



# MORTALITY IN LOS ANGELES COUNTY 2004

## LEADING CAUSES OF DEATH AND PREMATURE DEATH

A publication of the Los Angeles County Department of Public Health



# What's INSIDE?

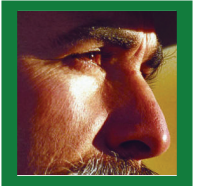


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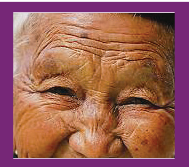
## LEADING CAUSES OF DEATH AND PREMATURE DEATH

### **Background**

When a death occurs in California, state law requires that a certificate of death be filed within eight days of death and before a decedent is buried or cremated. The certificate of death is a legal document that serves as a permanent record of the death of an individual. To complete a certificate of death, the funeral director collects identifying and demographic information about the decedent from family members and medical records. The decedent's physician or the coroner provides information about the medical conditions or events that precipitated the death.



When the death certificate is complete, it is filed with the local registrar. The local registrar files the document with the State Registrar of Vital Records. State records are aggregated by the National Center for Health Statistics to create an annual national mortality database. There is a delay of about two years before the annual national mortality database is available for use. Errors, omissions, and inaccuracies can occur when the death certificate is completed, and later when it is processed. Some of these errors are detected and corrected; others are not.

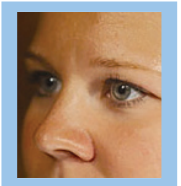


This report summarizes information obtained from death certificates for all Los Angeles County residents who died in 2004, and mortality trends for 1995 through 2004. While it cannot provide information about every cause of death, it lays the groundwork for future projects and provides valuable information for public health and medical research, evaluation of prevention and intervention programs, community needs assessments, policy development, and program planning.

### **Premature death: What is it?**

We expect most people to live a long life, but many do not. In 2004, almost half (45%) of the people who died were less than 75 years old. To quantify the impact of early, or premature, death we must consider how long a person was expected to live. For this report, we set our expected lifespan at 75 years of age, a standard cut-off used in public health. Ideally, many people will live longer than 75 years.

If we expect everyone to live to at least 75 years of age, then people who die younger are considered to have died prematurely. For example, a person who died at 63 years of age lost 12 years of expected life, while a person who died at 80 exceeded the expectation and did not lose any years of expected life. For everyone who died during the year, we calculated the years of expected life that were lost if they died before 75 years of age. Then, by adding up the total years of life lost for each cause of death, we identified those causes of death responsible for the greatest amount of premature death. Calculations of years of life lost were limited to persons who were at least 1 year of age at the time of death. Infants less than 1 year of age were excluded because prevention of infant mortality differs from prevention of other causes of early mortality.



## Mortality in Los Angeles County 2004

# LEADING CAUSES OF DEATH AND PREMATURE DEATH

### Measures

This report provides the number of deaths, death rates, and years of life lost before age 75 for the leading causes of death and premature death for 2004 and the 10-year period, 1995 through 2004, for Los Angeles County residents. The variables included in the analysis were age at death, gender, race/ethnicity, service planning area and health district of residence, and underlying cause of death.



A standardized coding system, the International Classification of Diseases (ICD), was used to classify causes of death and to group similar causes of death into categories for analysis.<sup>1</sup> The cause of death groups were based on categories developed by the National Center for Health Statistics.<sup>2</sup> To identify the leading causes of death, the cause of death groups were ranked by the number of deaths in each group. If two groups had the same number of deaths, then the cause of death that resulted in the most years of life lost was ranked first. To identify the leading causes of premature death, the groups were ranked by the years of life lost in each group. If two causes of death resulted in the same number of years of life lost, then the group that resulted in the greatest number of deaths was ranked first.



When a person dies, it is likely that several factors or conditions contributed to the death. For this report, we analyzed the underlying cause of death, which is the condition that most directly caused the death. By using a single cause of death rather than considering all the conditions present at the time of death, the number of deaths and rates in this report do not reflect the full impact of certain diseases and conditions.

Some figures include national goals established by Healthy People 2010.<sup>3</sup> Healthy People 2010 is a set of health-related objectives for the nation to achieve, with the goal of increasing life expectancy and quality of life, and eliminating health disparities in population groups.

### Definitions

*Age-adjusted death rate:* There are age-related differences in the rates at which most health conditions occur. Some conditions are more common among young people, while others are more common among older people. Age adjustment is a technique for removing the effects of age from crude rates so they can be compared. Age adjustment is used to compare two or more populations at one point in time or one population at two or more points in time. To control for differences in the age distribution of the populations being compared, the death rates for each population group are applied to a standard



<sup>1</sup> International statistical classification of diseases and related health problems, tenth revision. Geneva: World Health Organization, 1992.

<sup>2</sup> Instruction manual, Part 9. ICD-10 cause-of-death lists for tabulating mortality statistics. Available at: [http://www.cdc.gov/nchs/data/dvs/im9\\_2002.pdf](http://www.cdc.gov/nchs/data/dvs/im9_2002.pdf).

<sup>3</sup> Healthy People, Office of Disease Prevention and Health Promotion, U.S. Department of Health and Human Services. [www.healthypeople.gov](http://www.healthypeople.gov).

population in order to create a comparable summary measure of mortality. In this report, age-adjusted death rates were calculated using the 2000 standard population published by the National Center for Health Statistics.<sup>4</sup> All rates were rounded to the nearest whole number; therefore, rates that appear to be the same may differ by a fractional amount.

*Age-specific death rate:* The number of deaths in a specific age group divided by the population at risk in that age group.

*Death rate:* The number of deaths divided by the population at risk. Death rates make comparisons between different population groups more meaningful. This type of rate is also called the crude death rate.

*Health District:* Using census tract boundaries, the County is divided into 26 health districts that are responsible for planning and providing public health services according to the health needs of the local communities (see Appendix 3).

*Service Planning Area:* Health districts are aggregated to form service planning areas. The County is divided into eight service planning areas (see Appendix 3 and Appendix 4).

### User's Guide to Color

To make the figures easier to understand and interpret, color codes have been used throughout the report. To make it easier to see the overall impact of cancer, the same color is used for all cancers regardless of the type. The same is true for unintentional injuries (accidents); all unintentional injuries, such as drug overdose, motor vehicle crash, or any other unintentional injury, have the same color code.

Coronary heart disease
Stroke
Cancer
Emphysema/chronic obstructive pulmonary disease (COPD)
Pneumonia/influenza
Diabetes
Alzheimer's disease
Homicide
Unintentional injury (accident)
Self-inflicted injury (suicide)
Liver disease
HIV
Birth defect
Perinatal period condition
Other conditions

<sup>4</sup> Anderson RN, Rosenberg HM. Age standardization of death rates: Implementation of the year 2000 standard. National Vital Statistics Reports; Vol. 47 No. 3. Hyattsville, Maryland: National Center for Health Statistics, 1998.

*Mortality in Los Angeles County 2004*  
**LEADING CAUSES OF DEATH AND PREMATURE DEATH**

### **Highlights**

- ▶ On an average day in Los Angeles County in 2004, 162 people died: 42 from coronary heart disease, 37 from cancer, 11 from stroke, and 11 from injuries (accident, homicide, suicide). Six deaths were children or young adults less than 25 years of age.
- ▶ There were 59,153 deaths: 29,839 males and 29,314 females.
- ▶ Coronary heart disease was the leading cause of death overall, and the leading cause of death for both males and females, all race/ethnic groups, persons aged 45 years and older, and in every service planning area and health district.
- ▶ Almost one out of every four deaths was caused by coronary heart disease (15,296 deaths).
- ▶ Nearly half (48%) of all deaths in 2004 were caused by either coronary heart disease (15,296 deaths) or cancer (13,393 deaths).
- ▶ Among those who died of cancer, lung cancer was most common (3,034 deaths) followed by colorectal cancer (1,414 deaths), and breast cancer (1,166 deaths).
- ▶ Injuries (homicide, suicide, accidents) were the leading cause of death for persons 1-44 years of age. Homicide was the second leading cause of premature death overall.
- ▶ Except for Alzheimer's disease, death rates for men were higher than for women for each of the leading causes of death and premature death.
- ▶ Whites had the highest death rate for drug overdose, emphysema/chronic obstructive pulmonary disease (COPD), and suicide. Hispanics had the highest death rate for liver disease. For all other leading causes of death and premature death, the highest rates were among blacks.
- ▶ 45% of all deaths in the county were among persons less than 75 years of age, resulting in nearly 493,000 years of life lost.
- ▶ There has been no change since 1999 in the top seven causes of death: coronary heart disease, stroke, lung cancer, emphysema/COPD, pneumonia/influenza, diabetes, and colorectal cancer.
- ▶ Coronary heart disease, homicide, and motor vehicle crashes have been the three leading causes of premature death since 1997.
- ▶ From 1995 to 2004, Alzheimer's disease and diabetes were the only leading causes of death or premature death for which the rate has increased.
- ▶ The Healthy People 2010 goal was met for lung cancer and stroke but not for other leading causes of death and premature death for which a comparable Healthy People goal has been established (breast cancer, colorectal cancer, coronary heart disease, emphysema/COPD, HIV, homicide, liver disease, motor vehicle crash, and suicide).

User's guide to cause of death and premature death figures

The following series of figures compares the ten leading causes of death with the ten leading causes of *premature* death (death before age 75) for the county overall and selected population groups. These figures are designed to facilitate comparisons within population groups. Other figures are designed to facilitate comparisons between population groups.

A				B			
Leading causes of death				Leading causes of <i>premature</i> death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost	Death rank
1.	Coronary heart disease	15,296	1.	1.	Coronary heart disease	64,366	1.
2.	Stroke	4,121	8.	2.	Homicide	48,241	10.
3.	Lung cancer	3,034	5.	3.	Motor vehicle crash	32,189	12.
4.	Emphysema/COPD	2,641	13.	4.	Suicide	20,060	17.
5.	Pneumonia/influenza	2,272	20.	5.	Lung cancer	19,626	3.
6.	Diabetes	2,201	9.	6.	Liver disease	17,783	11.
7.	Colorectal cancer	1,414	12.	7.	Drug overdose	17,591	19.
8.	Alzheimer's disease	1,340	53.	8.	Stroke	16,181	2.
9.	Breast cancer	1,166	11.	9.	Diabetes	15,928	6.
10.	Homicide	1,069	2.	10.	HIV	14,873	21.

**A:** The ten leading causes of death are shown from highest (top) to lowest (bottom) based on the number of deaths from each cause.

**B:** The ten leading causes of *premature* death are shown from highest (top) to lowest (bottom) based on the number of years of life lost before age 75 from each cause.

① The cause of death group coded by color.

② The number of deaths due to the specific cause, e.g., there were 15,296 deaths from coronary heart disease and 2,641 deaths from emphysema/COPD.

③ The *premature* death rank for this cause of death, e.g., homicide was the tenth ranked cause of death (1,069 deaths), but the second ranked cause of *premature* death (48,241 years of life lost).

④ The cause of premature death group coded by color.

⑤ The total years of life lost before age 75 for the specific cause of death.

⑥ The death rank for this cause of *premature* death, e.g., stroke was the eighth ranked cause of *premature* death resulting in 16,181 years of life lost before age 75, but the second ranked cause of death (4,121 deaths).

Figure 1. Ten leading causes of death and premature death

**Los Angeles County**  
59,153 total deaths  
492,715 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	15,296	1.	1.	Coronary heart disease	64,366	1.
2.	Stroke	4,121	8.	2.	Homicide	48,241	10.
3.	Lung cancer	3,034	5.	3.	Motor vehicle crash	32,189	12.
4.	Emphysema/COPD	2,641	13.	4.	Suicide	20,060	17.
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8.	Alzheimer's disease	1,340	53.	8.	Stroke	16,181	2.
9.	Breast cancer	1,166	11.	9.	Diabetes	15,928	6.
10.	Homicide	1,069	2.	10.	HIV	14,873	21.

There were almost four times as many deaths from coronary heart disease as there were from stroke, the second leading cause of death.

Overall, coronary heart disease (15,296 deaths) and cancer (13,393 deaths) caused nearly half (48%) of all deaths.

For each death from homicide, the second leading cause of premature death, an average of 45 years of life was lost compared with four years for coronary heart disease.

Homicide, suicide, and accidents caused only 7% of all deaths but 27% of all years of life lost, highlighting the dramatic impact of these conditions on premature death.

Coronary heart disease, stroke, lung cancer, diabetes, and homicide were leading causes of death and premature death.

HIV remained an important cause of premature death more than 25 years after the first case was identified.

\*Excludes infants less than 1 year of age and persons of unknown age.

\*\*Death before age 75 years.





Figure 3. Ten leading causes of death and premature death, by race/ethnicity

White				Hispanic			
32,324 total deaths				12,632 total deaths			
176,830 years of life lost*				173,304 years of life lost*			
Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	9,236	1.	1.	Coronary heart disease	29,078	1.
2.	Stroke	2,234	9.	2.	Lung cancer	10,427	4.
3.	Emphysema/COPD	1,835	11.	3.	Motor vehicle crash	9,601	15.
4.	Lung cancer	1,825	2.	4.	Drug overdose	9,429	18.
5.	Pneumonia/influenza	1,330	19.	5.	Suicide	8,976	13.
6.	Alzheimer's disease	975	44.	6.	Liver disease	7,148	11.
7.	Diabetes	863	8.	7.	Breast cancer	5,628	9.
8.	Colorectal cancer	767	12.	8.	Diabetes	4,981	7.
9.	Breast cancer	619	7.	9.	Stroke	4,932	2.
10.	Pancreatic cancer	450	15.	10.	HIV	4,780	27.

White				Hispanic			
32,324 total deaths				12,632 total deaths			
176,830 years of life lost*				173,304 years of life lost*			
Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	2,626	2.	1.	Homicide	25,526	4.
2.	Stroke	785	9.	2.	Coronary heart disease	15,505	1.
3.	Diabetes	741	6.	3.	Motor vehicle crash	15,157	7.
4.	Homicide	531	1.	4.	Liver disease	8,449	5.
5.	Liver disease	458	4.	5.	Suicide	7,023	14.
6.	Pneumonia/influenza	408	18.	6.	Diabetes	6,333	3.
7.	Motor vehicle crash	374	3.	7.	Drug overdose	5,560	20.
8.	Lung cancer	366	13.	8.	HIV	5,555	15.
9.	Emphysema/COPD	305	29.	9.	Stroke	5,322	2.
10.	Perinatal period condition	234	53.	10.	Breast cancer	3,746	12.

Alzheimer's disease was the eighth leading cause of death overall but the sixth leading cause of death for whites.

The years of life lost from stroke and HIV were similar but there were almost 13 times more deaths from stroke (2,234 deaths) than HIV (174 deaths).

Homicide was the leading cause of premature death for Hispanics even though the number of homicides was five times less than the number of coronary heart disease deaths.

Perinatal period conditions including prematurity, low birth weight, and respiratory and cardiovascular conditions were the tenth leading cause of death for Hispanics. Almost all deaths were among infants.

**Black**  
8,372 total deaths  
99,174 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	2,085	2.	1.	Homicide	17,123	4.
2.	Stroke	572	7.	2.	Coronary heart disease	14,252	1.
3.	Lung cancer	452	5.	3.	Motor vehicle crash	4,379	15.
4.	Homicide	388	1.	4.	HIV	4,204	13.
5.	Diabetes	339	6.	5.	Lung cancer	3,980	3.
6.	Emphysema/COPD	297	12.	6.	Diabetes	3,490	5.
7.	Pneumonia/influenza	257	19.	7.	Stroke	3,440	2.
8.	Colorectal cancer	237	9.	8.	Breast cancer	3,058	9.
9.	Breast cancer	200	8.	9.	Colorectal cancer	2,158	8.
10.	High blood pressure & related kidney disease	180	14.	10.	Drug overdose	2,151	19.

For each homicide, an average of 44 years of life was lost compared to 36 years for motor vehicle crash, 31 years for HIV, and seven years for coronary heart disease,

HIV was the tenth leading cause of premature death overall but was the fourth leading cause of premature death for blacks.

**Asian/Pacific Islander**  
5,591 total deaths  
40,916 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	1,292	1.	1.	Coronary heart disease	5,218	1.
2.	Stroke	513	5.	2.	Motor vehicle crash	2,797	10.
3.	Lung cancer	379	4.	3.	Suicide	2,621	13.
4.	Pneumonia/influenza	265	17.	4.	Lung cancer	2,615	3.
5.	Diabetes	251	10.	5.	Stroke	2,415	2.
6.	Emphysema/COPD	192	28.	6.	Breast cancer	1,882	9.
7.	Colorectal cancer	177	9.	7.	Homicide	1,575	22.
8.	Liver cancer	161	8.	8.	Liver cancer	1,527	8.
9.	Breast cancer	120	6.	9.	Colorectal cancer	1,403	7.
10.	Motor vehicle crash	107	2.	10.	Diabetes	1,044	5.

Cancers were leading causes of death and premature death among Asian/Pacific Islanders.

The years of life lost from motor vehicle crashes, suicide, lung cancer, and stroke were similar but there were dramatic differences in the number of deaths, highlighting the impact of injuries on premature death.

\*Excludes infants less than 1 year of age and persons of unknown age.  
\*\*Death before age 75 years.

Figure 4. Comparison of the leading causes of death and premature death, by race/ethnicity

**Leading causes of death**

Race/ethnicity Number of deaths Age-adjusted death rate	#1 cause Number of deaths Age-adjusted death rate	#2 cause Number of deaths Age-adjusted death rate	#3 cause Number of deaths Age-adjusted death rate	#4 cause Number of deaths Age-adjusted death rate	#5 cause Number of deaths Age-adjusted death rate
<b>White</b> 32,324 729 per 100,000	<b>Coronary heart disease</b> 9,236 198 per 100,000	<b>Stroke</b> 2,234 47 per 100,000	<b>Emphysema/COPD</b> 1,835 41 per 100,000	<b>Lung cancer</b> 1,825 43 per 100,000	<b>Pneumonia/influenza</b> 1,330 28 per 100,000
<b>Hispanic</b> 12,632 539 per 100,000	<b>Coronary heart disease</b> 2,626 134 per 100,000	<b>Stroke</b> 785 40 per 100,000	<b>Diabetes</b> 741 35 per 100,000	<b>Homicide</b> 531 10 per 100,000	<b>Liver disease</b> 458 16 per 100,000
<b>Black</b> 8,372 1,017 per 100,000	<b>Coronary heart disease</b> 2,085 265 per 100,000	<b>Stroke</b> 572 75 per 100,000	<b>Lung cancer</b> 452 54 per 100,000	<b>Homicide</b> 388 38 per 100,000	<b>Diabetes</b> 339 41 per 100,000
<b>Asian/Pacific Islander</b> 5,591 429 per 100,000	<b>Coronary heart disease</b> 1,292 101 per 100,000	<b>Stroke</b> 513 40 per 100,000	<b>Lung cancer</b> 379 28 per 100,000	<b>Pneumonia/influenza</b> 265 21 per 100,000	<b>Diabetes</b> 251 19 per 100,000
<b>Los Angeles County Total</b> 59,153 669 per 100,000	<b>Coronary heart disease</b> 15,296 176 per 100,000	<b>Stroke</b> 4,121 48 per 100,000	<b>Lung cancer</b> 3,034 35 per 100,000	<b>Emphysema/COPD</b> 2,641 31 per 100,000	<b>Pneumonia/influenza</b> 2,272 26 per 100,000

**Leading causes of premature death (before age 75 years)**

Race/ethnicity	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause
<b>White</b>	<b>Coronary heart disease</b>	<b>Lung cancer</b>	<b>Motor vehicle crash</b>	<b>Drug overdose</b>	<b>Suicide</b>
<b>Hispanic</b>	<b>Homicide</b>	<b>Coronary heart disease</b>	<b>Motor vehicle crash</b>	<b>Liver disease</b>	<b>Suicide</b>
<b>Black</b>	<b>Homicide</b>	<b>Coronary heart disease</b>	<b>Motor vehicle crash</b>	<b>HIV</b>	<b>Lung cancer</b>
<b>Asian/Pacific Islander</b>	<b>Coronary heart disease</b>	<b>Motor vehicle crash</b>	<b>Suicide</b>	<b>Lung cancer</b>	<b>Stroke</b>
<b>Los Angeles County Total</b>	<b>Coronary heart disease</b>	<b>Homicide</b>	<b>Motor vehicle crash</b>	<b>Suicide</b>	<b>Lung cancer</b>

Notes: Los Angeles County Total includes persons of other or unknown race/ethnicity.

Figure 5. Comparison of the leading causes of death and premature death for males, by race/ethnicity

**Males: Leading causes of death**

Race/ethnicity Number of deaths Age-adjusted death rate	#1 cause Number of deaths Age-adjusted death rate	#2 cause Number of deaths Age-adjusted death rate	#3 cause Number of deaths Age-adjusted death rate	#4 cause Number of deaths Age-adjusted death rate	#5 cause Number of deaths Age-adjusted death rate
<b>White</b> 15,615 866 per 100,000	<b>Coronary heart disease</b> 4,505 247 per 100,000	<b>Lung cancer</b> 974 52 per 100,000	<b>Stroke</b> 881 49 per 100,000	<b>Emphysema/COPD</b> 830 46 per 100,000	<b>Pneumonia/influenza</b> 613 34 per 100,000
<b>Hispanic</b> 6,950 659 per 100,000	<b>Coronary heart disease</b> 1,415 171 per 100,000	<b>Homicide</b> 481 18 per 100,000	<b>Stroke</b> 364 44 per 100,000	<b>Diabetes</b> 347 38 per 100,000	<b>Liver disease</b> 308 22 per 100,000
<b>Black</b> 4,224 1,275 per 100,000	<b>Coronary heart disease</b> 1,012 331 per 100,000	<b>Homicide</b> 348 73 per 100,000	<b>Lung cancer</b> 263 77 per 100,000	<b>Stroke</b> 208 73 per 100,000	<b>Diabetes</b> 158 47 per 100,000
<b>Asian/Pacific Islander</b> 2,919 519 per 100,000	<b>Coronary heart disease</b> 696 127 per 100,000	<b>Stroke</b> 260 47 per 100,000	<b>Lung cancer</b> 235 41 per 100,000	<b>Emphysema/COPD</b> 125 25 per 100,000	<b>Pneumonia/influenza</b> 118 23 per 100,000
<b>All males</b> 29,839 805 per 100,000	<b>Coronary heart disease</b> 7,662 219 per 100,000	<b>Stroke</b> 1,718 50 per 100,000	<b>Lung cancer</b> 1,710 47 per 100,000	<b>Emphysema/COPD</b> 1,278 38 per 100,000	<b>Diabetes</b> 1,063 29 per 100,000

**Males: Leading causes of premature death (before age 75 years)**

Race/ethnicity	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause
<b>White</b>	<b>Coronary heart disease</b>	<b>Drug overdose</b>	<b>Suicide</b>	<b>Motor vehicle crash</b>	<b>Lung cancer</b>
<b>Hispanic</b>	<b>Homicide</b>	<b>Coronary heart disease</b>	<b>Motor vehicle crash</b>	<b>Liver disease</b>	<b>Suicide</b>
<b>Black</b>	<b>Homicide</b>	<b>Coronary heart disease</b>	<b>HIV</b>	<b>Motor vehicle crash</b>	<b>Lung cancer</b>
<b>Asian/Pacific Islander</b>	<b>Coronary heart disease</b>	<b>Suicide</b>	<b>Motor vehicle crash</b>	<b>Lung cancer</b>	<b>Stroke</b>
<b>All males</b>	<b>Coronary heart disease</b>	<b>Homicide</b>	<b>Motor vehicle crash</b>	<b>Suicide</b>	<b>Liver disease</b>

Notes: All males includes persons of other or unknown race/ethnicity.

Figure 6. Comparison of the leading causes of death and premature death for females, by race/ethnicity

**Females: Leading causes of death**

Race/ethnicity Number of deaths Age-adjusted death rate	#1 cause Number of deaths Age-adjusted death rate	#2 cause Number of deaths Age-adjusted death rate	#3 cause Number of deaths Age-adjusted death rate	#4 cause Number of deaths Age-adjusted death rate	#5 cause Number of deaths Age-adjusted death rate
<b>White</b> 16,709 621 per 100,000	<b>Coronary heart disease</b> 4,731 158 per 100,000	<b>Stroke</b> 1,353 46 per 100,000	<b>Emphysema/COPD</b> 1,005 37 per 100,000	<b>Lung cancer</b> 851 35 per 100,000	<b>Pneumonia/influenza</b> 717 24 per 100,000
<b>Hispanic</b> 5,682 445 per 100,000	<b>Coronary heart disease</b> 1,211 107 per 100,000	<b>Stroke</b> 421 36 per 100,000	<b>Diabetes</b> 394 33 per 100,000	<b>Pneumonia/influenza</b> 234 21 per 100,000	<b>Breast cancer</b> 222 15 per 100,000
<b>Black</b> 4,148 838 per 100,000	<b>Coronary heart disease</b> 1,073 220 per 100,000	<b>Stroke</b> 364 75 per 100,000	<b>Breast cancer</b> 199 38 per 100,000	<b>Lung cancer</b> 189 38 per 100,000	<b>Diabetes</b> 181 36 per 100,000
<b>Asian/Pacific Islander</b> 2,672 359 per 100,000	<b>Coronary heart disease</b> 596 81 per 100,000	<b>Stroke</b> 253 34 per 100,000	<b>Pneumonia/influenza</b> 147 20 per 100,000	<b>Lung cancer</b> 144 19 per 100,000	<b>Diabetes</b> 142 19 per 100,000
<b>All females</b> 29,314 563 per 100,000	<b>Coronary heart disease</b> 7,634 143 per 100,000	<b>Stroke</b> 2,403 45 per 100,000	<b>Emphysema/COPD</b> 1,363 27 per 100,000	<b>Lung cancer</b> 1,324 27 per 100,000	<b>Pneumonia/influenza</b> 1,259 23 per 100,000

**Females: Leading causes of premature death (before age 75 years)**

Race/ethnicity	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause
<b>White</b>	Coronary heart disease	Breast cancer	Lung cancer	Motor vehicle crash	Drug overdose
<b>Hispanic</b>	Coronary heart disease	Motor vehicle crash	Breast cancer	Diabetes	Homicide
<b>Black</b>	Coronary heart disease	Breast cancer	Stroke	Diabetes	Lung cancer
<b>Asian/Pacific Islander</b>	Breast cancer	Coronary heart disease	Stroke	Lung cancer	Motor vehicle crash
<b>All females</b>	Coronary heart disease	Breast cancer	Motor vehicle crash	Lung cancer	Stroke

Notes: All females includes persons of other or unknown race/ethnicity.

Figure 7. Comparison of the leading causes of death, by age group

Leading causes of death

Age group Number of deaths Age-specific death rate	#1 cause Number of deaths Age-specific death rate	#2 cause Number of deaths Age-specific death rate	#3 cause Number of deaths Age-specific death rate	#4 cause Number of deaths Age-specific death rate	#5 cause Number of deaths Age-specific death rate
<b>Less than 1 year</b> 757 490 per 100,000	<b>Low birthweight/prematurity</b> 137 89 per 100,000	<b>Congenital heart defect</b> 53 34 per 100,000	<b>Fetal/neonatal hemorrhage</b> 27 17 per 100,000	<b>Respiratory distress</b> 25 16 per 100,000	<b>Complication of placenta/cord</b> 23 15 per 100,000
<b>1-4 years</b> 140 23 per 100,000	<b>Birth defect</b> 29 5 per 100,000	<b>Motor vehicle crash</b> 18 --	<b>Drowning</b> 10 --	<b>Pneumonia/influenza</b> 10 --	<b>Homicide</b> 9 --
<b>5-14 years</b> 226 14 per 100,000	<b>Motor vehicle crash</b> 35 2 per 100,000	<b>Homicide</b> 25 2 per 100,000	<b>Birth defect</b> 19 --	<b>Brain/CNS cancer</b> 19 --	<b>Leukemia</b> 13 --
<b>15-24 years</b> 1,062 74 per 100,000	<b>Homicide</b> 441 31 per 100,000	<b>Motor vehicle crash</b> 196 14 per 100,000	<b>Suicide</b> 95 7 per 100,000	<b>Drug overdose</b> 32 2 per 100,000	<b>Birth defect</b> 19 --
<b>25-44 years</b> 3,655 116 per 100,000	<b>Homicide</b> 442 14 per 100,000	<b>Motor vehicle crash</b> 310 10 per 100,000	<b>Drug overdose</b> 265 8 per 100,000	<b>HIV</b> 258 8 per 100,000	<b>Coronary heart disease</b> 246 8 per 100,000
<b>45-64 years</b> 11,434 517 per 100,000	<b>Coronary heart disease</b> 2,355 107 per 100,000	<b>Lung cancer</b> 766 35 per 100,000	<b>Liver disease</b> 565 26 per 100,000	<b>Diabetes</b> 510 23 per 100,000	<b>Stroke</b> 509 23 per 100,000
<b>65-74 years</b> 9,401 1,782 per 100,000	<b>Coronary heart disease</b> 2,306 437 per 100,000	<b>Lung cancer</b> 896 170 per 100,000	<b>Stroke</b> 559 106 per 100,000	<b>Emphysema/COPD</b> 514 97 per 100,000	<b>Diabetes</b> 505 96 per 100,000
<b>75+ years</b> 32,470 6,442 per 100,000	<b>Coronary heart disease</b> 10,383 2,060 per 100,000	<b>Stroke</b> 2,948 585 per 100,000	<b>Emphysema/COPD</b> 1,850 367 per 100,000	<b>Pneumonia/influenza</b> 1,850 367 per 100,000	<b>Lung cancer</b> 1,331 264 per 100,000
<b>Los Angeles County Total</b> 59,153 669 per 100,000***	<b>Coronary heart disease</b> 15,296 176 per 100,000	<b>Stroke</b> 4,121 48 per 100,000	<b>Lung cancer</b> 3,034 35 per 100,000	<b>Emphysema/COPD</b> 2,641 31 per 100,000	<b>Pneumonia/influenza</b> 2,272 26 per 100,000

Notes: Los Angeles County Total includes persons of unknown age.

