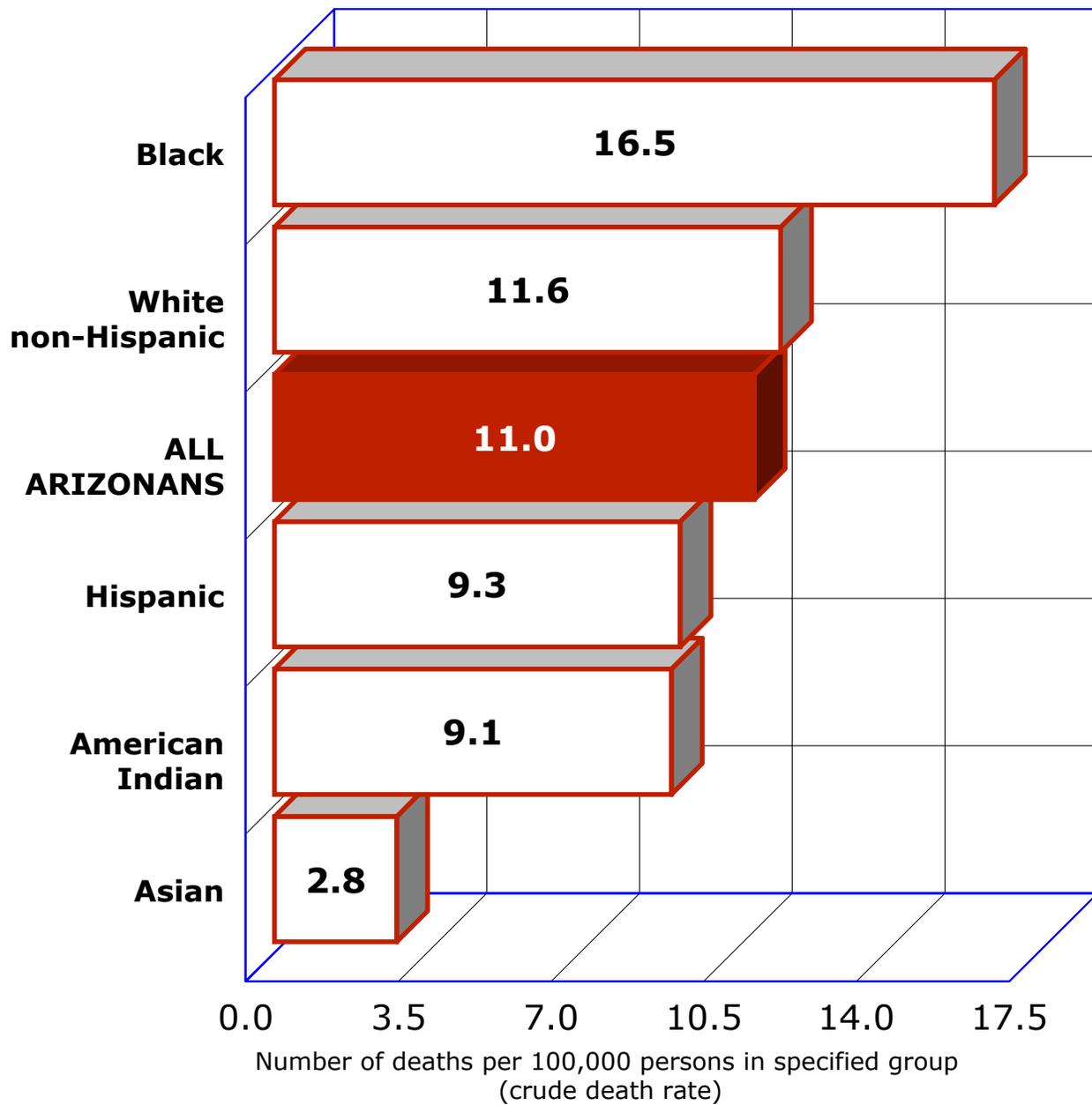
6-5

Firearm-Related Mortality



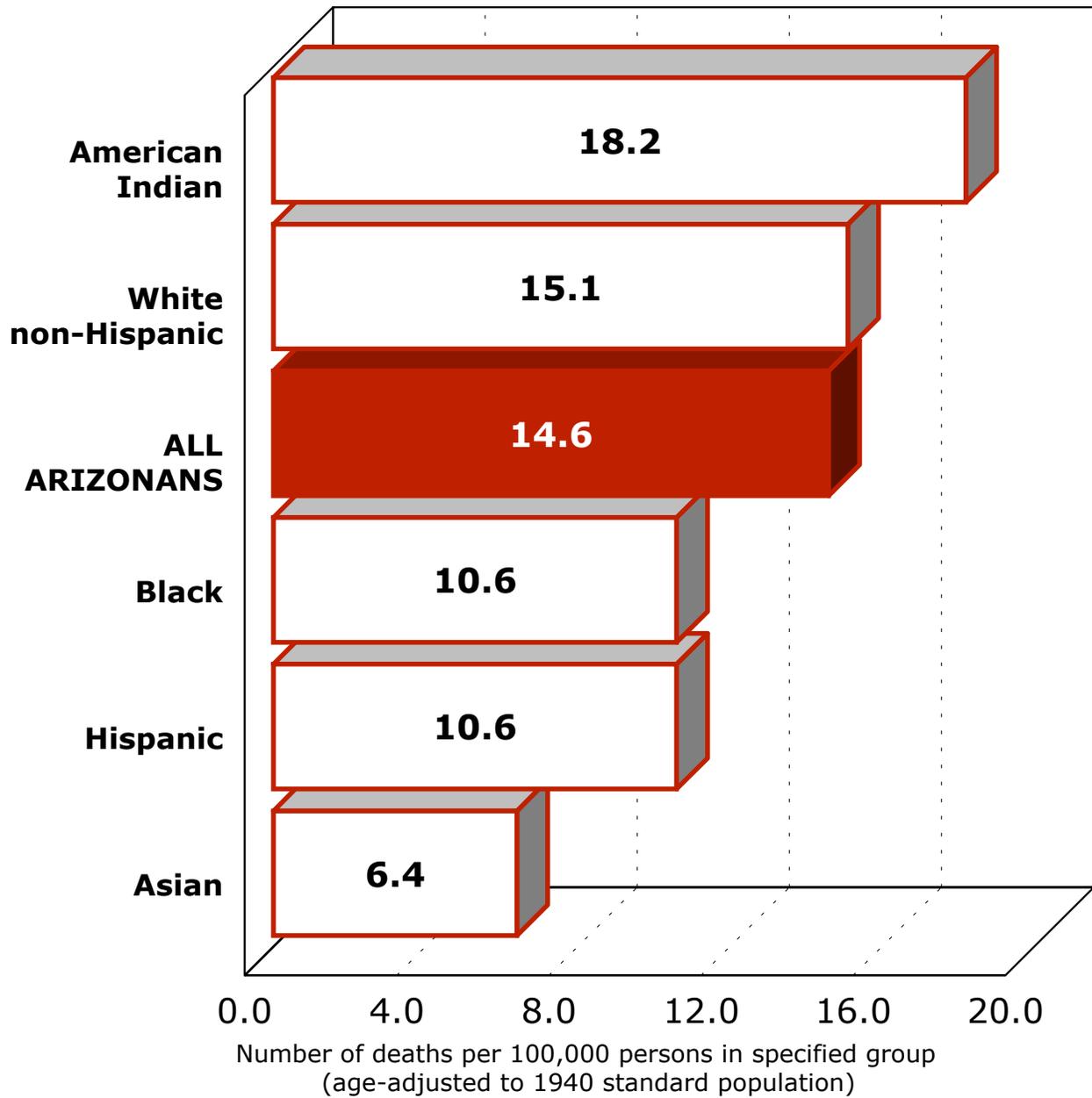
6-6

Drug-Related Mortality



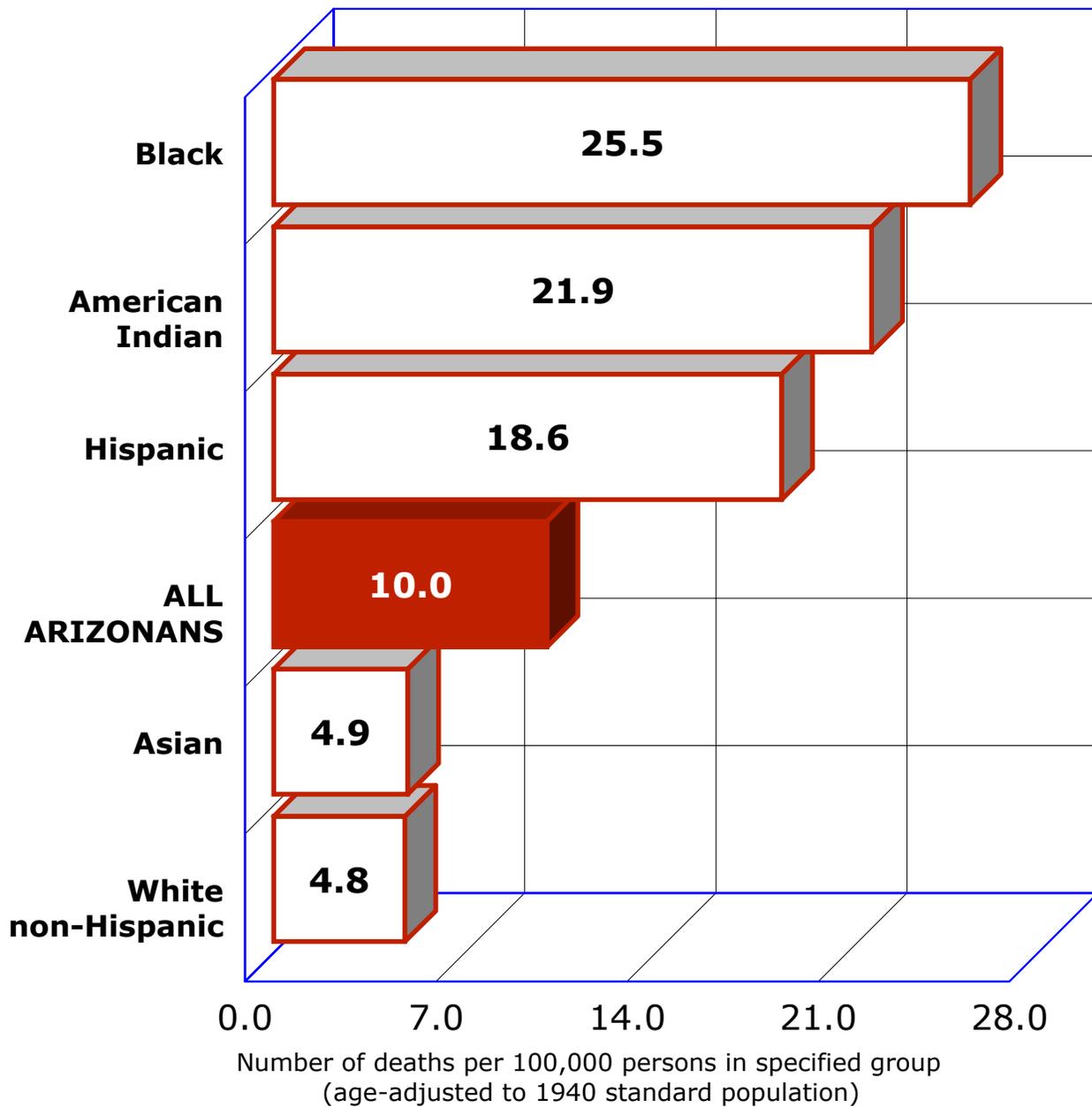
6-7

Suicide Mortality



6-8

Homicide Mortality

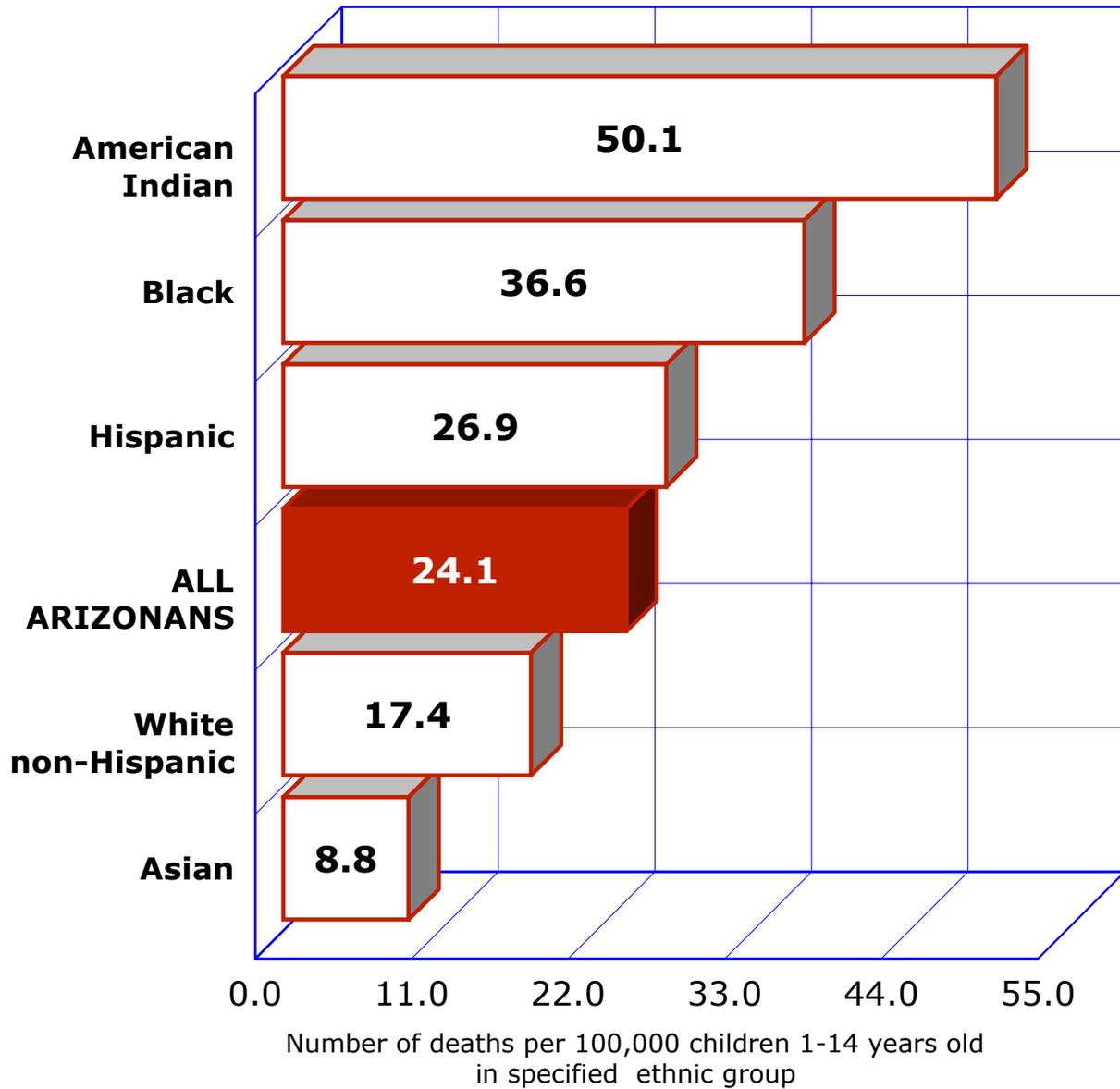


7. AGE-SPECIFIC MORTALITY

- Mortality Among Children
1-14 Years Old**
- Mortality Among Adolescents and Young Adults
15-24 Years Old**
- Mortality Among Adults
25-64 Years Old**

