

# Technical Notes

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## SOURCES OF DATA

Information on births, deaths, and fetal deaths is compiled from the original documents filed with the Arizona Department of Health Services' Office of Vital Records and from transcripts of original birth and death certificates filed in other states but affecting Arizona residents (copies of certificates for births, deaths, and fetal deaths occurring to Arizona residents outside the United States are not sent to Arizona).

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 only rarely outside the state.

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

Arizona has no central registry for marriage and divorce records. Statistics are limited to counts of marriages and divorces reported monthly by the Clerk of the Superior Court in each county in which the marriage or divorce occurred. These reports contain no demographic data on the people marrying or divorcing.

Data on morbidity and 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 conduct surveillance and monitoring of these reportable diseases and provided data for the morbidity sections in this report.

Every six months, all State-licensed nonfederal hospitals in Arizona are required to submit uniform patient reports to the Arizona Department of Health Services. Beginning in 2010 the psychiatric hospitals also are subject to reporting requirements. The Section of Cost Reporting and Discharge Data Review in the Bureau of Public Health Statistics collects the information about both hospital inpatient discharges and emergency room visits.

Population denominators for Arizona residents, used to calculate rates for 1980, 1990, 2000, and 2010 are census enumerations from the U.S. Census Bureau. Population denominators for the intercensal years utilize the best available data sources. They are described in detail at <http://www.azdhs.gov/plan/menu/info/pd.htm>

Our website at <http://www.azdhs.gov/plan/index.htm> provides additional reports and studies, as well as links to other sources of information on topics such as morbidity from certain diseases or population composition.

## DEFINITIONS

### Urban and Rural Areas

For the purpose of this report, the following are Arizona's **urban areas**: Phoenix-Scottsdale-Mesa Metropolitan Statistical Area (Maricopa and Pinal Counties), Tucson Metropolitan Statistical Area (Pima County), and Yuma Metropolitan Statistical Area (Yuma County). The remaining counties (Apache, Cochise, Coconino, Gila, Graham, Greenlee, La Paz, Mohave, Navajo, Santa Cruz, and Yavapai) comprise Arizona's **rural areas**. The 1994

list of Metropolitan Statistical Areas and their component counties for the United States is available at:

<http://www.cdc.gov//data/dvs/mcd/qeog94msa.txt>

## Race/Ethnicity

Racial/ethnic designations used in this report are White non-Hispanic, Hispanic or Latino, Black or African-American, American Indian or Alaska Native (including Aleut and Eskimo) and Asian or Pacific Islander (including Hawaiian). In some of the trend tables the designation "Other" includes Asian and Pacific Islanders. Non-White Hispanics are included in their appropriate race groups.

The American Indian figures include those living both on and off the reservation.

The race/ethnicity of mother, father, or decedent is as stated on the certificate.

Implementation of the revised certificates of live birth, death, and fetal death in Arizona is necessary in order to provide compatibility with the new federal standards for collecting and presenting data on race and Hispanic origin as established by the Office of Management and Budget (OMB) in October 1997. These federal standards require that when self-identification is used, a method for reporting more than one race should be adopted. In addition, the Asian or Pacific Islander category will be split into two categories - one called "Asian" and the other called "Native Hawaiian or Other Pacific Islander".

## Rates

Rate is a measure of the frequency of some event in relation to a unit of population during a specified time period such as a year; events in the numerator of the year occur to individuals in the denominator. Rates express the likelihood (or risk) of the event in the specified population during a particular time and are generally expressed as units of population in the denominator (per 1,000, 10,000, 100,000 and so forth).

Many rates shown in this report are based on a small population, a small number of events, or both. Rates based on small numbers are unreliable and thus should be viewed with caution. Rates for many counties or Arizona's ethnic minorities also vary considerably from year to year due to small populations and few events.

## 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, breathes 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. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.

**Birth rate** - Number of live births during a calendar year per 1,000 population.

**Birth weight** - The weight of a neonate determined immediately after delivery or as soon thereafter as possible.

**Fetal death** - Death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy and which is not an induced termination of pregnancy. The death is indicated by the fact that, after such expulsion or extraction, the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.