Among persons 1-44 years of age, accidents (including motor vehicle crashes and drug overdoses) were the leading cause of death, and homicide was the second leading cause of death.

Birth defects were an important cause of death for children and adolescents.

Sixty-eight percent of coronary heart disease deaths, 72% of stroke deaths, and 81% of pneumonia/influenza deaths occurred in persons 75 years of age or older. Conversely, only 31% of breast cancer deaths, 10% of suicide deaths, and 1% of HIV deaths occurred in persons 75 years of age or older.

Figure 8. Leading causes of death for males, by age group and race/ethnicity

		Race/ethnicity Deaths from all causes	#1 Cause Number of deaths	#2 Cause Number of deaths	#3 Cause Number of deaths
<b>Males</b>	<b>0-14 years</b> 654 deaths	<b>White</b> 114	Perinatal period condition 33	<b>Birth defect</b> 25	Motor vehicle crash 10
		<b>Hispanic</b> 369	Perinatal period condition 144	<b>Birth defect</b> 71	Motor vehicle crash 23
		<b>Black</b> 118	Perinatal period condition 45	<b>Birth defect</b> 12	<b>Homicide</b> 10
		<b>Asian/Pacific Islander</b> 53	Perinatal period condition 16	<b>Birth defect</b> 13	Brain/CNS cancer 5
	<b>15-24 years</b> 852 deaths	<b>White</b> 139	Motor vehicle crash 36	<b>Homicide</b> 25	Suicide 17
		<b>Hispanic</b> 478	<b>Homicide</b> 250	Motor vehicle crash 76	Suicide 45
		<b>Black</b> 180	<b>Homicide</b> 127	Motor vehicle crash 18	Suicide 5
		<b>Asian/Pacific Islander</b> 52	Suicide 11	Motor vehicle crash 10	<b>Homicide</b> 9
	<b>25-44 years</b> 2,514 deaths	<b>White</b> 752	Drug overdose 94	Suicide 82	HIV 72
		<b>Hispanic</b> 1,111	<b>Homicide</b> 185	Motor vehicle crash 113	HIV 92
		<b>Black</b> 490	<b>Homicide</b> 166	HIV 58	Coronary heart disease 41
		<b>Asian/Pacific Islander</b> 147	Coronary heart disease 22	Motor vehicle crash 18	Suicide 17
	<b>45-64 years</b> 6,848 deaths	<b>White</b> 3,115	Coronary heart disease 839	Lung cancer 246	Liver disease 168
		<b>Hispanic</b> 1,804	Coronary heart disease 406	Liver disease 179	<b>Diabetes</b> 122
		<b>Black</b> 1,265	Coronary heart disease 317	Lung cancer 101	<b>Diabetes</b> 53
		<b>Asian/Pacific Islander</b> 623	Coronary heart disease 139	Stroke 56	Lung cancer 53



<b>65-74 years</b> 5,235 deaths	<b>White</b> 2,704	Coronary heart disease 723	Lung cancer 295	Emphysema/COPD 176
	<b>Hispanic</b> 1,099	Coronary heart disease 319	<b>Diabetes</b> <b>85</b>	Stroke 67
	<b>Black</b> 880	Coronary heart disease 258	Lung cancer 94	Stroke 44
	<b>Asian/Pacific Islander</b> 525	Coronary heart disease 121	Lung cancer 82	Stroke 37
<b>75+ years</b> 13,729 deaths	<b>White</b> 8,787	Coronary heart disease 2,874	Stroke 646	Emphysema/COPD 556
	<b>Hispanic</b> 2,088	Coronary heart disease 633	Stroke 173	<b>Diabetes</b> <b>119</b>
	<b>Black</b> 1,291	Coronary heart disease 395	Stroke 106	Prostate cancer 94
	<b>Asian/Pacific Islander</b> 1,519	Coronary heart disease 414	Stroke 165	Emphysema/COPD 108

Notes: In each age group, the number of deaths from all causes includes persons of other or unknown race/ethnicity.

**A**lmost all perinatal period condition deaths occurred in infants less than one year of age. Thirty-one percent of these resulted from low birthweight/prematurity.

**M**ost deaths from birth defects occurred in infants less than one year of age. Among these, deaths from congenital heart defects were the most common.

**I**njuries (homicide, suicide, and accidents) caused 81% of all deaths among adolescent and young adult males aged 15-24 years.

**T**he homicide rate for black males aged 15-24 years was 164 per 100,000 compared with 10 per 100,000 for the county overall, 18 per 100,000 for all males, 38 per 100,000 for all blacks, and 73 per 100,000 for black males of all ages.

**A**mong men, 83% of all homicides and 45% of all suicides were committed with a gun. The highest proportion of gun suicides was among elderly men (75 years or older), 74% of whom committed suicide with a gun.

**H**IV was a leading cause of death among men 25-44 years of age.

**C**oronary heart disease was the leading cause of the death for men older than 44 years of age.

Figure 9. Leading causes of death for females, by age group and race/ethnicity

		Race/ethnicity Deaths from all causes	#1 Cause Number of deaths	#2 Cause Number of deaths	#3 Cause Number of deaths
<b>Females</b>	<b>0-14 years</b> 469 deaths	<b>White</b> 93	Perinatal period condition 37	<b>Birth defect</b> 16	Motor vehicle crash 5
		<b>Hispanic</b> 257	Perinatal period condition 90	<b>Birth defect</b> 62	Motor vehicle crash 11
		<b>Black</b> 82	Perinatal period condition 37	<b>Birth defect</b> 9	<b>Homicide</b> 4
		<b>Asian/Pacific Islander</b> 34	Perinatal period condition 11	<b>Birth defect</b> 7	Motor vehicle crash 3
	<b>15-24 years</b> 210 deaths	<b>White</b> 52	Motor vehicle crash 18	Suicide 5	<b>Homicide</b> 5
		<b>Hispanic</b> 99	Motor vehicle crash 25	<b>Homicide</b> 11	Suicide 7
		<b>Black</b> 34	<b>Homicide</b> 11	Motor vehicle crash 5	<b>Asthma</b> 3
		<b>Asian/Pacific Islander</b> 22	Motor vehicle crash 6	Suicide 4	<b>Homicide</b> 2
	<b>25-44 years</b> 1,141 deaths	<b>White</b> 378	Drug overdose 49	Suicide 33	Motor vehicle crash 31
		<b>Hispanic</b> 381	Breast cancer 30	Motor vehicle crash 29	<b>Homicide</b> 22
		<b>Black</b> 278	Coronary heart disease 24	Breast cancer 21	<b>Homicide</b> 17
		<b>Asian/Pacific Islander</b> 99	Breast cancer 13	Motor vehicle crash 8	Colorectal cancer 8
	<b>45-64 years</b> 4,586 deaths	<b>White</b> 1,970	Coronary heart disease 272	Breast cancer 208	Lung cancer 168
		<b>Hispanic</b> 1,177	Coronary heart disease 143	Breast cancer 114	<b>Diabetes</b> 90
		<b>Black</b> 996	Coronary heart disease 185	Breast cancer 105	Lung cancer 59
		<b>Asian/Pacific Islander</b> 421	Breast cancer 62	Coronary heart disease 40	Stroke 38

<b>65-74 years</b> 4,166 deaths	<b>White</b> 2,025	Coronary heart disease 404	Lung cancer 229	Emphysema/COPD 176
	<b>Hispanic</b> 989	Coronary heart disease 203	<b>Diabetes</b> 101	Stroke 66
	<b>Black</b> 717	Coronary heart disease 188	Lung cancer 61	Stroke 54
	<b>Asian/Pacific Islander</b> 419	Coronary heart disease 78	Stroke 34	Lung cancer 34
<b>75+ years</b> 18,741 deaths	<b>White</b> 12,191	Coronary heart disease 4,034	Stroke 1,157	Emphysema/COPD 745
	<b>Hispanic</b> 2,779	Coronary heart disease 851	Stroke 277	<b>Diabetes</b> 187
	<b>Black</b> 2,041	Coronary heart disease 676	Stroke 237	Pneumonia/influenza 124
	<b>Asian/Pacific Islander</b> 1,677	Coronary heart disease 475	Stroke 178	Pneumonia/influenza 122

Notes: In each age group, the number of deaths from all causes includes persons of other or unknown race/ethnicity.

**A**ll perinatal period condition deaths occurred in infants less than one year of age. Thirty-five percent of these resulted from low birthweight/prematurity.

**M**ost deaths from birth defects occurred in infants less than one year of age. Among these, deaths from congenital heart defects were the most common.

**M**otor vehicle crashes, homicide, and suicide were leading causes of death for adolescent and young adult women.

**C**oronary heart disease was a leading cause of death for women over the age of 44 years.

**B**reast and lung cancer were leading causes of death for women 25-74 years of age.

**O**verall, 20% of all women who died were between the ages of 25 and 64 years. Among women who died of breast cancer, 50% were between the ages of 25 and 64 years.

Figure 10. Leading causes of death and premature death, by service planning area (SPA) of residence

**Antelope Valley (SPA 1)**

1,972 total deaths

21,524 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	488	1.	1.	Coronary heart disease	2,995	1.
2.	Stroke	125	8.	2.	Motor vehicle crash	2,867	5.
3.	Emphysema/COPD	120	10.	3.	Homicide	1,348	13.
4.	Lung cancer	114	6.	4.	Suicide	1,225	11.
5.	Motor vehicle crash	83	2.	5.	Drug overdose	1,066	14.

**San Fernando (SPA 2)**

12,435 total deaths

87,164 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	3,419	1.	1.	Coronary heart disease	11,848	1.
2.	Stroke	905	8.	2.	Motor vehicle crash	5,950	11.
3.	Lung cancer	643	5.	3.	Suicide	4,598	13.
4.	Emphysema/COPD	513	16.	4.	Homicide	4,541	20.
5.	Pneumonia/influenza	500	23.	5.	Lung cancer	3,671	3.

**San Gabriel (SPA 3)**

10,582 total deaths

76,841 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	2,704	1.	1.	Coronary heart disease	9,188	1.
2.	Stroke	756	6.	2.	Homicide	5,518	16.
3.	Lung cancer	531	5.	3.	Motor vehicle crash	4,938	12.
4.	Emphysema/COPD	515	15.	4.	Suicide	3,525	18.
5.	Pneumonia/influenza	488	19.	5.	Lung cancer	3,400	3.

**Metro (SPA 4)**

6,516 total deaths

56,624 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	1,662	1.	1.	Coronary heart disease	7,363	1.
2.	Stroke	426	10.	2.	Homicide	5,063	12.
3.	Pneumonia/influenza	293	20.	3.	HIV	3,827	8.
4.	Lung cancer	290	9.	4.	Motor vehicle crash	2,593	17.
5.	Diabetes	257	8.	5.	Drug overdose	2,525	17.

**West (SPA 5)**  
4,098 total deaths  
22,546 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	1,036	1.	1.	Coronary heart disease	2,940	1.
2.	Stroke	321	10.	2.	Suicide	1,384	12.
3.	Lung cancer	222	4.	3.	Motor vehicle crash	1,258	21.
4.	Pneumonia/influenza	184	20.	4.	Lung cancer	1,193	3.
5.	Emphysema/COPD	166	18.	5.	Drug overdose	1,182	18.

**South (SPA 6)**  
6,058 total deaths  
75,742 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	1,443	2.	1.	Homicide	16,727	3.
2.	Stroke	407	7.	2.	Coronary heart disease	8,730	1.
3.	Homicide	356	1.	3.	Motor vehicle crash	4,254	13.
4.	Lung cancer	297	6.	4.	HIV	3,302	13.
5.	Diabetes	258	5.	5.	Diabetes	2,638	5.

**East (SPA 7)**  
7,240 total deaths  
59,162 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	1,847	1.	1.	Coronary heart disease	7,820	1.
2.	Stroke	499	7.	2.	Homicide	5,079	11.
3.	Emphysema/COPD	372	15.	3.	Motor vehicle crash	3,552	14.
4.	Lung cancer	366	6.	4.	Liver disease	2,870	7.
5.	Diabetes	356	5.	5.	Diabetes	2,489	5.

**South Bay (SPA 8)**  
9,453 total deaths  
78,577 years of life lost\*

Leading causes of death				Leading causes of premature** death			
Rank	Cause of death	No. of deaths	Premature death rank	Rank	Cause of death	Years of life lost*	Death rank
1.	Coronary heart disease	2,529	1.	1.	Coronary heart disease	11,768	1.
2.	Stroke	635	8.	2.	Homicide	7,944	9.
3.	Lung cancer	544	4.	3.	Motor vehicle crash	3,735	13.
4.	Emphysema/COPD	497	12.	4.	Lung cancer	3,583	3.
5.	Diabetes	310	7.	5.	Suicide	2,891	13.

\*Excludes infants less than 1 year of age and persons of unknown age.  
\*\*Death before age 75 years.

Figure 11. Comparison of the leading causes of death and premature death, by service planning area (SPA) of residence

**Leading causes of death**

Service Planning Area Number of deaths Age-adjusted death rate	#1 cause Number of deaths Age-adjusted death rate	#2 cause Number of deaths Age-adjusted death rate	#3 cause Number of deaths Age-adjusted death rate	#4 cause Number of deaths Age-adjusted death rate	#5 cause Number of deaths Age-adjusted death rate
<b>SPA 1: Antelope Valley</b> 1,972 820 per 100,000	<b>Coronary heart disease</b> 488 216 per 100,000	<b>Stroke</b> 125 57 per 100,000	<b>Emphysema/COPD</b> 120 54 per 100,000	<b>Lung cancer</b> 114 47 per 100,000	<b>Motor vehicle crash</b> 83 27 per 100,000
<b>SPA 2: San Fernando</b> 12,435 660 per 100,000	<b>Coronary heart disease</b> 3,419 184 per 100,000	<b>Stroke</b> 905 49 per 100,000	<b>Lung cancer</b> 643 35 per 100,000	<b>Emphysema/COPD</b> 513 28 per 100,000	<b>Pneumonia/influenza</b> 500 27 per 100,000
<b>SPA 3: San Gabriel</b> 10,582 617 per 100,000	<b>Coronary heart disease</b> 2,704 158 per 100,000	<b>Stroke</b> 756 44 per 100,000	<b>Lung cancer</b> 531 32 per 100,000	<b>Emphysema/COPD</b> 515 31 per 100,000	<b>Pneumonia/influenza</b> 488 29 per 100,000
<b>SPA 4: Metro</b> 6,516 594 per 100,000	<b>Coronary heart disease</b> 1,662 153 per 100,000	<b>Stroke</b> 426 39 per 100,000	<b>Pneumonia/influenza</b> 293 27 per 100,000	<b>Lung cancer</b> 290 28 per 100,000	<b>Diabetes</b> 257 24 per 100,000
<b>SPA 5: West</b> 4,098 543 per 100,000	<b>Coronary heart disease</b> 1,036 133 per 100,000	<b>Stroke</b> 321 41 per 100,000	<b>Lung cancer</b> 222 31 per 100,000	<b>Pneumonia/influenza</b> 184 23 per 100,000	<b>Emphysema/COPD</b> 166 22 per 100,000
<b>SPA 6: South</b> 6,058 885 per 100,000	<b>Coronary heart disease</b> 1,443 230 per 100,000	<b>Stroke</b> 407 65 per 100,000	<b>Homicide</b> 356 32 per 100,000	<b>Lung cancer</b> 297 46 per 100,000	<b>Diabetes</b> 258 39 per 100,000
<b>SPA 7: East</b> 7,240 661 per 100,000	<b>Coronary heart disease</b> 1,847 173 per 100,000	<b>Stroke</b> 499 47 per 100,000	<b>Emphysema/COPD</b> 372 35 per 100,000	<b>Lung cancer</b> 366 34 per 100,000	<b>Diabetes</b> 356 33 per 100,000
<b>SPA 8: South Bay</b> 9,453 686 per 100,000	<b>Coronary heart disease</b> 2,529 188 per 100,000	<b>Stroke</b> 635 48 per 100,000	<b>Lung cancer</b> 544 40 per 100,000	<b>Emphysema/COPD</b> 497 37 per 100,000	<b>Diabetes</b> 310 22 per 100,000
<b>Los Angeles County Total</b> 59,153 669 per 100,000	<b>Coronary heart disease</b> 15,296 176 per 100,000	<b>Stroke</b> 4,121 48 per 100,000	<b>Lung cancer</b> 3,034 35 per 100,000	<b>Emphysema/COPD</b> 2,641 31 per 100,000	<b>Pneumonia/influenza</b> 2,272 26 per 100,000

Notes: Los Angeles County Total includes persons of unknown residence.

## Leading causes of premature death (before age 75 years)

Service Planning Area	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause
SPA 1: Antelope Valley	Coronary heart disease	Motor vehicle crash	Homicide	Suicide	Drug overdose
SPA 2: San Fernando	Coronary heart disease	Motor vehicle crash	Suicide	Homicide	Lung cancer
SPA 3: San Gabriel	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer
SPA 4: Metro	Coronary heart disease	Homicide	HIV	Motor vehicle crash	Drug overdose
SPA 5: West	Coronary heart disease	Suicide	Motor vehicle crash	Lung cancer	Drug overdose
SPA 6: South	Homicide	Coronary heart disease	Motor vehicle crash	HIV	Diabetes
SPA 7: East	Coronary heart disease	Homicide	Motor vehicle crash	Liver disease	Diabetes
SPA 8: South Bay	Coronary heart disease	Homicide	Motor vehicle crash	Lung cancer	Suicide
Los Angeles County Total	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer

Notes: Los Angeles County Total includes persons of unknown residence.

Coronary heart disease was the leading cause of death and premature death in every service planning area except for the South Service Planning Area, in which homicide was the leading cause of premature death. Stroke was the second leading cause of death in every service planning area.

Injuries (homicide, motor vehicle crash, drug overdose, and suicide) were important causes of premature death in every service planning area.

Emphysema/COPD and pneumonia/influenza were leading causes of death in every service planning area but were not major contributors to years of life lost.

HIV and liver disease were important causes of premature death even though the number of deaths was relatively small, highlighting the impact of these diseases among younger persons.

Figure 12. Comparison of the leading causes of premature death, by service planning area (SPA) of residence and gender

**Males: Leading causes of premature death (before age 75 years)**

Service Planning Area	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause
SPA 1: Antelope Valley	Coronary heart disease	Motor vehicle crash	Homicide	Suicide	Lung cancer
SPA 2: San Fernando	Coronary heart disease	Motor vehicle crash	Homicide	Suicide	Liver disease
SPA 3: San Gabriel	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer
SPA 4: Metro	Coronary heart disease	Homicide	HIV	Drug overdose	Liver disease
SPA 5: West	Coronary heart disease	Motor vehicle crash	Homicide	Suicide	Drug overdose
SPA 6: South	Homicide	Coronary heart disease	Motor vehicle crash	HIV	Liver disease
SPA 7: East	Coronary heart disease	Homicide	Motor vehicle crash	Liver disease	Suicide
SPA 8: South Bay	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer
All males	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Liver disease

Notes: All males includes persons of unknown residence.

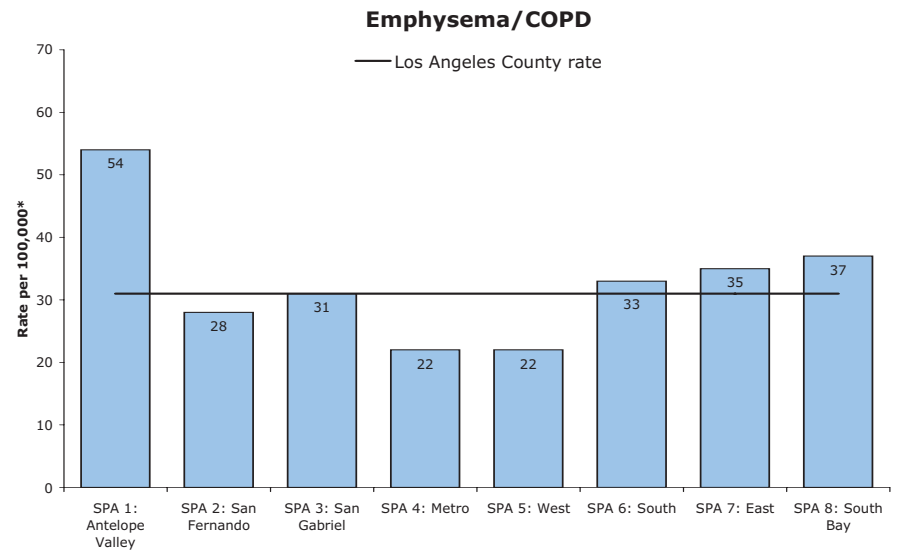
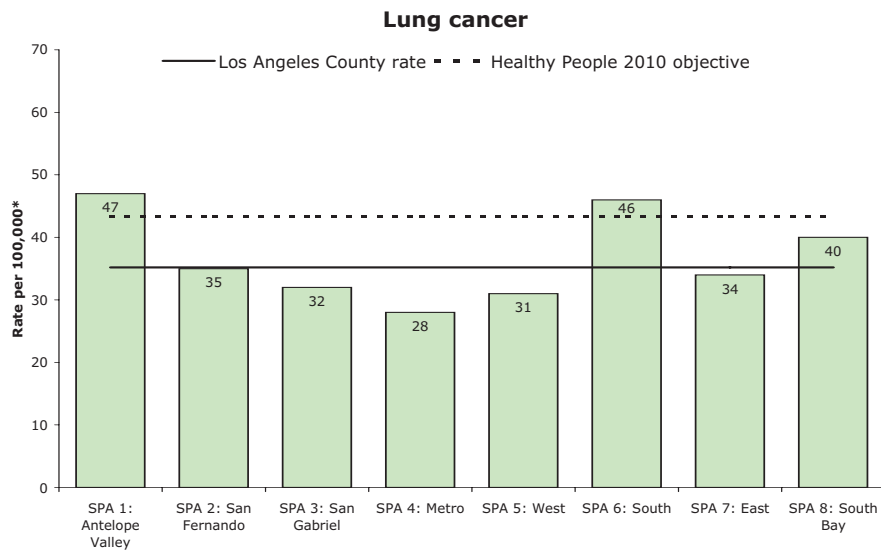
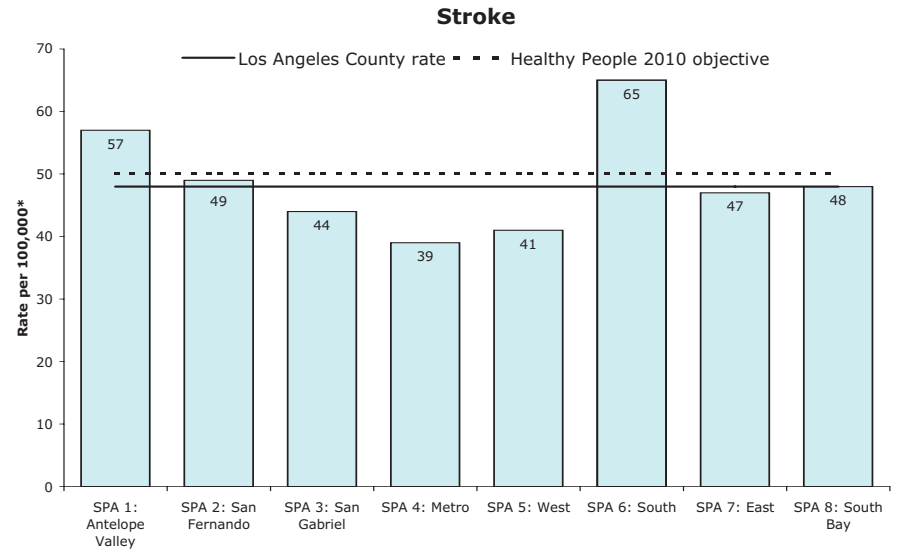
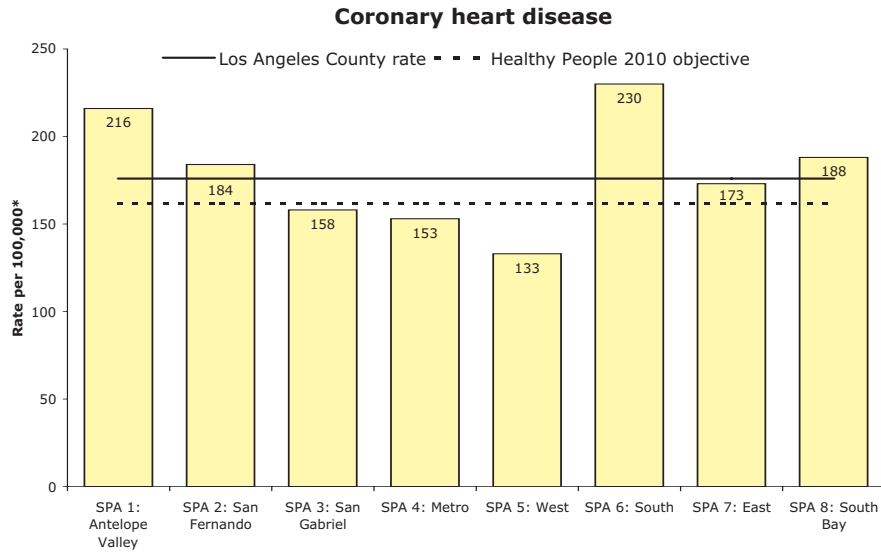


## Females: Leading causes of premature death (before age 75 years)

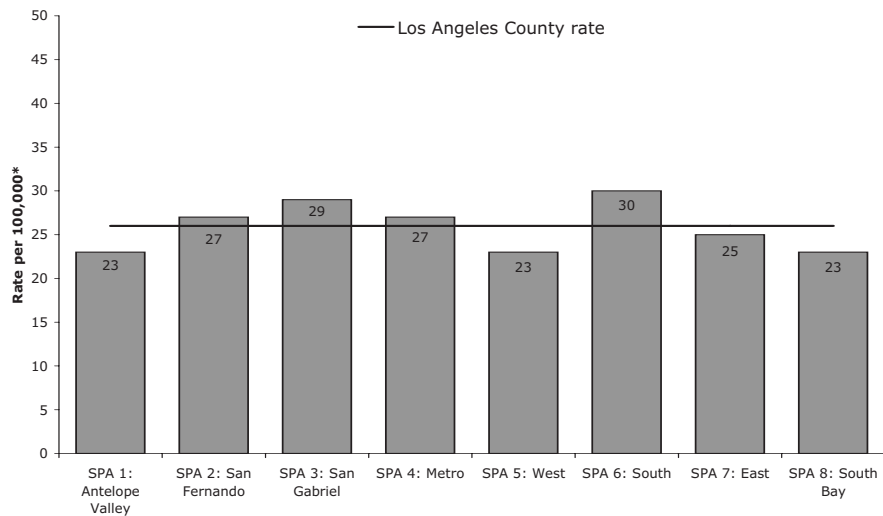
Service Planning Area	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause
SPA 1: Antelope Valley	Coronary heart disease	Motor vehicle crash	Drug overdose	Lung cancer	Colorectal cancer
SPA 2: San Fernando	Coronary heart disease	Breast cancer	Motor vehicle crash	Lung cancer	Stroke
SPA 3: San Gabriel	Breast cancer	Coronary heart disease	Lung cancer	Motor vehicle crash	Diabetes
SPA 4: Metro	Coronary heart disease	Breast cancer	Diabetes	Stroke	Motor vehicle crash
SPA 5: West	Breast cancer	Coronary heart disease	Suicide	Lung cancer	Ovarian cancer
SPA 6: South	Coronary heart disease	Breast cancer	Stroke	Diabetes	Homicide
SPA 7: East	Coronary heart disease	Breast cancer	Motor vehicle crash	Diabetes	Stroke
SPA 8: South Bay	Coronary heart disease	Breast cancer	Lung cancer	Diabetes	Motor vehicle crash
All females	Coronary heart disease	Breast cancer	Motor vehicle crash	Lung cancer	Stroke

Notes: All females includes persons of unknown residence.