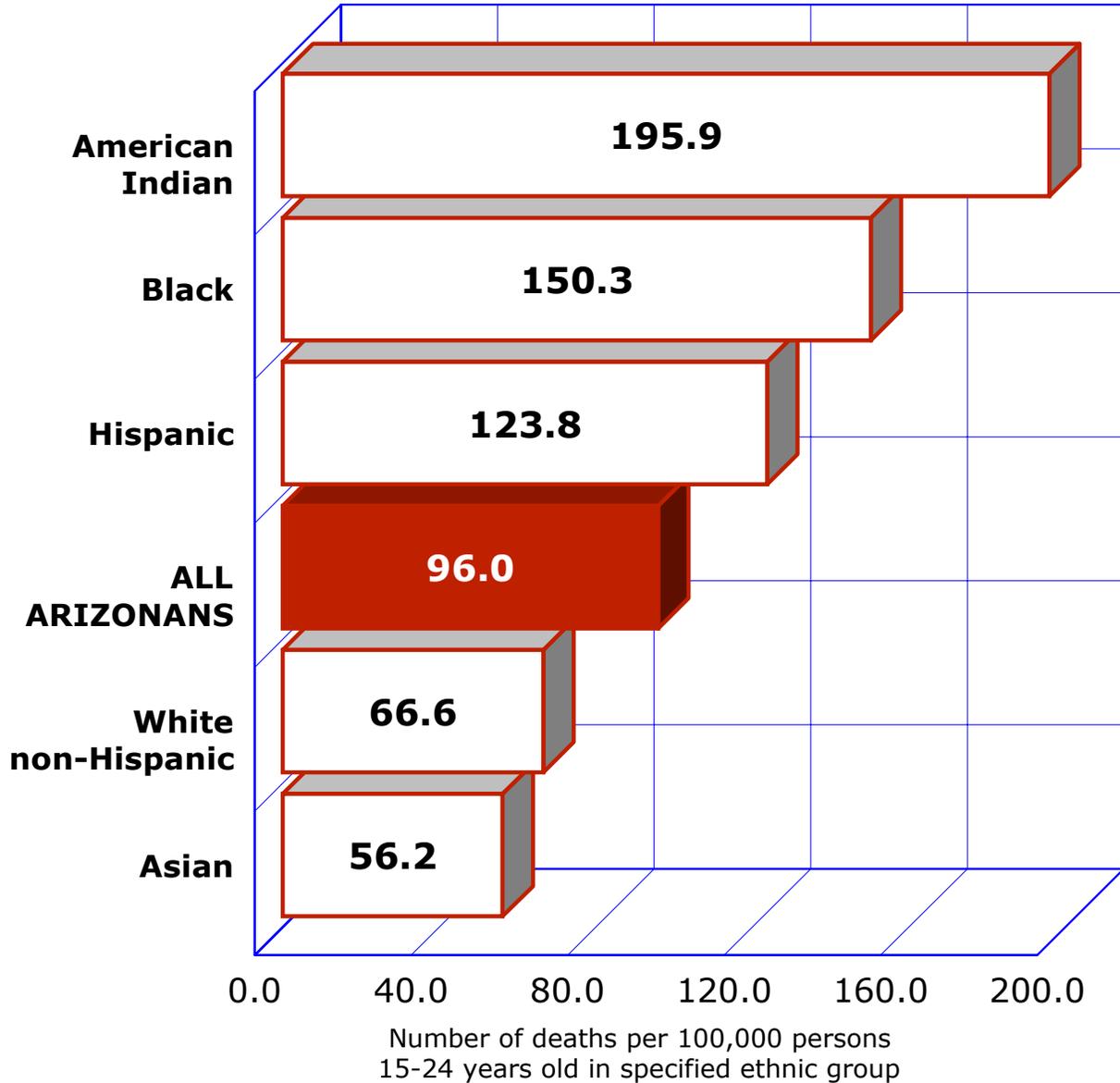
7-1

Mortality of Children 1-14 Years Old



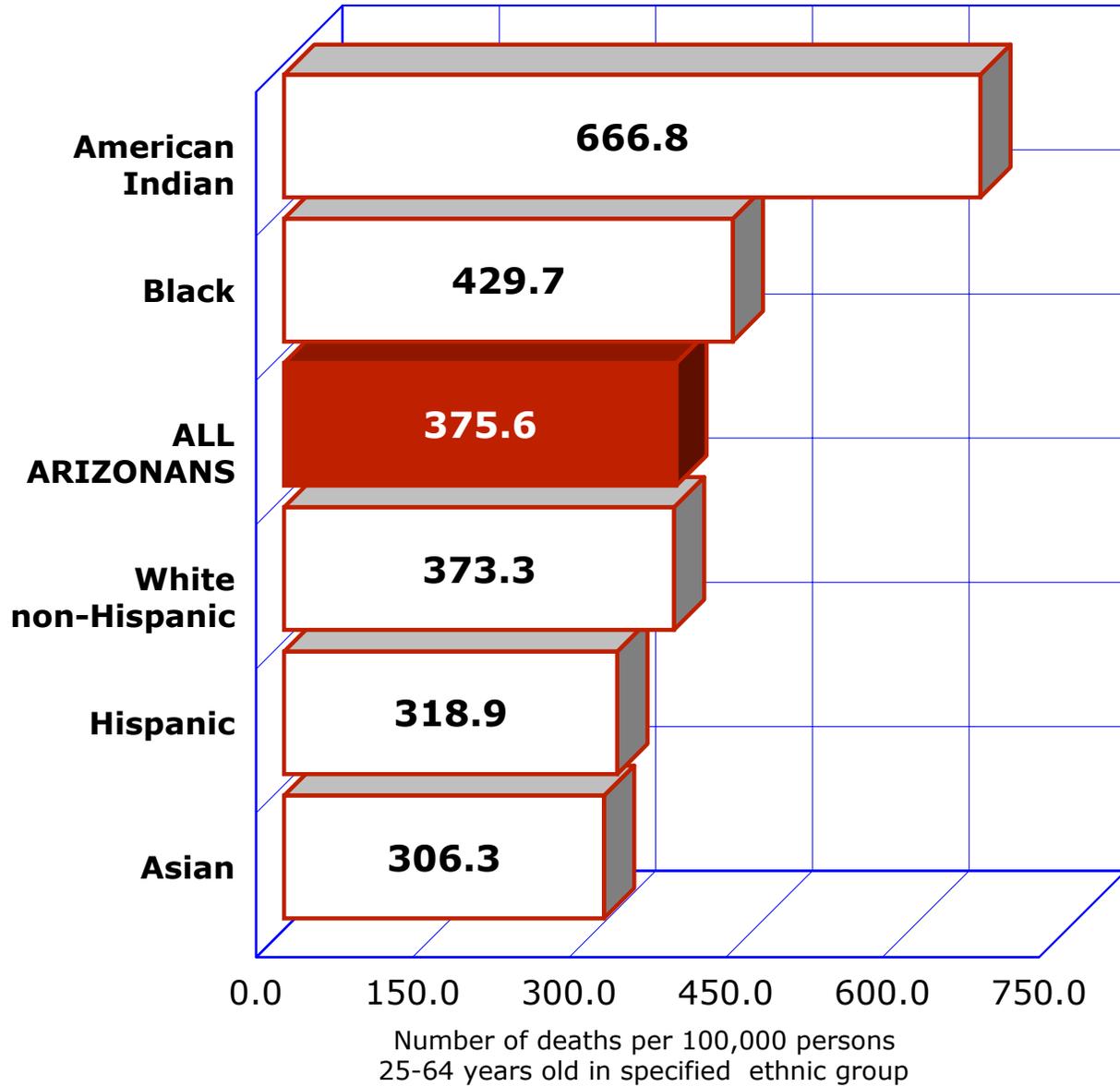
7-2

Mortality of Adolescents and Young Adults 15-24 Years Old



7-3

Mortality among Adults 25-64 Years Old

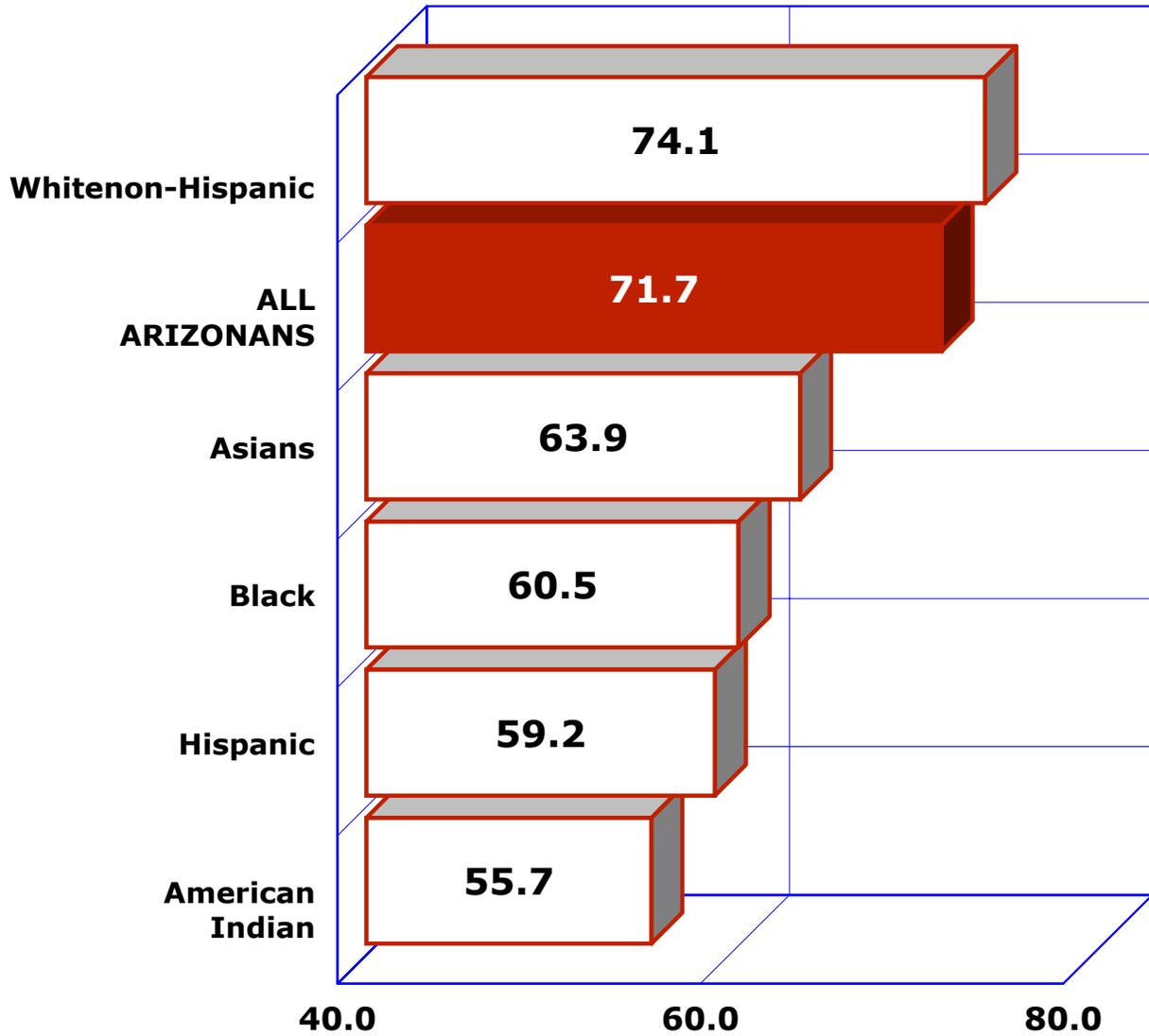


8. Patterns of Premature Mortality

- Average Age At Death From All Causes
Among Arizona Residents**
- Average Age At Death From All Causes
Among Arizona Males**
- Average Age At Death From All Causes
Among Arizona Females**
- Percent of Total Deaths Before Expected
Years of Life Reached**