**Fetal death rate** - Number of fetal deaths at 20 or more weeks of gestation per 1,000 live births + fetal deaths.

**Fertility rate (general)** - Total number of live births to women of all ages during a calendar year per 1,000 women of childbearing age (15-44 years old).

**Fertility rate (total)** - The sum of age-specific birth rates of women at each age group 10-14 through 45-49. Since five-year age groups are used, the sum is multiplied by five.

**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).

**Infant mortality rate** - Number of infant deaths per 1,000 live births.

**Low-birthweight** - Any neonate weighing less than 2,500 grams at birth (less than 5 pounds 8 ounces).

**Maternal mortality rate** - Number of deaths attributed to maternal conditions (i.e. related to or aggravated by pregnancy or its management) per 100,000 live births.

**Neonatal death** - Death of a live born neonate before the neonate becomes 28 days old (up to and including 27 days, 23 hours, 59 minutes from the moment of birth).

**Neonatal mortality rate** - Number of neonatal deaths per 1,000 live births.

**Perinatal mortality rate** - The sum of infant deaths of less than 7 days and fetal deaths with a stated or presumed period of gestation of 28 weeks or more per 1,000 live births + fetal deaths of 28 or more weeks of gestation..

**Postneonatal death** - Any death of a live born infant at least 28 days of age but less than one year of age.

**Postneonatal mortality rate** - Number of postneonatal deaths per 1,000 live births.

**Post term** - Any neonate whose birth occurs from the beginning of the first day (295<sup>th</sup> day) of the 43<sup>rd</sup> week following onset of the last menstrual period.

**Pregnancy rate** - The sum of live births, fetal deaths, and induced terminations of pregnancy per 1,000 women of childbearing age (15-44 years old).

**Preterm** - Any neonate whose birth occurs through the end of the last day of the 37<sup>th</sup> week (259<sup>th</sup> day), following onset of the last menstrual period.

**Term** - Any neonate whose birth occurs from the beginning of the first day (260<sup>th</sup> day) of the 38<sup>th</sup> week, through the end of the last of the 42<sup>nd</sup> week (294<sup>th</sup> day), following onset of the last menstrual period.

**Very Low-Birthweight** - Any neonate whose weight at birth is 1,500 grams or less (less than 3 pounds 5 ounces).

## 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.

**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.

**Precipitous labor** (less than 3 hours) Extremely rapid labor and delivery lasting less than 3 hours.

**Prolonged labor** (more than 20 hours) - Abnormally slow progress of labor lasting more than 20 hours.

**Dysfunctional labor** - Failure to progress in a normal pattern of labor.

**Breech/Malpresentation** - At birth, the presentation of the fetal buttocks, rather than the head or other malpresentation.

**Cephalopelvic disproportion** - The relationship of the size, presentation, and position of the fetal head to the maternal pelvis, which prevents dilation of the cervix and/or descent of the fetal head.

**Cord prolapse** - Premature expulsion of the umbilical cord in labor before the fetus is delivered.

**Anesthetic complications** - Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

**Fetal distress** - Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

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

**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.

**Assisted ventilation (30 minutes or more)** - Newborn placed on assisted ventilation for 30 minutes or longer.

**Seizures** - A seizure of any etiology.

#### **Congenital anomalies of child**

**Anencephalus** - Absence of the cerebral hemispheres.

**Spina bifida/meningocele** - Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

**Hydrocephalus** - Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of cranium.

**Microcephalus** - A significantly small head.

**Other central nervous system anomalies** - Other specified anomalies of the brain, spinal cord, and nervous system.

**Heart malformations** - Congenital anomalies of heart.

**Other circulatory/respiratory anomalies** - Other specified anomalies of the circulatory and respiratory systems.

**Rectal atresia/stenosis** - Congenital absence, closure, or narrowing of the rectum.

**Tracheo-esophageal fistula/Esophageal atresia** - An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

**Omphalocele/Gastroschisis** - An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

**Other gastrointestinal anomalies** - Other specified congenital anomalies of the gastrointestinal system.

**Malformed genitalia** - Congenital anomalies of the reproductive organs.

**Renal agenesis** - One or both kidneys are completely absent.

**Other urogenital anomalies** - Other specified congenital anomalies of the organs concerned in the production and excretion of the urine, together with organs of reproduction.