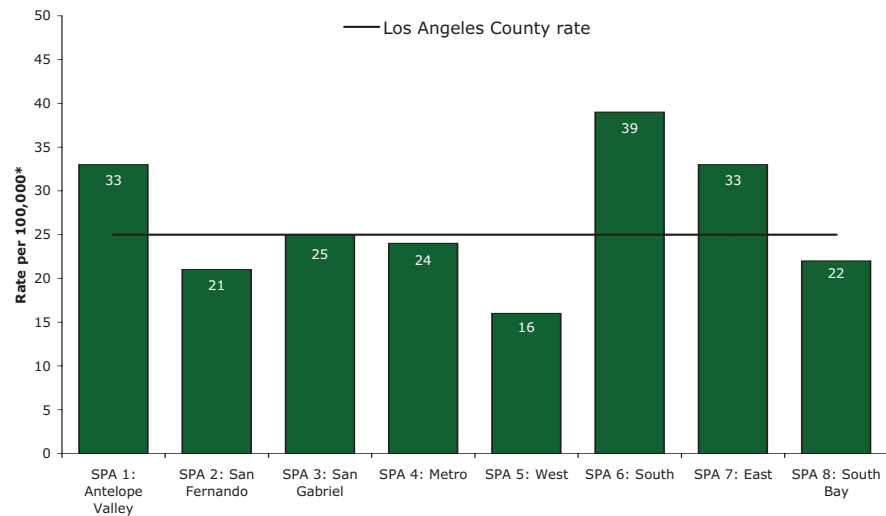
Figure 13. Death rates for selected causes of death, by service planning area (SPA) of residence



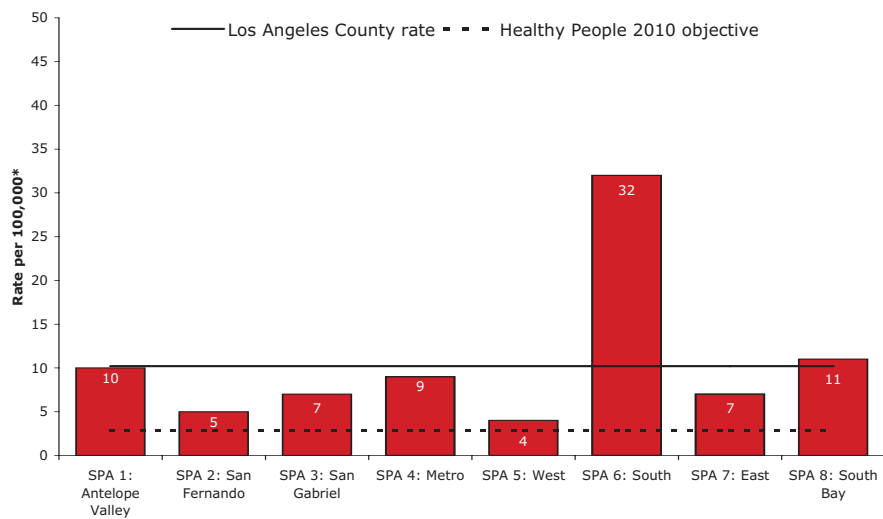
### Pneumonia/influenza



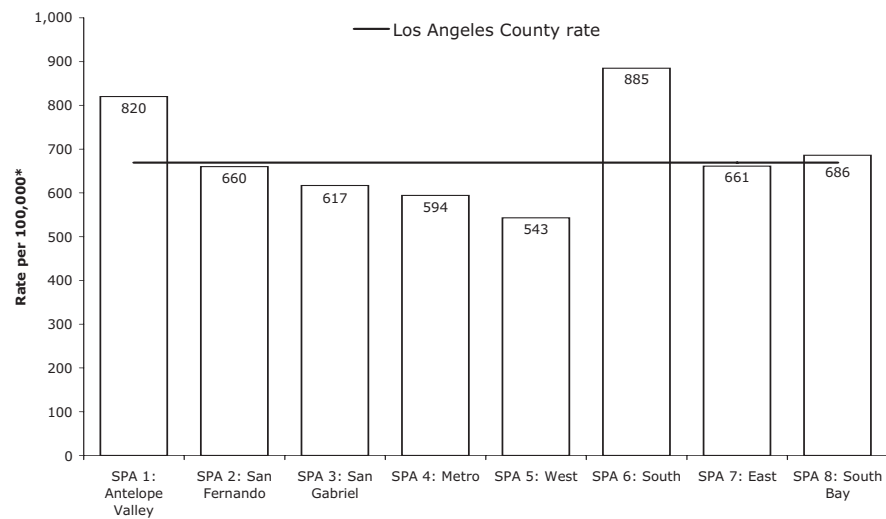
### Diabetes



### Homicide



### All causes of death



\*Age-adjusted.

Figure 14. Comparison of the leading causes of death, by health district of residence

Leading causes of death

Health District Number of deaths Age-adjusted death rate	#1 cause Number of deaths	#2 cause Number of deaths	#3 cause Number of deaths	#4 cause Number of deaths	#5 cause Number of deaths
<b>Alhambra</b> 2,255 529 per 100,000	Coronary heart disease 596	Stroke 196	Lung cancer 127	Pneumonia/influenza 124	Emphysema/COPD 99
<b>Antelope Valley</b> 1,972 820 per 100,000	Coronary heart disease 488	Stroke 125	Emphysema/COPD 120	Lung cancer 114	Motor vehicle crash 83
<b>Bellflower</b> 2,126 675 per 100,000	Coronary heart disease 535	Lung cancer 149	Stroke 143	Emphysema/COPD 138	Diabetes 87
<b>Central</b> 1,749 535 per 100,000	Coronary heart disease 439	Stroke 110	Diabetes 72	Lung cancer 71	Pneumonia/influenza 71
<b>Compton</b> 1,497 896 per 100,000	Coronary heart disease 337	Stroke 112	Homicide 94	Lung cancer 71	Diabetes 60
<b>East Los Angeles</b> 1,185 638 per 100,000	Coronary heart disease 327	Stroke 76	Diabetes 74	Pneumonia/influenza 58	Liver disease 45
<b>East Valley</b> 2,478 703 per 100,000	Coronary heart disease 643	Stroke 171	Lung cancer 140	Emphysema/COPD 97	Pneumonia/influenza 97
<b>El Monte</b> 2,088 631 per 100,000	Coronary heart disease 481	Stroke 134	Emphysema/COPD 110	Diabetes 107	Lung cancer 91
<b>Foothill</b> 2,138 672 per 100,000	Coronary heart disease 627	Stroke 139	Lung cancer 112	Emphysema/COPD 108	Pneumonia/influenza 91
<b>Glendale</b> 2,461 596 per 100,000	Coronary heart disease 716	Stroke 185	Lung cancer 121	Emphysema/COPD 112	Pneumonia/influenza 105
<b>Harbor</b> 1,348 662 per 100,000	Coronary heart disease 348	Stroke 99	Emphysema/COPD 73	Lung cancer 72	Pneumonia/influenza 43
<b>Hollywood/Wilshire</b> 3,138 621 per 100,000	Coronary heart disease 857	Stroke 216	Pneumonia/influenza 150	Lung cancer 133	Emphysema/COPD 111
<b>Inglewood</b> 2,332 763 per 100,000	Coronary heart disease 582	Stroke 138	Lung cancer 131	Emphysema/COPD 107	Pneumonia/influenza 89

<b>Long Beach</b> 2,997 744 per 100,000	Coronary heart disease 863	Stroke 207	Emphysema/COPD 173	Lung cancer 158	Diabetes 93
<b>Northeast</b> 1,629 616 per 100,000	Coronary heart disease 366	Stroke 100	Lung cancer 86	Diabetes 81	Pneumonia/influenza 72
<b>Pasadena</b> 1,051 664 per 100,000	Coronary heart disease 266	Stroke 92	Lung cancer 45	Pneumonia/influenza 45	Emphysema/COPD 42
<b>Pomona</b> 3,050 625 per 100,000	Coronary heart disease 734	Stroke 195	Lung cancer 156	Emphysema/COPD 156	Pneumonia/influenza 150
<b>San Antonio</b> 1,832 656 per 100,000	Coronary heart disease 420	Stroke 120	Diabetes 104	Emphysema/COPD 92	Lung cancer 74
<b>San Fernando</b> 2,259 671 per 100,000	Coronary heart disease 610	Stroke 164	Lung cancer 112	Emphysema/COPD 87	Pneumonia/influenza 86
<b>South</b> 986 960 per 100,000	Coronary heart disease 225	Homicide 71	Stroke 66	Diabetes 48	Lung cancer 41
<b>Southeast</b> 715 907 per 100,000	Coronary heart disease 189	Homicide 52	Stroke 39	Diabetes 31	Emphysema/COPD 28
<b>Southwest</b> 2,860 862 per 100,000	Coronary heart disease 692	Stroke 190	Lung cancer 164	Homicide 139	Diabetes 119
<b>Torrance</b> 2,776 598 per 100,000	Coronary heart disease 736	Stroke 191	Lung cancer 183	Emphysema/COPD 144	Diabetes 90
<b>West</b> 4,098 543 per 100,000	Coronary heart disease 1,036	Stroke 321	Lung cancer 222	Pneumonia/influenza 184	Emphysema/COPD 166
<b>West Valley</b> 5,237 670 per 100,000	Coronary heart disease 1,450	Stroke 385	Lung cancer 270	Emphysema/COPD 217	Pneumonia/influenza 212
<b>Whittier</b> 2,097 666 per 100,000	Coronary heart disease 565	Stroke 160	Lung cancer 103	Emphysema/COPD 98	Diabetes 91
<b>Los Angeles County Total</b> 59,153 669 per 100,000	Coronary heart disease 15,296	Stroke 4,121	Lung cancer 3,034	Emphysema/COPD 2,641	Pneumonia/influenza 2,272

Notes: Los Angeles County Total includes persons of unknown residence.

Figure 15. Comparison of the leading causes of premature death, by health district of residence

Leading causes of premature death (before age 75 years)

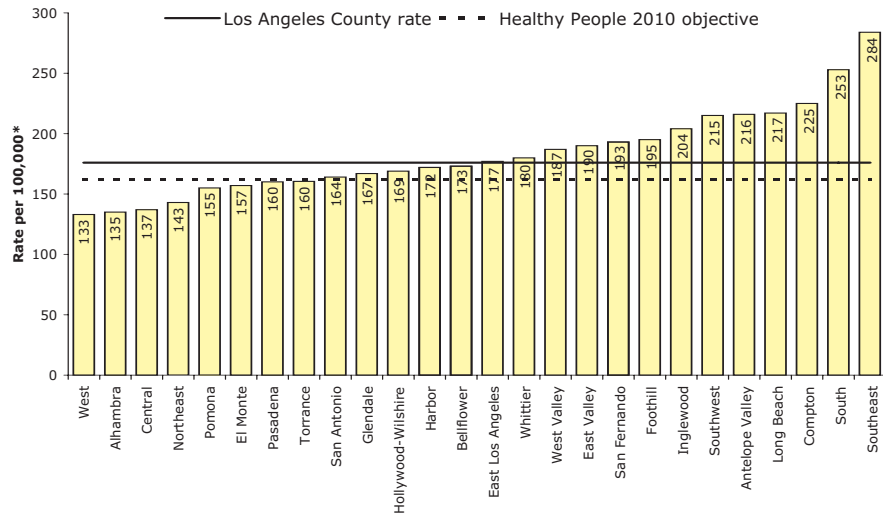
Health District	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause
Alhambra	Coronary heart disease	Stroke	Suicide	Lung cancer	Breast cancer
Antelope Valley	Coronary heart disease	Motor vehicle crash	Homicide	Suicide	Drug overdose
Bellflower	Coronary heart disease	Lung cancer	Homicide	Motor vehicle crash	Drug overdose
Central	Coronary heart disease	Homicide	Drug overdose	HIV	Liver disease
Compton	Homicide	Coronary heart disease	Motor vehicle crash	Diabetes	Stroke
East Los Angeles	Coronary heart disease	Homicide	Liver disease	Motor vehicle crash	Diabetes
East Valley	Coronary heart disease	Motor vehicle crash	Homicide	Liver disease	Lung cancer
El Monte	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Diabetes
Foothill	Coronary heart disease	Suicide	Motor vehicle crash	Lung cancer	Homicide
Glendale	Coronary heart disease	Suicide	Motor vehicle crash	Drug overdose	Lung cancer
Harbor	Coronary heart disease	Motor vehicle crash	Homicide	Drug overdose	Lung cancer
Hollywood/Wilshire	Coronary heart disease	HIV	Homicide	Suicide	Diabetes
Inglewood	Homicide	Coronary heart disease	Suicide	Motor vehicle crash	Lung cancer

Long Beach	Coronary heart disease	Homicide	Motor vehicle crash	Lung cancer	HIV
Northeast	Homicide	Coronary heart disease	Motor vehicle crash	Liver disease	Stroke
Pasadena	Coronary heart disease	Homicide	Motor vehicle crash	Liver disease	Drug overdose
Pomona	Coronary heart disease	Motor vehicle crash	Homicide	Lung cancer	Suicide
San Antonio	Homicide	Coronary heart disease	Motor vehicle crash	Diabetes	Liver disease
San Fernando	Coronary heart disease	Motor vehicle crash	Suicide	Drug overdose	Homicide
South	Homicide	Coronary heart disease	HIV	Motor vehicle crash	Diabetes
Southeast	Homicide	Coronary heart disease	HIV	Motor vehicle crash	Stroke
Southwest	Homicide	Coronary heart disease	Motor vehicle crash	HIV	Lung cancer
Torrance	Coronary heart disease	Lung cancer	Motor vehicle crash	Homicide	Suicide
West	Coronary heart disease	Suicide	Motor vehicle crash	Lung cancer	Drug overdose
West Valley	Coronary heart disease	Motor vehicle crash	Homicide	Suicide	Liver disease
Whittier	Coronary heart disease	Motor vehicle crash	Homicide	Liver disease	Stroke
Los Angeles County Total	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer

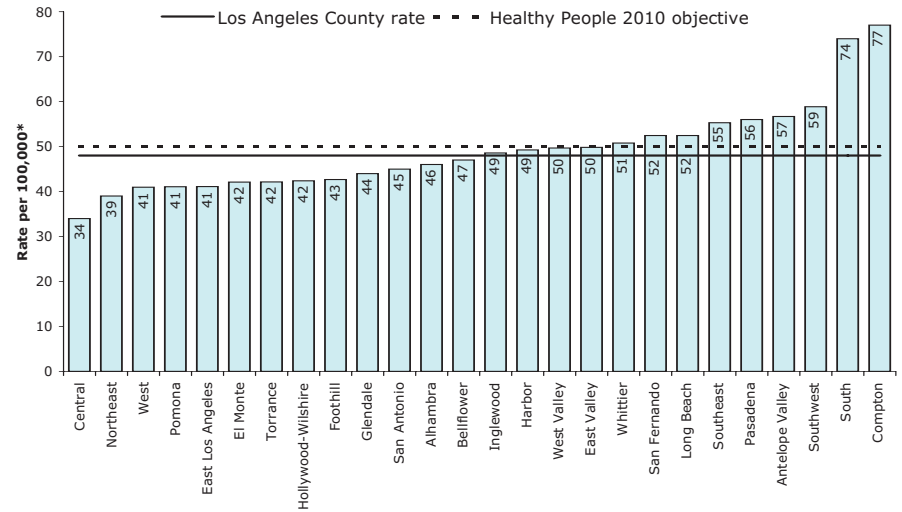
Notes: Los Angeles County Total includes persons of unknown residence.

Figure 16. Death rates for selected causes of death, by health district of residence

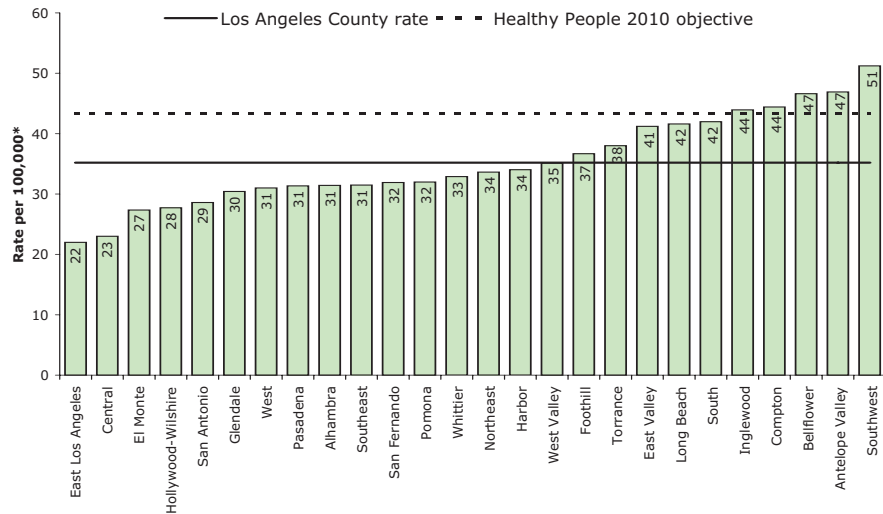
**Coronary heart disease**



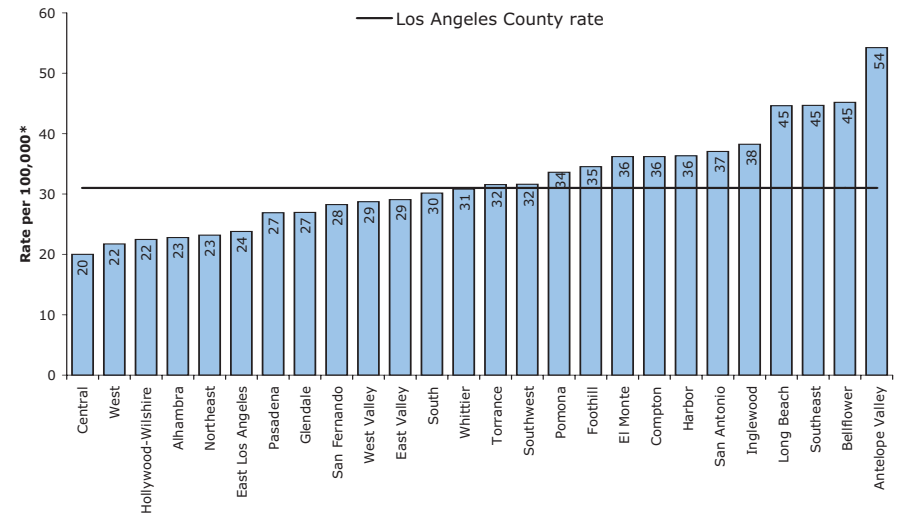
**Stroke**



**Lung cancer**

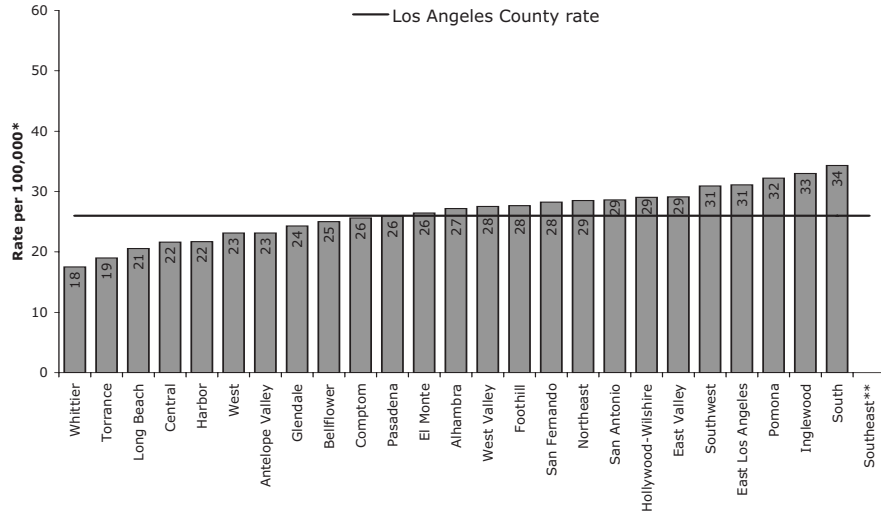


**Emphysema/COPD**

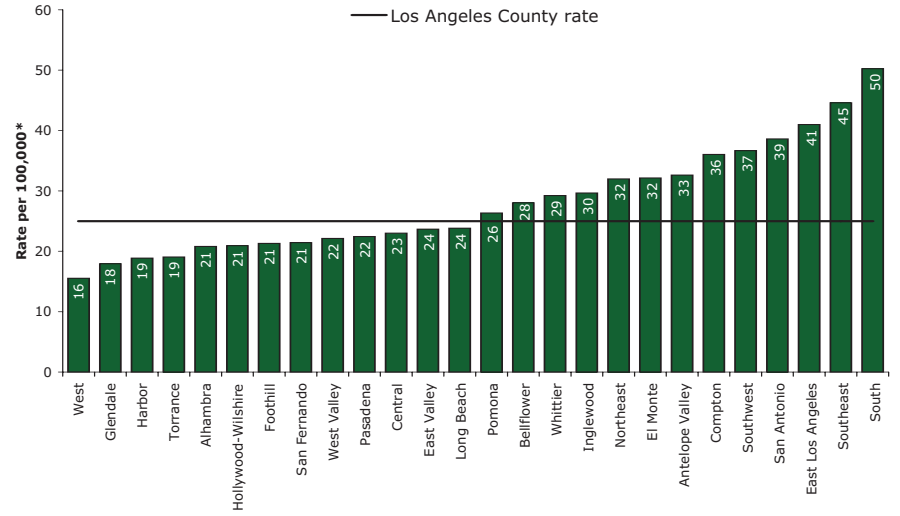




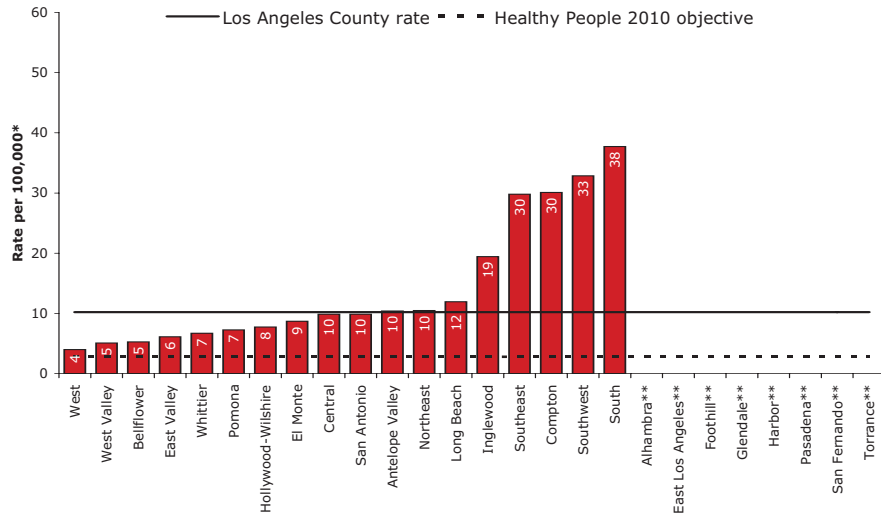
### Pneumonia/influenza



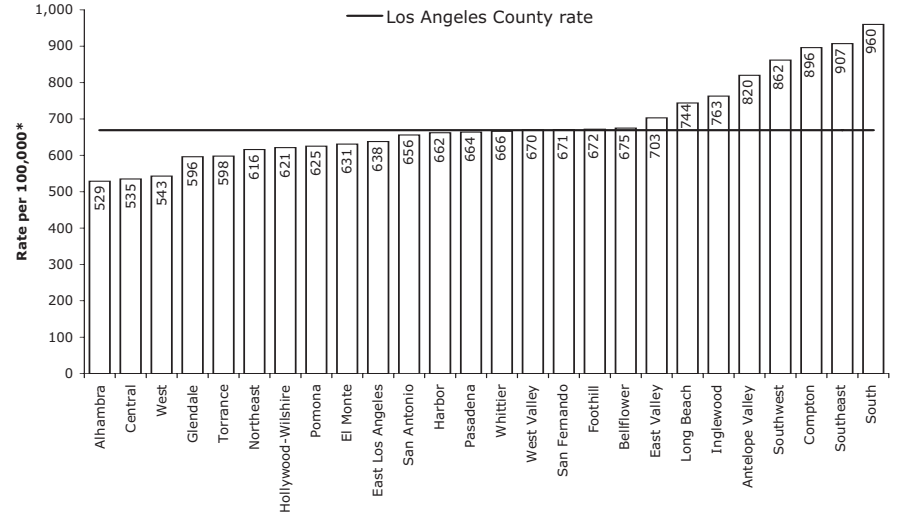
### Diabetes



### Homicide



### All causes of death



\*Age-adjusted.

\*\*Number of deaths is too small to calculate a reliable rate.

Figure 17. Comparison of the leading causes of death, 1995-2004

Leading causes of death

Year	#1 cause No. of deaths	#2 cause No. of deaths	#3 cause No. of deaths	#4 cause No. of deaths	#5 cause No. of deaths	#6 cause No. of deaths	#7 cause No. of deaths	#8 cause No. of deaths	#9 cause No. of deaths	#10 cause No. of deaths
2004	Coronary heart disease 15,296	Stroke 4,121	Lung cancer 3,034	Emphysema/COPD 2,641	Pneumonia/ influenza 2,272	Diabetes 2,201	Colorectal cancer 1,414	Alzheimer's disease 1,340	Breast cancer 1,166	Homicide 1,069
2003	Coronary heart disease 16,320	Stroke 4,249	Lung cancer 3,150	Emphysema/COPD 2,796	Pneumonia/ influenza 2,419	Diabetes 2,178	Colorectal cancer 1,450	Alzheimer's disease 1,285	Breast cancer 1,084	Homicide 1,066
2002	Coronary heart disease 16,293	Stroke 4,169	Lung cancer 3,081	Emphysema/COPD 2,604	Pneumonia/ influenza 2,494	Diabetes 2,122	Colorectal cancer 1,315	Homicide 1,148	Liver disease 1,085	Breast cancer 1,064
2001	Coronary heart disease 16,828	Stroke 4,259	Lung cancer 3,232	Emphysema/COPD 2,723	Pneumonia/ influenza 2,421	Diabetes 1,890	Colorectal cancer 1,423	Homicide 1,099	Breast cancer 1,096	Liver disease 1,010
2000	Coronary heart disease 16,903	Stroke 4,410	Lung cancer 3,150	Emphysema/COPD 2,660	Pneumonia/ influenza 2,477	Diabetes 1,879	Colorectal cancer 1,360	Liver disease 1,121	Breast cancer 1,058	Homicide 992
1999	Coronary heart disease 17,394	Stroke 4,435	Lung cancer 3,243	Emphysema/COPD 2,836	Pneumonia/ influenza 2,242	Diabetes 1,820	Colorectal cancer 1,378	Breast cancer 1,101	Liver disease 1,047	Homicide 896
<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>										
1998	Coronary heart disease 17,163	Stroke 3,928	Pneumonia/ influenza 3,594	Lung cancer 3,150	Emphysema/COPD 2,553	Diabetes 1,753	Colorectal cancer 1,302	Breast cancer 1,135	Liver disease 1,019	Homicide 984
1997	Coronary heart disease 17,448	Stroke 4,160	Pneumonia/ influenza 3,346	Lung cancer 3,316	Emphysema/COPD 2,565	Diabetes 1,746	Colorectal cancer 1,336	Homicide 1,232	Breast cancer 1,120	Liver disease 1,041
1996	Coronary heart disease 17,153	Stroke 4,061	Lung cancer 3,302	Pneumonia/ influenza 2,984	Emphysema/COPD 2,307	Diabetes 1,647	HIV 1,505	Homicide 1,449	Colorectal cancer 1,325	Breast cancer 1,142
1995	Coronary heart disease 17,487	Stroke 4,073	Lung cancer 3,372	Pneumonia/ influenza 2,933	HIV 2,342	Emphysema/COPD 2,255	Homicide 1,716	Diabetes 1,533	Colorectal cancer 1,394	Breast cancer 1,186

Figure 18. Comparison of the leading causes of premature death, 1995-2004

Leading causes of premature death (before age 75 years)

Year	#1 cause	#2 cause	#3 cause	#4 cause	#5 cause	#6 cause	#7 cause	#8 cause	#9 cause	#10 cause
2004	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer	Liver disease	Drug overdose	Stroke	Diabetes	HIV
2003	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer	Drug overdose	Liver disease	Stroke	Diabetes	HIV
2002	Coronary heart disease	Homicide	Motor vehicle crash	Lung cancer	Suicide	Liver disease	Drug overdose	Stroke	HIV	Diabetes
2001	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer	Liver disease	HIV	Stroke	Drug overdose	Diabetes
2000	Coronary heart disease	Homicide	Motor vehicle crash	Lung cancer	Liver disease	Suicide	Stroke	Drug overdose	HIV	Breast cancer
1999	Coronary heart disease	Homicide	Motor vehicle crash	Lung cancer	Suicide	Drug overdose	HIV	Liver disease	Stroke	Diabetes
<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>										
1998	Coronary heart disease	Homicide	Motor vehicle crash	Suicide	Lung cancer	Liver disease	HIV	Drug overdose	Stroke	Breast cancer
1997	Coronary heart disease	Homicide	Motor vehicle crash	HIV	Suicide	Lung cancer	Liver disease	Stroke	Drug overdose	Breast cancer
1996	Coronary heart disease	Homicide	HIV	Motor vehicle crash	Suicide	Lung cancer	Drug overdose	Liver disease	Stroke	Breast cancer
1995	HIV	Homicide	Coronary heart disease	Motor vehicle crash	Suicide	Lung cancer	Drug overdose	Stroke	Liver disease	Breast cancer

## Alzheimer's disease *at a glance*

Number **53** cause of premature death

Number **8** cause of death

*Alzheimer's disease has been the eighth leading cause of death overall since 2003. In 2004, it was the eighth leading cause of death for women and the sixth leading cause of death for whites. Alzheimer's disease death rates have increased substantially since 1995. Changes to the ICD coding system in 1998 account for some of the increase, as well as the aging population and greater awareness of the disease. Since 1999, the Alzheimer's disease death rate for black women has doubled from 12 deaths per 100,000 to 24 deaths per 100,000.*

### ***In simple terms . . .***

Alzheimer's disease is a progressive brain disorder that results in a decline in a person's ability to carry out daily activities by causing changes in the areas of the brain that control thought, memory, and language. Alzheimer's disease usually progresses slowly, starting with memory problems and ending with severe brain damage. There are medications that may lessen some of the symptoms of Alzheimer's disease but there is no cure. Current medications have been shown to be more effective the earlier they are given. Scientists are exploring possible connections between Alzheimer's disease and high blood cholesterol, high blood pressure, and physical inactivity.