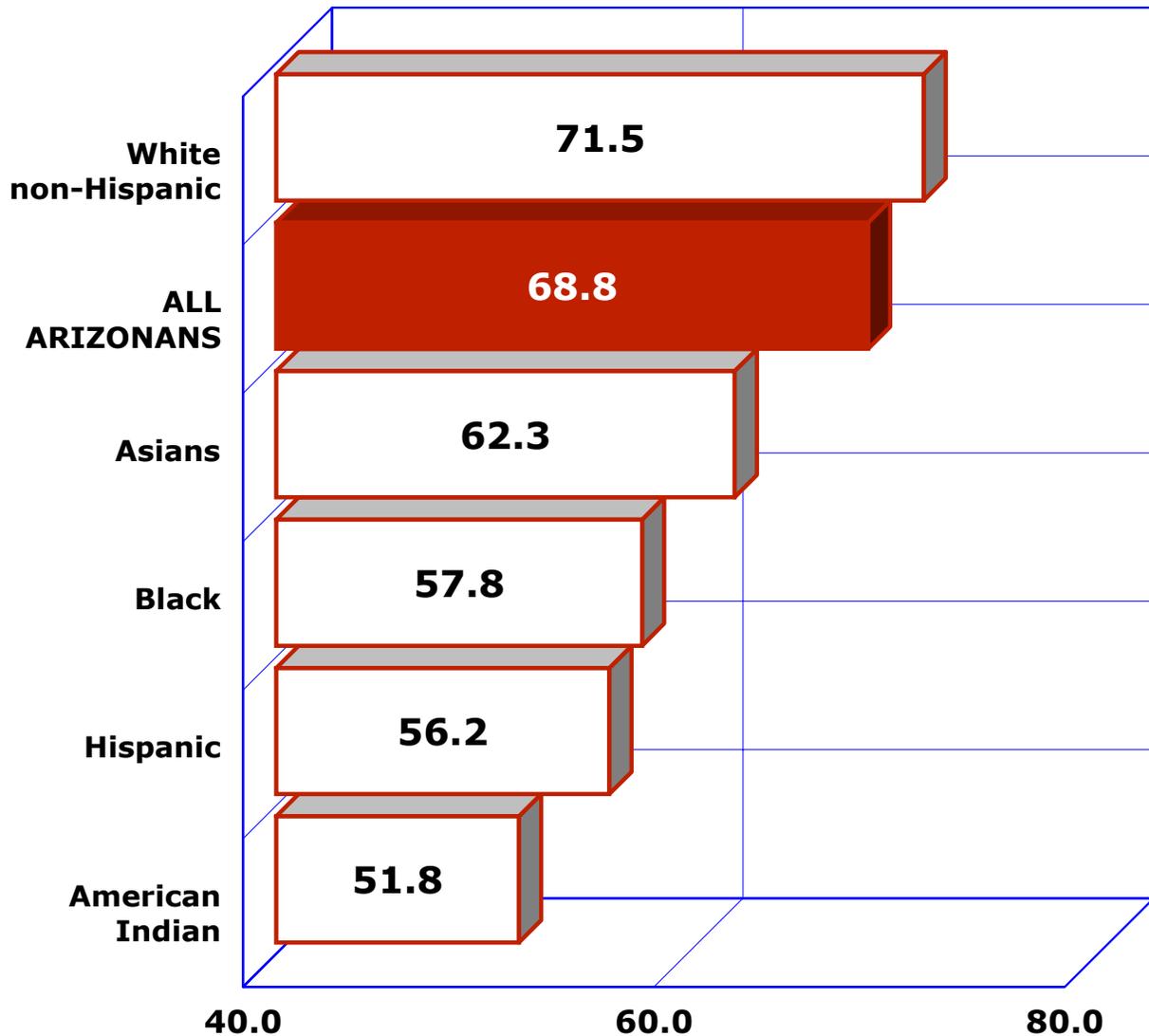
8-1

Average Age At Death From All Causes Among Arizona Residents In 1999



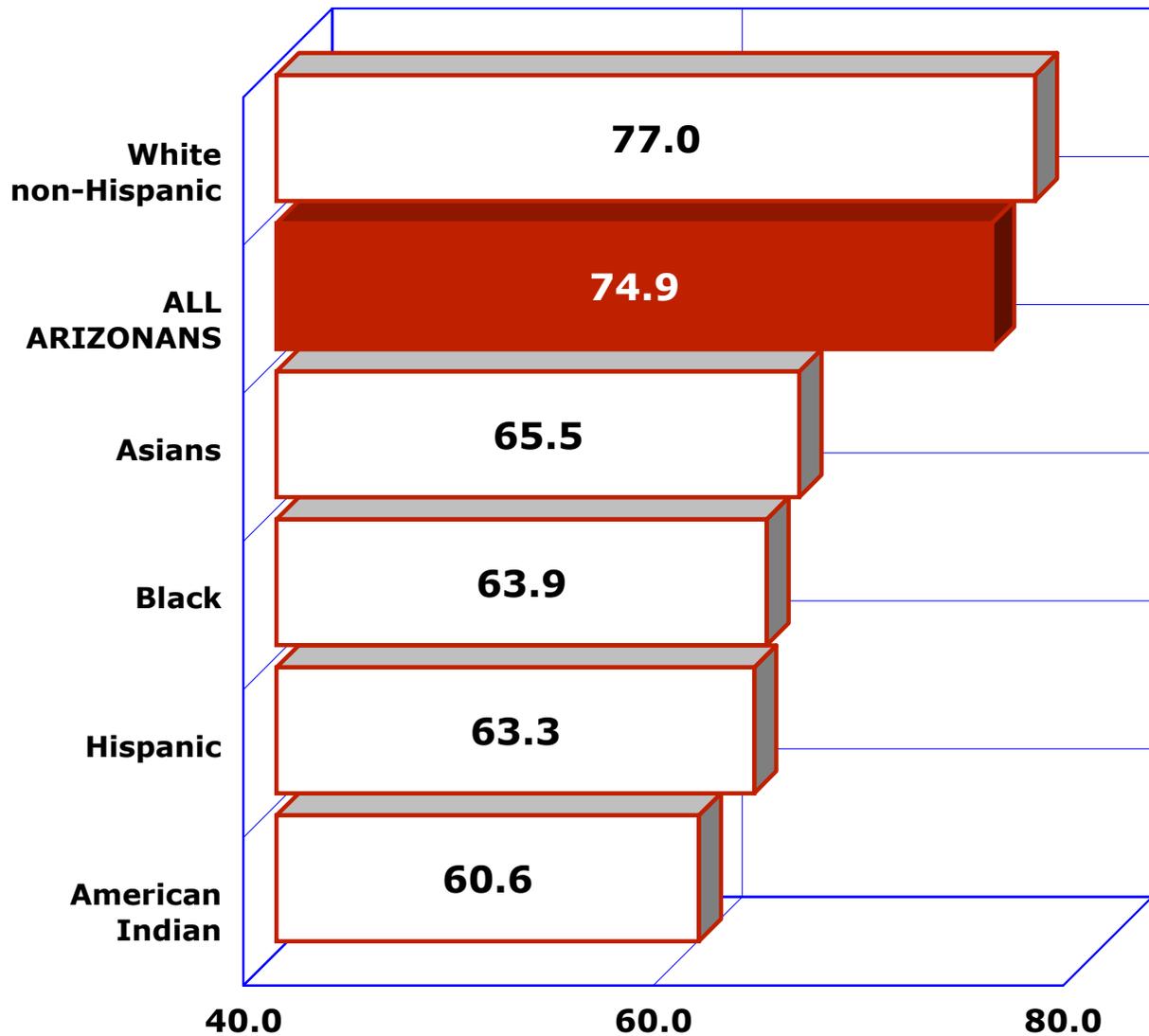
8-2

Average Age At Death From All Causes Among Arizona Males In 1999



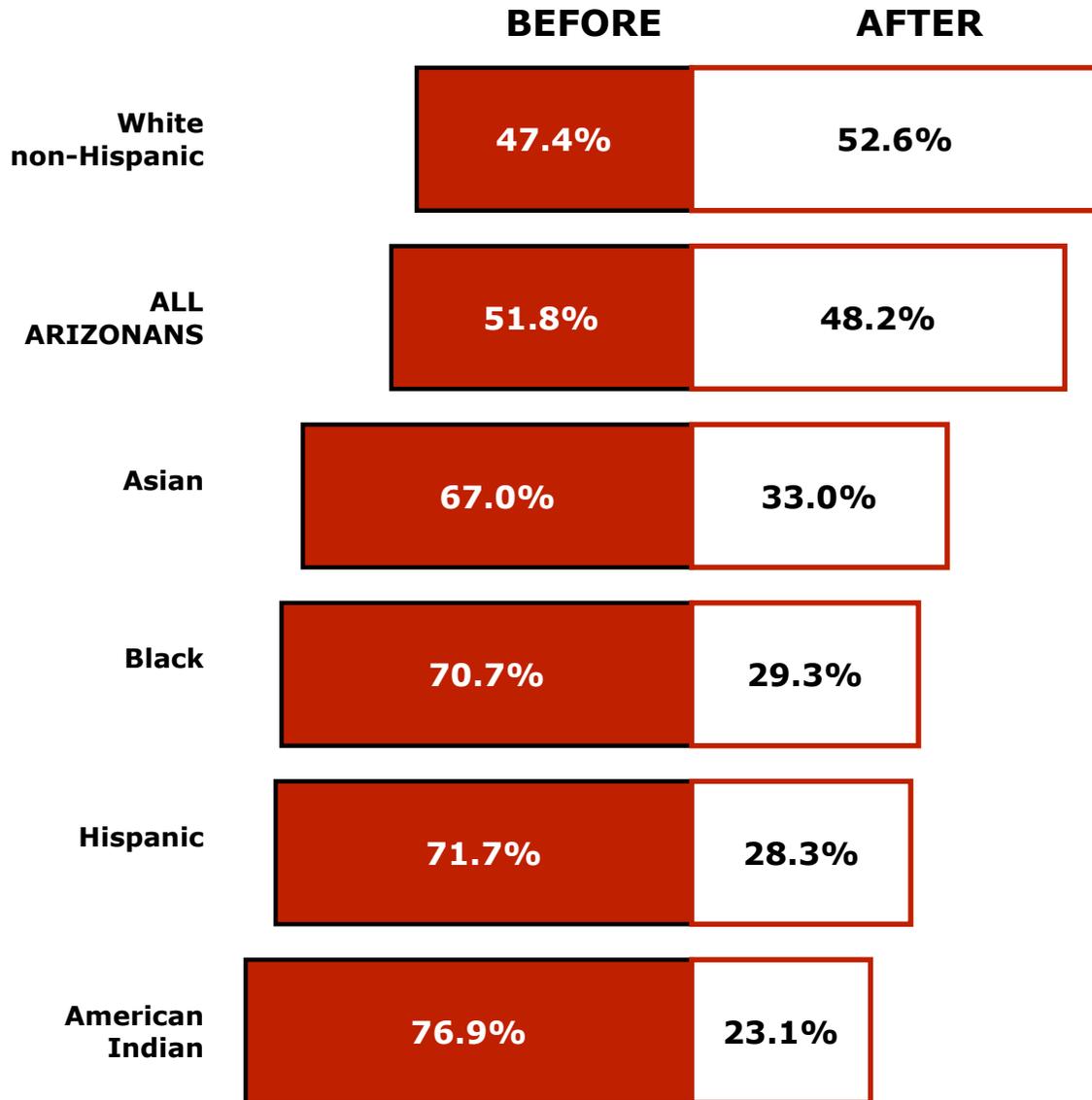
8-3

**Average Age At Death
From All Causes Among
Arizona Females In 1999**



8-4

Percent of Total Deaths Before and After Expected Years of Life Reached*



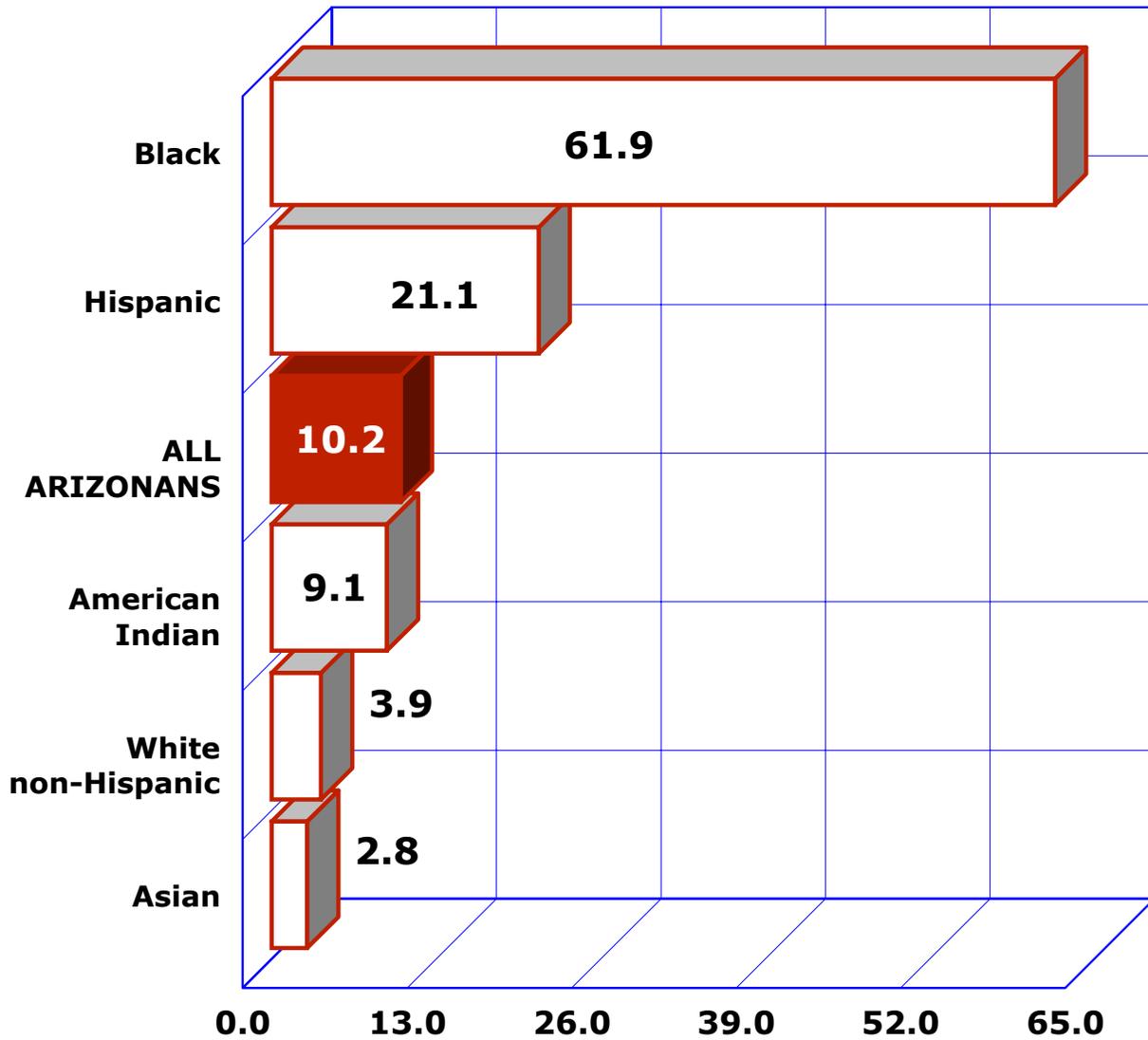
*Percent deaths in specified group in Arizona in 1999 before and after expected years of life at birth or life expectancy of 76.7 years for all U.S. residents.

9. The Incidence of Reportable Diseases

- Incidence Rates of Syphilis**
- Incidence Rates of Gonorrhea**
- Incidence Rates of Chlamydia**
- Incidence Rates of Genital Herpes**
- Incidence Rates of AIDS**