**Cleft lip/palate** - Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

**Polydactyly/Syndactyly/Adactyly** - Polydactyly is the presence of more than five digits on hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

**Club foot** - Deformities of the foot, which is twisted out of shape or position.

**Diaphragmatic hernia** - Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

**Down's syndrome** - The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

## Diagnosis and Procedure Codes Used to Analyze the Hospital Discharge Data

Diagnostic groupings and code numbers used in Chapter 4 and Chapter 7 are based on the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM).

The tabulations of the hospital inpatient data by first-listed diagnosis and all-listed procedures utilize the diagnostic categories available respectively at <http://www.azdhs.gov/plan/hip/cat/icd9primary.xls> and <http://www.azdhs.gov/plan/hip/cat/icd9procedure.xls>.

The ICD-9-CM diagnostic categories used to identify specific mental disorders are available online at <http://www.azdhs.gov/plan/hip/for/mental/2007/mental107.xls>

### Terms Related to Mortality

The most common and perhaps the most valuable measure of the likelihood (or risk) of death in the specified population during a particular time is the **crude death rate**. It is computed as the number of deaths per 1,000 or 100,000 population.

**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 (or in the same population over time) by placing them all in a population with a standard age distribution. All age-adjusted mortality rates in this report were computed by the direct method that is by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the summary rate for all ages combined. Beginning with the 2000 data year, a new population standard for the age adjustment of mortality rates has replaced the standard based on the 1940 population and used since 1943. The new standard uses the age composition of the 2000 U.S. projected population. The standard is expressed in terms of a "standard million": the relative distribution of the 2000 population of the United States totaling 1 million in 10-year age groups:

Age group	2011 population	2011 deaths	Age-specific rates in 2011	2000 standard	Age-adjusted rate for 2011
A	B	C	D (C/B)*100000	E	F D*E
<1	88,211	504	571.4	.013818	7.9
1-4	370,926	106	28.6	.055317	1.6
5-14	909,069	118	13.0	.145565	1.9
15-24	910,452	671	73.7	.138646	10.2
25-34	863,216	950	110.1	.135573	14.9
35-44	828,783	1,466	176.9	.162613	28.8
45-54	848,406	3,368	397.0	.134834	53.5
55-64	731,162	6,030	824.7	.087247	72.0
65-74	501,370	8,170	1629.5	.066037	107.6
75-84	282,492	11,986	4243.0	.044842	190.3
85+	104,091	14,162	13605.4	.015508	211.0
All ages	6,438,178	47,547		TOTAL	<b>Σ = 699.6</b>

The age-adjusted mortality rates should be viewed as relative indexes rather than as actual measures of mortality risk. It is also important to note that Age-adjusted rates can only be compared to other age-adjusted rates that use the same population standard.

In this report, all age-adjusted mortality rates are based on the 2000 standard, and they CANNOT BE compared to rates using the 1940 standard population.

**Age-specific mortality** - Number of deaths in a specific age group during a calendar year.

**Alcohol-induced deaths** - This category was expanded in 2003. Causes of death attributable to alcohol mortality include mental and behavioral disorders due to alcohol use, degeneration of nervous system due to alcohol use, alcoholic polyneuropathy, alcoholic cardiomyopathy, alcoholic gastritis, alcoholic liver disease, finding of alcohol in blood, accidental poisoning by exposure to alcohol, intentional self-poisoning by alcohol, and poisoning by alcohol, undetermined intent.

**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 causes of death** - The cause of death used in this report is the underlying cause classified according to the *International Classification of Diseases (ICD)*. Beginning with the 2000 data year in Arizona (1999 nationally), a new revision of the International Classification of Diseases was implemented. The Tenth Revision (ICD-10) has replaced the Ninth Revision (ICD-9), which was in effect since 1979.