### ***Risk factors***

Age, family history.

### ***Individual opportunities for prevention***

- Maintain good overall health by staying physically active, and controlling high blood pressure and cholesterol
- Keep the brain active by playing puzzle games, reading, and other mentally stimulating activities
- Slow the progression of symptoms through early diagnosis and treatment of Alzheimer's disease symptoms

***Los Angeles County deaths*** 1,340

***Los Angeles County death rate*** 16 deaths per 100,000 population

***Healthy People 2010 Objective*** None

***ICD-9 codes*** 331.0

***ICD-10 codes*** G30

### ***Resources***

Alzheimer's Association at [WWW.ALZ.ORG](http://WWW.ALZ.ORG)

Alzheimer's Disease Education and Referral Center at [WWW.ALZHEIMERS.ORG](http://WWW.ALZHEIMERS.ORG)

*Mortality in Los Angeles County 2004*  
**Trends in Alzheimer's disease mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>355</b>	<b>5</b>	<b>410</b>	<b>6</b>	<b>465</b>	<b>7</b>	<b>433</b>	<b>6</b>	<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>	<b>772</b>	<b>11</b>	<b>820</b>	<b>11</b>	<b>905</b>	<b>12</b>	<b>973</b>	<b>12</b>	<b>1,285</b>	<b>16</b>	<b>1,340</b>	<b>16</b>
<b>Males</b>	<b>120</b>	<b>5</b>	<b>126</b>	<b>5</b>	<b>156</b>	<b>6</b>	<b>132</b>	<b>5</b>		<b>256</b>	<b>10</b>	<b>270</b>	<b>10</b>	<b>309</b>	<b>12</b>	<b>318</b>	<b>11</b>	<b>405</b>	<b>14</b>	<b>399</b>	<b>13</b>
<b>Females</b>	<b>235</b>	<b>6</b>	<b>284</b>	<b>7</b>	<b>309</b>	<b>7</b>	<b>301</b>	<b>7</b>		<b>516</b>	<b>11</b>	<b>550</b>	<b>11</b>	<b>596</b>	<b>12</b>	<b>655</b>	<b>13</b>	<b>880</b>	<b>17</b>	<b>941</b>	<b>17</b>
<b>White</b>	<b>291</b>	<b>7</b>	<b>334</b>	<b>8</b>	<b>359</b>	<b>8</b>	<b>338</b>	<b>8</b>		<b>584</b>	<b>13</b>	<b>618</b>	<b>13</b>	<b>719</b>	<b>16</b>	<b>755</b>	<b>16</b>	<b>957</b>	<b>20</b>	<b>975</b>	<b>20</b>
<b>Hispanic</b>	<b>29</b>	<b>3</b>	<b>33</b>	<b>3</b>	<b>37</b>	<b>3</b>	<b>38</b>	<b>3</b>		<b>84</b>	<b>7</b>	<b>84</b>	<b>7</b>	<b>73</b>	<b>5</b>	<b>93</b>	<b>6</b>	<b>161</b>	<b>9</b>	<b>143</b>	<b>9</b>
<b>Black</b>	<b>29</b>	<b>5</b>	<b>36</b>	<b>6</b>	<b>50</b>	<b>8</b>	<b>41</b>	<b>7</b>		<b>83</b>	<b>13</b>	<b>89</b>	<b>13</b>	<b>90</b>	<b>14</b>	<b>97</b>	<b>15</b>	<b>119</b>	<b>19</b>	<b>155</b>	<b>22</b>
<b>Asian/Pacific Islander</b>	<b>4</b>	--	<b>6</b>	--	<b>19</b>	--	<b>16</b>	--		<b>19</b>	--	<b>28</b>	<b>3</b>	<b>22</b>	<b>3</b>	<b>25</b>	<b>3</b>	<b>42</b>	<b>4</b>	<b>65</b>	<b>5</b>
<b>Males</b>																					
<b>White</b>	<b>98</b>	<b>7</b>	<b>101</b>	<b>7</b>	<b>115</b>	<b>8</b>	<b>98</b>	<b>6</b>		<b>189</b>	<b>12</b>	<b>203</b>	<b>12</b>	<b>238</b>	<b>15</b>	<b>246</b>	<b>15</b>	<b>295</b>	<b>18</b>	<b>289</b>	<b>16</b>
<b>Hispanic</b>	<b>10</b>	--	<b>9</b>	--	<b>14</b>	--	<b>14</b>	--		<b>27</b>	<b>7</b>	<b>24</b>	<b>5</b>	<b>30</b>	<b>6</b>	<b>37</b>	<b>6</b>	<b>46</b>	<b>7</b>	<b>46</b>	<b>8</b>
<b>Black</b>	<b>10</b>	--	<b>15</b>	--	<b>22</b>	<b>11</b>	<b>16</b>	--		<b>34</b>	<b>16</b>	<b>29</b>	<b>12</b>	<b>34</b>	<b>15</b>	<b>28</b>	<b>13</b>	<b>37</b>	<b>18</b>	<b>40</b>	<b>19</b>
<b>Asian/Pacific Islander</b>	<b>1</b>	--	<b>1</b>	--	<b>5</b>	--	<b>4</b>	--		<b>5</b>	--	<b>14</b>	--	<b>7</b>	--	<b>6</b>	--	<b>23</b>	<b>5</b>	<b>24</b>	<b>5</b>
<b>Females</b>																					
<b>White</b>	<b>193</b>	<b>7</b>	<b>233</b>	<b>8</b>	<b>244</b>	<b>9</b>	<b>240</b>	<b>8</b>		<b>395</b>	<b>13</b>	<b>415</b>	<b>13</b>	<b>481</b>	<b>16</b>	<b>509</b>	<b>17</b>	<b>662</b>	<b>21</b>	<b>686</b>	<b>21</b>
<b>Hispanic</b>	<b>19</b>	--	<b>24</b>	<b>3</b>	<b>23</b>	<b>3</b>	<b>24</b>	<b>3</b>		<b>57</b>	<b>8</b>	<b>60</b>	<b>8</b>	<b>43</b>	<b>5</b>	<b>56</b>	<b>6</b>	<b>115</b>	<b>10</b>	<b>97</b>	<b>9</b>
<b>Black</b>	<b>19</b>	--	<b>21</b>	<b>5</b>	<b>28</b>	<b>7</b>	<b>25</b>	<b>6</b>		<b>49</b>	<b>12</b>	<b>60</b>	<b>13</b>	<b>56</b>	<b>13</b>	<b>69</b>	<b>16</b>	<b>82</b>	<b>19</b>	<b>115</b>	<b>24</b>
<b>Asian/Pacific Islander</b>	<b>3</b>	--	<b>5</b>	--	<b>14</b>	--	<b>12</b>	--		<b>14</b>	--	<b>14</b>	--	<b>15</b>	--	<b>19</b>	--	<b>19</b>	--	<b>41</b>	<b>6</b>
SPA 1: Antelope Valley	<b>6</b>	--	<b>15</b>	--	<b>12</b>	--	<b>13</b>	--		<b>23</b>	<b>14</b>	<b>30</b>	<b>17</b>	<b>26</b>	<b>15</b>	<b>39</b>	<b>22</b>	<b>43</b>	<b>24</b>	<b>43</b>	<b>22</b>
SPA 2: San Fernando	<b>87</b>	<b>6</b>	<b>89</b>	<b>6</b>	<b>82</b>	<b>6</b>	<b>104</b>	<b>7</b>		<b>181</b>	<b>12</b>	<b>181</b>	<b>11</b>	<b>206</b>	<b>13</b>	<b>255</b>	<b>15</b>	<b>325</b>	<b>18</b>	<b>343</b>	<b>19</b>
SPA 3: San Gabriel	<b>63</b>	<b>5</b>	<b>76</b>	<b>6</b>	<b>86</b>	<b>7</b>	<b>89</b>	<b>7</b>		<b>148</b>	<b>11</b>	<b>175</b>	<b>12</b>	<b>177</b>	<b>12</b>	<b>210</b>	<b>14</b>	<b>273</b>	<b>17</b>	<b>268</b>	<b>16</b>
SPA 4: Metro	<b>39</b>	<b>4</b>	<b>41</b>	<b>5</b>	<b>45</b>	<b>5</b>	<b>48</b>	<b>5</b>		<b>90</b>	<b>10</b>	<b>86</b>	<b>9</b>	<b>101</b>	<b>10</b>	<b>102</b>	<b>10</b>	<b>119</b>	<b>11</b>	<b>120</b>	<b>11</b>
SPA 5: West	<b>33</b>	<b>5</b>	<b>35</b>	<b>5</b>	<b>42</b>	<b>6</b>	<b>30</b>	<b>5</b>	<b>62</b>	<b>9</b>	<b>83</b>	<b>11</b>	<b>75</b>	<b>10</b>	<b>77</b>	<b>10</b>	<b>115</b>	<b>15</b>	<b>133</b>	<b>16</b>	
SPA 6: South	<b>24</b>	<b>5</b>	<b>29</b>	<b>6</b>	<b>40</b>	<b>8</b>	<b>26</b>	<b>5</b>	<b>54</b>	<b>11</b>	<b>53</b>	<b>10</b>	<b>63</b>	<b>12</b>	<b>60</b>	<b>11</b>	<b>75</b>	<b>14</b>	<b>108</b>	<b>18</b>	
SPA 7: East	<b>38</b>	<b>5</b>	<b>48</b>	<b>6</b>	<b>45</b>	<b>5</b>	<b>60</b>	<b>7</b>	<b>86</b>	<b>11</b>	<b>79</b>	<b>9</b>	<b>93</b>	<b>10</b>	<b>93</b>	<b>10</b>	<b>135</b>	<b>13</b>	<b>144</b>	<b>14</b>	
SPA 8: South Bay	<b>61</b>	<b>6</b>	<b>77</b>	<b>8</b>	<b>111</b>	<b>11</b>	<b>61</b>	<b>6</b>	<b>126</b>	<b>12</b>	<b>130</b>	<b>11</b>	<b>158</b>	<b>14</b>	<b>132</b>	<b>11</b>	<b>196</b>	<b>16</b>	<b>175</b>	<b>13</b>	

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.  
 --Number of deaths is too small to calculate a reliable rate.

## Breast cancer *at a glance*

Number **11** cause of premature death

Number **9** cause of death

*In 2004, breast cancer was the leading cause of premature death for Asian women and the second leading cause of premature death for white and black women. During the past ten years, breast cancer death rates for black women were consistently higher than other race/ethnic groups. Breast cancer death rates were similar in most service planning areas.*

### ***In simple terms . . .***

Cancer is the result of abnormal growth of the cells in a part of the body. Normal body cells grow, divide, and die. Cancer cells grow and divide as do normal cells, but they outlive normal cells and continue to form new abnormal cells. The abnormal cells begin to replace normal tissue. Cancer cells develop because of damage to DNA. DNA can be damaged by something in the environment, or damaged DNA can be inherited. Most of the time, when DNA becomes damaged the body is able to repair it. In cancer cells, the damaged DNA is not repaired. Breast cancer develops in the cells of the breast. Men can get breast cancer but it is uncommon.

### ***Risk factors (for women)***

Age, family history of breast cancer, previous breast cancer, race, early radiation treatment to the chest area, menstruation before age 12 or menopause after age 55, genetic mutation linked to breast cancer, treatment with the drug DES (diethylstilbestrol), not having children, excessive alcohol consumption, being overweight, physical inactivity.

### ***Community opportunities for prevention***

- Promote the availability of low-cost breast cancer screening

### ***Individual opportunities for prevention***

- Limit alcohol consumption
- Maintain a healthy weight
- Increase physical activity
- Follow recommended screening guidelines

### ***Los Angeles County deaths***

1,166 (1,157 females)

### ***Los Angeles County death rate***

23.1 deaths per 100,000 females

### ***Healthy People 2010 Objective 3-3***

21.3 deaths per 100,000 females

### ***ICD-9 codes***

174-175

### ***ICD-10 codes***

C50

### ***Resources***

American Cancer Society at [WWW.CANCER.ORG](http://WWW.CANCER.ORG)  
National Cancer Institute at [WWW.CANCER.GOV](http://WWW.CANCER.GOV)

*Mortality in Los Angeles County 2004*  
**Trends in breast cancer (female) mortality, 1995-2004**

	1995		1996		1997		1998		Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.	1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>1,177</b>	<b>29</b>	<b>1,127</b>	<b>27</b>	<b>1,111</b>	<b>26</b>	<b>1,125</b>	<b>27</b>		<b>1,089</b>	<b>25</b>	<b>1,045</b>	<b>24</b>	<b>1,088</b>	<b>24</b>	<b>1,052</b>	<b>22</b>	<b>1,074</b>	<b>22</b>	<b>1,157</b>	<b>23</b>
<b>Females</b>																					
<b>White</b>	<b>751</b>	<b>34</b>	<b>705</b>	<b>32</b>	<b>668</b>	<b>31</b>	<b>673</b>	<b>31</b>		<b>635</b>	<b>29</b>	<b>606</b>	<b>28</b>	<b>621</b>	<b>28</b>	<b>612</b>	<b>28</b>	<b>570</b>	<b>25</b>	<b>613</b>	<b>27</b>
<b>Hispanic</b>	<b>154</b>	<b>15</b>	<b>182</b>	<b>18</b>	<b>186</b>	<b>17</b>	<b>192</b>	<b>17</b>		<b>196</b>	<b>18</b>	<b>169</b>	<b>14</b>	<b>213</b>	<b>16</b>	<b>176</b>	<b>13</b>	<b>242</b>	<b>16</b>	<b>222</b>	<b>15</b>
<b>Black</b>	<b>180</b>	<b>42</b>	<b>166</b>	<b>38</b>	<b>178</b>	<b>40</b>	<b>160</b>	<b>35</b>		<b>163</b>	<b>37</b>	<b>170</b>	<b>36</b>	<b>159</b>	<b>34</b>	<b>150</b>	<b>32</b>	<b>158</b>	<b>33</b>	<b>199</b>	<b>38</b>
<b>Asian/Pacific Islander</b>	<b>90</b>	<b>17</b>	<b>70</b>	<b>13</b>	<b>76</b>	<b>13</b>	<b>98</b>	<b>17</b>		<b>92</b>	<b>15</b>	<b>97</b>	<b>15</b>	<b>91</b>	<b>14</b>	<b>112</b>	<b>16</b>	<b>102</b>	<b>14</b>	<b>120</b>	<b>15</b>
<b>SPA 1: Antelope Valley</b>	<b>23</b>	<b>22</b>	<b>28</b>	<b>26</b>	<b>29</b>	<b>26</b>	<b>25</b>	<b>22</b>		<b>37</b>	<b>30</b>	<b>25</b>	<b>20</b>	<b>30</b>	<b>25</b>	<b>36</b>	<b>28</b>	<b>41</b>	<b>30</b>	<b>30</b>	<b>22</b>
<b>SPA 2: San Fernando</b>	<b>297</b>	<b>34</b>	<b>249</b>	<b>28</b>	<b>224</b>	<b>25</b>	<b>280</b>	<b>31</b>		<b>259</b>	<b>28</b>	<b>244</b>	<b>25</b>	<b>253</b>	<b>26</b>	<b>242</b>	<b>24</b>	<b>238</b>	<b>23</b>	<b>241</b>	<b>22</b>
<b>SPA 3: San Gabriel</b>	<b>172</b>	<b>22</b>	<b>203</b>	<b>26</b>	<b>214</b>	<b>26</b>	<b>205</b>	<b>25</b>		<b>192</b>	<b>23</b>	<b>183</b>	<b>21</b>	<b>213</b>	<b>24</b>	<b>203</b>	<b>22</b>	<b>185</b>	<b>20</b>	<b>209</b>	<b>22</b>
<b>SPA 4: Metro</b>	<b>112</b>	<b>23</b>	<b>107</b>	<b>22</b>	<b>129</b>	<b>26</b>	<b>112</b>	<b>23</b>		<b>101</b>	<b>20</b>	<b>110</b>	<b>22</b>	<b>97</b>	<b>19</b>	<b>117</b>	<b>22</b>	<b>104</b>	<b>19</b>	<b>130</b>	<b>22</b>
<b>SPA 5: West</b>	<b>108</b>	<b>31</b>	<b>114</b>	<b>39</b>	<b>87</b>	<b>24</b>	<b>79</b>	<b>22</b>		<b>84</b>	<b>24</b>	<b>94</b>	<b>25</b>	<b>79</b>	<b>21</b>	<b>101</b>	<b>26</b>	<b>88</b>	<b>23</b>	<b>97</b>	<b>25</b>
<b>SPA 6: South</b>	<b>126</b>	<b>37</b>	<b>104</b>	<b>30</b>	<b>125</b>	<b>35</b>	<b>111</b>	<b>32</b>		<b>100</b>	<b>29</b>	<b>97</b>	<b>27</b>	<b>83</b>	<b>23</b>	<b>89</b>	<b>24</b>	<b>97</b>	<b>26</b>	<b>113</b>	<b>28</b>
<b>SPA 7: East</b>	<b>133</b>	<b>26</b>	<b>126</b>	<b>24</b>	<b>117</b>	<b>22</b>	<b>138</b>	<b>26</b>		<b>135</b>	<b>25</b>	<b>115</b>	<b>21</b>	<b>132</b>	<b>23</b>	<b>105</b>	<b>18</b>	<b>144</b>	<b>24</b>	<b>130</b>	<b>21</b>
<b>SPA 8: South Bay</b>	<b>199</b>	<b>31</b>	<b>195</b>	<b>30</b>	<b>185</b>	<b>28</b>	<b>172</b>	<b>26</b>		<b>180</b>	<b>27</b>	<b>176</b>	<b>25</b>	<b>193</b>	<b>27</b>	<b>159</b>	<b>22</b>	<b>171</b>	<b>22</b>	<b>201</b>	<b>25</b>

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

## Colorectal cancer *at a glance*

Number **12** cause of premature death

Number **7** cause of death

*Colorectal cancer death rates have decreased from 20 deaths per 100,000 in 1995 to 16 deaths per 100,000 in 2004. The decrease was primarily among men. From 1995 to 2004, the colorectal cancer death rate for black men decreased from 39 deaths per 100,000 to 34 deaths per 100,000 while it increased for black women from 23 deaths per 100,000 to 25 deaths per 100,000. Colorectal cancer has been the seventh leading cause of death since 1997.*

### ***In simple terms . . .***

Cancer is the result of abnormal growth of the cells in a part of the body. Normal body cells grow, divide, and die. Cancer cells grow and divide as do normal cells, but they outlive normal cells and continue to form new abnormal cells. The abnormal cells begin to replace normal tissue. Cancer cells develop because of damage to DNA. DNA can be damaged by something in the environment, or damaged DNA can be inherited. Most of the time, when DNA becomes damaged the body is able to repair it. In cancer cells, the damaged DNA is not repaired. Colorectal cancer develops in the cells of the colon or the rectum.

### ***Risk factors***

Age, personal and family history of polyps or colorectal cancer, inflammatory bowel disease, physical inactivity, being overweight, alcohol use, a diet high in fat and low in fruits and vegetables, smoking.

### ***Community opportunities for prevention***

- Promote the availability of low-cost colorectal cancer screening

### ***Individual opportunities for prevention***

- Obtain routine medical care to detect and remove precancerous colorectal polyps
- Follow recommended screening guidelines for stool tests and special medical exams to detect colon cancer
- Eat plenty of fruits, vegetables, and whole grain foods
- Limit consumption of high-fat foods
- Maintain a healthy weight
- Increase physical activity

### ***Los Angeles County deaths***

1,414

### ***Los Angeles County death rate***

16.2 deaths per 100,000 population

### ***Healthy People 2010 Objective 3-5***

13.7 deaths per 100,000 population

### ***ICD-9 codes***

153-154

### ***ICD-10 codes***

C18-C21

### ***Resources***

American Cancer Society at [WWW.CANCER.ORG](http://WWW.CANCER.ORG)

National Cancer Institute at [WWW.CANCER.GOV](http://WWW.CANCER.GOV)



*Mortality in Los Angeles County 2004*  
**Trends in colorectal cancer mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>1,394</b>	<b>20</b>	<b>1,325</b>	<b>19</b>	<b>1,336</b>	<b>19</b>	<b>1,302</b>	<b>18</b>		<b>1,378</b>	<b>19</b>	<b>1,360</b>	<b>18</b>	<b>1,423</b>	<b>18</b>	<b>1,315</b>	<b>16</b>	<b>1,450</b>	<b>17</b>	<b>1,414</b>	<b>16</b>
<b>Males</b>	<b>721</b>	<b>25</b>	<b>645</b>	<b>22</b>	<b>653</b>	<b>22</b>	<b>649</b>	<b>21</b>		<b>696</b>	<b>23</b>	<b>676</b>	<b>21</b>	<b>722</b>	<b>22</b>	<b>655</b>	<b>19</b>	<b>710</b>	<b>20</b>	<b>674</b>	<b>19</b>
<b>Females</b>	<b>673</b>	<b>16</b>	<b>680</b>	<b>16</b>	<b>683</b>	<b>16</b>	<b>653</b>	<b>15</b>		<b>682</b>	<b>16</b>	<b>684</b>	<b>15</b>	<b>701</b>	<b>15</b>	<b>660</b>	<b>14</b>	<b>740</b>	<b>15</b>	<b>740</b>	<b>15</b>
<b>White</b>	<b>911</b>	<b>22</b>	<b>829</b>	<b>20</b>	<b>855</b>	<b>21</b>	<b>774</b>	<b>19</b>		<b>832</b>	<b>20</b>	<b>787</b>	<b>19</b>	<b>812</b>	<b>20</b>	<b>763</b>	<b>18</b>	<b>824</b>	<b>19</b>	<b>767</b>	<b>18</b>
<b>Hispanic</b>	<b>155</b>	<b>11</b>	<b>176</b>	<b>12</b>	<b>172</b>	<b>11</b>	<b>190</b>	<b>13</b>		<b>205</b>	<b>13</b>	<b>221</b>	<b>13</b>	<b>217</b>	<b>11</b>	<b>206</b>	<b>10</b>	<b>241</b>	<b>11</b>	<b>230</b>	<b>11</b>
<b>Black</b>	<b>199</b>	<b>29</b>	<b>184</b>	<b>26</b>	<b>188</b>	<b>27</b>	<b>196</b>	<b>27</b>		<b>196</b>	<b>27</b>	<b>204</b>	<b>27</b>	<b>227</b>	<b>31</b>	<b>192</b>	<b>26</b>	<b>211</b>	<b>28</b>	<b>237</b>	<b>29</b>
<b>Asian/Pacific Islander</b>	<b>127</b>	<b>17</b>	<b>135</b>	<b>16</b>	<b>115</b>	<b>14</b>	<b>141</b>	<b>15</b>		<b>144</b>	<b>15</b>	<b>142</b>	<b>14</b>	<b>164</b>	<b>15</b>	<b>148</b>	<b>13</b>	<b>170</b>	<b>14</b>	<b>177</b>	<b>13</b>
<b>Males</b>																					
<b>White</b>	<b>452</b>	<b>27</b>	<b>407</b>	<b>24</b>	<b>417</b>	<b>25</b>	<b>376</b>	<b>22</b>		<b>427</b>	<b>25</b>	<b>391</b>	<b>22</b>	<b>409</b>	<b>24</b>	<b>368</b>	<b>21</b>	<b>401</b>	<b>23</b>	<b>358</b>	<b>20</b>
<b>Hispanic</b>	<b>87</b>	<b>16</b>	<b>89</b>	<b>16</b>	<b>85</b>	<b>13</b>	<b>102</b>	<b>17</b>		<b>100</b>	<b>16</b>	<b>103</b>	<b>15</b>	<b>116</b>	<b>14</b>	<b>111</b>	<b>12</b>	<b>127</b>	<b>13</b>	<b>116</b>	<b>14</b>
<b>Black</b>	<b>104</b>	<b>39</b>	<b>82</b>	<b>28</b>	<b>94</b>	<b>31</b>	<b>88</b>	<b>30</b>		<b>93</b>	<b>35</b>	<b>99</b>	<b>34</b>	<b>107</b>	<b>38</b>	<b>94</b>	<b>31</b>	<b>90</b>	<b>29</b>	<b>111</b>	<b>34</b>
<b>Asian/Pacific Islander</b>	<b>78</b>	<b>21</b>	<b>67</b>	<b>18</b>	<b>55</b>	<b>14</b>	<b>82</b>	<b>20</b>		<b>75</b>	<b>18</b>	<b>80</b>	<b>18</b>	<b>88</b>	<b>19</b>	<b>79</b>	<b>16</b>	<b>90</b>	<b>17</b>	<b>87</b>	<b>15</b>
<b>Females</b>																					
<b>White</b>	<b>459</b>	<b>19</b>	<b>422</b>	<b>17</b>	<b>438</b>	<b>18</b>	<b>398</b>	<b>16</b>		<b>405</b>	<b>17</b>	<b>396</b>	<b>16</b>	<b>403</b>	<b>17</b>	<b>395</b>	<b>16</b>	<b>423</b>	<b>17</b>	<b>409</b>	<b>16</b>
<b>Hispanic</b>	<b>68</b>	<b>8</b>	<b>87</b>	<b>10</b>	<b>87</b>	<b>10</b>	<b>88</b>	<b>10</b>		<b>105</b>	<b>11</b>	<b>118</b>	<b>12</b>	<b>101</b>	<b>9</b>	<b>95</b>	<b>8</b>	<b>114</b>	<b>9</b>	<b>114</b>	<b>9</b>
<b>Black</b>	<b>95</b>	<b>23</b>	<b>102</b>	<b>24</b>	<b>94</b>	<b>23</b>	<b>108</b>	<b>25</b>		<b>103</b>	<b>23</b>	<b>105</b>	<b>23</b>	<b>120</b>	<b>27</b>	<b>98</b>	<b>22</b>	<b>121</b>	<b>26</b>	<b>126</b>	<b>25</b>
<b>Asian/Pacific Islander</b>	<b>49</b>	<b>12</b>	<b>68</b>	<b>15</b>	<b>60</b>	<b>13</b>	<b>59</b>	<b>12</b>		<b>69</b>	<b>12</b>	<b>62</b>	<b>11</b>	<b>76</b>	<b>13</b>	<b>69</b>	<b>11</b>	<b>80</b>	<b>12</b>	<b>90</b>	<b>12</b>
SPA 1: Antelope Valley	30	17	39	21	35	19	41	22		45	23	36	18	45	22	43	20	60	27	59	24
SPA 2: San Fernando	294	20	258	17	270	17	285	18		275	17	309	18	304	18	286	16	292	16	322	17
SPA 3: San Gabriel	261	20	260	19	263	19	241	17		254	18	250	17	266	17	255	16	278	17	248	15
SPA 4: Metro	145	17	130	15	152	17	148	17		150	17	157	17	176	19	149	15	163	16	146	14
SPA 5: West	125	20	104	16	110	17	99	15		104	16	103	15	115	17	95	13	110	15	89	12
SPA 6: South	158	29	122	22	135	24	135	24		127	23	135	23	133	23	133	22	137	22	149	23
SPA 7: East	165	19	196	22	164	19	148	17		168	18	163	17	157	16	149	15	159	15	159	15
SPA 8: South Bay	213	19	212	19	205	18	200	17		252	22	207	17	219	18	202	16	241	18	230	17

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

## Coronary heart disease *at a glance*

Number 1 cause of premature death

Number 1 cause of death

*Coronary heart disease has been the leading cause of death every year for the past ten years, and the leading cause of premature death since 1996. In 2004, it was the leading cause of death for men and women, all race/ethnic groups, those over 44 years of age, and in every health district and service planning area. The death rate from coronary heart disease was highest for black men, and decreased the least for this group during the last ten years. Since 1995, the overall death rate from coronary heart disease has decreased by 32%.*

### ***In simple terms . . .***

Coronary heart disease is a condition in which the flow of blood to the heart muscle is reduced. Blood carried by the coronary arteries provides the heart with a constant supply of necessary oxygen and nutrients. When coronary arteries become blocked or clogged by cholesterol and fat deposits, they cannot supply enough oxygen-carrying blood to the heart. The result is coronary heart disease. When the flow of blood to the heart is cut off, a heart attack results and the heart muscle is permanently damaged from the lack of oxygen.

### ***Risk factors***

Diabetes, high blood cholesterol, high blood pressure, cigarette smoking, being overweight, physical inactivity, previous heart attack or angina, family history of early heart disease, age.