9-1

Incidence Rates of Early Syphilis

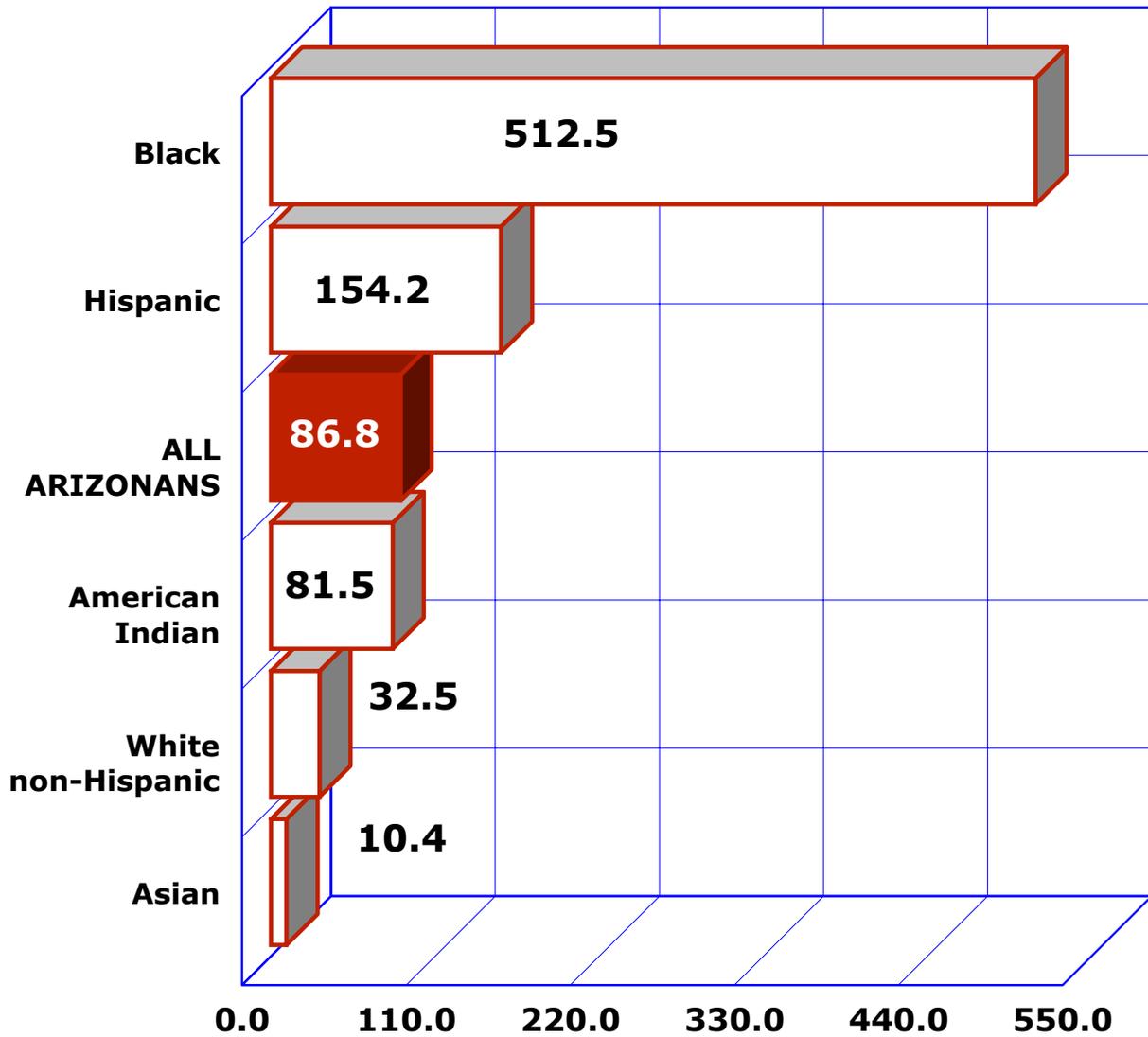


Number of cases reported in 1999 per 100,000 population in specified group

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/STD Services

9-2

Incidence Rates of Gonorrhea

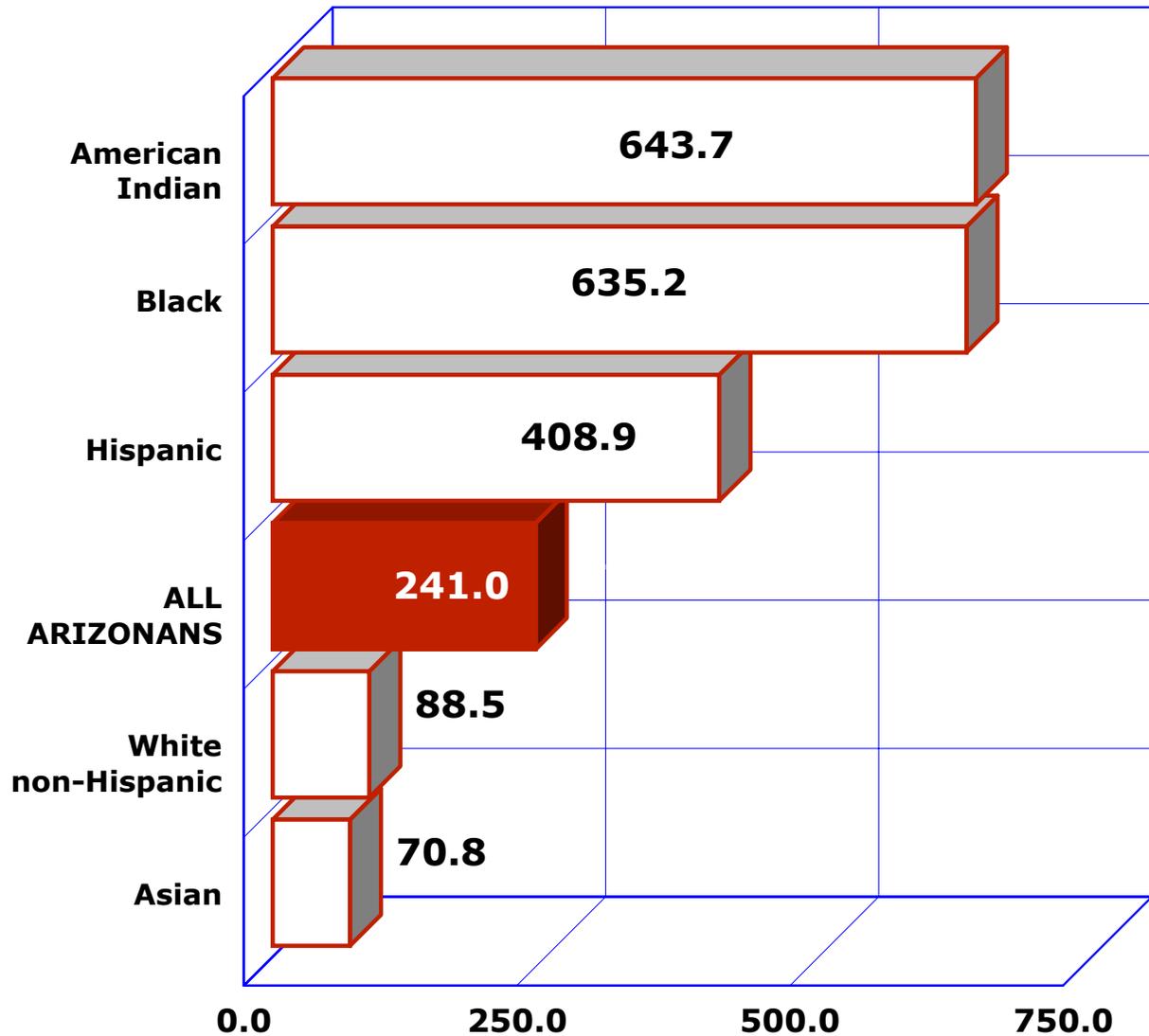


Number of cases reported in 1999 per 100,000 population in specified group

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/STD Services

9-3

Incidence Rates of Chlamydia

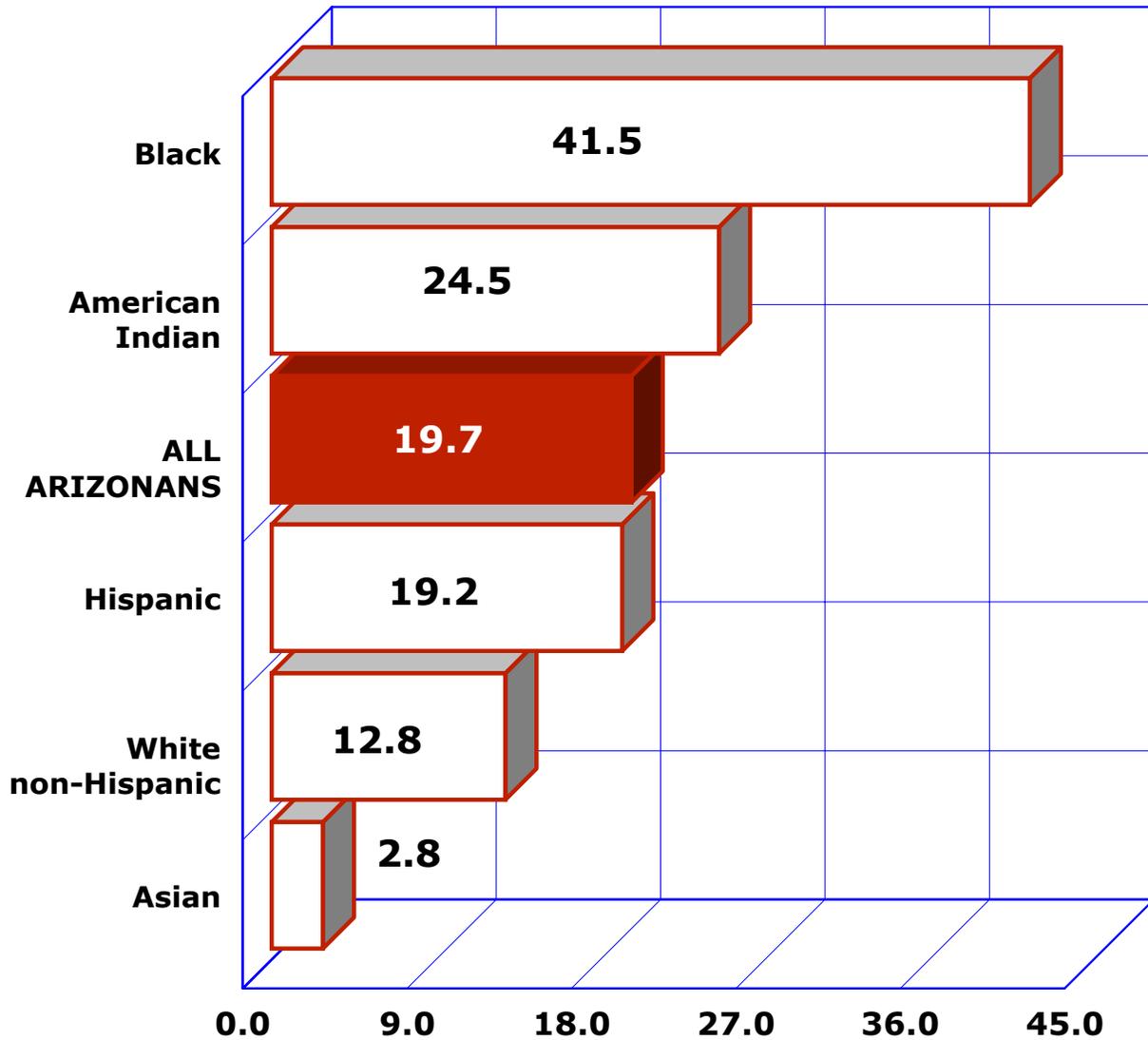


Number of cases reported in 1999 per 100,000 population in specified group

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/STD Services

9-4

Incidence Rates of Genital Herpes

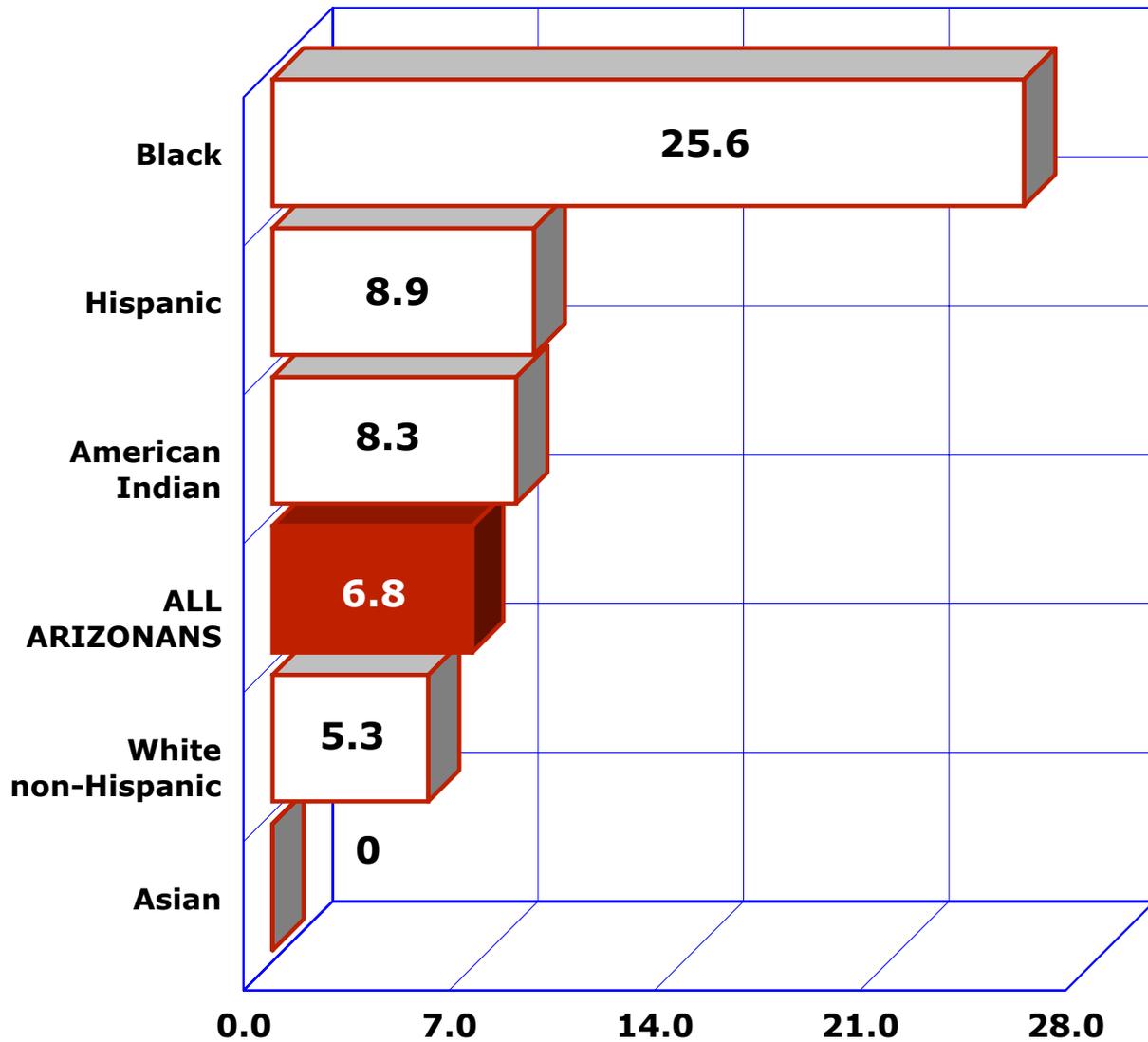


Number of cases reported in 1999 per 100,000 population in specified group

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/STD Services

9-5

Incidence Rates of AIDS



Number of cases reported in 1999 per 100,000 population in specified group

Source: Arizona Department of Health Services, Bureau of Epidemiology and Disease Control, Office of HIV/STD Services

RATES AND RATIOS FOR 1999

RATES AND RATIOS

1. TEEN PREGNANCIES

(Number of pregnancies per 1,000 females in specified age group)

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 1-1 | Pregnancies among females 19 and younger | 36.1 | 21.0 | 66.1 | 40.8 | 33.1 | 16.3 |
| 1-2 | Pregnancies among females 14 and younger | 0.9 | 0.4 | 1.6 | 1.5 | 1.5 | 0.5 |
| 1-3 | Pregnancies among females 15-17 years old | 40.2 | 20.4 | 80.4 | 47.7 | 39.5 | 11.2 |
| 1-4 | Pregnancies among females 18-19 years old | 122.7 | 74.6 | 215.5 | 141.4 | 124.5 | 67.9 |

2. MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS

(All ratios are per 100 live births)

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|------------------------------------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 2-1 | Unmarried mothers | 38.8 | 24.8 | 50.3 | 64.0 | 69.2 | 18.1 |
| 2-2 | Tobacco use | 7.3 | 11.7 | 2.5 | 10.4 | 3.5 | 2.9 |
| 2-3 | Alcohol use | 0.5 | 1.3 | 0.5 | 1.7 | 3.0 | 0.5 |
| 2-4 | Chronic hypertension | 0.3 | 0.3 | 0.2 | 0.8 | 0.9 | 0.2 |
| 2-5 | Dysfunctional labor | 0.9 | 1.0 | 0.6 | 1.1 | 1.5 | 1.3 |
| 2-6 | Anemia during pregnancy | 2.1 | 2.3 | 1.3 | 2.7 | 5.1 | 1.4 |
| 2-7 | Diabetes during pregnancy | 2.2 | 1.7 | 1.9 | 1.9 | 6.6 | 3.6 |
| 2-8 | Pregnancy-associated hypertension | 2.8 | 3.4 | 1.8 | 2.7 | 5.6 | 2.3 |
| 2-9 | Genital herpes during pregnancy | 0.7 | 1.1 | 0.2 | 0.7 | 0.3 | 0.3 |
| 2-10 | Weight gain of less than 21 pounds | 19.2 | 16.5 | 20.4 | 22.3 | 29.3 | 17.4 |

3. UTILIZATION OF PRENATAL CARE SERVICES

(Per 100 live births)

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|------------------------------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 3-1 | Early prenatal care | 74.1 | 84.7 | 62.7 | 71.1 | 64.1 | 81.5 |
| 3-2 | Five or more prenatal visits | 88.4 | 93.3 | 83.4 | 83.3 | 84.5 | 92.6 |
| 3-3 | No prenatal care | 2.2 | 0.8 | 3.9 | 1.9 | 2.4 | 0.9 |

4. NEWBORN'S HEALTH

(Infant, neonatal and postneonatal rates are per 1,000 live births. All other indicators are expressed per 100 live births).

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 4-1 | Hyaline membrane disease | 0.5 | 0.7 | 0.2 | 0.3 | 0.2 | 0.3 |
| 4-2 | Newborn intensive care | 6.6 | 6.6 | 6.9 | 9.3 | 4.8 | 5.5 |
| 4-3 | Low-birthweight | 7.0 | 6.7 | 6.9 | 12.0 | 7.6 | 8.2 |
| 4-4 | Very low-birthweight | 1.2 | 1.2 | 1.2 | 2.5 | 1.4 | 1.0 |
| 4-5 | Congenital anomalies | 1.3 | 1.3 | 0.9 | 1.2 | 2.9 | 1.0 |
| 4-6 | Infant mortality | 6.8 | 5.7 | 7.2 | 13.8 | 8.5 | 2.2 |
| 4-7 | Sudden Infant Death Syndrome (SIDS) | 0.5 | 0.3 | 0.4 | 1.3 | 0.9 | .0 |
| 4-8 | Mortality of infants from low birthweight/short gestation | 0.8 | 0.6 | 0.9 | 1.6 | .0 | .0 |
| 4-9 | Neonatal mortality | 4.5 | 4.2 | 4.6 | 8.2 | 5.0 | 1.3 |
| 4-10 | Postneonatal mortality | 2.3 | 1.5 | 2.6 | 5.6 | 3.5 | 0.9 |

5. MORTALITY FROM NATURAL CAUSES (chronic or infectious diseases)

(Number of deaths per 100,000 population age-adjusted to 1940 standard)

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 5-1 | Cardiovascular Diseases | 161.4 | 164.0 | 131.8 | 192.3 | 152.7 | 65.7 |
| 5-2 | Diseases of the Heart | 120.9 | 123.8 | 94.7 | 142.4 | 114.8 | 37.6 |
| 5-3 | Coronary Heart Disease | 97.6 | 101.7 | 72.2 | 107.6 | 77.0 | 27.9 |
| 5-4 | Cerebrovascular Disease | 25.9 | 25.5 | 24.7 | 31.1 | 24.1 | 16.2 |
| 5-5 | Chronic Obstructive Pulmonary Disease | 27.8 | 30.5 | 10.2 | 21.9 | 11.4 | 7.1 |
| 5-6 | Malignant Neoplasms (cancer) | 113.1 | 118.4 | 82.6 | 122.3 | 78.1 | 53.3 |
| 5-7 | Lung Cancer | 32.3 | 36.0 | 14.2 | 25.9 | 8.0 | 11.5 |
| 5-8 | Breast Cancer | 17.1 | 18.3 | 10.7 | 24.8 | 8.4 | 8.0 |
| 5-9 | Cervical Cancer | 1.7 | 1.6 | 2.3 | 3.1 | .0 | .0 |
| 5-10 | Colorectal Cancer | 10.0 | 10.3 | 8.2 | 14.9 | 4.4 | 1.9 |
| 5-11 | Prostate Cancer | 11.7 | 12.1 | 8.4 | 15.3 | 6.0 | 4.8 |
| 5-12 | Pneumonia and influenza | 19.7 | 19.4 | 15.0 | 20.0 | 35.4 | 8.4 |
| 5-13 | Diabetes | 13.5 | 10.1 | 26.1 | 23.1 | 63.7 | 7.0 |
| 5-14 | Infectious & Parasitic Diseases (excluding HIV Infection) | 8.2 | 6.9 | 10.6 | 11.4 | 23.6 | 7.9 |
| 5-15 | HIV Infection | 2.9 | 2.4 | 4.0 | 8.1 | 3.6 | 1.0 |
| 5-16 | Septicemia | 4.3 | 3.6 | 5.9 | 6.6 | 16.9 | 1.9 |
| 5-17 | Alzheimer's Disease | 5.5 | 5.8 | 3.7 | 5.0 | 1.4 | 1.0 |
| 5-18 | Nephritis, Nephrotic Syndrome & Nephrosis | 5.0 | 4.3 | 6.7 | 12.1 | 14.9 | 3.1 |
| 5-19 | Alcoholism | 6.9 | 5.7 | 6.4 | 3.6 | 40.5 | 1.0 |
| 5-20 | Total mortality from all causes | 507.1 | 492.2 | 447.1 | 586.1 | 747.2 | 210.2 |

6. MORTALITY FROM INJURIES

(Number of deaths per 100,000 population age-adjusted to 1940 standard)

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|--------------------------------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 6-1 | Unintentional injuries | 39.8 | 32.1 | 44.5 | 35.2 | 121.5 | 20.0 |
| 6-2 | Motor vehicle-related injuries | 19.7 | 13.8 | 25.1 | 17.1 | 71.5 | 14.3 |
| 6-3 | Fall-related injuries | 4.8 | 4.4 | 4.4 | 2.6 | 9.7 | 1.9 |
| 6-4 | Drowning mortality | 1.7 | 1.6 | 1.3 | 1.7 | 5.3 | .0 |
| 6-5 | Firearm-related deaths* | 16.9 | 14.8 | 22.6 | 29.0 | 13.2 | 6.6 |
| 6-6 | Drug-related deaths* | 11.0 | 11.6 | 9.3 | 16.5 | 9.1 | 2.8 |
| 6-7 | Suicide | 14.6 | 15.1 | 10.6 | 10.6 | 18.2 | 6.4 |
| 6-8 | Homicide | 10.0 | 4.8 | 18.6 | 25.5 | 21.9 | 4.9 |

* Crude death rates (number of deaths per 100,000 population in specified group)

7. AGE-SPECIFIC MORTALITY

(Number of deaths per 100,000 persons in specified group)

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 7-1 | Mortality of children 1-14 years old | 24.1 | 17.4 | 26.9 | 36.6 | 50.1 | 8.8 |
| 7-2 | Mortality of adolescents and young adults 15-24 years old | 96.0 | 66.6 | 123.8 | 150.3 | 195.9 | 56.2 |
| 7-3 | Mortality of adults 25-64 years old | 375.6 | 373.3 | 318.9 | 429.7 | 666.8 | 306.3 |

8. PREMATURE MORTALITY

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 8-1 | Average age at death from all causes | 71.7 | 74.1 | 59.2 | 60.5 | 55.7 | 63.9 |
| 8-2 | Average age at death from all causes among males | 68.8 | 71.5 | 56.2 | 57.8 | 51.8 | 62.3 |
| 8-3 | Average age at death from all causes among females | 74.9 | 77.0 | 63.3 | 63.9 | 60.6 | 65.5 |
| 8-4 | Percent of total deaths before expected years of life reached | 51.8 | 47.4 | 71.7 | 70.7 | 76.9 | 67.0 |

9. REPORTABLE DISEASES

(Number of cases per 100,000 persons in specified group)

| Figure number | Indicator | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|-----------------------------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 9-1 | Incidence of early syphilis | 10.2 | 3.9 | 21.1 | 61.9 | 9.1 | 2.8 |
| 9-2 | Incidence of gonorrhea | 86.8 | 32.5 | 154.2 | 512.5 | 81.5 | 10.4 |
| 9-3 | Incidence of chlamydia | 241.0 | 88.5 | 408.9 | 635.2 | 643.7 | 70.8 |
| 9-4 | Incidence of genital herpes | 19.7 | 12.8 | 19.2 | 41.5 | 24.5 | 2.8 |
| 9-5 | Incidence of AIDS | 6.8 | 5.3 | 8.9 | 25.6 | 8.3 | .0 |

SCORES IN 1999

SCORES

(A score is the percent above or below the average rate or ratio for all Arizona residents.
A **negative score** indicates **better than average** standing on an indicator.)