**Comparability ratios** - Comparability ratios are measures of comparison between ICD-9 and ICD-10. Any comparison of causes of mortality in Arizona before and after the implementation of ICD-10 needs to take into account the changes in statistical trends that can be attributed to changes in the classification system alone. Comparability ratio of 1.0 indicates that the same number of deaths would be assigned to a cause-of-death when ICD-9 or ICD-10 was used. Comparability-modified number of deaths and mortality rates are shown for the four causes of death for which the discontinuity in trend is substantial (influenza and pneumonia, Alzheimer's disease, nephritis, or septicemia). The following online table provides comparable cause-of-death categories in ICD-9 and ICD-10 and shows comparability ratios for 113 selected causes of death: <http://www.azdhs.gov/plan/report/ahs/ahs2007/pdf/compratio.pdf>

**Drug-induced deaths** - This category was expanded in 2003. Causes of death attributable to drug-related mortality include mental and behavioral disorders due to psychoactive substance use, accidental poisoning by and exposure to drugs, suicide by drugs, homicide by drugs and poisoning by drugs, undetermined intent

**Firearm mortality** - Causes of death attributable to firearm mortality include accidental discharge of firearms, suicide by firearms, homicide by firearms, legal intervention involving discharge of firearms, terrorism involving firearms, and discharge of firearms, undetermined intent.



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## **I**

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**Leading causes of death, (see also, Deaths),**

2B-1, 2B-2, 2B-3, 2B-4, 2B-5, 2B-6, 2C-28, 5E-11, 5E-12, 5E-13, 5E-14

Age adjusted rates 2B-2, 2B-3, 2B-4, 2B-5, 5E-11

Average/median age at death 2D-1, 2D-3, 5E-11

County of residence 5E-11, 5E-12, 5E-13, 5E-14

Crude death rates 2B-6, 5E-13

Gender differences 2B-2, 2B-3, 2B-4, 2B-5, 2B-6, 2D-3, 2D-4

Premature mortality 2D-2, 2D-4

Race/ethnicity 2B-3, 2B-4, 2D-3, 2D-4

Urban/rural differences 2B-5, 2D-3, 2D-4

**Leading causes of death among**

**infants <1 year** 2C-5, 2C-6, 5E-19

**children 1-14 years** 2C-7, 2C-8, 2C-9,

2C-10, 5E-24, 5E-25

**adolescents 15-19 years** 2C-11, 2C-12,

2C-13, 2C-14, 5E-26, 5E-27

**young adults 20-44 years** 2C-15, 2C-16,

2C-17, 2C-18, 5E-28, 5E-29

**middle-aged adults 45-64** 2C-19, 2C-20,

2C-21, 2C-22, 5E-30, 5E-31

**elderly 65 years and older** 2C-23, 2C-24,

2C-25, 2C-26, 2C-27, 5E-32, 5E-33

**Selected 100+ causes** 2B-6, 2C-27, 5E-11

**Legal intervention, deaths due to** 2B-6, 2C-27, 5E-12

**Legionellosis** 3A-1, 3A-2, 5F-1, 5F-2

**Length of stay (average) for inpatient discharges, 4A-5**

**Leukemia, deaths from** 2B-6, 2C-27, 5E-12

**Listeriosis** 3A-1, 3A-2, 5F-1, 5F-2

**Live births, (see Births)**

**Liver disease and cirrhosis, chronic, deaths from** 2B-3, 2B-4, 2B-5, 2B-6, 2C-27, 5E-11, 5E-12, 5E-13, 5E-14

**Low-birthweight (LBW) births** 1B-2, 1B-3, B-4, 1B-5,

1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13,

1B-14, 1B-15, 1B-16, 1B-25, 1B-26, 1B-27, 1B-28,

1B-32, 1B-33, 1B-34, 5B-16, 6A-1-7, 5B-17, 5B-18,

5B-19, 5B-20, 5B-21, 5B-22, 5B-23, 5B-24, 6B-1

**Lung disease, chronic or acute, (see also Medical risk factors for pregnancy)** 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-25