### ***Community opportunities for prevention***

- Promote physical activity by providing access to safe places like parks to walk, play, and exercise
- Restrict smoking in public places and worksites
- Provide access to smoking cessation programs
- Encourage people to quit smoking through media campaigns

### ***Individual opportunities for prevention***

- Eat a healthy diet
- Increase physical activity
- Stop smoking
- Manage diabetes
- Reduce stress
- Get regular medical check-ups

***Los Angeles County deaths*** 15,296

***Los Angeles County death rate*** 176 deaths per 100,000 population  
***Healthy People 2010 Objective 12-1*** 162 deaths per 100,000 population

***ICD-9 codes*** 402, 410-414, 429.2

***ICD-10 codes*** I11, I20-I25

### ***Resources***

American Heart Association at [WWW.AMERICANHEART.ORG](http://WWW.AMERICANHEART.ORG)

National Heart Lung and Blood Institute at [WWW.NHLBI.NIH.GOV](http://WWW.NHLBI.NIH.GOV)

*Mortality in Los Angeles County 2004*  
**Trends in coronary heart disease mortality, 1995-2004**

	1995		1996		1997		1998		1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>17,487</b>	<b>258</b>	<b>17,153</b>	<b>249</b>	<b>17,448</b>	<b>249</b>	<b>17,163</b>	<b>242</b>	<b>17,394</b>	<b>241</b>	<b>16,903</b>	<b>220</b>	<b>16,828</b>	<b>220</b>	<b>16,293</b>	<b>204</b>	<b>16,320</b>	<b>196</b>	<b>15,296</b>	<b>176</b>
<b>Males</b>	<b>8,359</b>	<b>312</b>	<b>8,327</b>	<b>304</b>	<b>8,592</b>	<b>308</b>	<b>8,468</b>	<b>301</b>	<b>8,328</b>	<b>290</b>	<b>8,200</b>	<b>268</b>	<b>8,343</b>	<b>273</b>	<b>8,029</b>	<b>252</b>	<b>8,131</b>	<b>243</b>	<b>7,662</b>	<b>219</b>
<b>Females</b>	<b>9,128</b>	<b>217</b>	<b>8,826</b>	<b>207</b>	<b>8,856</b>	<b>204</b>	<b>8,695</b>	<b>198</b>	<b>9,066</b>	<b>203</b>	<b>8,703</b>	<b>183</b>	<b>8,485</b>	<b>179</b>	<b>8,264</b>	<b>168</b>	<b>8,189</b>	<b>160</b>	<b>7,634</b>	<b>143</b>
<b>White</b>	<b>11,999</b>	<b>283</b>	<b>11,667</b>	<b>275</b>	<b>11,678</b>	<b>274</b>	<b>11,339</b>	<b>265</b>	<b>11,220</b>	<b>262</b>	<b>10,967</b>	<b>243</b>	<b>10,592</b>	<b>246</b>	<b>10,016</b>	<b>228</b>	<b>10,003</b>	<b>223</b>	<b>9,236</b>	<b>198</b>
<b>Hispanic</b>	<b>2,154</b>	<b>180</b>	<b>2,184</b>	<b>176</b>	<b>2,315</b>	<b>178</b>	<b>2,340</b>	<b>177</b>	<b>2,512</b>	<b>184</b>	<b>2,376</b>	<b>161</b>	<b>2,571</b>	<b>151</b>	<b>2,600</b>	<b>141</b>	<b>2,632</b>	<b>133</b>	<b>2,626</b>	<b>134</b>
<b>Black</b>	<b>2,251</b>	<b>344</b>	<b>2,235</b>	<b>336</b>	<b>2,310</b>	<b>341</b>	<b>2,293</b>	<b>333</b>	<b>2,429</b>	<b>351</b>	<b>2,261</b>	<b>309</b>	<b>2,308</b>	<b>327</b>	<b>2,262</b>	<b>317</b>	<b>2,269</b>	<b>312</b>	<b>2,085</b>	<b>265</b>
<b>Asian/Pacific Islander</b>	<b>1,051</b>	<b>157</b>	<b>1,035</b>	<b>141</b>	<b>1,099</b>	<b>144</b>	<b>1,158</b>	<b>145</b>	<b>1,198</b>	<b>143</b>	<b>1,255</b>	<b>136</b>	<b>1,319</b>	<b>139</b>	<b>1,365</b>	<b>130</b>	<b>1,352</b>	<b>119</b>	<b>1,292</b>	<b>101</b>
<b>Males</b>																				
<b>White</b>	<b>5,598</b>	<b>346</b>	<b>5,540</b>	<b>340</b>	<b>5,619</b>	<b>342</b>	<b>5,483</b>	<b>333</b>	<b>5,222</b>	<b>315</b>	<b>5,135</b>	<b>293</b>	<b>5,162</b>	<b>312</b>	<b>4,878</b>	<b>288</b>	<b>4,880</b>	<b>281</b>	<b>4,505</b>	<b>247</b>
<b>Hispanic</b>	<b>1,104</b>	<b>218</b>	<b>1,131</b>	<b>216</b>	<b>1,175</b>	<b>216</b>	<b>1,211</b>	<b>221</b>	<b>1,296</b>	<b>230</b>	<b>1,238</b>	<b>202</b>	<b>1,338</b>	<b>188</b>	<b>1,323</b>	<b>169</b>	<b>1,382</b>	<b>164</b>	<b>1,415</b>	<b>171</b>
<b>Black</b>	<b>1,059</b>	<b>403</b>	<b>1,064</b>	<b>403</b>	<b>1,150</b>	<b>428</b>	<b>1,089</b>	<b>401</b>	<b>1,134</b>	<b>420</b>	<b>1,095</b>	<b>390</b>	<b>1,124</b>	<b>412</b>	<b>1,084</b>	<b>398</b>	<b>1,093</b>	<b>386</b>	<b>1,012</b>	<b>331</b>
<b>Asian/Pacific Islander</b>	<b>581</b>	<b>195</b>	<b>580</b>	<b>173</b>	<b>625</b>	<b>182</b>	<b>673</b>	<b>189</b>	<b>660</b>	<b>180</b>	<b>712</b>	<b>175</b>	<b>701</b>	<b>169</b>	<b>714</b>	<b>157</b>	<b>739</b>	<b>151</b>	<b>696</b>	<b>127</b>
<b>Females</b>																				
<b>White</b>	<b>6,401</b>	<b>234</b>	<b>6,129</b>	<b>224</b>	<b>6,059</b>	<b>221</b>	<b>5,856</b>	<b>213</b>	<b>5,998</b>	<b>218</b>	<b>5,832</b>	<b>200</b>	<b>5,430</b>	<b>195</b>	<b>5,138</b>	<b>182</b>	<b>5,123</b>	<b>178</b>	<b>4,731</b>	<b>158</b>
<b>Hispanic</b>	<b>1,050</b>	<b>152</b>	<b>1,053</b>	<b>146</b>	<b>1,140</b>	<b>151</b>	<b>1,129</b>	<b>146</b>	<b>1,216</b>	<b>152</b>	<b>1,138</b>	<b>132</b>	<b>1,233</b>	<b>123</b>	<b>1,277</b>	<b>119</b>	<b>1,250</b>	<b>109</b>	<b>1,211</b>	<b>107</b>
<b>Black</b>	<b>1,192</b>	<b>298</b>	<b>1,171</b>	<b>286</b>	<b>1,160</b>	<b>279</b>	<b>1,204</b>	<b>285</b>	<b>1,295</b>	<b>302</b>	<b>1,166</b>	<b>256</b>	<b>1,184</b>	<b>270</b>	<b>1,178</b>	<b>265</b>	<b>1,176</b>	<b>260</b>	<b>1,073</b>	<b>220</b>
<b>Asian/Pacific Islander</b>	<b>470</b>	<b>128</b>	<b>455</b>	<b>116</b>	<b>474</b>	<b>113</b>	<b>485</b>	<b>111</b>	<b>538</b>	<b>116</b>	<b>543</b>	<b>106</b>	<b>618</b>	<b>115</b>	<b>651</b>	<b>109</b>	<b>613</b>	<b>95</b>	<b>596</b>	<b>81</b>
SPA 1: Antelope Valley	436	284	467	285	460	273	448	257	488	266	461	239	471	252	500	253	496	232	488	216
SPA 2: San Fernando	3,617	251	3,510	239	3,618	240	3,537	230	3,615	230	3,603	213	3,577	215	3,550	206	3,520	196	3,419	184
SPA 3: San Gabriel	3,364	261	3,104	237	3,275	244	3,293	241	3,334	240	3,188	214	3,175	213	2,972	190	2,949	181	2,704	158
SPA 4: Metro	2,025	231	2,103	239	2,070	234	2,061	233	2,060	232	1,935	207	1,890	200	1,855	188	1,826	177	1,662	153
SPA 5: West	1,323	209	1,349	211	1,352	208	1,304	198	1,194	179	1,273	179	1,135	162	1,056	146	1,089	146	1,036	133
SPA 6: South	1,778	334	1,718	321	1,702	317	1,649	307	1,711	319	1,558	275	1,644	292	1,606	276	1,562	263	1,443	230
SPA 7: East	2,139	264	2,047	247	2,024	240	2,020	238	2,103	242	2,073	225	2,053	220	1,976	202	1,949	190	1,847	173
SPA 8: South Bay	2,716	260	2,771	262	2,845	263	2,755	252	2,795	252	2,721	230	2,754	234	2,704	220	2,758	215	2,529	188

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

*Diabetes has been the sixth leading cause of death since 1996, and a leading cause of premature death since 1999. Death rates from diabetes have increased for whites and Hispanics since 1995. These increases have been greater for men than women. The death rate for blacks peaked in 2002 and 2003, and decreased in 2004 yet remained higher than that of other race/ethnic groups. In 2004, the diabetes death rate was highest for black men and those living in the South Service Planning Area.*

### ***In simple terms . . .***

Diabetes is a disease in which the body does not produce or properly use insulin. Insulin is a hormone necessary to convert sugar, starches, and other food into energy needed for daily life. Insulin controls the amount of sugar in the blood by moving it into the cells, where the body can use it for energy. Diabetes results in too much sugar in the blood, which can damage the eyes, kidneys, nerves, heart, and blood vessels, and reduce the body's ability to fight infections.

### ***Risk factors***

Family history of diabetes, being overweight, physical inactivity, age.

### ***Community opportunities for prevention***

- Promote physical activity by providing access to safe places like parks to walk, play, and exercise
- Promote medical screening for diabetes

### ***Individual opportunities for prevention***

- Maintain a healthy weight
- Increase physical activity

### ***Los Angeles County deaths***

2,201

### ***Los Angeles County death rate Healthy People 2010 Objective 5-5***

25 deaths per 100,000 population  
Not comparable

### ***ICD-9 codes***

250

### ***ICD-10 codes***

E10-E14

### ***Resources***

American Diabetes Association at [WWW.DIABETES.ORG](http://WWW.DIABETES.ORG)  
National Diabetes Education Program at [WWW.NDEP.NIH.GOV](http://WWW.NDEP.NIH.GOV)

*Mortality in Los Angeles County 2004*  
**Trends in diabetes mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>1,533</b>	<b>22</b>	<b>1,647</b>	<b>23</b>	<b>1,746</b>	<b>24</b>	<b>1,753</b>	<b>24</b>	<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>	<b>1,820</b>	<b>25</b>	<b>1,879</b>	<b>24</b>	<b>1,890</b>	<b>24</b>	<b>2,122</b>	<b>26</b>	<b>2,178</b>	<b>26</b>	<b>2,201</b>	<b>25</b>
<b>Males</b>	<b>697</b>	<b>23</b>	<b>773</b>	<b>26</b>	<b>818</b>	<b>27</b>	<b>879</b>	<b>28</b>		<b>829</b>	<b>27</b>	<b>876</b>	<b>27</b>	<b>886</b>	<b>27</b>	<b>996</b>	<b>29</b>	<b>1,053</b>	<b>30</b>	<b>1,063</b>	<b>29</b>
<b>Females</b>	<b>836</b>	<b>20</b>	<b>874</b>	<b>21</b>	<b>928</b>	<b>22</b>	<b>874</b>	<b>21</b>		<b>991</b>	<b>23</b>	<b>1,003</b>	<b>22</b>	<b>1,004</b>	<b>22</b>	<b>1,126</b>	<b>24</b>	<b>1,125</b>	<b>23</b>	<b>1,138</b>	<b>23</b>
<b>White</b>	<b>635</b>	<b>15</b>	<b>716</b>	<b>17</b>	<b>744</b>	<b>18</b>	<b>708</b>	<b>17</b>		<b>739</b>	<b>18</b>	<b>797</b>	<b>19</b>	<b>775</b>	<b>19</b>	<b>840</b>	<b>20</b>	<b>835</b>	<b>20</b>	<b>863</b>	<b>20</b>
<b>Hispanic</b>	<b>425</b>	<b>31</b>	<b>445</b>	<b>31</b>	<b>526</b>	<b>35</b>	<b>545</b>	<b>35</b>		<b>567</b>	<b>37</b>	<b>579</b>	<b>35</b>	<b>639</b>	<b>34</b>	<b>678</b>	<b>34</b>	<b>719</b>	<b>34</b>	<b>741</b>	<b>35</b>
<b>Black</b>	<b>318</b>	<b>45</b>	<b>344</b>	<b>49</b>	<b>309</b>	<b>43</b>	<b>327</b>	<b>46</b>		<b>321</b>	<b>44</b>	<b>325</b>	<b>43</b>	<b>308</b>	<b>42</b>	<b>374</b>	<b>50</b>	<b>378</b>	<b>50</b>	<b>339</b>	<b>41</b>
<b>Asian/Pacific Islander</b>	<b>146</b>	<b>20</b>	<b>135</b>	<b>17</b>	<b>158</b>	<b>18</b>	<b>166</b>	<b>19</b>		<b>187</b>	<b>21</b>	<b>171</b>	<b>17</b>	<b>164</b>	<b>16</b>	<b>212</b>	<b>19</b>	<b>233</b>	<b>20</b>	<b>251</b>	<b>19</b>
<b>Males</b>																					
<b>White</b>	<b>300</b>	<b>17</b>	<b>351</b>	<b>20</b>	<b>359</b>	<b>21</b>	<b>378</b>	<b>22</b>		<b>358</b>	<b>21</b>	<b>384</b>	<b>22</b>	<b>380</b>	<b>22</b>	<b>400</b>	<b>23</b>	<b>424</b>	<b>24</b>	<b>446</b>	<b>25</b>
<b>Hispanic</b>	<b>182</b>	<b>30</b>	<b>203</b>	<b>32</b>	<b>245</b>	<b>38</b>	<b>269</b>	<b>40</b>		<b>258</b>	<b>40</b>	<b>265</b>	<b>38</b>	<b>279</b>	<b>35</b>	<b>319</b>	<b>38</b>	<b>339</b>	<b>38</b>	<b>347</b>	<b>38</b>
<b>Black</b>	<b>148</b>	<b>50</b>	<b>143</b>	<b>51</b>	<b>139</b>	<b>49</b>	<b>140</b>	<b>46</b>		<b>131</b>	<b>46</b>	<b>141</b>	<b>46</b>	<b>144</b>	<b>47</b>	<b>164</b>	<b>56</b>	<b>158</b>	<b>53</b>	<b>158</b>	<b>47</b>
<b>Asian/Pacific Islander</b>	<b>64</b>	<b>20</b>	<b>72</b>	<b>20</b>	<b>70</b>	<b>19</b>	<b>87</b>	<b>22</b>		<b>81</b>	<b>20</b>	<b>83</b>	<b>19</b>	<b>83</b>	<b>18</b>	<b>107</b>	<b>22</b>	<b>124</b>	<b>24</b>	<b>109</b>	<b>20</b>
<b>Females</b>																					
<b>White</b>	<b>335</b>	<b>14</b>	<b>365</b>	<b>15</b>	<b>385</b>	<b>16</b>	<b>330</b>	<b>14</b>		<b>381</b>	<b>16</b>	<b>413</b>	<b>17</b>	<b>395</b>	<b>16</b>	<b>440</b>	<b>18</b>	<b>411</b>	<b>17</b>	<b>417</b>	<b>16</b>
<b>Hispanic</b>	<b>243</b>	<b>31</b>	<b>242</b>	<b>29</b>	<b>281</b>	<b>32</b>	<b>276</b>	<b>31</b>		<b>309</b>	<b>35</b>	<b>314</b>	<b>33</b>	<b>360</b>	<b>33</b>	<b>359</b>	<b>31</b>	<b>380</b>	<b>31</b>	<b>394</b>	<b>33</b>
<b>Black</b>	<b>170</b>	<b>41</b>	<b>201</b>	<b>47</b>	<b>170</b>	<b>40</b>	<b>187</b>	<b>44</b>		<b>190</b>	<b>43</b>	<b>184</b>	<b>41</b>	<b>164</b>	<b>37</b>	<b>210</b>	<b>46</b>	<b>220</b>	<b>48</b>	<b>181</b>	<b>36</b>
<b>Asian/Pacific Islander</b>	<b>82</b>	<b>20</b>	<b>63</b>	<b>14</b>	<b>88</b>	<b>18</b>	<b>79</b>	<b>17</b>		<b>106</b>	<b>21</b>	<b>88</b>	<b>16</b>	<b>81</b>	<b>14</b>	<b>105</b>	<b>17</b>	<b>109</b>	<b>17</b>	<b>142</b>	<b>19</b>
<b>SPA 1: Antelope Valley</b>	<b>41</b>	<b>25</b>	<b>45</b>	<b>24</b>	<b>35</b>	<b>17</b>	<b>32</b>	<b>17</b>		<b>39</b>	<b>20</b>	<b>43</b>	<b>20</b>	<b>54</b>	<b>26</b>	<b>71</b>	<b>33</b>	<b>69</b>	<b>28</b>	<b>73</b>	<b>33</b>
<b>SPA 2: San Fernando</b>	<b>245</b>	<b>16</b>	<b>277</b>	<b>18</b>	<b>301</b>	<b>19</b>	<b>316</b>	<b>20</b>		<b>309</b>	<b>19</b>	<b>330</b>	<b>20</b>	<b>330</b>	<b>19</b>	<b>335</b>	<b>19</b>	<b>395</b>	<b>22</b>	<b>396</b>	<b>21</b>
<b>SPA 3: San Gabriel</b>	<b>260</b>	<b>19</b>	<b>287</b>	<b>21</b>	<b>269</b>	<b>19</b>	<b>305</b>	<b>22</b>		<b>305</b>	<b>21</b>	<b>354</b>	<b>24</b>	<b>306</b>	<b>20</b>	<b>395</b>	<b>25</b>	<b>361</b>	<b>22</b>	<b>423</b>	<b>25</b>
<b>SPA 4: Metro</b>	<b>192</b>	<b>22</b>	<b>211</b>	<b>24</b>	<b>224</b>	<b>26</b>	<b>220</b>	<b>25</b>		<b>245</b>	<b>28</b>	<b>220</b>	<b>24</b>	<b>269</b>	<b>29</b>	<b>276</b>	<b>28</b>	<b>271</b>	<b>27</b>	<b>257</b>	<b>24</b>
<b>SPA 5: West</b>	<b>78</b>	<b>13</b>	<b>102</b>	<b>16</b>	<b>76</b>	<b>12</b>	<b>80</b>	<b>13</b>	<b>80</b>	<b>12</b>	<b>80</b>	<b>12</b>	<b>76</b>	<b>11</b>	<b>101</b>	<b>15</b>	<b>113</b>	<b>16</b>	<b>115</b>	<b>16</b>	
<b>SPA 6: South</b>	<b>251</b>	<b>44</b>	<b>235</b>	<b>41</b>	<b>210</b>	<b>37</b>	<b>234</b>	<b>42</b>	<b>248</b>	<b>44</b>	<b>247</b>	<b>42</b>	<b>237</b>	<b>40</b>	<b>286</b>	<b>48</b>	<b>289</b>	<b>47</b>	<b>258</b>	<b>39</b>	
<b>SPA 7: East</b>	<b>226</b>	<b>26</b>	<b>233</b>	<b>26</b>	<b>317</b>	<b>35</b>	<b>312</b>	<b>34</b>	<b>315</b>	<b>35</b>	<b>315</b>	<b>33</b>	<b>337</b>	<b>35</b>	<b>350</b>	<b>35</b>	<b>336</b>	<b>32</b>	<b>356</b>	<b>33</b>	
<b>SPA 8: South Bay</b>	<b>234</b>	<b>21</b>	<b>253</b>	<b>22</b>	<b>310</b>	<b>27</b>	<b>249</b>	<b>21</b>	<b>277</b>	<b>24</b>	<b>285</b>	<b>23</b>	<b>274</b>	<b>22</b>	<b>303</b>	<b>23</b>	<b>337</b>	<b>25</b>	<b>310</b>	<b>22</b>	

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

## Drug overdose *at a glance*

Number **7** cause of premature death

Number **19** cause of death

*Drug overdose has been a leading cause of premature death every year since 1995. In 2004, drug overdose was the seventh leading cause of premature death overall and the second leading cause of premature death for white men. Drug overdose was the leading cause of death for white men 25-44 years of age. Among black men, the death rate from drug overdoses decreased for the last two years after peaking at 23 deaths per 100,000 in 2002.*

### ***In simple terms . . .***

In this report, drug overdose refers to any death from an accidental overdose of illegal drugs, prescription or non-prescription medication, or alcohol. Drug overdose does not include any drug, medicine, or alcohol taken with homicidal or suicidal intent. **NOTE:** Previous editions of this report included accidental poisonings from vapors, gases, and chemicals in this category.

### ***Risk factors***

Young people are at increased risk for drug abuse if they lack positive, consistent adult role models, do poorly in school, become involved in delinquent behavior or belong to gangs, live with substance-abusing parents, or have parents in the criminal justice system. For adults, risk factors include a family history of alcohol or substance abuse, and a social environment where illegal substances or alcohol are used excessively. Among those who use drugs, the risk of death from an overdose is increased when drugs are injected (instead of used in other ways), mixed with alcohol, used in combination with other drugs, or where there is a prior history of drug overdose. Prompt recognition of drug abuse is important because effective treatment and support programs are available.

### ***Community opportunities for prevention***

- Provide access to drug treatment programs
- Assess community risk and protective factors associated with drug problems to target prevention services
- Tailor prevention programs to fit the characteristics of the target population and to reach the target population in multiple settings

### ***Individual opportunities for prevention***

- Enhance family relationships and improve parenting skills
- Talk with children about family rules against drug use
- Seek treatment for drug abuse

### ***Los Angeles County deaths***

556

### ***Los Angeles County death rate Healthy People 2010 Objective***

5.5 deaths per 100,000 population

Not comparable

### ***ICD-9 codes***

E850-E858, E860

### ***ICD-10 codes***

X40-X45

### ***Resources***

The National Institute on Drug Abuse at [WWW.DRUGABUSE.GOV](http://WWW.DRUGABUSE.GOV)

Center for Substance Abuse Prevention at [WWW.PREVENTION.SAMHSA.GOV](http://WWW.PREVENTION.SAMHSA.GOV)

*Mortality in Los Angeles County 2004*  
**Trends in drug overdose mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>571</b>	<b>6</b>	<b>586</b>	<b>6</b>	<b>460</b>	<b>5</b>	<b>532</b>	<b>6</b>	<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>	<b>598</b>	<b>7</b>	<b>489</b>	<b>5</b>	<b>484</b>	<b>5</b>	<b>611</b>	<b>6</b>	<b>620</b>	<b>6</b>	<b>556</b>	<b>6</b>
<b>Males</b>	<b>446</b>	<b>10</b>	<b>446</b>	<b>10</b>	<b>355</b>	<b>8</b>	<b>385</b>	<b>8</b>		<b>461</b>	<b>10</b>	<b>375</b>	<b>8</b>	<b>353</b>	<b>8</b>	<b>444</b>	<b>9</b>	<b>437</b>	<b>9</b>	<b>388</b>	<b>8</b>
<b>Females</b>	<b>125</b>	<b>3</b>	<b>140</b>	<b>3</b>	<b>105</b>	<b>2</b>	<b>147</b>	<b>3</b>		<b>137</b>	<b>3</b>	<b>114</b>	<b>2</b>	<b>131</b>	<b>3</b>	<b>167</b>	<b>3</b>	<b>183</b>	<b>4</b>	<b>168</b>	<b>3</b>
<b>White</b>	<b>266</b>	<b>7</b>	<b>289</b>	<b>8</b>	<b>237</b>	<b>7</b>	<b>276</b>	<b>8</b>		<b>304</b>	<b>9</b>	<b>253</b>	<b>8</b>	<b>243</b>	<b>7</b>	<b>301</b>	<b>9</b>	<b>326</b>	<b>10</b>	<b>308</b>	<b>9</b>
<b>Hispanic</b>	<b>180</b>	<b>6</b>	<b>182</b>	<b>5</b>	<b>127</b>	<b>4</b>	<b>153</b>	<b>4</b>		<b>197</b>	<b>5</b>	<b>148</b>	<b>4</b>	<b>141</b>	<b>4</b>	<b>170</b>	<b>4</b>	<b>178</b>	<b>4</b>	<b>155</b>	<b>4</b>
<b>Black</b>	<b>109</b>	<b>12</b>	<b>109</b>	<b>12</b>	<b>87</b>	<b>10</b>	<b>93</b>	<b>10</b>		<b>92</b>	<b>10</b>	<b>80</b>	<b>9</b>	<b>96</b>	<b>11</b>	<b>131</b>	<b>14</b>	<b>102</b>	<b>11</b>	<b>80</b>	<b>8</b>
<b>Asian/Pacific Islander</b>	<b>9</b>	<b>--</b>	<b>3</b>	<b>--</b>	<b>6</b>	<b>--</b>	<b>6</b>	<b>--</b>		<b>2</b>	<b>--</b>	<b>4</b>	<b>--</b>	<b>4</b>	<b>--</b>	<b>8</b>	<b>--</b>	<b>11</b>	<b>--</b>	<b>6</b>	<b>--</b>
<b>Males</b>																					
<b>White</b>	<b>201</b>	<b>11</b>	<b>210</b>	<b>12</b>	<b>175</b>	<b>10</b>	<b>183</b>	<b>10</b>		<b>226</b>	<b>13</b>	<b>184</b>	<b>11</b>	<b>168</b>	<b>10</b>	<b>199</b>	<b>12</b>	<b>206</b>	<b>12</b>	<b>204</b>	<b>12</b>
<b>Hispanic</b>	<b>155</b>	<b>10</b>	<b>160</b>	<b>9</b>	<b>112</b>	<b>7</b>	<b>131</b>	<b>7</b>		<b>174</b>	<b>10</b>	<b>127</b>	<b>7</b>	<b>118</b>	<b>7</b>	<b>146</b>	<b>8</b>	<b>151</b>	<b>7</b>	<b>128</b>	<b>6</b>
<b>Black</b>	<b>77</b>	<b>19</b>	<b>72</b>	<b>18</b>	<b>63</b>	<b>16</b>	<b>62</b>	<b>15</b>		<b>58</b>	<b>15</b>	<b>56</b>	<b>14</b>	<b>63</b>	<b>16</b>	<b>93</b>	<b>23</b>	<b>70</b>	<b>17</b>	<b>47</b>	<b>11</b>
<b>Asian/Pacific Islander</b>	<b>8</b>	<b>--</b>	<b>2</b>	<b>--</b>	<b>2</b>	<b>--</b>	<b>6</b>	<b>--</b>		<b>1</b>	<b>--</b>	<b>4</b>	<b>--</b>	<b>4</b>	<b>--</b>	<b>5</b>	<b>--</b>	<b>7</b>	<b>--</b>	<b>4</b>	<b>--</b>
<b>Females</b>																					
<b>White</b>	<b>65</b>	<b>4</b>	<b>79</b>	<b>5</b>	<b>62</b>	<b>4</b>	<b>93</b>	<b>6</b>		<b>78</b>	<b>5</b>	<b>69</b>	<b>4</b>	<b>75</b>	<b>4</b>	<b>102</b>	<b>6</b>	<b>120</b>	<b>7</b>	<b>104</b>	<b>6</b>
<b>Hispanic</b>	<b>25</b>	<b>2</b>	<b>22</b>	<b>1</b>	<b>15</b>	<b>--</b>	<b>22</b>	<b>1</b>		<b>23</b>	<b>1</b>	<b>21</b>	<b>1</b>	<b>23</b>	<b>1</b>	<b>24</b>	<b>1</b>	<b>27</b>	<b>1</b>	<b>27</b>	<b>1</b>
<b>Black</b>	<b>32</b>	<b>6</b>	<b>37</b>	<b>7</b>	<b>24</b>	<b>5</b>	<b>31</b>	<b>6</b>		<b>34</b>	<b>7</b>	<b>24</b>	<b>5</b>	<b>33</b>	<b>7</b>	<b>38</b>	<b>7</b>	<b>32</b>	<b>6</b>	<b>33</b>	<b>6</b>
<b>Asian/Pacific Islander</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>4</b>	<b>--</b>	<b>0</b>	<b>--</b>		<b>1</b>	<b>--</b>	<b>0</b>	<b>--</b>	<b>0</b>	<b>--</b>	<b>3</b>	<b>--</b>	<b>4</b>	<b>--</b>	<b>2</b>	<b>--</b>
<b>SPA 1: Antelope Valley</b>	<b>11</b>	<b>--</b>	<b>12</b>	<b>--</b>	<b>11</b>	<b>--</b>	<b>10</b>	<b>--</b>		<b>20</b>	<b>6</b>	<b>19</b>	<b>--</b>	<b>17</b>	<b>--</b>	<b>27</b>	<b>8</b>	<b>30</b>	<b>9</b>	<b>31</b>	<b>10</b>
<b>SPA 2: San Fernando</b>	<b>106</b>	<b>5</b>	<b>109</b>	<b>5</b>	<b>71</b>	<b>4</b>	<b>88</b>	<b>4</b>		<b>99</b>	<b>5</b>	<b>82</b>	<b>4</b>	<b>80</b>	<b>4</b>	<b>126</b>	<b>6</b>	<b>97</b>	<b>4</b>	<b>101</b>	<b>5</b>
<b>SPA 3: San Gabriel</b>	<b>70</b>	<b>4</b>	<b>60</b>	<b>4</b>	<b>66</b>	<b>4</b>	<b>74</b>	<b>4</b>		<b>82</b>	<b>5</b>	<b>72</b>	<b>4</b>	<b>64</b>	<b>4</b>	<b>75</b>	<b>4</b>	<b>63</b>	<b>4</b>	<b>65</b>	<b>4</b>
<b>SPA 4: Metro</b>	<b>94</b>	<b>9</b>	<b>98</b>	<b>9</b>	<b>76</b>	<b>7</b>	<b>89</b>	<b>8</b>		<b>94</b>	<b>8</b>	<b>88</b>	<b>8</b>	<b>66</b>	<b>6</b>	<b>75</b>	<b>6</b>	<b>107</b>	<b>9</b>	<b>84</b>	<b>7</b>
<b>SPA 5: West</b>	<b>32</b>	<b>5</b>	<b>33</b>	<b>5</b>	<b>32</b>	<b>5</b>	<b>43</b>	<b>6</b>		<b>43</b>	<b>7</b>	<b>25</b>	<b>4</b>	<b>32</b>	<b>5</b>	<b>49</b>	<b>7</b>	<b>54</b>	<b>8</b>	<b>41</b>	<b>6</b>
<b>SPA 6: South</b>	<b>65</b>	<b>9</b>	<b>80</b>	<b>10</b>	<b>62</b>	<b>8</b>	<b>67</b>	<b>9</b>		<b>59</b>	<b>8</b>	<b>45</b>	<b>6</b>	<b>43</b>	<b>6</b>	<b>68</b>	<b>9</b>	<b>56</b>	<b>7</b>	<b>45</b>	<b>5</b>
<b>SPA 7: East</b>	<b>76</b>	<b>7</b>	<b>75</b>	<b>7</b>	<b>54</b>	<b>5</b>	<b>62</b>	<b>5</b>	<b>80</b>	<b>7</b>	<b>59</b>	<b>5</b>	<b>70</b>	<b>6</b>	<b>55</b>	<b>5</b>	<b>68</b>	<b>6</b>	<b>60</b>	<b>5</b>	
<b>SPA 8: South Bay</b>	<b>89</b>	<b>6</b>	<b>83</b>	<b>6</b>	<b>65</b>	<b>4</b>	<b>74</b>	<b>5</b>	<b>93</b>	<b>6</b>	<b>71</b>	<b>5</b>	<b>76</b>	<b>5</b>	<b>100</b>	<b>7</b>	<b>101</b>	<b>6</b>	<b>90</b>	<b>6</b>	

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.  
 --Number of deaths is too small to calculate a reliable rate.