1. TEEN PREGNANCIES

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|---|--------------------|----------|---------------------------|-----------------|---------------------------|
| 1-1 | Pregnancies among females 19 and younger | -41.8 | 83.1 | 13.0 | -8.3 | -54.8 |
| 1-2 | Pregnancies among females 14 and younger | -55.6 | 77.8 | 66.7 | 66.7 | -44.4 |
| 1-3 | Pregnancies among females 15-17 years old | -49.3 | 100.0 | 18.7 | -1.7 | -72.1 |
| 1-4 | Pregnancies among females 18-19 years old | -39.2 | 75.6 | 15.2 | 1.5 | -44.7 |
| TOTAL SCORE | | -185.9 | 336.5 | 113.6 | 58.2 | -216.0 |
| AVERAGE SCORE | | -46.5 | 84.1 | 28.4 | 14.6 | -54.0 |

2. MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|------------------------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 2-1 | Unmarried mothers | -36.1 | 29.6 | 64.9 | 78.4 | -53.4 |
| 2-2 | Tobacco use | 60.3 | -65.8 | 42.5 | -52.1 | -60.3 |
| 2-3 | Alcohol use | 160.0 | .0 | 240.0 | 500.0 | .0 |
| 2-4 | Chronic hypertension | .0 | -33.3 | 166.7 | 200.0 | -33.3 |
| 2-5 | Dysfunctional labor | 11.1 | -33.3 | 22.2 | 66.7 | 44.4 |
| 2-6 | Anemia during pregnancy | 9.5 | -38.1 | 28.6 | 142.9 | -33.3 |
| 2-7 | Diabetes during pregnancy | -22.7 | -13.6 | -13.6 | 200.0 | 63.6 |
| 2-8 | Pregnancy-associated hypertension | 21.4 | -35.7 | -3.6 | 100.0 | -17.9 |
| 2-9 | Genital herpes during pregnancy | 57.1 | -71.4 | .0 | -57.1 | -57.1 |
| 2-10 | Weight gain of less than 21 pounds | -14.1 | 6.3 | 16.1 | 52.6 | -9.4 |
| TOTAL SCORE | | 246.5 | -255.3 | 563.8 | 1231.4 | -156.7 |
| AVERAGE SCORE | | 24.7 | -25.5 | 56.4 | 123.1 | -15.7 |

3. UTILIZATION OF PRENATAL CARE SERVICES

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|------------------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 3-1 | Early prenatal care | -14.3 | 15.4 | 4.0 | 13.5 | -10.0 |
| 3-2 | Five or more prenatal visits | -5.5 | 5.7 | 5.8 | 4.4 | -4.8 |
| 3-3 | No prenatal care | -63.6 | 77.3 | -13.6 | 9.1 | -59.1 |
| TOTAL SCORE | | -83.4 | 98.4 | -3.8 | 27.0 | -73.9 |
| AVERAGE SCORE | | -27.8 | 32.8 | -1.3 | 9.0 | -24.6 |

4. NEWBORN'S HEALTH

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|---|--------------------|----------|---------------------------|-----------------|---------------------------|
| 4-1 | Hyaline membrane disease | 40.0 | -60.0 | -40.0 | -60.0 | -40.0 |
| 4-2 | Newborn intensive care | .0 | 4.5 | 40.9 | -27.3 | -16.7 |
| 4-3 | Low birthweight | -4.3 | -1.4 | 71.4 | 8.6 | 17.1 |
| 4-4 | Very low birthweight | .0 | .0 | 108.3 | 16.7 | -16.7 |
| 4-5 | Congenital anomalies | .0 | -30.8 | -7.7 | 123.1 | -23.1 |
| 4-6 | Infant mortality | -16.2 | 5.9 | 102.9 | 25.0 | -67.6 |
| 4-7 | Sudden Infant Death Syndrome (SIDS) | -40.0 | -20.0 | 160.0 | 80.0 | -100.0 |
| 4-8 | Mortality of infants from low birthweight/short gestation | -25.0 | 12.5 | 100.0 | -100.0 | -100.0 |
| 4-9 | Neonatal mortality | -6.7 | 2.2 | 82.2 | 11.1 | -71.1 |
| 4-10 | Postneonatal mortality | -34.8 | 13.0 | 143.5 | 52.2 | -60.9 |
| TOTAL SCORE | | -87.0 | -74.1 | 761.5 | 129.4 | -479.0 |
| AVERAGE SCORE | | -8.7 | -7.4 | 76.2 | 12.9 | -47.9 |

5. MORTALITY FROM NATURAL CAUSES (chronic or infectious diseases)

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|---|--------------------|----------|---------------------------|-----------------|---------------------------|
| 5-1 | Cardiovascular Diseases | 1.6 | -18.3 | 19.1 | -5.4 | -59.3 |
| 5-2 | Diseases of the Heart | 2.4 | -21.7 | 17.8 | -5.0 | -68.9 |
| 5-3 | Coronary Heart Disease | 4.2 | -26.0 | 10.2 | -21.1 | -71.4 |
| 5-4 | Cerebrovascular Disease | -1.5 | -4.6 | 20.1 | -6.9 | -37.5 |
| 5-5 | Chronic Obstructive Pulmonary Disease | 9.7 | -63.3 | -21.2 | -59.0 | -74.5 |
| 5-6 | Malignant Neoplasms (cancer) | 4.7 | -27.0 | 8.1 | -30.9 | -52.9 |
| 5-7 | Lung Cancer | 11.5 | -56.0 | -19.8 | -75.2 | -64.4 |
| 5-8 | Breast Cancer | 7.0 | -37.4 | 45.0 | -50.9 | -53.2 |
| 5-9 | Cervical Cancer | -5.9 | 35.3 | 82.4 | -100.0 | -100.0 |
| 5-10 | Colorectal Cancer | 3.0 | -18.0 | 49.0 | -56.0 | -81.0 |
| 5-11 | Prostate Cancer | 3.4 | -28.2 | 30.8 | -48.7 | -59.0 |
| 5-12 | Pneumonia and influenza | -1.5 | -23.9 | 1.5 | 79.7 | -57.4 |
| 5-13 | Diabetes | -25.2 | 93.3 | 71.1 | 371.9 | -48.1 |
| 5-14 | Infectious & Parasitic Diseases (excluding HIV Infection) | -15.9 | 29.3 | 39.0 | 187.8 | -3.7 |
| 5-15 | HIV Infection | -17.2 | 37.9 | 179.3 | 24.1 | -65.5 |
| 5-16 | Septicemia | -16.3 | 37.2 | 53.5 | 293.0 | -55.8 |
| 5-17 | Alzheimer's Disease | 5.5 | -32.7 | -9.1 | -74.5 | -81.8 |
| 5-18 | Nephritis, Nephrotic Syndrome & Nephrosis | -14.0 | 34.0 | 142.0 | 198.0 | -38.0 |
| 5-19 | Alcoholism | -17.4 | -7.2 | -47.8 | 487.0 | -85.5 |
| 5-20 | Total mortality from all causes | -2.9 | -11.8 | 15.6 | 47.3 | -58.5 |
| TOTAL SCORE | | -64.8 | -109.1 | 686.6 | 1155.2 | -1216.4 |
| AVERAGE SCORE | | -3.2 | -5.5 | 34.3 | 57.8 | -60.8 |

6. MORTALITY FROM INJURIES

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|--------------------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 6-1 | Unintentional injuries | -19.3 | 11.8 | -11.6 | 205.3 | -49.7 |
| 6-2 | Motor vehicle-related injuries | -29.9 | 27.4 | -13.2 | 262.9 | -27.4 |
| 6-3 | Fall-related injuries | -8.3 | -8.3 | -45.8 | 102.1 | -60.4 |
| 6-4 | Drowning mortality | -5.9 | -23.5 | .0 | 211.8 | -100.0 |
| 6-5 | Firearm-related deaths* | -12.4 | 33.7 | 71.6 | -21.9 | -60.9 |
| 6-6 | Drug-related deaths* | 5.5 | -15.5 | 50.0 | -17.3 | -74.5 |
| 6-7 | Suicide | 3.4 | -27.4 | -27.4 | 24.7 | -56.2 |
| 6.8 | Homicide | -52.0 | 86.0 | 155.0 | 119.0 | -51.0 |
| TOTAL SCORE | | -118.9 | 84.2 | 178.6 | 886.6 | -480.1 |
| AVERAGE SCORE | | -14.9 | 10.5 | 22.3 | 110.8 | -60.0 |

7. AGE-SPECIFIC MORTALITY

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|---|--------------------|----------|---------------------------|-----------------|---------------------------|
| 7-1 | Mortality of children 1-14 years old | -27.8 | 11.6 | 51.9 | 107.9 | -63.5 |
| 7-2 | Mortality of adolescents and young adults 15-24 years old | -30.6 | 29.0 | 56.6 | 104.1 | -41.5 |
| 7-3 | Mortality of adults 25-64 years old | -.6 | -15.1 | 14.4 | 77.5 | -18.5 |
| TOTAL SCORE | | -59.0 | 25.5 | 122.9 | 289.5 | -123.5 |
| AVERAGE SCORE | | -19.7 | 8.5 | 41.0 | 96.5 | -41.2 |

8. PREMATURE MORTALITY

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|---|--------------------|----------|---------------------------|-----------------|---------------------------|
| 8-1 | Average age at death from all causes | -3.3 | 17.4 | 15.6 | 22.3 | 10.9 |
| 8-2 | Average age at death from all causes among males | -3.9 | 18.3 | 16.0 | 24.7 | 9.4 |
| 8-3 | Average age at death from all causes among females | -2.8 | 15.5 | 14.7 | 19.1 | 12.6 |
| 8-4 | Percent of total deaths before expected years of life reached | -8.5 | 38.4 | 36.5 | 48.5 | 29.3 |
| TOTAL SCORE | | -18.5 | 89.6 | 82.8 | 114.6 | 62.2 |
| AVERAGE SCORE | | -4.6 | 22.4 | 20.7 | 28.7 | 15.6 |

9. REPORTABLE DISEASES

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|----------------------|-----------------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 9-1 | Incidence of early syphilis | -61.8 | 106.9 | 506.9 | -10.8 | -72.5 |
| 9-2 | Incidence of gonorrhea | -62.6 | 77.6 | 490.4 | -6.1 | -88.0 |
| 9-3 | Incidence of chlamydia | -63.3 | 69.7 | 163.6 | 167.1 | -70.6 |
| 9-4 | Incidence of genital herpes | -35.0 | -2.5 | 110.7 | 24.4 | -85.8 |
| 9-5 | Incidence of AIDS | -22.1 | 30.9 | 276.5 | 22.1 | -100.0 |
| TOTAL SCORE | | -244.8 | 282.6 | 1548.1 | 196.7 | -416.9 |
| AVERAGE SCORE | | -49.0 | 56.5 | 309.6 | 39.3 | -83.4 |

OVERALL HEALTH STATUS (ALL 67 INDICATORS)

| | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|--|--------------------|----------|---------------------------|-----------------|---------------------------|
| SUM OF ALL SCORES FOR 67 INDICATORS | -615.8 | 478.3 | 4,054.1 | 4,088.6 | -3,100.3 |
| AVERAGE OF ALL SCORES FOR 67 INDICATORS | -9.2 | 7.1 | 60.5 | 61.0 | -46.3 |

RANKING ORDER IN 1999

RANK ORDER

(A rank is the ordering of each ethnic group according to score.)

1 = RANKS BEST AMONG ETHNIC GROUP
5 = RANKS WORST AMONG ETHNIC GROUPS

1. TEEN PREGNANCIES

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|---|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 1-1 | Pregnancies among females 19 and younger | 2 | 5 | 4 | 3 | 1 |
| 1-2 | Pregnancies among females 14 and younger | 1 | 5 | 3.5 | 3.5 | 2 |
| 1-3 | Pregnancies among females 15-17 years old | 2 | 5 | 4 | 3 | 1 |
| 1-4 | Pregnancies among females 18-19 years old | 2 | 5 | 4 | 3 | 1 |
| SUM OF RANKS | | 7.0 | 20.0 | 15.5 | 12.5 | 5.0 |
| AVERAGE RANK | | 1.8 | 5.0 | 3.9 | 3.1 | 1.3 |

2. MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|------------------------------------|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 2-1 | Unmarried mothers | 2 | 3 | 4 | 5 | 1 |
| 2-2 | Tobacco use | 5 | 1 | 4 | 3 | 2 |
| 2-3 | Alcohol use | 3 | 1.5 | 4 | 5 | 1.5 |
| 2-4 | Chronic hypertension | 3 | 1.5 | 4 | 5 | 1.5 |
| 2-5 | Dysfunctional labor | 2 | 1 | 3 | 5 | 4 |
| 2-6 | Anemia during pregnancy | 3 | 1 | 4 | 5 | 2 |
| 2-7 | Diabetes during pregnancy | 1 | 2.5 | 2.5 | 5 | 4 |
| 2-8 | Pregnancy-associated hypertension | 4 | 1 | 3 | 5 | 2 |
| 2-9 | Genital herpes during pregnancy | 5 | 1 | 4 | 2.5 | 2.5 |
| 2-10 | Weight gain of less than 21 pounds | 1 | 3 | 4 | 5 | 2 |
| SUM OF RANKS | | 29.0 | 16.5 | 36.5 | 45.5 | 22.5 |
| AVERAGE RANK | | 2.9 | 1.7 | 3.7 | 4.6 | 2.3 |

3. UTILIZATION OF PRENATAL CARE SERVICES

| Figure number | Indicator | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|------------------------------|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 3-1 | Early prenatal care | 1 | 5 | 3 | 4 | 2 |
| 3-2 | Five or more prenatal visits | 1 | 4 | 5 | 3 | 2 |
| 3-3 | No prenatal care | 1 | 5 | 3 | 4 | 2 |
| SUM OF RANKS | | 3.0 | 14.0 | 11.0 | 11.0 | 6.0 |
| AVERAGE RANK | | 1.0 | 4.7 | 3.7 | 3.7 | 2.0 |

4. NEWBORN'S HEALTH

| Figure number | INDICATOR | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|---|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 4-1 | Hyaline membrane disease | 5 | 1.5 | 3.5 | 1.5 | 3.5 |
| 4-2 | Newborn intensive care | 3 | 4 | 5 | 1 | 2 |
| 4-3 | Low birthweight | 1 | 2 | 5 | 3 | 4 |
| 4-4 | Very low birthweight | 2.5 | 2.5 | 5 | 4 | 1 |
| 4-5 | Congenital anomalies | 4 | 1 | 3 | 5 | 2 |
| 4-6 | Infant mortality | 2 | 3 | 5 | 4 | 1 |
| 4-7 | Sudden Infant Death Syndrome (SIDS) | 2 | 3 | 5 | 4 | 1 |
| 4-8 | Mortality of infants from low birthweight/short gestation | 3 | 4 | 5 | 1.5 | 1.5 |
| 4-9 | Neonatal mortality | 2 | 3 | 5 | 4 | 1 |
| 4-10 | Postneonatal mortality | 2 | 3 | 5 | 4 | 1 |
| SUM OF RANKS | | 26.5 | 27.0 | 46.5 | 32.0 | 19.0 |
| AVERAGE RANK | | 2.7 | 2.7 | 4.7 | 3.2 | 1.9 |