**Lyme disease** 3A-1, 5F-1, 5F-2

**Lysis of peritoneal adhesions, (inpatient procedure),** 4B-1, 4B-2, 4B-3, 4B-4, 7B-1

**M**

**Malaria, deaths from, 2B-6, 2C-27, 5E-12**

**Malaria, reported cases, 3A-1, 3A-2, 5F-1, 5F-2**

**Malformed genitalia, (see also Congenital anomalies)** 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 1B-35, 5B-29

**Malignant neoplasm, (see Cancer)**

**Malnutrition, deaths from** 2B-6, 2C-27, 5E-12

**Manic-depressive disorders, emergency room visits for, 4C-1, 7C-1**

**Manic-depressive disorders, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1**

**Marital status of mother** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-23, 1B-25, 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 1B-24, 5B-14, 5B-15

**Marriages** 5G-1, 5G-2, 5G-3

**Maternal deaths** 1C-1, 1C-2

**Measles**

Number of reported cases 3A-1, 6A-2, 5F-1, 5F-2, 6B-2

Number of deaths 2B-6, 2C-28, 3A-2, 5E-12

**Meconium aspiration syndrome, (see also**

**Abnormal conditions of the newborn)** 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 1B-34, 5B-28

**Meconium, moderate/heavy, (see also**

**Complications of labor/delivery)** 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-27

**Medical risk factors for pregnancy** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-25, 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 1B-34, 5B-25, 5B-30

**Meningitis** 2B-6, 2C-28, 3A-1, 3A-2, 5E-12, 5F-1, 5F-2  
**Meningococcal infection** 2B-6, 2C-28, 3A-1, 3A-2, 6A-2, 5E-12, 5F-1, 5F-2, 6B-2

**Mental disorders, emergency room visits for, 4C-1,**

4C-2, 7C-1, 7C-2  
**Mental disorders**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
**Methicillin Resistant S. aureus (invasive)** 3A-1, 5F-1, 5F-2  
**Mexican mothers**, number of births to, 1B-22  
**Microcephalus**, (see also **Congenital anomalies**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 1B-35, 5B-29  
**Migraine**, emergency room visits for, 4C-2, 7C-2  
**Misadventures to patients during surgical or medical care**, death due to 2B-9  
**Miscarriages**, (see **Fetal Deaths**)  
**Month of birth** 1B-18, 1B-17, 5B-6  
**Month of death** 2A-2, 2A-3, 5E-7  
**Mortality**, (see **Deaths**)  
**Mother's age** 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1B-1, 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-19, 1B-23, 1B-24, 1B-29, 1B-30, 1B-31, 1B-32, 1B-33, 1B-34, 5A-4, 5B-9, 5B-10  
**Mother's education** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-26, 1B-28, 1B-32, 5B-13, 5B-15  
**Mother's race/ethnicity** 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-20, 1B-22, 1B-23, 1B-24, 1B-25, 1B-26, 1B-29, 1B-30, 1B-31, 1B-32, 1B-33, 1B-34, 5B-8, 5B-10, 5B-15  
**Mother's weight gain during pregnancy** 1B-26, 1B-28, 1B-32, 1B-33, 1B-34  
**Multiple births** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-16  
**Multiple myeloma and immunoproliferative neoplasms**, deaths from 2B-6, 2C-28, 5E-12  
**Mumps** 3A-1, 3A-2, 6A-2, 5F-1, 5F-2, 6B-2  
**Musculoskeletal system, diseases of**, emergency room visits for, 4C-1, 7C-1  
**Musculoskeletal system, diseases of**, inpatient discharges with 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
**Myocardial infarction, acute**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