## Emphysema/COPD at a glance

Number **13** cause of premature death  
Number **4** cause of death

Since 1995, emphysema/COPD has been the fourth, fifth, or sixth leading cause of death but has not been among the leading causes of premature death. In 2004, emphysema/COPD was the third leading cause of death for whites, for persons aged 75 years or older, and among those in the Antelope Valley and East Service Planning Areas. From 1995 to 2004, the emphysema/COPD death rate for men decreased from 43 to 38 deaths per 100,000. During the same period, the death rate for women fluctuated, rising to 33 deaths per 100,000 in 1999 and then falling back to 27 deaths per 100,000 in 2004.

### In simple terms . . .

Emphysema/COPD are conditions that interfere with the normal flow of air in and out of the lungs, making it difficult to breathe. Emphysema is the most common form of COPD. Emphysema is a lung disease that involves damage to the air sacs (alveoli) in the lungs. The air sacs are unable to completely deflate, making them unable to fill with fresh air and ensure adequate oxygen supply to the body.

### Risk factors

Cigarette smoking, second-hand smoke, occupational exposure to certain industrial pollutants.

### Community opportunities for prevention

- Restrict smoking in public places and worksites
- Provide access to smoking cessation programs
- Encourage people to quit smoking through media campaigns

### Individual opportunities for prevention

- Stop smoking
- Avoid people who smoke

### Los Angeles County deaths

2,641

### Los Angeles County death rate

31.1 deaths per 100,000 population  
88.6 deaths per 100,000 adults aged 45 years and over

### Healthy People 2010 Objective 24-10

62.3 deaths per 100,000 adults aged 45 years and over. The Healthy People 2010 objective includes some causes of chronic bronchitis not included in this report. These additional causes would increase the number of deaths in Los Angeles by 1%.

### ICD-9 codes

492, 496

### ICD-10 codes

J43-J44

### Resources

American Lung Association at [WWW.LUNGUSA.ORG](http://WWW.LUNGUSA.ORG)  
National Heart Lung and Blood Institute at [WWW.NHLBI.NIH.GOV](http://WWW.NHLBI.NIH.GOV)



*Mortality in Los Angeles County 2004*  
**Trends in emphysema/COPD mortality, 1995-2004**

	1995		1996		1997		1998		1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>2,255</b>	<b>33</b>	<b>2,307</b>	<b>33</b>	<b>2,565</b>	<b>37</b>	<b>2,553</b>	<b>36</b>	<b>2,836</b>	<b>39</b>	<b>2,660</b>	<b>35</b>	<b>2,723</b>	<b>36</b>	<b>2,604</b>	<b>33</b>	<b>2,796</b>	<b>34</b>	<b>2,641</b>	<b>31</b>
<b>Males</b>	<b>1,145</b>	<b>43</b>	<b>1,123</b>	<b>42</b>	<b>1,232</b>	<b>45</b>	<b>1,246</b>	<b>45</b>	<b>1,384</b>	<b>49</b>	<b>1,299</b>	<b>43</b>	<b>1,301</b>	<b>43</b>	<b>1,246</b>	<b>40</b>	<b>1,377</b>	<b>43</b>	<b>1,278</b>	<b>38</b>
<b>Females</b>	<b>1,110</b>	<b>27</b>	<b>1,184</b>	<b>28</b>	<b>1,333</b>	<b>31</b>	<b>1,307</b>	<b>30</b>	<b>1,452</b>	<b>33</b>	<b>1,361</b>	<b>30</b>	<b>1,422</b>	<b>31</b>	<b>1,358</b>	<b>28</b>	<b>1,419</b>	<b>29</b>	<b>1,363</b>	<b>27</b>
<b>White</b>	<b>1,752</b>	<b>41</b>	<b>1,777</b>	<b>42</b>	<b>1,928</b>	<b>46</b>	<b>1,939</b>	<b>46</b>	<b>2,099</b>	<b>50</b>	<b>1,979</b>	<b>45</b>	<b>1,992</b>	<b>47</b>	<b>1,887</b>	<b>44</b>	<b>1,989</b>	<b>46</b>	<b>1,835</b>	<b>41</b>
<b>Hispanic</b>	<b>163</b>	<b>14</b>	<b>169</b>	<b>15</b>	<b>219</b>	<b>18</b>	<b>206</b>	<b>17</b>	<b>254</b>	<b>19</b>	<b>231</b>	<b>17</b>	<b>261</b>	<b>16</b>	<b>249</b>	<b>14</b>	<b>311</b>	<b>17</b>	<b>305</b>	<b>17</b>
<b>Black</b>	<b>210</b>	<b>32</b>	<b>231</b>	<b>34</b>	<b>256</b>	<b>38</b>	<b>292</b>	<b>43</b>	<b>307</b>	<b>44</b>	<b>263</b>	<b>36</b>	<b>281</b>	<b>39</b>	<b>293</b>	<b>41</b>	<b>287</b>	<b>40</b>	<b>297</b>	<b>38</b>
<b>Asian/Pacific Islander</b>	<b>123</b>	<b>18</b>	<b>127</b>	<b>18</b>	<b>158</b>	<b>22</b>	<b>113</b>	<b>15</b>	<b>170</b>	<b>20</b>	<b>178</b>	<b>20</b>	<b>184</b>	<b>20</b>	<b>164</b>	<b>16</b>	<b>198</b>	<b>18</b>	<b>192</b>	<b>15</b>
<b>Males</b>																				
<b>White</b>	<b>854</b>	<b>52</b>	<b>822</b>	<b>50</b>	<b>862</b>	<b>52</b>	<b>867</b>	<b>52</b>	<b>966</b>	<b>58</b>	<b>892</b>	<b>50</b>	<b>887</b>	<b>53</b>	<b>855</b>	<b>50</b>	<b>896</b>	<b>51</b>	<b>830</b>	<b>46</b>
<b>Hispanic</b>	<b>81</b>	<b>18</b>	<b>91</b>	<b>21</b>	<b>123</b>	<b>29</b>	<b>124</b>	<b>27</b>	<b>139</b>	<b>29</b>	<b>125</b>	<b>23</b>	<b>125</b>	<b>20</b>	<b>126</b>	<b>18</b>	<b>175</b>	<b>24</b>	<b>162</b>	<b>23</b>
<b>Black</b>	<b>124</b>	<b>50</b>	<b>120</b>	<b>46</b>	<b>138</b>	<b>55</b>	<b>171</b>	<b>66</b>	<b>171</b>	<b>65</b>	<b>151</b>	<b>53</b>	<b>153</b>	<b>56</b>	<b>149</b>	<b>59</b>	<b>169</b>	<b>63</b>	<b>154</b>	<b>54</b>
<b>Asian/Pacific Islander</b>	<b>82</b>	<b>28</b>	<b>89</b>	<b>29</b>	<b>107</b>	<b>34</b>	<b>82</b>	<b>25</b>	<b>106</b>	<b>30</b>	<b>127</b>	<b>34</b>	<b>133</b>	<b>34</b>	<b>111</b>	<b>26</b>	<b>131</b>	<b>29</b>	<b>125</b>	<b>25</b>
<b>Females</b>																				
<b>White</b>	<b>898</b>	<b>35</b>	<b>955</b>	<b>37</b>	<b>1,066</b>	<b>41</b>	<b>1,072</b>	<b>42</b>	<b>1,133</b>	<b>45</b>	<b>1,087</b>	<b>41</b>	<b>1,105</b>	<b>43</b>	<b>1,032</b>	<b>40</b>	<b>1,093</b>	<b>42</b>	<b>1,005</b>	<b>37</b>
<b>Hispanic</b>	<b>82</b>	<b>11</b>	<b>78</b>	<b>11</b>	<b>96</b>	<b>13</b>	<b>82</b>	<b>11</b>	<b>115</b>	<b>14</b>	<b>106</b>	<b>13</b>	<b>136</b>	<b>14</b>	<b>123</b>	<b>12</b>	<b>136</b>	<b>12</b>	<b>143</b>	<b>13</b>
<b>Black</b>	<b>86</b>	<b>21</b>	<b>111</b>	<b>27</b>	<b>118</b>	<b>28</b>	<b>121</b>	<b>29</b>	<b>136</b>	<b>32</b>	<b>112</b>	<b>25</b>	<b>128</b>	<b>29</b>	<b>144</b>	<b>32</b>	<b>118</b>	<b>26</b>	<b>143</b>	<b>30</b>
<b>Asian/Pacific Islander</b>	<b>41</b>	<b>11</b>	<b>38</b>	<b>10</b>	<b>51</b>	<b>12</b>	<b>31</b>	<b>8</b>	<b>64</b>	<b>13</b>	<b>51</b>	<b>10</b>	<b>51</b>	<b>10</b>	<b>53</b>	<b>9</b>	<b>67</b>	<b>11</b>	<b>67</b>	<b>9</b>
<b>SPA 1: Antelope Valley</b>	<b>85</b>	<b>54</b>	<b>101</b>	<b>63</b>	<b>109</b>	<b>63</b>	<b>102</b>	<b>58</b>	<b>133</b>	<b>74</b>	<b>119</b>	<b>63</b>	<b>138</b>	<b>71</b>	<b>125</b>	<b>64</b>	<b>140</b>	<b>67</b>	<b>120</b>	<b>54</b>
<b>SPA 2: San Fernando</b>	<b>414</b>	<b>29</b>	<b>435</b>	<b>29</b>	<b>533</b>	<b>35</b>	<b>510</b>	<b>33</b>	<b>577</b>	<b>37</b>	<b>538</b>	<b>32</b>	<b>529</b>	<b>32</b>	<b>519</b>	<b>30</b>	<b>575</b>	<b>33</b>	<b>513</b>	<b>28</b>
<b>SPA 3: San Gabriel</b>	<b>425</b>	<b>33</b>	<b>438</b>	<b>33</b>	<b>500</b>	<b>37</b>	<b>473</b>	<b>35</b>	<b>540</b>	<b>39</b>	<b>487</b>	<b>33</b>	<b>484</b>	<b>33</b>	<b>494</b>	<b>32</b>	<b>529</b>	<b>33</b>	<b>515</b>	<b>31</b>
<b>SPA 4: Metro</b>	<b>226</b>	<b>26</b>	<b>230</b>	<b>26</b>	<b>263</b>	<b>30</b>	<b>243</b>	<b>28</b>	<b>254</b>	<b>29</b>	<b>234</b>	<b>25</b>	<b>259</b>	<b>28</b>	<b>236</b>	<b>24</b>	<b>246</b>	<b>24</b>	<b>234</b>	<b>22</b>
<b>SPA 5: West</b>	<b>171</b>	<b>27</b>	<b>144</b>	<b>23</b>	<b>167</b>	<b>26</b>	<b>142</b>	<b>22</b>	<b>176</b>	<b>27</b>	<b>187</b>	<b>27</b>	<b>179</b>	<b>26</b>	<b>191</b>	<b>27</b>	<b>178</b>	<b>24</b>	<b>166</b>	<b>22</b>
<b>SPA 6: South</b>	<b>161</b>	<b>30</b>	<b>173</b>	<b>32</b>	<b>186</b>	<b>35</b>	<b>231</b>	<b>43</b>	<b>245</b>	<b>45</b>	<b>199</b>	<b>35</b>	<b>201</b>	<b>36</b>	<b>212</b>	<b>37</b>	<b>195</b>	<b>33</b>	<b>205</b>	<b>33</b>
<b>SPA 7: East</b>	<b>296</b>	<b>35</b>	<b>304</b>	<b>36</b>	<b>322</b>	<b>38</b>	<b>367</b>	<b>42</b>	<b>385</b>	<b>44</b>	<b>359</b>	<b>39</b>	<b>356</b>	<b>38</b>	<b>335</b>	<b>34</b>	<b>402</b>	<b>39</b>	<b>372</b>	<b>35</b>
<b>SPA 8: South Bay</b>	<b>466</b>	<b>45</b>	<b>472</b>	<b>44</b>	<b>476</b>	<b>44</b>	<b>481</b>	<b>44</b>	<b>521</b>	<b>47</b>	<b>527</b>	<b>45</b>	<b>558</b>	<b>47</b>	<b>489</b>	<b>40</b>	<b>521</b>	<b>41</b>	<b>497</b>	<b>37</b>

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

*HIV was the leading cause of premature death in 1995. By 2004, it was the tenth leading cause of premature death. From 1995-1997, the death rate from HIV decreased dramatically, although the rate among black males remained well above the overall County rate. In recent years, the death rate has remained stable. In 2004, HIV was the third leading cause of premature death for black males and was a leading cause of premature death in the Central, Hollywood-Wilshire, Long Beach, South, Southeast, and Southwest Health Districts.*

### ***In simple terms . . .***

HIV (human immunodeficiency virus) is the virus that causes AIDS. HIV affects the body's ability to fight infections and certain cancers by damaging the immune system. It is a contagious disease that can be passed from person to person when infected blood, semen, or vaginal secretions come in contact with an uninfected person's blood or mucous membranes. This can happen through sexual contact, sharing needles or syringes, or transfusions of infected blood (this is rare because all blood used for transfusion in the U.S. is screened for the presence of HIV). The virus also can be passed from an infected pregnant woman to her baby during pregnancy or delivery, or through breast milk. There is no scientific evidence to suggest that HIV can be transmitted in other ways.

### ***Risk factors***

Sharing drug needles and syringes, having unprotected sex with an HIV-infected person or a person whose HIV status is unknown.

### ***Community opportunities for prevention***

- Provide access to drug treatment programs
- Educate the community about how HIV is transmitted and how to avoid getting infected
- Provide HIV counseling and testing
- Screen pregnant women for HIV infection and use drug therapies to reduce the transmission of HIV from mother to baby

### ***Individual opportunities for prevention***

- Do not share drug needles and syringes
- Do not have unprotected sex with partners whose HIV status is unknown
- Learn your HIV status by getting tested for antibodies to HIV

***Los Angeles County deaths*** 498

***Los Angeles County death rate*** 5.0 deaths per 100,000 population

***Healthy People 2010 Objective 13-14*** 0.7 deaths per 100,000 population

***ICD-9 codes*** 042-044

***ICD-10 codes*** B20-B24

### ***Resources***

National Institute of Allergy and Infectious Diseases at [WWW.NIAID.NIH.GOV/PUBLICATIONS/AIDS.HTM](http://WWW.NIAID.NIH.GOV/PUBLICATIONS/AIDS.HTM)  
CDC HIV/AIDS Prevention at [WWW.CDC.GOV/HIV](http://WWW.CDC.GOV/HIV)

*Mortality in Los Angeles County 2004*  
**Trends in HIV mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>2,342</b>	<b>26</b>	<b>1,505</b>	<b>17</b>	<b>680</b>	<b>7</b>	<b>552</b>	<b>6</b>		<b>581</b>	<b>6</b>	<b>506</b>	<b>6</b>	<b>558</b>	<b>6</b>	<b>502</b>	<b>5</b>	<b>497</b>	<b>5</b>	<b>498</b>	<b>5</b>
<b>Males</b>	<b>2,164</b>	<b>48</b>	<b>1,366</b>	<b>30</b>	<b>596</b>	<b>13</b>	<b>468</b>	<b>10</b>		<b>506</b>	<b>11</b>	<b>442</b>	<b>10</b>	<b>485</b>	<b>11</b>	<b>428</b>	<b>9</b>	<b>438</b>	<b>9</b>	<b>436</b>	<b>9</b>
<b>Females</b>	<b>178</b>	<b>4</b>	<b>139</b>	<b>3</b>	<b>84</b>	<b>2</b>	<b>84</b>	<b>2</b>		<b>75</b>	<b>2</b>	<b>64</b>	<b>1</b>	<b>73</b>	<b>1</b>	<b>74</b>	<b>2</b>	<b>59</b>	<b>1</b>	<b>62</b>	<b>1</b>
<b>White</b>	<b>1,099</b>	<b>31</b>	<b>624</b>	<b>18</b>	<b>262</b>	<b>8</b>	<b>218</b>	<b>6</b>		<b>236</b>	<b>7</b>	<b>187</b>	<b>6</b>	<b>195</b>	<b>6</b>	<b>151</b>	<b>4</b>	<b>167</b>	<b>5</b>	<b>174</b>	<b>5</b>
<b>Hispanic</b>	<b>686</b>	<b>21</b>	<b>490</b>	<b>14</b>	<b>218</b>	<b>6</b>	<b>186</b>	<b>5</b>		<b>178</b>	<b>5</b>	<b>155</b>	<b>4</b>	<b>182</b>	<b>5</b>	<b>187</b>	<b>5</b>	<b>170</b>	<b>4</b>	<b>177</b>	<b>4</b>
<b>Black</b>	<b>505</b>	<b>54</b>	<b>354</b>	<b>38</b>	<b>186</b>	<b>20</b>	<b>139</b>	<b>15</b>		<b>155</b>	<b>17</b>	<b>150</b>	<b>16</b>	<b>170</b>	<b>18</b>	<b>148</b>	<b>16</b>	<b>145</b>	<b>16</b>	<b>136</b>	<b>14</b>
<b>Asian/Pacific Islander</b>	<b>45</b>	<b>4</b>	<b>35</b>	<b>3</b>	<b>12</b>	<b>--</b>	<b>8</b>	<b>--</b>		<b>12</b>	<b>--</b>	<b>8</b>	<b>--</b>	<b>9</b>	<b>--</b>	<b>14</b>	<b>--</b>	<b>10</b>	<b>--</b>	<b>7</b>	<b>--</b>
<b>Males</b>																					
<b>White</b>	<b>1,059</b>	<b>58</b>	<b>592</b>	<b>33</b>	<b>245</b>	<b>14</b>	<b>205</b>	<b>12</b>		<b>212</b>	<b>12</b>	<b>172</b>	<b>10</b>	<b>180</b>	<b>10</b>	<b>140</b>	<b>8</b>	<b>161</b>	<b>9</b>	<b>159</b>	<b>9</b>
<b>Hispanic</b>	<b>629</b>	<b>38</b>	<b>436</b>	<b>25</b>	<b>186</b>	<b>11</b>	<b>155</b>	<b>9</b>		<b>164</b>	<b>9</b>	<b>140</b>	<b>8</b>	<b>156</b>	<b>9</b>	<b>165</b>	<b>8</b>	<b>143</b>	<b>8</b>	<b>159</b>	<b>8</b>
<b>Black</b>	<b>428</b>	<b>101</b>	<b>303</b>	<b>72</b>	<b>152</b>	<b>36</b>	<b>100</b>	<b>24</b>		<b>120</b>	<b>29</b>	<b>118</b>	<b>29</b>	<b>138</b>	<b>33</b>	<b>109</b>	<b>26</b>	<b>121</b>	<b>29</b>	<b>109</b>	<b>25</b>
<b>Asian/Pacific Islander</b>	<b>41</b>	<b>8</b>	<b>33</b>	<b>6</b>	<b>11</b>	<b>--</b>	<b>7</b>	<b>--</b>		<b>10</b>	<b>--</b>	<b>7</b>	<b>--</b>	<b>9</b>	<b>--</b>	<b>12</b>	<b>--</b>	<b>9</b>	<b>--</b>	<b>6</b>	<b>--</b>
<b>Females</b>																					
<b>White</b>	<b>40</b>	<b>2</b>	<b>32</b>	<b>2</b>	<b>17</b>	<b>--</b>	<b>13</b>	<b>--</b>		<b>24</b>	<b>1</b>	<b>15</b>	<b>--</b>	<b>15</b>	<b>--</b>	<b>11</b>	<b>--</b>	<b>6</b>	<b>--</b>	<b>15</b>	<b>--</b>
<b>Hispanic</b>	<b>57</b>	<b>4</b>	<b>54</b>	<b>3</b>	<b>32</b>	<b>2</b>	<b>31</b>	<b>2</b>		<b>14</b>	<b>--</b>	<b>15</b>	<b>--</b>	<b>26</b>	<b>1</b>	<b>22</b>	<b>1</b>	<b>27</b>	<b>1</b>	<b>18</b>	<b>--</b>
<b>Black</b>	<b>77</b>	<b>15</b>	<b>51</b>	<b>10</b>	<b>34</b>	<b>7</b>	<b>39</b>	<b>8</b>		<b>35</b>	<b>7</b>	<b>32</b>	<b>6</b>	<b>32</b>	<b>6</b>	<b>39</b>	<b>8</b>	<b>24</b>	<b>5</b>	<b>27</b>	<b>5</b>
<b>Asian/Pacific Islander</b>	<b>4</b>	<b>--</b>	<b>2</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>--</b>		<b>2</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>1</b>	<b>--</b>
<b>SPA 1: Antelope Valley</b>	<b>25</b>	<b>8</b>	<b>23</b>	<b>8</b>	<b>15</b>	<b>--</b>	<b>14</b>	<b>--</b>		<b>8</b>	<b>--</b>	<b>9</b>	<b>--</b>	<b>19</b>	<b>--</b>	<b>11</b>	<b>--</b>	<b>10</b>	<b>--</b>	<b>4</b>	<b>--</b>
<b>SPA 2: San Fernando</b>	<b>335</b>	<b>18</b>	<b>224</b>	<b>12</b>	<b>83</b>	<b>4</b>	<b>85</b>	<b>4</b>		<b>80</b>	<b>4</b>	<b>63</b>	<b>3</b>	<b>74</b>	<b>4</b>	<b>68</b>	<b>3</b>	<b>53</b>	<b>3</b>	<b>67</b>	<b>3</b>
<b>SPA 3: San Gabriel</b>	<b>242</b>	<b>15</b>	<b>129</b>	<b>8</b>	<b>81</b>	<b>5</b>	<b>62</b>	<b>4</b>		<b>62</b>	<b>4</b>	<b>45</b>	<b>3</b>	<b>47</b>	<b>3</b>	<b>51</b>	<b>3</b>	<b>39</b>	<b>2</b>	<b>49</b>	<b>3</b>
<b>SPA 4: Metro</b>	<b>830</b>	<b>77</b>	<b>502</b>	<b>45</b>	<b>211</b>	<b>19</b>	<b>184</b>	<b>17</b>		<b>183</b>	<b>17</b>	<b>171</b>	<b>16</b>	<b>155</b>	<b>14</b>	<b>133</b>	<b>12</b>	<b>167</b>	<b>14</b>	<b>133</b>	<b>11</b>
<b>SPA 5: West</b>	<b>134</b>	<b>20</b>	<b>75</b>	<b>11</b>	<b>33</b>	<b>5</b>	<b>17</b>	<b>--</b>		<b>22</b>	<b>3</b>	<b>16</b>	<b>--</b>	<b>19</b>	<b>--</b>	<b>16</b>	<b>--</b>	<b>20</b>	<b>3</b>	<b>23</b>	<b>3</b>
<b>SPA 6: South</b>	<b>276</b>	<b>35</b>	<b>179</b>	<b>23</b>	<b>94</b>	<b>12</b>	<b>67</b>	<b>8</b>		<b>85</b>	<b>12</b>	<b>83</b>	<b>11</b>	<b>90</b>	<b>11</b>	<b>87</b>	<b>10</b>	<b>96</b>	<b>11</b>	<b>106</b>	<b>12</b>
<b>SPA 7: East</b>	<b>168</b>	<b>14</b>	<b>125</b>	<b>11</b>	<b>45</b>	<b>4</b>	<b>48</b>	<b>4</b>		<b>43</b>	<b>4</b>	<b>32</b>	<b>3</b>	<b>42</b>	<b>4</b>	<b>42</b>	<b>3</b>	<b>38</b>	<b>3</b>	<b>35</b>	<b>3</b>
<b>SPA 8: South Bay</b>	<b>316</b>	<b>22</b>	<b>240</b>	<b>16</b>	<b>115</b>	<b>8</b>	<b>74</b>	<b>5</b>		<b>91</b>	<b>6</b>	<b>83</b>	<b>6</b>	<b>97</b>	<b>6</b>	<b>85</b>	<b>5</b>	<b>67</b>	<b>4</b>	<b>71</b>	<b>4</b>

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

--Number of deaths is too small to calculate a reliable rate.

# Homicide *at a glance*

Number **2** cause of premature death

Number **10** cause of death

*Homicide has been the second leading cause of premature death every year for the past ten years. In 2004, homicide was the leading cause of premature death for blacks, Hispanics, and among those in the South Service Planning Area. It was also the leading cause of death for 15-44 year-olds. The death rate from homicide was highest for black men. From 1995 to 1999, the death rate from homicide decreased 47% from 17 per 100,000 to 9 per 100,000 but has remained relatively stable during the past five years.*

## ***In simple terms . . .***

Homicide is the killing of one person by another, including acts of terrorism. Some homicides are committed in self-defense, but the majority of homicides do not involve self-defense. Homicide may be committed with a weapon such as a gun or knife, or may result from means including strangulation, drowning, poisoning, burning, pushing the victim from a high place, neglect, abandonment, or abuse. Deaths from injuries caused by law enforcement officers or military in the line of duty are not included in this category.

## ***Risk factors***

Intimate partner violence, poor access to quality education, lack of employment opportunities, youths with excessive unstructured free time, alcohol and substance abuse, witnessing and experiencing violence, access to firearms.