5. MORTALITY FROM NATURAL CAUSES (chronic or infectious diseases)

| Figure number | INDICATOR | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|---|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 5-1 | Cardiovascular Diseases | 4 | 2 | 5 | 3 | 1 |
| 5-2 | Diseases of the Heart | 4 | 2 | 5 | 3 | 1 |
| 5-3 | Coronary Heart Disease | 4 | 2 | 5 | 3 | 1 |
| 5-4 | Cerebrovascular Disease | 4 | 3 | 5 | 2 | 1 |
| 5-5 | Chronic Obstructive Pulmonary Disease | 5 | 2 | 4 | 3 | 1 |
| 5-6 | Malignant Neoplasms (cancer) | 4 | 3 | 5 | 2 | 1 |
| 5-7 | Lung Cancer | 5 | 3 | 4 | 1 | 2 |
| 5-8 | Breast Cancer | 4 | 3 | 5 | 2 | 1 |
| 5-9 | Cervical Cancer | 3 | 4 | 5 | 1.5 | 1.5 |
| 5-10 | Colorectal Cancer | 4 | 3 | 5 | 2 | 1 |
| 5-11 | Prostate Cancer | 4 | 3 | 5 | 2 | 1 |
| 5-12 | Pneumonia and influenza | 3 | 2 | 4 | 5 | 1 |
| 5-13 | Diabetes | 2 | 4 | 3 | 5 | 1 |
| 5-14 | Infectious & Parasitic Diseases (excluding HIV Infection) | 1 | 3 | 4 | 5 | 2 |
| 5-15 | HIV Infection | 2 | 4 | 5 | 3 | 1 |
| 5-16 | Septicemia | 2 | 3 | 4 | 5 | 1 |
| 5-17 | Alzheimer's Disease | 5 | 3 | 4 | 2 | 1 |
| 5-18 | Nephritis, Nephrotic Syndrome & Nephrosis | 2 | 3 | 4 | 5 | 1 |
| 5-19 | Alcoholism | 3 | 4 | 2 | 5 | 1 |
| 5-20 | Total mortality from all causes | 3 | 2 | 4 | 5 | 1 |
| SUM OF RANKS | | 68.0 | 58.0 | 87.0 | 64.5 | 22.5 |
| AVERAGE RANK | | 3.4 | 2.9 | 4.4 | 3.2 | 1.1 |

6. MORTALITY FROM INJURIES

| Figure number | INDICATOR | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|--------------------------------|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 6-1 | Unintentional injuries | 2 | 4 | 3 | 5 | 1 |
| 6-2 | Motor vehicle-related injuries | 1 | 4 | 3 | 5 | 2 |
| 6-3 | Fall-related injuries | 3.5 | 3.5 | 2 | 5 | 1 |
| 6-4 | Drowning mortality | 3 | 2 | 4 | 5 | 1 |
| 6-5 | Firearm-related deaths | 3 | 4 | 5 | 2 | 1 |
| 6-6 | Drug-related deaths | 4 | 3 | 5 | 2 | 1 |
| 6-7 | Suicide | 4 | 2.5 | 2.5 | 5 | 1 |
| 6-8 | Homicide | 1 | 3 | 5 | 4 | 2 |
| SUM OF RANKS | | 21.5 | 26.5 | 29.5 | 33.0 | 10.0 |
| AVERAGE RANK | | 2.7 | 3.3 | 3.7 | 4.1 | 1.3 |

7. AGE-SPECIFIC MORTALITY

| Figure number | INDICATOR | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|---|--------------------|------------|---------------------------|-----------------|---------------------------|
| 7-1 | Mortality of children 1-14 years old | 2 | 3 | 4 | 5 | 1 |
| 7-2 | Mortality of adolescents and young adults 15-24 years old | 2 | 3 | 4 | 5 | 1 |
| 7-3 | Mortality among adults 25-64 years old | 3 | 2 | 4 | 5 | 1 |
| SUM OF RANKS | | 7.0 | 8.0 | 12.0 | 15.0 | 3.0 |
| AVERAGE RANK | | 2.3 | 2.7 | 4.0 | 5.0 | 1.0 |

8. PREMATURE MORTALITY

| Figure number | INDICATOR | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|---|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 8-1 | Average age at death from all causes | 1 | 4 | 3 | 5 | 2 |
| 8-2 | Average age at death from all causes among males | 1 | 4 | 3 | 5 | 2 |
| 8-3 | Average age at death from all causes among females | 1 | 4 | 3 | 5 | 2 |
| 8-4 | Percent of total deaths before expected years of life reached | 1 | 4 | 3 | 5 | 2 |
| SUM OF RANKS | | 4.0 | 16.0 | 12.0 | 20.0 | 8.0 |
| AVERAGE RANK | | 1.0 | 4.0 | 3.0 | 5.0 | 2.0 |

9. REPORTABLE DISEASES

| Figure number | INDICATOR | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------------|-----------------------------|--------------------|-------------|---------------------------|-----------------|---------------------------|
| 9-1 | Incidence of early syphilis | 2 | 4 | 5 | 3 | 1 |
| 9-2 | Incidence of gonorrhea | 2 | 4 | 5 | 3 | 1 |
| 9-3 | Incidence of chlamydia | 2 | 3 | 4 | 5 | 1 |
| 9-4 | Incidence of genital herpes | 2 | 3 | 5 | 4 | 1 |
| 9-5 | Incidence of AIDS | 2 | 4 | 5 | 3 | 1 |
| SUM OF RANKS | | 10.0 | 18.0 | 24.0 | 18.0 | 5.0 |
| AVERAGE RANK | | 2.0 | 3.6 | 4.8 | 3.6 | 1.0 |

OVERALL HEALTH STATUS (ALL 67 INDICATORS)

| | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|--|--------------------|----------|---------------------------|-----------------|---------------------------|
| SUM OF ALL RANKS FOR 67 MEASUREMENTS | 176.0 | 204.0 | 274.0 | 251.5 | 101.0 |
| AVERAGE RANK BASED ON 67 MEASUREMENTS | 2.6 | 3.0 | 4.1 | 3.8 | 1.5 |

**COMPARATIVE RATES
AND RATIOS FOR 1995,
1997 AND 1999**

COMPARATIVE RATES AND RATIOS FOR 1995, 1997 AND 1999

1. TEEN PREGNANCIES

(Number of pregnancies per 1,000 females in specified age group)

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 1-1 | Pregnancies among females 19 and younger | 1999 | 36.1 | 21.0 | 66.1 | 40.8 | 33.1 | 16.3 |
| | | 1997 | 38.0 | 24.6 | 67.9 | 41.7 | 34.4 | 15.8 |
| | | 1995 | 49.7 | 38.9 | 67.3 | 75.9 | 54.7 | |
| 1-2 | Pregnancies among females 14 and younger | 1999 | 0.9 | 0.4 | 1.6 | 1.5 | 1.5 | 0.5 |
| | | 1997 | 1.0 | 0.5 | 1.9 | 1.1 | 0.8 | 0.8 |
| | | 1995 | 2.2 | 0.9 | 3.7 | 3.1 | 1.9 | 0.6 |
| 1-3 | Pregnancies among females 15-17 years old | 1999 | 40.2 | 20.4 | 80.4 | 47.7 | 39.5 | 11.2 |
| | | 1997 | 44.6 | 25.2 | 86.3 | 49.8 | 45.9 | 17.8 |
| | | 1995 | 61.1 | 34.8 | 101.5 | 59.4 | 54.9 | 19.0 |
| 1-4 | Pregnancies among females 18-19 years old | 1999 | 122.7 | 74.6 | 215.5 | 141.4 | 124.5 | 67.9 |
| | | 1997 | 128.4 | 86.3 | 218.9 | 146.2 | 125.1 | 56.6 |
| | | 1995 | 129.5 | 104.1 | 214.0 | 149.1 | 148.6 | 68.0 |

2. MATERNAL LIFESTYLE AND HEALTH CHARACTERISTICS

(All ratios are per 100 live births)

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|------------------------------------|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 2-1 | Unmarried mothers | 1999 | 38.8 | 24.8 | 50.3 | 64.0 | 69.2 | 18.1 |
| | | 1997 | 37.7 | 24.7 | 48.3 | 64.8 | 68.4 | 18.5 |
| | | 1995 | 38.2 | 25.7 | 50.0 | 63.4 | 67.5 | 19.8 |
| 2-2 | Tobacco use | 1999 | 7.3 | 11.7 | 2.5 | 10.4 | 3.5 | 2.9 |
| | | 1997 | 8.5 | 13.2 | 3.1 | 11.6 | 4.2 | 2.9 |
| | | 1995 | 11.4 | 16.8 | 4.5 | 15.5 | 4.9 | 4.6 |
| 2-3 | Alcohol use | 1999 | 0.5 | 1.3 | 0.5 | 1.7 | 3.0 | 0.5 |
| | | 1997 | 1.3 | 1.4 | 0.7 | 2.1 | 3.3 | 0.2 |
| | | 1995 | 1.9 | 2.2 | 1.1 | 3.4 | 3.8 | 0.4 |
| 2-4 | Chronic hypertension | 1999 | 0.3 | 0.3 | 0.2 | 0.8 | 0.9 | 0.2 |
| | | 1997 | 0.4 | 0.4 | 0.3 | 0.8 | 1.2 | 0.4 |
| | | 1995 | 0.5 | 0.4 | 0.4 | 0.7 | 1.3 | 0.2 |
| 2-5 | Dysfunctional labor | 1999 | 0.9 | 1.0 | 0.6 | 1.1 | 1.5 | 1.3 |
| | | 1997 | 0.4 | 0.4 | 0.3 | 0.8 | 1.2 | 0.4 |
| | | 1995 | 1.3 | 1.5 | 0.8 | 1.3 | 2.3 | 2.1 |
| 2-6 | Anemia during pregnancy | 1999 | 2.1 | 2.3 | 1.3 | 2.7 | 5.1 | 1.4 |
| | | 1997 | 1.4 | 1.3 | 1.1 | 1.7 | 4.4 | 1.4 |
| | | 1995 | 1.6 | 1.3 | 1.4 | 2.2 | 4.1 | 0.9 |
| 2-7 | Diabetes during pregnancy | 1999 | 2.2 | 1.7 | 1.9 | 1.9 | 6.6 | 3.6 |
| | | 1997 | 2.5 | 2.2 | 2.2 | 1.8 | 7.5 | 1.9 |
| | | 1995 | 2.5 | 2.0 | 2.5 | 1.8 | 6.5 | 3.1 |
| 2-8 | Pregnancy-associated hypertension | 1999 | 2.8 | 3.4 | 1.8 | 2.7 | 5.6 | 2.3 |
| | | 1997 | 2.6 | 2.8 | 1.8 | 2.7 | 5.3 | 1.6 |
| | | 1995 | 2.4 | 2.5 | 1.9 | 1.5 | 4.8 | 1.3 |
| 2-9 | Genital herpes during pregnancy | 1999 | 0.7 | 1.1 | 0.2 | 0.7 | 0.3 | 0.3 |
| | | 1997 | 0.6 | 1.0 | 0.2 | 0.6 | 0.4 | 0.4 |
| | | 1995 | 0.9 | 0.5 | 0.6 | 0.7 | 1.8 | 0.4 |
| 2-10 | Weight gain of less than 21 pounds | 1999 | 19.2 | 16.5 | 20.4 | 22.3 | 29.3 | 17.4 |
| | | 1997 | 18.8 | 15.1 | 22.1 | 22.1 | 27.0 | 15.2 |
| | | 1995 | 16.8 | 13.8 | 19.0 | 21.1 | 27.1 | 16.0 |

3. UTILIZATION OF PRENATAL CARE SERVICES

(Per 100 live births)

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|------------------------------|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 3-1 | Early prenatal care | 1999 | 74.1 | 84.7 | 62.7 | 71.1 | 64.1 | 81.5 |
| | | 1997 | 74.4 | 84.3 | 63.9 | 69.4 | 60.0 | 81.6 |
| | | 1995 | 70.7 | 80.0 | 59.2 | 67.0 | 57.0 | 77.4 |
| 3-2 | Five or more prenatal visits | 1999 | 88.4 | 93.3 | 83.4 | 83.3 | 84.5 | 92.6 |
| | | 1997 | 91.6 | 95.6 | 87.8 | 87.7 | 84.5 | 95.6 |
| | | 1995 | 87.3 | 91.1 | 82.9 | 80.7 | 83.3 | 89.3 |
| 3-3 | No prenatal care | 1999 | 2.2 | 0.8 | 3.9 | 1.9 | 2.4 | 0.9 |
| | | 1997 | 1.8 | 0.7 | 3.0 | 3.0 | 2.4 | 0.6 |
| | | 1995 | 1.6 | 0.8 | 2.7 | 1.8 | 2.6 | 0.8 |

4. NEWBORN'S HEALTH

(Infant, neonatal and postneonatal rates are per 1,000 live births. All other indicators are expressed per 100 live births).

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 4-1 | Hyaline membrane disease | 1999 | 0.5 | 0.7 | 0.2 | 0.3 | 0.2 | 0.3 |
| | | 1997 | 0.6 | 0.9 | 0.3 | 0.5 | 0.3 | 1.2 |
| | | 1995 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 |
| 4-2 | Newborn intensive care | 1999 | 6.6 | 6.6 | 6.9 | 9.3 | 4.8 | 5.5 |
| | | 1997 | 6.6 | 6.4 | 6.8 | 10.7 | 4.5 | 6.2 |
| | | 1995 | 5.7 | 5.3 | 6.3 | 9.9 | 4.0 | 5.3 |
| 4-3 | Low birthweight | 1999 | 7.0 | 6.7 | 6.9 | 12.0 | 7.6 | 8.2 |
| | | 1997 | 6.9 | 6.7 | 6.6 | 13.6 | 6.6 | 7.6 |
| | | 1995 | 6.8 | 6.7 | 6.6 | 13.3 | 6.2 | 6.3 |
| 4-4 | Very low birthweight | 1999 | 1.2 | 1.2 | 1.2 | 2.5 | 1.4 | 1.0 |
| | | 1997 | 1.2 | 1.2 | 1.1 | 2.6 | 1.1 | 1.0 |
| | | 1995 | 1.2 | 1.1 | 1.2 | 2.6 | 0.9 | 1.1 |
| 4-5 | Congenital anomalies | 1999 | 1.3 | 1.3 | 0.9 | 1.2 | 2.9 | 1.0 |
| | | 1997 | 1.5 | 1.4 | 1.4 | 2.2 | 2.5 | 1.5 |
| | | 1995 | 1.7 | 1.5 | 1.9 | 2.0 | 2.8 | 1.9 |
| 4-6 | Infant mortality | 1999 | 6.8 | 5.7 | 7.2 | 13.8 | 8.5 | 2.2 |
| | | 1997 | 7.2 | 6.7 | 7.3 | 10.4 | 8.4 | 3.9 |
| | | 1995 | 7.6 | 7.8 | 6.6 | 12.8 | 9.7 | 2.2 |
| 4-7 | Sudden Infant Death Syndrome (SIDS) | 1999 | 0.5 | 0.3 | 0.4 | 1.3 | 0.9 | .0 |
| | | 1997 | 0.6 | 0.6 | 0.4 | 0.9 | 1.2 | 0.6 |
| | | 1995 | 1.0 | 1.1 | 0.5 | 3.7 | 2.0 | 0.7 |
| 4-8 | Mortality of infants from low birthweight/short gestation | 1999 | 0.8 | 0.6 | 0.9 | 1.6 | .0 | .0 |
| | | 1997 | 0.7 | 0.5 | 0.7 | 2.0 | 0.8 | 0.6 |
| | | 1995 | 0.7 | 0.7 | 0.7 | 1.3 | 0.6 | 0.1 |
| 4-9 | Neonatal mortality | 1999 | 4.5 | 4.2 | 4.6 | 8.2 | 5.0 | 1.3 |
| | | 1997 | 4.5 | 4.1 | 5.0 | 6.9 | 3.4 | 3.2 |
| | | 1995 | 4.8 | 5.1 | 4.7 | 6.7 | 3.8 | 1.5 |
| 4-10 | Postneonatal mortality | 1999 | 2.3 | 1.5 | 2.6 | 5.6 | 3.5 | 0.9 |
| | | 1997 | 2.7 | 2.6 | 2.3 | 3.5 | 5.0 | 0.7 |
| | | 1995 | 2.8 | 2.7 | 1.9 | 6.1 | 6.0 | 0.7 |

5. MORTALITY FROM NATURAL CAUSES (chronic or infectious diseases)

(Number of deaths per 100,000 population age-adjusted to 1940 standard)