## N

**Nausea, vomiting**, emergency room visits for, 4C-2, 7C-2  
**Nativity**, (see **Births**)  
**Native American**, (see **American Indian**)  
**Natural increase from births** 5B-1  
**Neonatal deaths** 2C-1, 2C-3, 2C-4, 5C-1, 5E-22, 5E-23  
**Nephritis, nephrotic syndrome, and nephrosis**, deaths from 2B-1, 2B-2, 2B-4, 2B-5, 2B-6, 2C-27, 2D-3, 2D-4, 5E-11, 5E-12, 5E-13, 5E-14  
**Nervous system, diseases of**, emergency room visits for, 4C-1, 7C-1  
**Nervous system, diseases of**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
**Neuroses (neurotic disorders)**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
**Newborn's health**  
 Abnormal conditions 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 1B-34, 5B-28, 5B-30  
 Admitted to intensive care units 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 5B-22, 5B-24  
 Congenital anomalies 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 1B-35, 5B-29  
 Low birth weight 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-16, 1B-25, 1B-26, 1B-27,

1B-32, 1B-33, 1B-34, 5B-16, 5B-17, 5B-18, 5B-19, 5B-20, 5B-21, 5B-22, 5B-23, 5B-24, 5B-30  
 Prematurity 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-25, 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 1B-34, 5B-22, 5B-23, 5B-24, 5B-30, Very low birth weight 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-26, 1B-28, 1B-32  
**Non-Hodgkin's lymphoma**, deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Nontransport accidents**, deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Notifiable diseases**, (see **Diseases reportable**)  
**Nutritional deficiencies**, deaths from 2B-6, 2C-27, 2C-28, 5E-12

## O

**Obesity, morbid** inpatient discharges with 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
 Deaths from 2B-6, 2C-27, 2C-28, 5E-12  
**Objectives**, (see **Health objectives for the Year 2010**)  
**Obstetric laceration, repair of** (inpatient operation), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
**Obstetric procedures** 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 1B-34, 5B-26, 5B-30  
**Omphalocele**, (see also **Congenital anomalies**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 1B-35,  
**Oophorectomy and salpingo-oophorectomy**, (inpatient procedure), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
**Open wound, excluding head**, emergency room visits for, 4C-2, 7C-2  
**Open wound of head**, emergency room visits for, 4C-2, 7C-2  
**Operations of war**, deaths from 2B-6, 2C-27, 5E-12  
**Operations (inpatient procedures)** on the cardiovascular system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 digestive system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 ear 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 endocrine system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 eye 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 female genital organs 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 hemic and lymphatic system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 integumentary system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 male genital organs 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 musculoskeletal system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 nervous system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 nose, mouth, pharynx 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 respiratory system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
 urinary system 4B-1, 4B-2, 4B-3, 4B-4, 7B-1  
**Otitis media and eustachian tube disorders**, emergency room visits for, 4C-2, 7C-2  
**Osteoarthritis and allied disorders**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
**Outpatient deaths** 2A-4, 2B-11, 5E-8

## P

**Pacific Islanders**, (see **Asian residents**)  
**Parkinson's disease**, deaths from 2B-6, 2C-27, 2C-28, 5E-12, 5E-32, 5E-32  
**Payee for birth** 1B-26, 1B-27, 1B-28, 1B-29, 1B-32, 1B-33, 1B-34, 6B-7, 5B-20  
**Pedal cyclist deaths** 2B-10  
**Pedestrian deaths** 2B-10  
**Peptic ulcer**, deaths from 2B-6, 2C-28, 5E-12  
**Pericardium and (acute) myocarditis**, deaths from, 2B-6, 2C-28, 5E-12  
**Perinatal deaths** 1G-3, 6A-1, 5C-1, 6B-2-1

**Pertussis (whooping cough)**

Reported cases, 3A-1, 5F-1, 5F-2  
 Deaths from 2B-6, 2C-27, 2C-28, 3A-2, 5E-12

**Pharyngitis, acute**, emergency room visits for, 4C-2, 7C-2

**Placenta previa**, (see also **Complications of labor/delivery**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-27

**Place of birth/delivery** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15

**Place of death** 2A-4, 2B-10, 5E-8

**Plague** 3A-1, 3A-2, 5F-1, 5F-2

**Plurality** (see **Multiple births**)

**Pneumoconioses and chemical effects** deaths from 2B-6, 2C-28, 5E-12

**Pneumonia** deaths from 2B-6, 2C-27, 5E-12

**Pneumonia**, emergency room visits for, 4C-1, 7C-1

**Pneumonia**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Pneumonitis due to solids and liquids**, deaths from 2B-6, 2C-28, 5E-12