## ***Community opportunities for prevention***

- Create social norms that promote healthy relationships
- Develop after-school programs for children and adolescents
- Support nurse home visitation programs for teenage parents
- Support community policing
- Make substance abuse treatment services widely available
- Build communities that discourage street violence with well-lit streets and plenty of pedestrian traffic

## ***Individual opportunities for prevention***

- Maintain respectful relationships with family and friends
- Pursue a good education
- Seek help for substance abuse
- Recognize that easy access to firearms is a risk for homicide
- If firearms are kept in the home, store them unloaded and locked with the ammunition locked separately

## ***Los Angeles County deaths***

1,069

## ***Los Angeles County death rate***

10.2 deaths per 100,000 population

## ***Healthy People 2010 Objective 15-32***

2.8 deaths per 100,000 population

## ***ICD-9 codes***

E960-E969

## ***ICD-10 codes***

X85-Y09, Y87.1

## ***Resources***

National Youth Violence Prevention Resource Center at [WWW.SAFEYOUTH.ORG](http://WWW.SAFEYOUTH.ORG)  
CDC National Center for Injury Prevention and Control at [WWW.CDC.GOV/NCIPC/DVP/DVP.HTM](http://WWW.CDC.GOV/NCIPC/DVP/DVP.HTM)

*Mortality in Los Angeles County 2004*  
**Trends in homicide mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>1,716</b>	<b>17</b>	<b>1,449</b>	<b>15</b>	<b>1,232</b>	<b>12</b>	<b>984</b>	<b>10</b>	<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>	<b>896</b>	<b>9</b>	<b>992</b>	<b>10</b>	<b>1,099</b>	<b>11</b>	<b>1,148</b>	<b>11</b>	<b>1,066</b>	<b>10</b>	<b>1,069</b>	<b>10</b>
<b>Males</b>	<b>1,494</b>	<b>29</b>	<b>1,233</b>	<b>24</b>	<b>1,079</b>	<b>21</b>	<b>826</b>	<b>16</b>		<b>751</b>	<b>15</b>	<b>847</b>	<b>17</b>	<b>937</b>	<b>18</b>	<b>990</b>	<b>19</b>	<b>931</b>	<b>18</b>	<b>940</b>	<b>18</b>
<b>Females</b>	<b>222</b>	<b>5</b>	<b>216</b>	<b>5</b>	<b>153</b>	<b>3</b>	<b>158</b>	<b>3</b>		<b>145</b>	<b>3</b>	<b>145</b>	<b>3</b>	<b>162</b>	<b>3</b>	<b>158</b>	<b>3</b>	<b>135</b>	<b>3</b>	<b>129</b>	<b>2</b>
<b>White</b>	<b>223</b>	<b>7</b>	<b>197</b>	<b>6</b>	<b>171</b>	<b>5</b>	<b>141</b>	<b>4</b>		<b>101</b>	<b>3</b>	<b>127</b>	<b>4</b>	<b>142</b>	<b>5</b>	<b>133</b>	<b>4</b>	<b>119</b>	<b>4</b>	<b>105</b>	<b>4</b>
<b>Hispanic</b>	<b>900</b>	<b>20</b>	<b>721</b>	<b>16</b>	<b>624</b>	<b>14</b>	<b>498</b>	<b>10</b>		<b>465</b>	<b>10</b>	<b>486</b>	<b>10</b>	<b>527</b>	<b>10</b>	<b>567</b>	<b>11</b>	<b>520</b>	<b>10</b>	<b>531</b>	<b>10</b>
<b>Black</b>	<b>503</b>	<b>51</b>	<b>452</b>	<b>46</b>	<b>379</b>	<b>39</b>	<b>296</b>	<b>31</b>		<b>276</b>	<b>29</b>	<b>343</b>	<b>36</b>	<b>361</b>	<b>38</b>	<b>393</b>	<b>41</b>	<b>369</b>	<b>38</b>	<b>388</b>	<b>38</b>
<b>Asian/Pacific Islander</b>	<b>86</b>	<b>8</b>	<b>73</b>	<b>6</b>	<b>48</b>	<b>4</b>	<b>45</b>	<b>4</b>		<b>53</b>	<b>4</b>	<b>35</b>	<b>3</b>	<b>47</b>	<b>4</b>	<b>51</b>	<b>4</b>	<b>57</b>	<b>4</b>	<b>42</b>	<b>3</b>
<b>Males</b>																					
<b>White</b>	<b>175</b>	<b>10</b>	<b>139</b>	<b>8</b>	<b>135</b>	<b>8</b>	<b>97</b>	<b>6</b>		<b>72</b>	<b>5</b>	<b>86</b>	<b>6</b>	<b>97</b>	<b>6</b>	<b>98</b>	<b>6</b>	<b>93</b>	<b>6</b>	<b>77</b>	<b>5</b>
<b>Hispanic</b>	<b>808</b>	<b>34</b>	<b>656</b>	<b>27</b>	<b>569</b>	<b>24</b>	<b>441</b>	<b>18</b>		<b>411</b>	<b>17</b>	<b>437</b>	<b>18</b>	<b>473</b>	<b>18</b>	<b>501</b>	<b>18</b>	<b>471</b>	<b>18</b>	<b>481</b>	<b>18</b>
<b>Black</b>	<b>436</b>	<b>94</b>	<b>378</b>	<b>81</b>	<b>329</b>	<b>71</b>	<b>246</b>	<b>55</b>		<b>230</b>	<b>52</b>	<b>302</b>	<b>68</b>	<b>315</b>	<b>70</b>	<b>352</b>	<b>78</b>	<b>324</b>	<b>72</b>	<b>348</b>	<b>73</b>
<b>Asian/Pacific Islander</b>	<b>71</b>	<b>13</b>	<b>55</b>	<b>10</b>	<b>39</b>	<b>7</b>	<b>38</b>	<b>7</b>		<b>37</b>	<b>6</b>	<b>22</b>	<b>4</b>	<b>37</b>	<b>6</b>	<b>36</b>	<b>6</b>	<b>42</b>	<b>6</b>	<b>33</b>	<b>5</b>
<b>Females</b>																					
<b>White</b>	<b>48</b>	<b>3</b>	<b>58</b>	<b>4</b>	<b>36</b>	<b>2</b>	<b>44</b>	<b>3</b>		<b>29</b>	<b>2</b>	<b>41</b>	<b>3</b>	<b>45</b>	<b>3</b>	<b>35</b>	<b>2</b>	<b>26</b>	<b>1</b>	<b>28</b>	<b>2</b>
<b>Hispanic</b>	<b>92</b>	<b>5</b>	<b>65</b>	<b>3</b>	<b>55</b>	<b>3</b>	<b>57</b>	<b>2</b>		<b>54</b>	<b>3</b>	<b>49</b>	<b>2</b>	<b>54</b>	<b>2</b>	<b>66</b>	<b>3</b>	<b>49</b>	<b>2</b>	<b>50</b>	<b>2</b>
<b>Black</b>	<b>67</b>	<b>13</b>	<b>74</b>	<b>14</b>	<b>50</b>	<b>10</b>	<b>50</b>	<b>10</b>		<b>46</b>	<b>9</b>	<b>41</b>	<b>8</b>	<b>46</b>	<b>9</b>	<b>41</b>	<b>8</b>	<b>45</b>	<b>9</b>	<b>40</b>	<b>8</b>
<b>Asian/Pacific Islander</b>	<b>15</b>	<b>--</b>	<b>18</b>	<b>--</b>	<b>9</b>	<b>--</b>	<b>7</b>	<b>--</b>		<b>16</b>	<b>--</b>	<b>13</b>	<b>--</b>	<b>10</b>	<b>--</b>	<b>15</b>	<b>--</b>	<b>15</b>	<b>--</b>	<b>9</b>	<b>--</b>
<b>SPA 1: Antelope Valley</b>	<b>32</b>	<b>11</b>	<b>34</b>	<b>12</b>	<b>25</b>	<b>9</b>	<b>22</b>	<b>7</b>		<b>16</b>	<b>--</b>	<b>18</b>	<b>--</b>	<b>21</b>	<b>7</b>	<b>27</b>	<b>8</b>	<b>36</b>	<b>11</b>	<b>33</b>	<b>10</b>
<b>SPA 2: San Fernando</b>	<b>152</b>	<b>8</b>	<b>131</b>	<b>7</b>	<b>125</b>	<b>6</b>	<b>107</b>	<b>5</b>		<b>101</b>	<b>5</b>	<b>99</b>	<b>5</b>	<b>142</b>	<b>7</b>	<b>139</b>	<b>7</b>	<b>120</b>	<b>6</b>	<b>101</b>	<b>5</b>
<b>SPA 3: San Gabriel</b>	<b>220</b>	<b>12</b>	<b>157</b>	<b>9</b>	<b>143</b>	<b>8</b>	<b>112</b>	<b>6</b>		<b>112</b>	<b>6</b>	<b>97</b>	<b>5</b>	<b>114</b>	<b>6</b>	<b>111</b>	<b>6</b>	<b>106</b>	<b>6</b>	<b>131</b>	<b>7</b>
<b>SPA 4: Metro</b>	<b>277</b>	<b>21</b>	<b>210</b>	<b>17</b>	<b>179</b>	<b>14</b>	<b>116</b>	<b>10</b>		<b>110</b>	<b>9</b>	<b>132</b>	<b>11</b>	<b>140</b>	<b>12</b>	<b>145</b>	<b>12</b>	<b>126</b>	<b>10</b>	<b>115</b>	<b>9</b>
<b>SPA 5: West</b>	<b>44</b>	<b>7</b>	<b>53</b>	<b>8</b>	<b>32</b>	<b>5</b>	<b>32</b>	<b>5</b>	<b>20</b>	<b>3</b>	<b>22</b>	<b>3</b>	<b>43</b>	<b>6</b>	<b>38</b>	<b>6</b>	<b>24</b>	<b>4</b>	<b>24</b>	<b>4</b>	
<b>SPA 6: South</b>	<b>513</b>	<b>51</b>	<b>438</b>	<b>43</b>	<b>314</b>	<b>31</b>	<b>258</b>	<b>26</b>	<b>268</b>	<b>26</b>	<b>311</b>	<b>31</b>	<b>337</b>	<b>32</b>	<b>355</b>	<b>34</b>	<b>315</b>	<b>29</b>	<b>356</b>	<b>32</b>	
<b>SPA 7: East</b>	<b>217</b>	<b>16</b>	<b>172</b>	<b>13</b>	<b>161</b>	<b>12</b>	<b>146</b>	<b>11</b>	<b>112</b>	<b>8</b>	<b>106</b>	<b>8</b>	<b>107</b>	<b>8</b>	<b>129</b>	<b>9</b>	<b>117</b>	<b>8</b>	<b>108</b>	<b>7</b>	
<b>SPA 8: South Bay</b>	<b>226</b>	<b>15</b>	<b>229</b>	<b>15</b>	<b>221</b>	<b>14</b>	<b>182</b>	<b>12</b>	<b>144</b>	<b>10</b>	<b>193</b>	<b>13</b>	<b>175</b>	<b>11</b>	<b>190</b>	<b>12</b>	<b>192</b>	<b>12</b>	<b>177</b>	<b>11</b>	

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

--Number of deaths is too small to calculate a reliable rate.

## Liver disease at a glance

Number 6 cause of premature death

Number 11 cause of death

*Liver disease was a leading cause of death from 1997 to 2002, and a leading cause of premature death each year since 1995. The death rate from liver disease has changed very little since 1995. Death rates from liver disease have consistently been higher for men than for women, with Hispanic men having the highest rates overall. In 2004, liver disease was the fifth leading cause of death and the fourth leading cause of premature death for Hispanic men.*

### ***In simple terms . . .***

The liver stores vitamins and nutrients from food. It also breaks down toxic substances from the blood, and removes waste products from the body. When normal liver cells are damaged they are replaced by scar tissue. The scar tissue interferes with the flow of blood through the liver and prevents the liver from carrying out its normal functions. Damage from scarring of the liver cannot be reversed.

Damage to the liver can happen in at least two different ways. Cirrhosis is a scarring of liver tissue while chronic hepatitis is a prolonged swelling and irritation of the liver. Viral infections as well as non-viral causes such as autoimmune diseases, alcoholism, and exposure to certain drugs or environmental toxins can lead to these two types of liver disease.

### ***Risk factors***

Excessive alcohol consumption, prolonged exposure to certain chemicals and medications, viral hepatitis infection.

### ***Community opportunities for prevention***

- Provide access to alcohol treatment programs
- Promote hepatitis B vaccination for groups at high-risk
- Promote screening for hepatitis C

### ***Individual opportunities for prevention***

- Limit alcohol intake
- Follow manufacturer's instructions when using household and industrial chemicals
- Follow doctor's instructions when taking prescription and non-prescription drugs
- Avoid behaviors that promote transmission of hepatitis B and hepatitis C such as injection drug use and unprotected sex

### ***Los Angeles County deaths***

1,035

### ***Los Angeles County death rate***

11.1 deaths per 100,000 population

### ***Healthy People 2010 Objective 26-2***

3.2 deaths per 100,000 population

### ***ICD-9 codes***

571

### ***ICD-10 codes***

K70, K73-K74

### ***Resources***

American Liver Foundation at [WWW.LIVERFOUNDATION.ORG](http://WWW.LIVERFOUNDATION.ORG)

National Digestive Diseases Information Clearinghouse at [WWW.DIGESTIVE.NIDDK.NIH.GOV](http://WWW.DIGESTIVE.NIDDK.NIH.GOV)

*Mortality in Los Angeles County 2004*  
**Trends in liver disease mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>1,014</b>	<b>13</b>	<b>1,050</b>	<b>14</b>	<b>1,041</b>	<b>13</b>	<b>1,019</b>	<b>13</b>	<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>	<b>1,047</b>	<b>13</b>	<b>1,121</b>	<b>14</b>	<b>1,010</b>	<b>12</b>	<b>1,085</b>	<b>12</b>	<b>1,053</b>	<b>12</b>	<b>1,035</b>	<b>11</b>
<b>Males</b>	<b>681</b>	<b>19</b>	<b>699</b>	<b>19</b>	<b>709</b>	<b>19</b>	<b>713</b>	<b>19</b>		<b>712</b>	<b>19</b>	<b>760</b>	<b>20</b>	<b>695</b>	<b>18</b>	<b>741</b>	<b>18</b>	<b>727</b>	<b>17</b>	<b>698</b>	<b>16</b>
<b>Females</b>	<b>333</b>	<b>8</b>	<b>351</b>	<b>8</b>	<b>332</b>	<b>8</b>	<b>306</b>	<b>7</b>		<b>335</b>	<b>8</b>	<b>361</b>	<b>8</b>	<b>315</b>	<b>7</b>	<b>344</b>	<b>7</b>	<b>326</b>	<b>7</b>	<b>337</b>	<b>7</b>
<b>White</b>	<b>495</b>	<b>13</b>	<b>482</b>	<b>13</b>	<b>477</b>	<b>13</b>	<b>424</b>	<b>11</b>		<b>471</b>	<b>13</b>	<b>461</b>	<b>12</b>	<b>416</b>	<b>11</b>	<b>432</b>	<b>11</b>	<b>403</b>	<b>10</b>	<b>428</b>	<b>11</b>
<b>Hispanic</b>	<b>375</b>	<b>19</b>	<b>414</b>	<b>20</b>	<b>425</b>	<b>20</b>	<b>452</b>	<b>20</b>		<b>423</b>	<b>19</b>	<b>499</b>	<b>22</b>	<b>458</b>	<b>18</b>	<b>504</b>	<b>18</b>	<b>498</b>	<b>18</b>	<b>458</b>	<b>16</b>
<b>Black</b>	<b>96</b>	<b>12</b>	<b>110</b>	<b>14</b>	<b>86</b>	<b>11</b>	<b>86</b>	<b>11</b>		<b>104</b>	<b>13</b>	<b>102</b>	<b>12</b>	<b>97</b>	<b>12</b>	<b>100</b>	<b>12</b>	<b>92</b>	<b>11</b>	<b>98</b>	<b>11</b>
<b>Asian/Pacific Islander</b>	<b>39</b>	<b>5</b>	<b>40</b>	<b>4</b>	<b>46</b>	<b>5</b>	<b>45</b>	<b>4</b>		<b>41</b>	<b>4</b>	<b>46</b>	<b>4</b>	<b>32</b>	<b>3</b>	<b>39</b>	<b>3</b>	<b>42</b>	<b>3</b>	<b>46</b>	<b>3</b>
<b>Males</b>																					
<b>White</b>	<b>312</b>	<b>17</b>	<b>302</b>	<b>17</b>	<b>312</b>	<b>18</b>	<b>280</b>	<b>16</b>		<b>296</b>	<b>17</b>	<b>298</b>	<b>17</b>	<b>265</b>	<b>15</b>	<b>277</b>	<b>15</b>	<b>253</b>	<b>14</b>	<b>295</b>	<b>16</b>
<b>Hispanic</b>	<b>281</b>	<b>29</b>	<b>301</b>	<b>31</b>	<b>316</b>	<b>31</b>	<b>343</b>	<b>32</b>		<b>319</b>	<b>30</b>	<b>361</b>	<b>33</b>	<b>343</b>	<b>29</b>	<b>381</b>	<b>29</b>	<b>377</b>	<b>28</b>	<b>308</b>	<b>22</b>
<b>Black</b>	<b>60</b>	<b>17</b>	<b>70</b>	<b>19</b>	<b>52</b>	<b>15</b>	<b>57</b>	<b>16</b>		<b>68</b>	<b>20</b>	<b>64</b>	<b>17</b>	<b>63</b>	<b>17</b>	<b>51</b>	<b>14</b>	<b>62</b>	<b>16</b>	<b>62</b>	<b>16</b>
<b>Asian/Pacific Islander</b>	<b>23</b>	<b>6</b>	<b>23</b>	<b>5</b>	<b>26</b>	<b>6</b>	<b>27</b>	<b>6</b>		<b>23</b>	<b>5</b>	<b>30</b>	<b>6</b>	<b>19</b>	<b>4</b>	<b>25</b>	<b>5</b>	<b>26</b>	<b>4</b>	<b>29</b>	<b>5</b>
<b>Females</b>																					
<b>White</b>	<b>183</b>	<b>9</b>	<b>180</b>	<b>9</b>	<b>165</b>	<b>8</b>	<b>144</b>	<b>7</b>		<b>175</b>	<b>9</b>	<b>163</b>	<b>8</b>	<b>151</b>	<b>8</b>	<b>155</b>	<b>8</b>	<b>150</b>	<b>7</b>	<b>133</b>	<b>6</b>
<b>Hispanic</b>	<b>94</b>	<b>10</b>	<b>113</b>	<b>11</b>	<b>109</b>	<b>11</b>	<b>109</b>	<b>10</b>		<b>104</b>	<b>10</b>	<b>138</b>	<b>12</b>	<b>115</b>	<b>9</b>	<b>123</b>	<b>9</b>	<b>121</b>	<b>9</b>	<b>150</b>	<b>11</b>
<b>Black</b>	<b>36</b>	<b>8</b>	<b>40</b>	<b>9</b>	<b>34</b>	<b>7</b>	<b>29</b>	<b>6</b>		<b>36</b>	<b>8</b>	<b>38</b>	<b>8</b>	<b>34</b>	<b>7</b>	<b>49</b>	<b>10</b>	<b>30</b>	<b>6</b>	<b>36</b>	<b>7</b>
<b>Asian/Pacific Islander</b>	<b>16</b>	<b>--</b>	<b>17</b>	<b>--</b>	<b>20</b>	<b>4</b>	<b>18</b>	<b>--</b>		<b>18</b>	<b>--</b>	<b>16</b>	<b>--</b>	<b>13</b>	<b>--</b>	<b>14</b>	<b>--</b>	<b>16</b>	<b>--</b>	<b>17</b>	<b>--</b>
SPA 1: Antelope Valley	22	11	29	14	36	15	29	12		30	12	40	16	40	15	35	13	48	17	40	13
SPA 2: San Fernando	177	11	169	10	165	10	157	9		174	10	187	10	144	8	168	9	180	9	190	9
SPA 3: San Gabriel	181	13	202	14	204	14	164	11		190	13	191	12	187	12	178	11	177	10	173	10
SPA 4: Metro	149	16	136	15	149	16	159	17		138	15	151	16	136	14	159	15	134	12	131	12
SPA 5: West	58	9	62	10	54	9	49	8	54	9	56	9	45	7	55	8	55	8	40	6	
SPA 6: South	118	18	122	19	115	18	102	16	106	17	117	18	110	17	119	17	106	15	118	16	
SPA 7: East	155	16	172	18	160	16	189	19	174	18	197	19	161	15	185	17	177	16	173	15	
SPA 8: South Bay	139	11	148	12	144	11	162	13	174	13	165	12	154	11	162	11	155	11	139	9	

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

--Number of deaths is too small to calculate a reliable rate.

## Lung cancer *at a glance*

Number **5** cause of premature death

Number **3** cause of death

*Lung cancer has been the third leading cause of death for eight of the past ten years, and one of the leading causes of premature death for each of the last ten years. Since 1995, death rates from lung cancer have decreased 26% from 47 deaths per 100,000 in 1995 to 35 deaths per 100,000 in 2004. The death rates were highest for black men.*

### ***In simple terms . . .***

Cancer is the result of abnormal growth of the cells in a part of the body. Normal body cells grow, divide, and die. Cancer cells grow and divide as do normal cells, but they outlive normal cells and continue to form new abnormal cells. The abnormal cells begin to replace normal tissue. Cancer cells develop because of damage to DNA. DNA can be damaged by something in the environment, or damaged DNA can be inherited. Most of the time, when DNA becomes damaged the body is able to repair it. In cancer cells, the damaged DNA is not repaired. Most lung cancers start in the lining of the tubes called the bronchi.

### ***Risk factors***

Cigarette smoking and breathing the smoke of others, exposure to cancer-causing substances including radon, asbestos, uranium, and arsenic, prior lung cancer.

### ***Community opportunities for prevention***

- Restrict smoking in public places and worksites
- Provide access to smoking cessation programs
- Encourage people to quit smoking through media campaigns

### ***Individual opportunities for prevention***

- Stop smoking
- Avoid people who smoke
- Reduce exposure to cancer-causing substances

### ***Los Angeles County deaths***

3,034

### ***Los Angeles County death rate***

35.2 deaths per 100,000 population

### ***Healthy People 2010 Objective 3-2***

43.3 deaths per 100,000 population

### ***ICD-9 codes***

162

### ***ICD-10 codes***

C33-C34

### ***Resources***

American Cancer Society at [WWW.CANCER.ORG](http://WWW.CANCER.ORG)

The Guide to Community Preventive Services at [WWW.THECOMMUNITYGUIDE.ORG](http://WWW.THECOMMUNITYGUIDE.ORG)

National Cancer Institute at [WWW.CANCER.GOV](http://WWW.CANCER.GOV)



*Mortality in Los Angeles County 2004*  
**Trends in lung cancer mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>3,372</b>	<b>47</b>	<b>3,302</b>	<b>46</b>	<b>3,316</b>	<b>46</b>	<b>3,150</b>	<b>43</b>	<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>	<b>3,243</b>	<b>44</b>	<b>3,150</b>	<b>41</b>	<b>3,232</b>	<b>41</b>	<b>3,081</b>	<b>38</b>	<b>3,150</b>	<b>38</b>	<b>3,034</b>	<b>35</b>
<b>Males</b>	<b>1,930</b>	<b>64</b>	<b>1,847</b>	<b>61</b>	<b>1,880</b>	<b>61</b>	<b>1,722</b>	<b>55</b>		<b>1,814</b>	<b>58</b>	<b>1,765</b>	<b>54</b>	<b>1,797</b>	<b>55</b>	<b>1,702</b>	<b>50</b>	<b>1,713</b>	<b>48</b>	<b>1,710</b>	<b>47</b>
<b>Females</b>	<b>1,442</b>	<b>35</b>	<b>1,455</b>	<b>35</b>	<b>1,436</b>	<b>34</b>	<b>1,428</b>	<b>34</b>		<b>1,429</b>	<b>34</b>	<b>1,385</b>	<b>31</b>	<b>1,435</b>	<b>32</b>	<b>1,379</b>	<b>30</b>	<b>1,437</b>	<b>30</b>	<b>1,324</b>	<b>27</b>
<b>White</b>	<b>2,413</b>	<b>59</b>	<b>2,231</b>	<b>54</b>	<b>2,227</b>	<b>55</b>	<b>2,104</b>	<b>52</b>		<b>2,082</b>	<b>52</b>	<b>2,018</b>	<b>49</b>	<b>2,039</b>	<b>50</b>	<b>1,950</b>	<b>48</b>	<b>1,942</b>	<b>47</b>	<b>1,825</b>	<b>43</b>
<b>Hispanic</b>	<b>270</b>	<b>20</b>	<b>317</b>	<b>22</b>	<b>300</b>	<b>20</b>	<b>323</b>	<b>21</b>		<b>347</b>	<b>22</b>	<b>341</b>	<b>20</b>	<b>348</b>	<b>18</b>	<b>363</b>	<b>19</b>	<b>381</b>	<b>18</b>	<b>366</b>	<b>18</b>
<b>Black</b>	<b>468</b>	<b>64</b>	<b>506</b>	<b>70</b>	<b>526</b>	<b>72</b>	<b>463</b>	<b>62</b>		<b>494</b>	<b>67</b>	<b>476</b>	<b>62</b>	<b>482</b>	<b>64</b>	<b>455</b>	<b>59</b>	<b>451</b>	<b>58</b>	<b>452</b>	<b>54</b>
<b>Asian/Pacific Islander</b>	<b>219</b>	<b>27</b>	<b>243</b>	<b>29</b>	<b>252</b>	<b>29</b>	<b>256</b>	<b>28</b>		<b>314</b>	<b>32</b>	<b>308</b>	<b>30</b>	<b>356</b>	<b>34</b>	<b>306</b>	<b>27</b>	<b>367</b>	<b>30</b>	<b>379</b>	<b>28</b>
<b>Males</b>																					
<b>White</b>	<b>1,322</b>	<b>75</b>	<b>1,172</b>	<b>67</b>	<b>1,185</b>	<b>67</b>	<b>1,074</b>	<b>62</b>		<b>1,082</b>	<b>62</b>	<b>1,079</b>	<b>60</b>	<b>1,056</b>	<b>61</b>	<b>1,034</b>	<b>58</b>	<b>989</b>	<b>55</b>	<b>974</b>	<b>52</b>
<b>Hispanic</b>	<b>178</b>	<b>32</b>	<b>194</b>	<b>33</b>	<b>179</b>	<b>30</b>	<b>207</b>	<b>32</b>		<b>220</b>	<b>35</b>	<b>211</b>	<b>31</b>	<b>219</b>	<b>29</b>	<b>217</b>	<b>28</b>	<b>237</b>	<b>26</b>	<b>231</b>	<b>28</b>
<b>Black</b>	<b>291</b>	<b>100</b>	<b>336</b>	<b>113</b>	<b>341</b>	<b>115</b>	<b>278</b>	<b>90</b>		<b>293</b>	<b>99</b>	<b>271</b>	<b>86</b>	<b>289</b>	<b>97</b>	<b>258</b>	<b>83</b>	<b>267</b>	<b>85</b>	<b>263</b>	<b>77</b>
<b>Asian/Pacific Islander</b>	<b>139</b>	<b>40</b>	<b>143</b>	<b>39</b>	<b>169</b>	<b>45</b>	<b>161</b>	<b>39</b>		<b>217</b>	<b>51</b>	<b>201</b>	<b>45</b>	<b>229</b>	<b>51</b>	<b>188</b>	<b>38</b>	<b>215</b>	<b>41</b>	<b>235</b>	<b>41</b>
<b>Females</b>																					
<b>White</b>	<b>1,091</b>	<b>47</b>	<b>1,059</b>	<b>46</b>	<b>1,042</b>	<b>45</b>	<b>1,030</b>	<b>45</b>		<b>1,000</b>	<b>44</b>	<b>939</b>	<b>40</b>	<b>983</b>	<b>43</b>	<b>916</b>	<b>40</b>	<b>953</b>	<b>40</b>	<b>851</b>	<b>35</b>
<b>Hispanic</b>	<b>92</b>	<b>12</b>	<b>123</b>	<b>15</b>	<b>121</b>	<b>14</b>	<b>116</b>	<b>13</b>		<b>127</b>	<b>13</b>	<b>130</b>	<b>13</b>	<b>129</b>	<b>12</b>	<b>146</b>	<b>13</b>	<b>144</b>	<b>12</b>	<b>135</b>	<b>11</b>
<b>Black</b>	<b>177</b>	<b>42</b>	<b>170</b>	<b>40</b>	<b>185</b>	<b>43</b>	<b>185</b>	<b>42</b>		<b>201</b>	<b>46</b>	<b>205</b>	<b>46</b>	<b>193</b>	<b>44</b>	<b>197</b>	<b>43</b>	<b>184</b>	<b>40</b>	<b>189</b>	<b>38</b>
<b>Asian/Pacific Islander</b>	<b>80</b>	<b>18</b>	<b>100</b>	<b>22</b>	<b>83</b>	<b>17</b>	<b>95</b>	<b>19</b>		<b>97</b>	<b>18</b>	<b>107</b>	<b>18</b>	<b>127</b>	<b>21</b>	<b>118</b>	<b>19</b>	<b>152</b>	<b>22</b>	<b>144</b>	<b>19</b>
<b>SPA 1: Antelope Valley</b>	<b>104</b>	<b>58</b>	<b>99</b>	<b>54</b>	<b>124</b>	<b>65</b>	<b>117</b>	<b>60</b>		<b>117</b>	<b>56</b>	<b>119</b>	<b>57</b>	<b>117</b>	<b>55</b>	<b>109</b>	<b>48</b>	<b>120</b>	<b>52</b>	<b>114</b>	<b>47</b>
<b>SPA 2: San Fernando</b>	<b>701</b>	<b>46</b>	<b>693</b>	<b>45</b>	<b>702</b>	<b>45</b>	<b>688</b>	<b>43</b>		<b>718</b>	<b>44</b>	<b>657</b>	<b>39</b>	<b>710</b>	<b>42</b>	<b>665</b>	<b>38</b>	<b>695</b>	<b>38</b>	<b>643</b>	<b>35</b>
<b>SPA 3: San Gabriel</b>	<b>574</b>	<b>42</b>	<b>552</b>	<b>40</b>	<b>568</b>	<b>41</b>	<b>528</b>	<b>37</b>		<b>535</b>	<b>37</b>	<b>554</b>	<b>37</b>	<b>597</b>	<b>39</b>	<b>544</b>	<b>34</b>	<b>563</b>	<b>35</b>	<b>531</b>	<b>32</b>
<b>SPA 4: Metro</b>	<b>325</b>	<b>38</b>	<b>336</b>	<b>39</b>	<b>336</b>	<b>39</b>	<b>291</b>	<b>33</b>		<b>313</b>	<b>36</b>	<b>316</b>	<b>35</b>	<b>318</b>	<b>35</b>	<b>294</b>	<b>31</b>	<b>313</b>	<b>32</b>	<b>290</b>	<b>28</b>
<b>SPA 5: West</b>	<b>284</b>	<b>46</b>	<b>255</b>	<b>41</b>	<b>251</b>	<b>40</b>	<b>242</b>	<b>38</b>		<b>250</b>	<b>39</b>	<b>230</b>	<b>35</b>	<b>236</b>	<b>36</b>	<b>255</b>	<b>37</b>	<b>216</b>	<b>31</b>	<b>222</b>	<b>31</b>
<b>SPA 6: South</b>	<b>373</b>	<b>65</b>	<b>353</b>	<b>61</b>	<b>353</b>	<b>62</b>	<b>303</b>	<b>53</b>	<b>358</b>	<b>63</b>	<b>300</b>	<b>51</b>	<b>310</b>	<b>53</b>	<b>300</b>	<b>50</b>	<b>286</b>	<b>47</b>	<b>297</b>	<b>46</b>	
<b>SPA 7: East</b>	<b>434</b>	<b>48</b>	<b>411</b>	<b>46</b>	<b>391</b>	<b>43</b>	<b>354</b>	<b>39</b>	<b>404</b>	<b>44</b>	<b>397</b>	<b>41</b>	<b>360</b>	<b>37</b>	<b>339</b>	<b>34</b>	<b>356</b>	<b>34</b>	<b>366</b>	<b>34</b>	
<b>SPA 8: South Bay</b>	<b>554</b>	<b>49</b>	<b>599</b>	<b>52</b>	<b>581</b>	<b>50</b>	<b>614</b>	<b>53</b>	<b>539</b>	<b>46</b>	<b>569</b>	<b>46</b>	<b>569</b>	<b>46</b>	<b>567</b>	<b>44</b>	<b>580</b>	<b>44</b>	<b>544</b>	<b>40</b>	

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

## Motor vehicle crash *at a glance*

Number **3** cause of premature death  
Number **12** cause of death

*Since 1997, motor vehicle crashes have been the third leading cause of premature death. In 2004, they were the leading cause of death for children 5-14 years of age, and the second leading cause of death for persons 15-44 years of age. The motor vehicle crash death rate changed little since 1995. The death rates from motor vehicle crashes have consistently been highest in the Antelope Valley Service Planning Area. In 2004, the motor vehicle crash death rates for men were approximately twice those for women.*

### ***In simple terms . . .***

Motor vehicle crashes can occur on any public roadway including streets, alleys, or highways. They also can occur in non-public areas such as parking lots or driveways. Motor vehicle crashes that occur on public roadways are referred to as traffic collisions. Any type of vehicle can be involved in a motor vehicle crash including a car, truck, bus, or motorcycle. The person injured in a motor vehicle crash may be the driver or passenger of the vehicle that caused the crash, or of the vehicle that was hit. The injured person may also be a pedestrian or bicyclist.