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 5-1 | Cardiovascular Diseases | 1999 | 161.4 | 164.0 | 131.8 | 192.3 | 152.7 | 65.7 |
| | | 1997 | 166.9 | 179.2 | 149.8 | 201.3 | 162.5 | 73.3 |
| | | 1995 | 180.2 | 188.1 | 169.1 | 236.7 | 166.4 | 100.0 |
| 5-2 | Diseases of the Heart | 1999 | 120.9 | 123.8 | 94.7 | 142.4 | 114.8 | 37.6 |
| | | 1997 | 126.6 | 136.6 | 108.3 | 155.8 | 126.5 | 52.8 |
| | | 1995 | 150.1 | 152.3 | 125.8 | 217.8 | 129.3 | 79.6 |
| 5-3 | Coronary Heart Disease | 1999 | 97.6 | 101.7 | 72.2 | 107.6 | 77.0 | 27.9 |
| | | 1997 | 102.2 | 112.2 | 81.0 | 105.2 | 88.2 | 41.9 |
| | | 1995 | 111.0 | 120.7 | 103.1 | 133.0 | 79.0 | 54.1 |
| 5-4 | Cerebrovascular Disease | 1999 | 25.9 | 25.5 | 24.7 | 31.1 | 24.1 | 16.2 |
| | | 1997 | 29.2 | 30.8 | 31.3 | 34.0 | 25.1 | 14.1 |
| | | 1995 | 28.0 | 27.7 | 25.3 | 41.3 | 29.7 | 26.0 |
| 5-5 | Chronic Obstructive Pulmonary Disease | 1999 | 27.8 | 30.5 | 10.2 | 21.9 | 11.4 | 7.1 |
| | | 1997 | 28.9 | 33.7 | 11.5 | 24.5 | 11.1 | 9.3 |
| | | 1995 | 26.1 | 28.9 | 11.7 | 24.3 | 10.7 | 9.7 |
| 5-6 | Malignant Neoplasms (cancer) | 1999 | 113.1 | 118.4 | 82.6 | 122.3 | 78.1 | 53.3 |
| | | 1997 | 116.5 | 127.3 | 89.1 | 140.9 | 88.2 | 49.5 |
| | | 1995 | 126.3 | 131.1 | 100.0 | 164.3 | 81.8 | 89.5 |
| 5-7 | Lung Cancer | 1999 | 32.3 | 36.0 | 14.2 | 25.9 | 8.0 | 11.5 |
| | | 1997 | 32.2 | 36.9 | 14.9 | 44.7 | 8.5 | 12.2 |
| | | 1995 | 34.1 | 37.7 | 18.2 | 49.6 | 11.0 | 18.1 |
| 5-8 | Breast Cancer | 1999 | 17.1 | 18.3 | 10.7 | 24.8 | 8.4 | 8.0 |
| | | 1997 | 19.3 | 21.0 | 16.0 | 26.8 | 6.4 | 1.7 |
| | | 1995 | 17.2 | 18.2 | 13.2 | 21.4 | 7.3 | 23.5 |
| 5-9 | Cervical Cancer | 1999 | 1.7 | 1.6 | 2.3 | 3.1 | .0 | .0 |
| | | 1997 | 1.7 | 1.6 | 2.4 | 2.4 | 4.1 | .0 |
| | | 1995 | 2.4 | 2.2 | 3.7 | 2.7 | 4.1 | 2.4 |
| 5-10 | Colorectal Cancer | 1999 | 10.0 | 10.3 | 8.2 | 14.9 | 4.4 | 1.9 |
| | | 1997 | 10.7 | 11.7 | 7.7 | 14.0 | 5.6 | 7.0 |
| | | 1995 | 11.5 | 12.3 | 7.8 | 15.9 | 8.7 | 9.2 |
| 5-11 | Prostate Cancer | 1999 | 11.7 | 12.1 | 8.4 | 15.3 | 6.0 | 4.8 |
| | | 1997 | 14.2 | 16.0 | 10.8 | 28.6 | 5.4 | 6.6 |
| | | 1995 | 17.5 | 17.6 | 17.5 | 27.5 | 15.7 | 7.9 |
| 5-12 | Pneumonia and influenza | 1999 | 19.7 | 19.4 | 15.0 | 20.0 | 35.4 | 8.4 |
| | | 1997 | 16.1 | 16.6 | 15.4 | 20.6 | 36.4 | 1.4 |
| | | 1995 | 17.2 | 16.5 | 15.4 | 22.0 | 40.5 | 10.5 |
| 5-13 | Diabetes | 1999 | 13.5 | 10.1 | 26.1 | 23.1 | 63.7 | 7.0 |
| | | 1997 | 13.1 | 10.1 | 26.0 | 27.8 | 62.1 | 14.5 |
| | | 1995 | 10.9 | 8.5 | 20.6 | 23.0 | 48.1 | 7.6 |
| 5-14 | Infectious & Parasitic Diseases (excluding HIV Infection) | 1999 | 8.2 | 6.9 | 10.6 | 11.4 | 23.6 | 7.9 |
| | | 1997 | 8.8 | 8.0 | 10.3 | 18.8 | 27.0 | 6.1 |
| | | 1995 | 6.0 | 4.9 | 7.7 | 12.2 | 23.3 | 4.9 |
| 5-15 | HIV Infection | 1999 | 2.9 | 2.4 | 4.0 | 8.1 | 3.6 | 1.0 |
| | | 1997 | 4.2 | 3.9 | 4.7 | 16.3 | 4.2 | 0.9 |
| | | 1995 | 8.6 | 9.1 | 6.8 | 17.7 | 3.1 | 1.8 |
| 5-16 | Septicemia | 1999 | 4.3 | 3.6 | 5.9 | 6.6 | 16.9 | 1.9 |
| | | 1997 | 4.5 | 4.2 | 5.5 | 11.9 | 14.7 | 0.0 |
| | | 1995 | 4.1 | 3.1 | 5.3 | 6.5 | 17.4 | 4.9 |
| 5-17 | Alzheimer's Disease | 1999 | 5.5 | 5.8 | 3.7 | 5.0 | 1.4 | 1.0 |
| | | 1997 | 4.8 | 5.5 | 3.7 | 3.4 | 0.6 | 0.0 |
| | | 1995 | 4.1 | 5.0 | 2.7 | 2.3 | 1.8 | 0.0 |
| 5-18 | Nephritis, Nephrotic Syndrome and Nephrosis | 1999 | 5.0 | 4.3 | 6.7 | 12.1 | 14.9 | 3.1 |
| | | 1997 | 4.1 | 4.1 | 5.5 | 7.0 | 8.3 | 1.4 |
| | | 1995 | 4.2 | 3.8 | 5.4 | 10.5 | 11.1 | 0.0 |
| 5-19 | Alcoholism | 1999 | 6.9 | 5.7 | 6.4 | 3.6 | 40.5 | 1.0 |
| | | 1997 | 7.9 | 6.9 | 8.0 | 6.1 | 33.8 | 0.0 |
| | | 1995 | 8.9 | 6.6 | 10.4 | 9.0 | 49.7 | 1.2 |
| 5-20 | Total mortality from all causes | 1999 | 507.1 | 492.2 | 447.1 | 586.1 | 747.2 | 210.2 |
| | | 1997 | 518.1 | 533.1 | 470.6 | 651.1 | 766.0 | 224.9 |
| | | 1995 | 546.1 | 537.2 | 478.8 | 767.3 | 755.3 | 323.5 |

6. MORTALITY FROM INJURIES

(Number of deaths per 100,000 population age-adjusted to 1940 standard)

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|--------------------------------|--------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 6-1 | Unintentional Injuries | 1999 | 39.8 | 32.1 | 44.5 | 35.2 | 121.5 | 20.0 |
| | | 1997 | 41.5 | 36.8 | 40.3 | 44.4 | 146.0 | 16.5 |
| | | 1995 | 41.4 | 36.1 | 39.8 | 42.5 | 136.8 | 22.1 |
| 6-2 | Motor vehicle-related injuries | 1999 | 19.7 | 13.8 | 25.1 | 17.1 | 71.5 | 14.3 |
| | | 1997 | 21.0 | 17.2 | 21.9 | 21.2 | 84.3 | 9.1 |
| | | 1995 | 23.7 | 20.1 | 23.4 | 19.7 | 83.3 | 14.6 |
| 6-3 | Fall-related injuries | 1999 | 4.8 | 4.4 | 4.4 | 2.6 | 9.7 | 1.9 |
| | | 1997 | 4.7 | 4.8 | 4.7 | 2.5 | 10.3 | 1.4 |
| | | 1995 | 3.5 | 3.4 | 3.6 | 0.8 | 9.7 | 1.4 |
| 6-4 | Drowning mortality | 1999 | 1.7 | 1.6 | 1.3 | 1.7 | 5.3 | 0.0 |
| | | 1997 | 2.0 | 1.8 | 1.3 | 3.7 | 7.0 | 0.0 |
| | | 1995 | 2.6 | 2.4 | 2.9 | 2.4 | 3.1 | 2.3 |
| 6-5 | Firearm-related deaths* | 1999 | 16.9 | 14.8 | 22.6 | 29.0 | 13.2 | 6.6 |
| | | 1997 | 19.6 | 17.9 | 24.5 | 37.9 | 17.9 | 7.7 |
| | | 1995 | 24.1 | 22.0 | 28.9 | 43.2 | 16.4 | 6.2 |
| 6-6 | Drug-related deaths* | 1999 | 11.0 | 11.6 | 9.3 | 16.5 | 9.1 | 2.8 |
| | | 1997 | 8.8 | 9.4 | 6.9 | 14.5 | 8.8 | 2.2 |
| | | 1995** | 6.5 | 6.9 | 5.6 | 9.1 | 5.1 | 1.5 |
| 6-7 | Suicide | 1999 | 14.6 | 15.1 | 10.6 | 10.6 | 18.2 | 6.4 |
| | | 1997 | 16.9 | 19.2 | 9.8 | 12.4 | 21.3 | 13.1 |
| | | 1995 | 18.2 | 19.6 | 10.6 | 12.4 | 20.8 | 6.3 |
| 6-8 | Homicide | 1999 | 10.0 | 4.8 | 18.6 | 25.5 | 21.9 | 4.9 |
| | | 1997 | 11.1 | 5.4 | 20.2 | 29.9 | 20.2 | 5.1 |
| | | 1995 | 10.2 | 6.5 | 15.3 | 35.9 | 22.4 | 5.1 |

* Crude death rates (number of deaths per 100,000 population in specified group).

** Average annual rates for 1985-1995.

7. AGE-SPECIFIC MORTALITY

(Number of deaths per 100,000 persons in specified group)

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 7-1 | Mortality of children 1-14 years old | 1999 | 24.1 | 17.4 | 26.9 | 36.6 | 50.1 | 8.8 |
| | | 1997 | 33.1 | 27.5 | 36.3 | 40.4 | 39.2 | 23.7 |
| | | 1995 | 35.9 | 34.2 | 32.0 | 60.9 | 72.2 | 54.9 |
| 7-2 | Mortality of adolescents and young adults 15-24 years old | 1999 | 96.0 | 66.6 | 123.8 | 150.3 | 195.9 | 56.2 |
| | | 1997 | 115.3 | 91.1 | 129.5 | 170.7 | 243.9 | 49.0 |
| | | 1995 | 139.4 | 103.7 | 116.7 | 167.3 | 257.1 | 45.4 |
| 7-3 | Mortality among adults 25-64 years old | 1999 | 375.6 | 373.3 | 318.9 | 429.7 | 666.8 | 306.3 |
| | | 1997 | 379.7 | 394.9 | 298.3 | 470.0 | 714.9 | 126.5 |
| | | 1995 | 420.0 | 405.0 | 310.5 | 547.0 | 660.4 | 153.9 |

8. PREMATURE MORTALITY

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|---|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 8-1 | Average age at death from all causes | 1999 | 71.7 | 74.1 | 59.2 | 60.5 | 55.7 | 63.9 |
| | | 1997 | 71.0 | 73.1 | 61.3 | 61.9 | 55.4 | 64.2 |
| | | 1995 | 68.5 | 71.0 | 57.4 | 67.4 | 52.2 | 63.8 |
| 8-2 | Average age at death from all causes among males | 1999 | 68.8 | 71.5 | 56.2 | 57.8 | 51.8 | 62.3 |
| | | 1997 | 67.5 | 70.1 | 57.2 | 57.6 | 51.2 | 61.4 |
| | | 1995 | 65.2 | 68.2 | 53.1 | 53.7 | 48.2 | 63.1 |
| 8-3 | Average age at death from all causes among females | 1999 | 74.9 | 77.0 | 63.3 | 63.9 | 60.6 | 65.5 |
| | | 1997 | 74.9 | 76.3 | 67.4 | 67.7 | 61.4 | 68.0 |
| | | 1995 | 72.4 | 74.2 | 63.6 | 62.9 | 57.8 | 64.6 |
| 8-4 | Percent of total deaths before expected years of life reached | 1999 | 51.8 | 47.4 | 71.7 | 70.7 | 76.9 | 67.0 |
| | | 1997 | 53.6 | 49.9 | 69.6 | 71.2 | 79.9 | 68.5 |
| | | 1995 | 54.0 | 50.2 | 70.5 | 72.0 | 78.6 | 65.1 |

9. REPORTABLE DISEASES

(Number of cases per 100,000 persons in specified group)

| Figure number | Indicator | Year | ALL ARIZONA RESIDENTS | White non-Hispanic | Hispanic | Black or African American | American Indian | Asian or Pacific Islander |
|---------------|-----------------------------|------|-----------------------|--------------------|----------|---------------------------|-----------------|---------------------------|
| 9-1 | Incidence of early syphilis | 1999 | 10.2 | 3.9 | 21.1 | 61.9 | 9.1 | 2.8 |
| | | 1997 | 7.2 | 2.3 | 13.4 | 73.4 | 2.8 | 1.1 |
| | | 1995 | 3.8 | 0.8 | 10.6 | 45.1 | 2.9 | 3.6 |
| 9-2 | Incidence of gonorrhea | 1999 | 86.8 | 32.5 | 154.2 | 512.5 | 81.5 | 10.4 |
| | | 1997 | 82.6 | 30.0 | 125.6 | 639.9 | 55.8 | 18.7 |
| | | 1995 | 91.8 | 39.5 | 164.4 | 992.8 | 91.7 | 25.5 |
| 9-3 | Incidence of chlamydia | 1999 | 241.0 | 88.5 | 408.9 | 635.2 | 643.7 | 70.8 |
| | | 1997 | 234.2 | 85.5 | 388.5 | 523.5 | 635.5 | 76.9 |
| | | 1995 | 240.3 | 98.7 | 476.2 | 870.3 | 708.3 | 83.6 |
| 9-4 | Incidence of genital herpes | 1999 | 19.7 | 12.8 | 19.2 | 41.5 | 24.5 | 2.8 |
| | | 1997 | 29.9 | 18.9 | 25.6 | 67.7 | 29.5 | 8.8 |
| | | 1995 | 51.2 | 31.6 | 49.4 | 119.8 | 31.9 | 23.6 |
| 9-5 | Incidence of AIDS | 1999 | 6.8 | 5.3 | 8.9 | 25.6 | 8.3 | .0 |
| | | 1997 | 6.7 | 5.6 | 9.8 | 18.9 | 4.0 | 1.1 |
| | | 1995 | 11.3 | 12.2 | 8.6 | 24.8 | 3.0 | 3.3 |

DATA SOURCES AND DEFINITIONS

SOURCES OF DATA

Information on births and deaths is compiled from the original documents (i.e., certificates of live births and certificates of death) filed with the Arizona Department of Health Services. Information on induced terminations of pregnancy (abortions) performed on Arizona women is compiled from reports sent to the Arizona Department of Health Services by facilities within but not outside the state.

Pregnancies are the sum of live births, spontaneous terminations of pregnancy (fetal deaths or still births) and induced terminations of pregnancy (abortions).

Data on morbidity, levels of disease and disability in the population, are obtained for certain infectious diseases that must be reported by law. The ADHS Epidemiology and Disease Control Services conducts surveillance and monitoring of these reportable diseases and provided data for section 9 in this report.

In order to obtain population denominators by ethnic group, used to calculate rates for 1999, the 1999 percentages of population breakdowns by race/ethnicity for Arizona from the U.S. Bureau of the Census (*Detailed State Projection Data Files: 1995 to 2025*, available on the Web at <http://www.census.gov/population/www/projections/stproj.html>) were applied to official population estimates prepared by the Population Statistics Unit of the Arizona Department of Economic Security.

Almost all figures are based on rates and ratios published in the **1999 Arizona Health Status and Vital Statistics** annual report.

DEFINITIONS

Terms Related to Reproductive Health

ABORTION RATE - NUMBER OF REPORTED ABORTIONS TO FEMALES OF ALL AGES DURING A CALENDAR YEAR PER 1,000 FEMALES OF CHILDBEARING AGE (15-44 YEARS).

ABORTION RATIO - NUMBER OF ABORTIONS REPORTED DURING A PERIOD PER 1,000 LIVE BIRTHS OCCURRING DURING THE SAME PERIOD.

BIRTH OR LIVE BIRTH - THE COMPLETE EXPULSION OR EXTRACTION FROM ITS MOTHER OF A PRODUCT OF HUMAN CONCEPTION, IRRESPECTIVE OF THE DURATION OF PREGNANCY WHICH, AFTER SUCH EXPULSION OR EXTRACTION, BREATHS OR SHOWS ANY OTHER EVIDENCE OF LIFE SUCH AS BEATING OF THE HEART, PULSATION OF THE UMBILICAL CORD OR DEFINITE MOVEMENT OF VOLUNTARY MUSCLES, WHETHER OR NOT THE UMBILICAL CORD HAS BEEN CUT OR THE PLACENTA IS ATTACHED.

BIRTH WEIGHT - THE WEIGHT OF A NEONATE DETERMINED IMMEDIATELY AFTER DELIVERY OR AS SOON THEREAFTER AS POSSIBLE.

INFANT DEATH - ANY DEATH AT ANY TIME FROM BIRTH UP TO, BUT NOT INCLUDING, THE FIRST YEAR OF AGE (364 DAYS, 23 HOURS, 59 MINUTES FROM THE MOMENT OF BIRTH).

LOW-BIRTHWEIGHT - PRIOR TO 1990: ANY NEONATE WHOSE WEIGHT AT BIRTH IS 2,500 GRAMS OR LESS. BEGINNING IN 1990: ANY NEONATE WEIGHING LESS THAN 2,500 GRAMS AT BIRTH (LESS THAN 5 POUNDS 8 OUNCES).