**Poisoning, accidental**, death from, 2B-6, 2B-9, 6A-4, 6B-4

**Poisoning**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Poisonings**, emergency room visits for, 4C-1, 7C-1

**Poliomyelitis, acute**, deaths from 2B-6, 2C-27, 2C-28, 5E-12

**Polydactyly/Syndactyly/Adactyly**, (see also

**Congenital anomalies**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 1B-35, 5B-29

**Population denominators** 10A-1, 10A-2, 10B-1, 10B-2, 10C-1

**Postneonatal deaths** 2C-1, 2C-3, 2C-4, 5E-20, 5E-21

**Precipitous labor**, (see also **Complications of labor/delivery**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-27

**Pregnancies**

Among girls 14 and younger 1A-7, 5A-4

Among girls 17 and younger 1A-2, 5A-3

Among girls 15-17 1A-3, 5A-4

Among girls 15-19 1A-7, 5A-3

Among girls 18-19 1A-4, 5A-4

Among girls 19 and younger 1A-5, 1A-7, 5A-2

By county of residence 5A-1, 5A-2, 5A-3, 5A-4

By outcome 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1A-7, 5A-1, 5A-4

By race/ethnicity 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6

By women's age 1A-6, 1A-7, 5A-4

**Pregnancy, childbirth and the puerperium**, deaths related to 1C-2, 2B-6, 2C-27, 2C-28, 5E-12

**Pregnancy with abortive outcome**, deaths from 1C-2, 2B-6, 2C-27, 2C-28, 5E-12

**Premature mortality** 2D-2, 2D-4

**Prenatal care**

Average number of visits 5B-22

Number of visits 1B-2, 1B-3, 1B-4, 1B-5, 1B-6,

1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13,

1B-14, 1B-15, 1B-25, 1B-26, 1B-27, 1B-28,

1B-31, 1B-32, 1B-33, 1B-34, 5B-12, 5B-21,

Trimester of entry 1B-1, 1B-2, 1B-3, 1B-4, 1B-5,

1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12,

1B-13, 1B-14, 1B-15, 1B-25, 1B-26, 1B-27,

1B-28, 1B-30, 1B-32, 1B-33, 1B-34, 5B-11,

**Preterm births** 1B-2, 1B-3, 1B-4, 1B-5, 1B-6, 1B-7, 1B-8, 1B-9, 1B-10, 1B-11, 1B-12, 1B-13, 1B-14, 1B-15, 1B-25, 1B-26, 1B-27, 1B-28, 1B-32, 1B-33, 1B-34, 5B-22, 6A-1, 5B-23, 5B-24, 5B-30, 6B-2

**Previous infant 4,000+ grams** (see also

**Medical risk factors for pregnancy**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-25

**Previous preterm or small for gestational age (SGA) infant** (see also **Medical risk factors for pregnancy**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-25

**Prolonged labor**, (see also **Complications of labor/delivery**) 1B-26, 1B-28, B-32, 1B-33, 1B-34, 5B-27

**Prostate cancer**, deaths from 2B-2, 2B-3, 2B-4, 2B-5, 2B-6, 2C-27, 2C-28, 2D-3, 2D-4, 5E-11, 5E-12, 5E-13, 5E-14, 5E-32, 5E-33

**Prostatectomy**, (inpatient procedure), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1

**Psychoses**, inpatient discharges with 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Puerto-Rican mothers**, number of births to, 1B-22

**R**

**Rabies** 3A-1, 3A-2, 5F-1, 5F-2

**Rates**

Age-adjusted death rates 2B-2, 2B-3, 2B-4, 2B-5, 5E-5, 5E-11

Age-specific death rates 2C-1, 2C-2, 2C-3, 2C-6, 2C-7, 2C-8, 2C-9, 2C-11, 2C-12, 2C-13,

2C-15, 2C-16, 2C-17, 2C-19, 2C-20, 2C-21,

2C-23, 2C-24, 2C-25, 2C-28, 5E-25, 5E-27, 5E-29, 5E-31, 5E-33,

Birth rates 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1B-1, 5B-2

Cause-specific death rates 2B-2, 2B-3, 2B-4, 2B-5, 2B-6, 2C-6, 2C-7, 2C-8, 2C-9, 2C-11, 2C-12, 2C-13,

2C-15, 2C-16, 2C-17, 2C-19, 2C-20, 2C-21, 2C-23, 2C-24, 2C-25, 5E-11, 5E-13, 5E-19, 5E-25, 5E-27,

5E-29, 5E-31, 5E-33

Crude death rates 2B-6, 5E-13

Fertility rates 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1B-1, 5A-1

Natural increase 5B-1

Pregnancy rates 1A-1, 1A-2, 1A-3, 1A-4, 1A-5, 1A-6, 1A-7, 5A-1, 5A-2, 5A-3

**Rectal atresia/stenosis**, (see also **Complications of labor/delivery**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-27

**Relapsing fever, Tick** 3A-1, 5F-1, 5F-2

**Renal agenesis**, (see also **Complications of labor/delivery**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-27

**Renal disease**, (see also **Medical risk factors for pregnancy**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-25

**Renal failure**, deaths from 2B-6, 2C-28, 5E-12

**Reportable diseases** (see **Diseases, Reportable**)

**Respiratory Distress Syndrome**, deaths from, (see also **Certain conditions originating in the perinatal period**) 2C-5, 2C-6, , 5E-19

**Respiratory infection, acute upper**, emergency room visits for, 4C-2, 7C-2

**Respiratory system, diseases of**, emergency room visits for, 4C-1, 7C-1

**Respiratory system, diseases of**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1

**Respiratory therapy**, (inpatient procedure), 4B-1, 4B-2, 4B-3, 4B-4, 7B-1

**Reyes syndrome** 3A-1, 3A-2, 5F-1, 5F-2

**Rheumatism, excluding back**, emergency room visits for, 4C-2, 7C-2

**Rh sensitization**, (see also **Medical risk factors for pregnancy**) 1B-26, 1B-28, 1B-32, 1B-34, 5B-25

**Rocky Mountain spotted fever** 3A-1, 3A-2, 5F-1, 5F-2

**Rubella** 3A-1, 3A-2, 6A-1, 5F-1, 5F-2

**Rubella syndrome, congenital** 3A-1, 5F-1, 5F-2

**Rupture of membranes**, (see also **Complications of labor/delivery**) 1B-26, 1B-28, 1B-32, 1B-33, 1B-34, 5B-27

**Rural areas** 1B-5, 1B-7, 1B-25, 1B-26, 2B-5, 2C-1, 2C-8, 2C-9, 2C-12, 2C-13, 2C-16, 2C-17, 2C-20,

**S**

**Salmonella paratyphi A** 3A-1, 5F-1, 5F-2  
**Salmonella paratyphi B** 3A-1, 5F-1, 5F-2  
**Salmonella paratyphi C** 3A-1, 5F-1, 5F-2  
**Salmonellosis** (except *S. typhi* and *S. paratyphi*)  
 Reported cases 3A-1, 5F-1, 5F-2  
 Deaths from 3A-2  
**Scarlet fever and erysipelas** 2B-6, 2C-27, 5E-12  
**Schizophrenic disorders**, emergency room visits for, 4C-1, 7C-1  
**Schizophrenic disorders**, inpatient discharges with, 4A-1, 4A-2, 4A-3, 4A-5, 7A-1  
**Seizures**, (see also **Abnormal conditions of the newborn**) 1B-26, 1B-27, 1B-28, 1B-32, 1B-34, 5B-28  
**Self-harm, intentional**, (see **Suicide**)

**Septicemia**, deaths from 2B-1, 2B-2, 2B-4, 2B-5, 2B-6, 2B-11, 2C-27, 2C-28, 5E-11, 5E-12, 5E-13, 5E-14, 5E-32, 5E-33  
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