NEONATAL DEATH - DEATH OF A LIVEBORN NEONATE BEFORE THE NEONATE BECOMES 28 DAYS OLD (UP TO AND INCLUDING 27 DAYS, 23 HOURS, 59 MINUTES FROM THE MOMENT OF BIRTH).

POSTNEONATAL DEATH - ANY DEATH OF A LIVEBORN INFANT AT LEAST 28 DAYS OF AGE BUT UNDER ONE YEAR OF AGE.

VERY LOW-BIRTHWEIGHT - ANY NEONATE WHOSE WEIGHT AT BIRTH IS 1,500 GRAMS OR LESS (LESS THAN 3 POUNDS 5 OUNCES).

TERMS RELATED TO MORTALITY

AGE-ADJUSTED MORTALITY RATES - BECAUSE MORTALITY FROM MOST CAUSES OF DEATH OCCURS PREDOMINATELY AMONG THE ELDERLY, A POPULATION GROUP WITH A LARGER PROPORTION OF OLDER PERSONS WOULD HAVE A HIGHER MORTALITY RATE. THE "AGE-ADJUSTMENT" REMOVES THE EFFECT OF THE AGE DIFFERENCES AMONG SUB-POPULATIONS BY PLACING THEM ALL IN A POPULATION WITH A STANDARD AGE DISTRIBUTION.

AGE-SPECIFIC MORTALITY - NUMBER OF DEATHS IN A SPECIFIC AGE GROUP DURING A CALENDAR YEAR.

CAUSE OF DEATH - FOR THE PURPOSE OF NATIONAL MORTALITY STATISTICS, EVERY DEATH IS ATTRIBUTED TO ONE UNDERLYING CONDITION, BASED ON INFORMATION REPORTED ON THE DEATH CERTIFICATE AND UTILIZING THE INTERNATIONAL RULES FOR SELECTING THE UNDERLYING CAUSE OF DEATH FROM THE REPORTED CONDITIONS.

CAUSE-SPECIFIC MORTALITY - NUMBER OF DEATHS FROM A SPECIFIED CAUSE DURING A CALENDAR YEAR.

CLASSIFICATION OF CAUSE OF DEATH - THE CAUSE OF DEATH USED IN THIS REPORT IS THE UNDERLYING CAUSE CLASSIFIED ACCORDING TO THE *INTERNATIONAL CLASSIFICATION OF DISEASES, INJURIES AND CAUSES OF DEATH*. LISTED BELOW ARE CATEGORIES AND INTERNATIONAL CLASSIFICATION OF DISEASES (ICD) CODES FOR SELECTED CAUSES OF MORTALITY PRESENTED IN THIS REPORT.

ALCOHOLISM: 291, 303, 571.0-571.3

ALZHEIMER'S DISEASE: 331.0

BREAST CANCER IN WOMEN: 174

CARDIOVASCULAR DISEASE: 390-448

CEREBROVASCULAR DISEASE (STROKE): 430-438

CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD): 490-496

CIRRHOSIS: 571

COLORECTAL CANCER: 153.0-154.3, 154.8, 159.0

CORONARY HEART DISEASE: 410-414, 402, 429.2

DIABETES MELLITUS: 250

DISEASE OF HEART: 390-398, 402, 404-429

DROWNING: E830, E832, E910

DRUG-RELATED DEATHS: 292, 304, 305.2-305.9, E850-E858, E950.0-E950.5, E962.0, 980.0-E980.5

FALL-RELATED DEATHS: E880-E888

FIREARM-RELATED DEATHS: E922.0-E922.3, E922.8-E922.9, E955.0-E955.4, E965.0-E965.4, E970, E985.0-E985.4

HIV INFECTION: 042-044

HOMICIDE AND LEGAL INTERVENTION: E960-E978

INFECTIOUS AND PARASITIC DISEASES: 001-139

INJURIES NOT RELATED TO MOTOR VEHICLES: E800-E807, E826-E949;

INJURIES, UNINTENTIONAL: E800-E949

MALIGNANT NEOPLASMS (CANCERS): 140-208

MOTOR VEHICLE-RELATED INJURIES: E810-E825

NEPHRITIS, NEPHROTIC SYNDROME AND NEPHROSIS: 580-589

PNEUMONIA & INFLUENZA: 480-487

SEPTICEMIA: 038

SUICIDE : E950-E959

Medical Terms Used on the Birth Certificate

MEDICAL RISK FACTORS FOR THIS PREGNANCY

ANEMIA - HEMOGLOBIN LEVEL OF LESS THAN 10.0 G/DL DURING PREGNANCY OR HEMATOCRIT OF LESS THAN 30 PERCENT DURING PREGNANCY.

CARDIAC DISEASE - DISEASE OF THE HEART.

ACUTE OR CHRONIC LUNG DISEASE - DISEASE OF THE LUNGS DURING PREGNANCY.

DIABETES - METABOLIC DISORDER CHARACTERIZED BY EXCESSIVE DISCHARGE OF URINE AND PERSISTENT THIRST; INCLUDES JUVENILE ONSET, ADULT ONSET AND GESTATIONAL DIABETES DURING PREGNANCY.

GENITAL HERPES - INFECTION OF THE SKIN OF THE GENITAL AREA BY HERPES SIMPLEX VIRUS.

HYDRAMNIOS/OLIGOHYDRAMNIOS - ANY NOTICEABLE EXCESS (HYDRAMNIOS) OR LACK (OLIGOHYDRAMNIOS) OF AMNIOTIC FLUID.

HEMOGLOBINOPATHY - A BLOOD DISORDER CAUSED BY ALTERATION IN THE GENETICALLY DETERMINED MOLECULAR STRUCTURE OF HEMOGLOBIN (FOR EXAMPLE, SICKLE CELL ANEMIA).

HYPERTENSION, CHRONIC - BLOOD PRESSURE PERSISTENTLY GREATER THAN 140/90, DIAGNOSED PRIOR TO ONSET OF PREGNANCY OR BEFORE THE 20TH WEEK OF GESTATION.

HYPERTENSION, PREGNANCY-ASSOCIATED - AN INCREASE IN BLOOD PRESSURE OF AT LEAST 30 MM HG SYSTOLIC OR 15 MM HG DIASTOLIC ON TWO MEASUREMENTS TAKEN 6 HOURS APART AFTER THE 20TH WEEK OF GESTATION.

ECLAMPSIA - THE OCCURRENCE OF CONVULSIONS AND/OR COMA UNRELATED TO OTHER CEREBRAL CONDITIONS IN WOMEN WITH SIGNS AND SYMPTOMS OF PREECLAMPSIA.

INCOMPETENT CERVIX - CHARACTERIZED BY PAINLESS DILATION OF THE CERVIX IN THE SECOND TRIMESTER OR EARLY IN THE THIRD TRIMESTER OF PREGNANCY, WITH PREMATURE EXPULSION OF MEMBRANES THROUGH CERVIX AND BALLOONING OF THE MEMBRANES INTO VAGINA, FOLLOWED BY RUPTURE OF THE MEMBRANE AND SUBSEQUENT EXPULSION OF THE FETUS.

PREVIOUS INFANT 4,000+ GRAMS - THE BIRTHWEIGHT OF A PREVIOUS LIVE-BORN CHILD WAS OVER 4,000 GRAMS (8LBS.14OZ.).

PREVIOUS PRETERM OR SMALL-FOR-GESTATIONAL-AGE-INFANT - PREVIOUS BIRTH OF AN INFANT PRIOR TO TERM (BEFORE 37 COMPLETED WEEKS OF GESTATION) OR OF AN INFANT WEIGHING LESS THAN THE 10TH PERCENTILE FOR GESTATIONAL AGE USING A STANDARD WEIGHT FOR AGE CHART.

RENAL DISEASE - KIDNEY DISEASE.

RH SENSITIZATION - THE PROCESS OR STATE OF BECOMING SENSITIZED TO THE RH FACTOR AS WHEN AN RH-NEGATIVE WOMAN IS PREGNANT WITH AN RH-POSITIVE FETUS.

UTERINE BLEEDING - ANY CLINICALLY SIGNIFICANT BLEEDING DURING THE PREGNANCY TAKING INTO CONSIDERATION THE STAGE OF PREGNANCY; ANY SECOND OR THIRD TRIMESTER BLEEDING OR THIRD TRIMESTER BLEEDING OF THE UTERUS PRIOR TO THE ONSET OF LABOR.

COMPLICATIONS OF LABOR AND/OR DELIVERY

FEBRILE - A FEVER GREATER THAN 100 DEGREES F. OR 38 DEGREES C. OCCURRING DURING LABOR AND/OR DELIVERY.

MECONIUM, MODERATE/HEAVY - MECONIUM CONSISTS OF UNDIGESTED DEBRIS FROM SWALLOWED AMNIOTIC FLUID, VARIOUS PRODUCTS OF SECRETION AND SHEDDING BY THE GASTROINTESTINAL TRACT, MODERATE TO HEAVY AMOUNTS OF MECONIUM IN THE AMNIOTIC FLUID NOTED DURING LABOR AND/OR DELIVERY.

MECONIUM ASPIRATION SYNDROME - ASPIRATION OF MECONIUM BY THE FETUS OR NEWBORN, AFFECTING THE LOWER RESPIRATORY SYSTEM.

ASSISTED VENTILATION (LESS THAN 30 MINUTES) - A MECHANICAL METHOD OF ASSISTING RESPIRATION FOR NEWBORNS WITH RESPIRATORY FAILURE.

PREMATURE RUPTURE OF MEMBRANES (MORE THAN 12 HOURS) - RUPTURE OF MEMBRANES AT ANY TIME DURING PREGNANCY AND MORE THAN 12 HOURS BEFORE THE ONSET OF LABOR.

ABRUPTIO PLACENTA - PREMATURE SEPARATION OF NORMALLY IMPLANTED PLACENTA FROM THE UTERUS.

PLACENTA PREVIA - IMPLANTATION OF THE PLACENTA OVER OR NEAR THE INTERNAL OPENING OF THE CERVIX.

OTHER EXCESSIVE BLEEDING - THE LOSS OF SIGNIFICANT AMOUNT OF BLOOD FROM CONDITIONS OTHER THAN ABRUPTIO PLACENTA OR PLACENTA PREVIA.

SEIZURES DURING LABOR - MATERNAL SEIZURES OCCURRING DURING LABOR FROM ANY CAUSE .

ABNORMAL CONDITIONS OF THE NEWBORN

ANEMIA - HEMOGLOBIN LEVEL OF LESS THAN 13.0 G/DL OR A HEMATOCRIT OF LESS THAN 39 PERCENT.

BIRTH INJURY - IMPAIRMENT OF THE INFANT'S BODY FUNCTION OR STRUCTURE DUE TO ADVERSE INFLUENCES THAT OCCURRED AT BIRTH.

FETAL ALCOHOL SYNDROME - A SYNDROME OF ALTERED PRENATAL GROWTH AND DEVELOPMENT OCCURRING IN INFANTS BORN OF WOMEN WHO CONSUMED EXCESSIVE AMOUNTS OF ALCOHOL DURING PREGNANCY.

HYALINE MEMBRANE DISEASE/RDS - A DISORDER PRIMARILY OF PREMATUREITY, MANIFESTED CLINICALLY BY RESPIRATORY DISTRESS AND PATHOLOGICALLY BY PULMONARY HYALINE MEMBRANES AND INCOMPLETE EXPANSION OF THE LUNGS AT BIRTH.

ASSISTED VENTILATION (30 MINUTES OR MORE) - NEWBORN PLACED ON ASSISTED VENTILATION FOR 30 MINUTES OR LONGER.

SEIZURES - A SEIZURE OF ANY ETIOLOGY.

POPULATION DENOMINATORS

**POPULATION BY ETHNIC GROUP, ARIZONA RESIDENTS,
1980, 1990 AND 1999**

(Numbers rounded to nearest thousand)

| <u>Ethnic group</u> | 1980 | 1990 | 1997 | % of total population in 1999 |
|----------------------------|----------------|----------------|----------------|--------------------------------------|
| American Indian | 154.0 | 203.0 | 265.2 | 5.4% |
| Asian | 25.0 | 55.0 | 105.5 | 2.1% |
| Black | 74.0 | 110.0 | 176.1 | 3.6% |
| Hispanic | 444.0 | 688.0 | 1,060.2 | 21.5% |
| Non-Hispanic white | 2,021.0 | 2,608.0 | 3,317.3 | 67.4% |
| TOTAL | 2,718.0 | 3,665.0 | 4,924.3 | 100.0% |

Note: Data for 1980 and 1990 are the census counts. In order to obtain population denominators by ethnic group, used to calculate rates for 1999, the 1999 percentages of population breakdowns by race/ethnicity for Arizona from the U.S. Bureau of the Census (Detailed State Projection Data Files: 1995 to 2025, available on the Web at <http://www.census.gov/population/www/projections/stproj.html>) were applied to official population estimates prepared by the Population Statistics Unit of the Arizona Department of Economic Security.

ESTIMATED POPULATION BY AGE GROUP, GENDER AND RACE/ETHNICITY, ARIZONA, 1999

| | Age group | | | | | | | | | Total |
|---------------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| | <1 | 1-4 | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65+ | |
| WHITE NON-HISPANIC | 39,260 | 153,949 | 404,166 | 393,674 | 447,460 | 521,438 | 444,958 | 318,471 | 593,920 | 3,317,297 |
| ---Male | 20,131 | 79,670 | 218,156 | 214,651 | 232,904 | 257,423 | 217,629 | 151,806 | 265,903 | 1,658,274 |
| ---Female | 19,129 | 74,279 | 186,010 | 179,023 | 214,556 | 264,015 | 227,329 | 166,665 | 328,017 | 1,659,023 |
| HISPANIC | 25,154 | 91,961 | 219,993 | 186,577 | 182,878 | 148,296 | 92,660 | 51,621 | 61,058 | 1,060,197 |
| ---Male | 12,833 | 46,854 | 112,176 | 94,465 | 93,760 | 75,342 | 45,721 | 24,230 | 26,287 | 531,668 |
| ---Female | 12,320 | 45,106 | 107,817 | 92,112 | 89,118 | 72,954 | 46,939 | 27,391 | 34,771 | 528,529 |
| BLACK | 3,388 | 12,539 | 31,195 | 28,604 | 30,341 | 29,416 | 18,050 | 10,356 | 12,239 | 176,128 |
| ---Male | 1,719 | 6,376 | 15,992 | 14,562 | 15,831 | 15,595 | 9,343 | 5,006 | 5,355 | 89,779 |
| ---Female | 1,668 | 6,163 | 15,203 | 14,043 | 14,510 | 13,822 | 8,706 | 5,350 | 6,885 | 86,349 |
| AMERICAN INDIAN | 6,501 | 23,681 | 62,192 | 47,977 | 42,510 | 34,237 | 21,579 | 12,310 | 14,208 | 265,195 |
| ---Male | 3,256 | 11,942 | 31,016 | 23,883 | 20,924 | 16,503 | 9,944 | 5,459 | 5,753 | 128,679 |
| ---Female | 3,245 | 11,739 | 31,176 | 24,094 | 21,586 | 17,735 | 11,635 | 6,851 | 8,455 | 136,516 |
| ASIAN | 1,710 | 6,493 | 16,346 | 16,020 | 21,072 | 17,848 | 12,040 | 6,868 | 7,137 | 105,533 |
| ---Male | 863 | 3,296 | 8,392 | 7,960 | 10,241 | 8,380 | 5,156 | 2,908 | 2,857 | 50,053 |
| ---Female | 847 | 3,197 | 7,955 | 8,059 | 10,831 | 9,467 | 6,884 | 3,960 | 4,280 | 55,480 |
| ALL GROUPS | 76,012 | 288,622 | 733,892 | 672,852 | 724,261 | 751,236 | 589,287 | 399,626 | 688,562 | 4,924,350 |
| ---Male | 38,802 | 148,138 | 385,732 | 355,521 | 373,660 | 373,243 | 287,793 | 189,409 | 306,155 | 2,458,453 |
| ---Female | 37,210 | 140,484 | 348,160 | 317,331 | 350,601 | 377,993 | 301,494 | 210,217 | 382,407 | 2,465,897 |

Note: The 1999 percentages of population breakdowns by race/ethnicity and single year of age from the U.S. Bureau of the Census were applied to official population estimates prepared by DES Population Statistics Unit and released on 8/12/1999.

Our Web site at <http://www.hs.state.az.us/plan/ohpes.htm> provides instantaneous access to a wide range of statistical information about health status and use of health care in Arizona. The [*Arizona Health Status and Vital Statistics*](#) annual report examines trends in natality, mortality and morbidity towards established health objectives. Additional data can be found in the special reports and studies focused on differences in the health status by ethnic group, suicide mortality, unintentional injury mortality among children and adolescents, firearm-related fatalities, unintentional drowning deaths, drug-related mortality, teenage pregnancy and abortion practices in Arizona. The [*Monthly Vital Statistics Bulletin*](#) has the most up to date information on births, deaths, marriages and divorces.



**Office of Epidemiology and Statistics
Bureau of Public Health Statistics
Public Health Services
ARIZONA DEPARTMENT OF HEALTH SERVICES**