### ***Risk factors***

Risk factors for crashing: Driving under the influence of alcohol or drugs, driving at high speed, lack of driving experience or practice, younger or older age, hazardous road conditions, poorly maintained roads, neglecting routine car maintenance.

Risk factors for injury after a crash: Not using seat belts or other passenger safety restraints such as child safety seats, unsafe car design.

### ***Community opportunities for prevention***

- Actively enforce all traffic laws, including laws addressing seat belt use and child passenger safety
- Use media campaigns to reduce alcohol-impaired driving
- Comply with the graduated licensing system for teenage drivers
- Support national efforts for safe car design with safety features such as antilock brakes or electronic stability control systems

### ***Individual opportunities for prevention***

- Do not drive while impaired by alcohol or drugs
- Always wear seat belts, even for short trips
- Place young children in an age-appropriate, properly installed child safety seat or booster seat
- Have children younger than 12 years of age ride in the back seat
- Learn and practice pedestrian and bicycle safety

### ***Los Angeles County deaths***

947

### ***Los Angeles County death rate***

9.6 deaths per 100,000 population

### ***Healthy People 2010 Objective 15-15***

8.0 deaths per 100,000 population (rate for traffic-related deaths only)

### ***ICD-9 codes***

E810-E825

### ***ICD-10 codes***

V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

### ***Resources***

The Guide to Community Preventive Services at [WWW.THECOMMUNITYGUIDE.ORG](http://WWW.THECOMMUNITYGUIDE.ORG)  
The National Highway Traffic Safety Administration at [WWW.NHTSA.DOT.GOV](http://WWW.NHTSA.DOT.GOV)

*Mortality in Los Angeles County 2004*  
**Trends in motor vehicle crash mortality, 1995-2004**

	1995		1996		1997		1998		1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>1,095</b>	<b>12</b>	<b>996</b>	<b>11</b>	<b>885</b>	<b>10</b>	<b>782</b>	<b>9</b>	<b>751</b>	<b>8</b>	<b>811</b>	<b>9</b>	<b>890</b>	<b>9</b>	<b>851</b>	<b>9</b>	<b>967</b>	<b>10</b>	<b>947</b>	<b>10</b>
<b>Males</b>	<b>763</b>	<b>18</b>	<b>677</b>	<b>16</b>	<b>601</b>	<b>14</b>	<b>528</b>	<b>12</b>	<b>517</b>	<b>12</b>	<b>564</b>	<b>13</b>	<b>598</b>	<b>13</b>	<b>578</b>	<b>12</b>	<b>697</b>	<b>15</b>	<b>647</b>	<b>13</b>
<b>Females</b>	<b>332</b>	<b>7</b>	<b>319</b>	<b>7</b>	<b>284</b>	<b>6</b>	<b>254</b>	<b>6</b>	<b>234</b>	<b>5</b>	<b>247</b>	<b>5</b>	<b>292</b>	<b>6</b>	<b>273</b>	<b>6</b>	<b>270</b>	<b>5</b>	<b>300</b>	<b>6</b>
<b>White</b>	<b>384</b>	<b>11</b>	<b>356</b>	<b>10</b>	<b>335</b>	<b>10</b>	<b>302</b>	<b>9</b>	<b>247</b>	<b>7</b>	<b>297</b>	<b>9</b>	<b>304</b>	<b>9</b>	<b>292</b>	<b>9</b>	<b>343</b>	<b>10</b>	<b>340</b>	<b>10</b>
<b>Hispanic</b>	<b>446</b>	<b>13</b>	<b>400</b>	<b>13</b>	<b>360</b>	<b>10</b>	<b>292</b>	<b>9</b>	<b>330</b>	<b>9</b>	<b>324</b>	<b>9</b>	<b>359</b>	<b>10</b>	<b>373</b>	<b>9</b>	<b>418</b>	<b>10</b>	<b>374</b>	<b>9</b>
<b>Black</b>	<b>142</b>	<b>15</b>	<b>126</b>	<b>14</b>	<b>89</b>	<b>10</b>	<b>89</b>	<b>10</b>	<b>96</b>	<b>11</b>	<b>99</b>	<b>11</b>	<b>129</b>	<b>14</b>	<b>108</b>	<b>12</b>	<b>107</b>	<b>12</b>	<b>120</b>	<b>12</b>
<b>Asian/Pacific Islander</b>	<b>118</b>	<b>12</b>	<b>108</b>	<b>11</b>	<b>98</b>	<b>9</b>	<b>96</b>	<b>9</b>	<b>75</b>	<b>7</b>	<b>88</b>	<b>8</b>	<b>95</b>	<b>8</b>	<b>75</b>	<b>6</b>	<b>95</b>	<b>7</b>	<b>107</b>	<b>8</b>
<b>Males</b>																				
<b>White</b>	<b>266</b>	<b>16</b>	<b>241</b>	<b>14</b>	<b>220</b>	<b>13</b>	<b>205</b>	<b>12</b>	<b>172</b>	<b>11</b>	<b>205</b>	<b>13</b>	<b>216</b>	<b>14</b>	<b>190</b>	<b>12</b>	<b>246</b>	<b>15</b>	<b>218</b>	<b>14</b>
<b>Hispanic</b>	<b>321</b>	<b>19</b>	<b>281</b>	<b>18</b>	<b>258</b>	<b>15</b>	<b>204</b>	<b>13</b>	<b>237</b>	<b>13</b>	<b>241</b>	<b>13</b>	<b>242</b>	<b>13</b>	<b>270</b>	<b>13</b>	<b>317</b>	<b>14</b>	<b>270</b>	<b>13</b>
<b>Black</b>	<b>102</b>	<b>24</b>	<b>89</b>	<b>23</b>	<b>66</b>	<b>16</b>	<b>61</b>	<b>15</b>	<b>63</b>	<b>15</b>	<b>63</b>	<b>15</b>	<b>82</b>	<b>19</b>	<b>77</b>	<b>20</b>	<b>71</b>	<b>17</b>	<b>85</b>	<b>19</b>
<b>Asian/Pacific Islander</b>	<b>70</b>	<b>16</b>	<b>62</b>	<b>13</b>	<b>56</b>	<b>11</b>	<b>56</b>	<b>11</b>	<b>43</b>	<b>8</b>	<b>54</b>	<b>10</b>	<b>56</b>	<b>10</b>	<b>40</b>	<b>7</b>	<b>60</b>	<b>10</b>	<b>71</b>	<b>11</b>
<b>Females</b>																				
<b>White</b>	<b>118</b>	<b>6</b>	<b>115</b>	<b>6</b>	<b>115</b>	<b>6</b>	<b>97</b>	<b>6</b>	<b>75</b>	<b>4</b>	<b>92</b>	<b>5</b>	<b>88</b>	<b>5</b>	<b>102</b>	<b>6</b>	<b>97</b>	<b>6</b>	<b>122</b>	<b>7</b>
<b>Hispanic</b>	<b>125</b>	<b>7</b>	<b>119</b>	<b>8</b>	<b>102</b>	<b>6</b>	<b>88</b>	<b>5</b>	<b>93</b>	<b>6</b>	<b>83</b>	<b>5</b>	<b>117</b>	<b>6</b>	<b>103</b>	<b>5</b>	<b>101</b>	<b>5</b>	<b>104</b>	<b>5</b>
<b>Black</b>	<b>40</b>	<b>8</b>	<b>37</b>	<b>8</b>	<b>23</b>	<b>5</b>	<b>28</b>	<b>6</b>	<b>33</b>	<b>7</b>	<b>36</b>	<b>7</b>	<b>47</b>	<b>9</b>	<b>31</b>	<b>6</b>	<b>36</b>	<b>7</b>	<b>35</b>	<b>7</b>
<b>Asian/Pacific Islander</b>	<b>48</b>	<b>9</b>	<b>46</b>	<b>9</b>	<b>42</b>	<b>7</b>	<b>40</b>	<b>7</b>	<b>32</b>	<b>5</b>	<b>34</b>	<b>6</b>	<b>39</b>	<b>6</b>	<b>35</b>	<b>5</b>	<b>35</b>	<b>5</b>	<b>36</b>	<b>5</b>
SPA 1: Antelope Valley	71	27	65	24	41	15	68	22	49	17	45	15	64	22	69	22	71	22	83	27
SPA 2: San Fernando	233	13	185	10	200	11	169	9	151	8	167	9	196	10	172	8	203	10	180	9
SPA 3: San Gabriel	190	12	148	9	156	10	123	8	121	7	137	8	140	8	140	8	138	8	153	8
SPA 4: Metro	122	11	123	12	114	11	93	9	85	8	81	7	98	9	78	7	99	8	84	7
SPA 5: West	56	9	42	7	42	7	43	7	32	5	47	7	32	5	35	5	40	6	37	6
SPA 6: South	154	18	121	15	87	10	79	10	85	11	93	11	121	13	110	12	106	12	106	11
SPA 7: East	121	10	142	12	109	9	92	8	103	9	96	8	91	7	114	9	110	9	105	8
SPA 8: South Bay	128	9	138	10	119	8	96	7	106	8	123	9	123	8	114	8	114	8	112	7

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

# Pneumonia/influenza *at a glance*

Number **20** cause of premature death  
Number **5** cause of death

*Pneumonia/influenza has been the third, fourth, or fifth leading cause of death since 1995 but was not among the leading causes of premature death. The death rate from pneumonia/influenza has decreased since 1999. The largest decrease was among Hispanic men. For persons 75 years of age or older, pneumonia/influenza was the fourth leading cause of death in 2004.*

## ***In simple terms . . .***

Pneumonia is an inflammation of the lungs caused by an infection that can result in difficulty breathing. The infection can be caused by bacteria, viruses, or fungi. Pneumonia is a common illness that is often mild but can be quite severe, even fatal. The severity of the infection depends on the organism that caused it and the person's age and health.

Influenza, often called "the flu", is a respiratory disease caused by influenza viruses. Influenza can cause mild to severe illness that can result in death. Bacterial pneumonia can be a complication of influenza.

## ***Risk factors***

Young children and the elderly, underlying chronic medical conditions such as diabetes and asthma.

## ***Community opportunities for prevention***

- Educate the community about the need for annual influenza vaccination for high-risk individuals and one-time pneumococcal vaccination for persons 65 years of age or older
- Encourage employees with influenza to stay home when they are sick to avoid spreading the illness to others

## ***Individual opportunities for prevention***

- Get vaccinated against pneumococcal pneumonia, influenza (required annually), and *Haemophilus influenzae* type b (for children)
- Wash your hands frequently with soap and water
- Stop smoking
- Stay away from people who are sick
- Avoid touching your eyes, nose, or mouth

## ***Los Angeles County deaths***

2,272

## ***Los Angeles County death rate Healthy People 2010 Objective***

26 deaths per 100,000 population  
None

## ***ICD-9 codes***

480-487

## ***ICD-10 codes***

J10-J18

## ***Resources***

American Lung Association at [WWW.LUNGUSA.ORG](http://WWW.LUNGUSA.ORG)  
Centers for Disease Control and Prevention at [WWW.CDC.GOV/FLU](http://WWW.CDC.GOV/FLU)

*Mortality in Los Angeles County 2004*  
**Trends in pneumonia/influenza mortality, 1995-2004**

	1995		1996		1997		1998		1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>2,933</b>	<b>44</b>	<b>2,984</b>	<b>44</b>	<b>3,346</b>	<b>49</b>	<b>3,594</b>	<b>52</b>	<b>2,242</b>	<b>32</b>	<b>2,477</b>	<b>32</b>	<b>2,421</b>	<b>32</b>	<b>2,494</b>	<b>32</b>	<b>2,419</b>	<b>29</b>	<b>2,272</b>	<b>26</b>
<b>Males</b>	<b>1,264</b>	<b>53</b>	<b>1,357</b>	<b>55</b>	<b>1,473</b>	<b>58</b>	<b>1,621</b>	<b>63</b>	<b>964</b>	<b>37</b>	<b>1,063</b>	<b>37</b>	<b>1,065</b>	<b>38</b>	<b>1,155</b>	<b>40</b>	<b>1,121</b>	<b>36</b>	<b>1,013</b>	<b>31</b>
<b>Females</b>	<b>1,669</b>	<b>39</b>	<b>1,627</b>	<b>38</b>	<b>1,873</b>	<b>43</b>	<b>1,973</b>	<b>44</b>	<b>1,278</b>	<b>28</b>	<b>1,414</b>	<b>29</b>	<b>1,356</b>	<b>28</b>	<b>1,339</b>	<b>27</b>	<b>1,298</b>	<b>25</b>	<b>1,259</b>	<b>23</b>
<b>White</b>	<b>2,109</b>	<b>49</b>	<b>2,097</b>	<b>49</b>	<b>2,295</b>	<b>53</b>	<b>2,403</b>	<b>55</b>	<b>1,475</b>	<b>33</b>	<b>1,608</b>	<b>34</b>	<b>1,488</b>	<b>34</b>	<b>1,595</b>	<b>36</b>	<b>1,475</b>	<b>32</b>	<b>1,330</b>	<b>28</b>
<b>Hispanic</b>	<b>364</b>	<b>32</b>	<b>359</b>	<b>32</b>	<b>469</b>	<b>38</b>	<b>497</b>	<b>41</b>	<b>339</b>	<b>27</b>	<b>366</b>	<b>26</b>	<b>398</b>	<b>25</b>	<b>383</b>	<b>22</b>	<b>411</b>	<b>21</b>	<b>408</b>	<b>22</b>
<b>Black</b>	<b>257</b>	<b>42</b>	<b>301</b>	<b>48</b>	<b>326</b>	<b>51</b>	<b>415</b>	<b>63</b>	<b>238</b>	<b>36</b>	<b>255</b>	<b>36</b>	<b>270</b>	<b>41</b>	<b>269</b>	<b>40</b>	<b>271</b>	<b>39</b>	<b>257</b>	<b>35</b>
<b>Asian/Pacific Islander</b>	<b>197</b>	<b>33</b>	<b>221</b>	<b>35</b>	<b>247</b>	<b>35</b>	<b>272</b>	<b>37</b>	<b>189</b>	<b>25</b>	<b>239</b>	<b>28</b>	<b>259</b>	<b>29</b>	<b>236</b>	<b>24</b>	<b>250</b>	<b>23</b>	<b>265</b>	<b>21</b>
<b>Males</b>																				
<b>White</b>	<b>876</b>	<b>57</b>	<b>915</b>	<b>59</b>	<b>964</b>	<b>62</b>	<b>1,042</b>	<b>66</b>	<b>613</b>	<b>39</b>	<b>663</b>	<b>39</b>	<b>622</b>	<b>39</b>	<b>723</b>	<b>45</b>	<b>659</b>	<b>39</b>	<b>613</b>	<b>34</b>
<b>Hispanic</b>	<b>173</b>	<b>40</b>	<b>163</b>	<b>39</b>	<b>229</b>	<b>50</b>	<b>242</b>	<b>54</b>	<b>159</b>	<b>34</b>	<b>161</b>	<b>30</b>	<b>180</b>	<b>29</b>	<b>182</b>	<b>27</b>	<b>189</b>	<b>25</b>	<b>174</b>	<b>25</b>
<b>Black</b>	<b>116</b>	<b>56</b>	<b>149</b>	<b>64</b>	<b>144</b>	<b>64</b>	<b>187</b>	<b>77</b>	<b>97</b>	<b>41</b>	<b>114</b>	<b>42</b>	<b>120</b>	<b>54</b>	<b>124</b>	<b>52</b>	<b>139</b>	<b>56</b>	<b>100</b>	<b>39</b>
<b>Asian/Pacific Islander</b>	<b>98</b>	<b>39</b>	<b>125</b>	<b>47</b>	<b>132</b>	<b>45</b>	<b>149</b>	<b>48</b>	<b>94</b>	<b>30</b>	<b>119</b>	<b>33</b>	<b>140</b>	<b>39</b>	<b>120</b>	<b>30</b>	<b>130</b>	<b>29</b>	<b>118</b>	<b>23</b>
<b>Females</b>																				
<b>White</b>	<b>1,233</b>	<b>44</b>	<b>1,182</b>	<b>42</b>	<b>1,331</b>	<b>47</b>	<b>1,361</b>	<b>48</b>	<b>862</b>	<b>30</b>	<b>945</b>	<b>31</b>	<b>866</b>	<b>30</b>	<b>872</b>	<b>30</b>	<b>816</b>	<b>28</b>	<b>717</b>	<b>24</b>
<b>Hispanic</b>	<b>191</b>	<b>27</b>	<b>196</b>	<b>28</b>	<b>240</b>	<b>32</b>	<b>255</b>	<b>34</b>	<b>180</b>	<b>23</b>	<b>205</b>	<b>24</b>	<b>218</b>	<b>22</b>	<b>201</b>	<b>19</b>	<b>222</b>	<b>19</b>	<b>234</b>	<b>21</b>
<b>Black</b>	<b>141</b>	<b>36</b>	<b>152</b>	<b>38</b>	<b>182</b>	<b>44</b>	<b>228</b>	<b>54</b>	<b>141</b>	<b>33</b>	<b>141</b>	<b>31</b>	<b>150</b>	<b>35</b>	<b>145</b>	<b>33</b>	<b>132</b>	<b>30</b>	<b>157</b>	<b>33</b>
<b>Asian/Pacific Islander</b>	<b>99</b>	<b>29</b>	<b>96</b>	<b>26</b>	<b>115</b>	<b>28</b>	<b>123</b>	<b>29</b>	<b>95</b>	<b>22</b>	<b>120</b>	<b>25</b>	<b>119</b>	<b>23</b>	<b>116</b>	<b>20</b>	<b>120</b>	<b>19</b>	<b>147</b>	<b>20</b>
SPA 1: Antelope Valley	63	44	52	36	64	42	79	47	45	27	53	30	61	34	69	37	72	36	50	23
SPA 2: San Fernando	604	43	591	41	717	48	697	46	510	33	495	29	496	30	529	31	521	29	500	27
SPA 3: San Gabriel	620	49	601	47	661	50	711	53	407	30	515	35	529	36	483	31	467	29	488	29
SPA 4: Metro	387	43	412	46	407	46	444	50	330	37	344	36	335	35	344	34	350	34	293	27
SPA 5: West	261	41	264	41	312	47	331	50	218	32	239	33	206	29	230	31	212	28	184	23
SPA 6: South	230	46	225	43	265	51	327	62	158	30	212	38	204	37	192	34	183	31	183	30
SPA 7: East	324	42	354	45	401	49	412	50	232	28	292	32	259	29	262	27	253	25	262	25
SPA 8: South Bay	427	43	472	47	512	49	580	55	339	31	318	27	316	28	375	31	350	28	298	23

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

## Stroke at a glance

Number 8 cause of premature death

Number 2 cause of death

Since 1995, stroke has been the second leading cause of death and the seventh, eighth, or ninth leading cause of premature death. The overall death rate from stroke decreased 22% from 62 deaths per 100,000 in 1999 to 48 deaths per 100,000 in 2004. The decrease was similar for both men and women. The death rate was highest for blacks, which was 75 deaths per 100,000 in 2004.

### In simple terms . . .

A stroke occurs when the blood supply to part of the brain is suddenly interrupted or when a blood vessel in the brain bursts, spilling blood into the spaces surrounding brain cells. When that happens, part of the brain cannot get the blood and oxygen it needs. Without oxygen, nerve cells in the affected part of the brain die within minutes. When the nerve cells cannot function, the part of the body controlled by these cells cannot function either.

### Risk factors

High blood pressure, cigarette smoking, diabetes, high blood cholesterol, being overweight, physical inactivity, excessive alcohol use, age, family history of stroke, prior stroke or heart attack.

### Community opportunities for prevention

- Promote physical activity by providing access to safe places like parks to walk, play, and exercise
- Restrict smoking in public places and worksites
- Provide access to smoking cessation programs
- Encourage people to quit smoking through media campaigns

### Individual opportunities for prevention

- Control high blood pressure
- Stop smoking
- Manage diabetes
- Maintain a healthy weight
- Increase physical activity
- Eat a diet low in fat and salt
- Learn the stroke warning signs: sudden weakness especially on one side of the body, sudden confusion, sudden trouble seeing, sudden trouble walking or dizziness, sudden severe headache with no known cause

### Los Angeles County deaths

4,121

### Los Angeles County death rate

48 deaths per 100,000 population

### Healthy People 2010 Objective 12-7

50 deaths per 100,000 population

### ICD-9 codes

430-434, 436-438

### ICD-10 codes

I60-I69

### Resources

American Stroke Association at [WWW.STROKEASSOCIATION.ORG](http://WWW.STROKEASSOCIATION.ORG)

National Institute of Neurological Disorders and Stroke at [WWW.NINDS.NIH.GOV/DISORDERS/STROKE](http://WWW.NINDS.NIH.GOV/DISORDERS/STROKE)

*Mortality in Los Angeles County 2004*  
**Trends in stroke mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>4,073</b>	<b>60</b>	<b>4,061</b>	<b>59</b>	<b>4,160</b>	<b>59</b>	<b>3,928</b>	<b>55</b>	<i>Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.</i>	<b>4,435</b>	<b>62</b>	<b>4,410</b>	<b>57</b>	<b>4,259</b>	<b>56</b>	<b>4,169</b>	<b>52</b>	<b>4,249</b>	<b>51</b>	<b>4,121</b>	<b>48</b>
<b>Males</b>	<b>1,667</b>	<b>63</b>	<b>1,638</b>	<b>61</b>	<b>1,681</b>	<b>61</b>	<b>1,550</b>	<b>55</b>		<b>1,803</b>	<b>64</b>	<b>1,816</b>	<b>60</b>	<b>1,691</b>	<b>56</b>	<b>1,701</b>	<b>54</b>	<b>1,754</b>	<b>53</b>	<b>1,718</b>	<b>50</b>
<b>Females</b>	<b>2,406</b>	<b>57</b>	<b>2,423</b>	<b>57</b>	<b>2,479</b>	<b>57</b>	<b>2,378</b>	<b>54</b>		<b>2,632</b>	<b>59</b>	<b>2,594</b>	<b>55</b>	<b>2,568</b>	<b>54</b>	<b>2,468</b>	<b>51</b>	<b>2,495</b>	<b>49</b>	<b>2,403</b>	<b>45</b>
<b>White</b>	<b>2,557</b>	<b>60</b>	<b>2,478</b>	<b>58</b>	<b>2,565</b>	<b>60</b>	<b>2,376</b>	<b>55</b>		<b>2,611</b>	<b>60</b>	<b>2,599</b>	<b>57</b>	<b>2,483</b>	<b>57</b>	<b>2,382</b>	<b>54</b>	<b>2,441</b>	<b>54</b>	<b>2,234</b>	<b>47</b>
<b>Hispanic</b>	<b>534</b>	<b>40</b>	<b>610</b>	<b>45</b>	<b>623</b>	<b>44</b>	<b>621</b>	<b>43</b>		<b>704</b>	<b>49</b>	<b>717</b>	<b>46</b>	<b>708</b>	<b>40</b>	<b>711</b>	<b>37</b>	<b>755</b>	<b>36</b>	<b>785</b>	<b>40</b>
<b>Black</b>	<b>609</b>	<b>92</b>	<b>580</b>	<b>87</b>	<b>562</b>	<b>82</b>	<b>536</b>	<b>78</b>		<b>658</b>	<b>95</b>	<b>618</b>	<b>84</b>	<b>591</b>	<b>85</b>	<b>589</b>	<b>82</b>	<b>584</b>	<b>82</b>	<b>572</b>	<b>75</b>
<b>Asian/Pacific Islander</b>	<b>363</b>	<b>52</b>	<b>382</b>	<b>51</b>	<b>404</b>	<b>52</b>	<b>387</b>	<b>47</b>		<b>452</b>	<b>53</b>	<b>465</b>	<b>49</b>	<b>472</b>	<b>48</b>	<b>473</b>	<b>44</b>	<b>462</b>	<b>41</b>	<b>513</b>	<b>40</b>
<b>Males</b>																					
<b>White</b>	<b>966</b>	<b>61</b>	<b>907</b>	<b>57</b>	<b>985</b>	<b>61</b>	<b>861</b>	<b>53</b>		<b>1,004</b>	<b>61</b>	<b>1,005</b>	<b>58</b>	<b>923</b>	<b>57</b>	<b>932</b>	<b>56</b>	<b>918</b>	<b>54</b>	<b>881</b>	<b>49</b>
<b>Hispanic</b>	<b>251</b>	<b>44</b>	<b>290</b>	<b>54</b>	<b>272</b>	<b>46</b>	<b>297</b>	<b>49</b>		<b>315</b>	<b>54</b>	<b>343</b>	<b>54</b>	<b>322</b>	<b>43</b>	<b>326</b>	<b>42</b>	<b>342</b>	<b>38</b>	<b>364</b>	<b>44</b>
<b>Black</b>	<b>269</b>	<b>105</b>	<b>252</b>	<b>100</b>	<b>223</b>	<b>83</b>	<b>210</b>	<b>79</b>		<b>262</b>	<b>94</b>	<b>247</b>	<b>85</b>	<b>232</b>	<b>85</b>	<b>227</b>	<b>82</b>	<b>248</b>	<b>91</b>	<b>208</b>	<b>73</b>
<b>Asian/Pacific Islander</b>	<b>174</b>	<b>58</b>	<b>184</b>	<b>57</b>	<b>198</b>	<b>59</b>	<b>180</b>	<b>49</b>		<b>217</b>	<b>60</b>	<b>216</b>	<b>52</b>	<b>212</b>	<b>51</b>	<b>209</b>	<b>47</b>	<b>242</b>	<b>50</b>	<b>260</b>	<b>47</b>
<b>Females</b>																					
<b>White</b>	<b>1,591</b>	<b>59</b>	<b>1,571</b>	<b>57</b>	<b>1,580</b>	<b>57</b>	<b>1,515</b>	<b>55</b>		<b>1,607</b>	<b>58</b>	<b>1,594</b>	<b>55</b>	<b>1,560</b>	<b>56</b>	<b>1,450</b>	<b>52</b>	<b>1,523</b>	<b>53</b>	<b>1,353</b>	<b>46</b>
<b>Hispanic</b>	<b>283</b>	<b>38</b>	<b>320</b>	<b>40</b>	<b>351</b>	<b>43</b>	<b>324</b>	<b>38</b>		<b>389</b>	<b>46</b>	<b>374</b>	<b>41</b>	<b>386</b>	<b>37</b>	<b>385</b>	<b>34</b>	<b>413</b>	<b>34</b>	<b>421</b>	<b>36</b>
<b>Black</b>	<b>340</b>	<b>83</b>	<b>328</b>	<b>80</b>	<b>339</b>	<b>80</b>	<b>326</b>	<b>77</b>		<b>396</b>	<b>92</b>	<b>371</b>	<b>81</b>	<b>359</b>	<b>82</b>	<b>362</b>	<b>81</b>	<b>336</b>	<b>74</b>	<b>364</b>	<b>75</b>
<b>Asian/Pacific Islander</b>	<b>189</b>	<b>47</b>	<b>198</b>	<b>47</b>	<b>206</b>	<b>47</b>	<b>207</b>	<b>44</b>		<b>235</b>	<b>48</b>	<b>249</b>	<b>47</b>	<b>260</b>	<b>46</b>	<b>264</b>	<b>43</b>	<b>220</b>	<b>34</b>	<b>253</b>	<b>34</b>
<b>SPA 1: Antelope Valley</b>	<b>93</b>	<b>63</b>	<b>121</b>	<b>78</b>	<b>140</b>	<b>85</b>	<b>122</b>	<b>72</b>		<b>109</b>	<b>61</b>	<b>124</b>	<b>66</b>	<b>110</b>	<b>60</b>	<b>106</b>	<b>53</b>	<b>131</b>	<b>64</b>	<b>125</b>	<b>57</b>
<b>SPA 2: San Fernando</b>	<b>770</b>	<b>53</b>	<b>732</b>	<b>50</b>	<b>788</b>	<b>52</b>	<b>822</b>	<b>54</b>		<b>864</b>	<b>55</b>	<b>887</b>	<b>53</b>	<b>866</b>	<b>52</b>	<b>840</b>	<b>49</b>	<b>898</b>	<b>50</b>	<b>905</b>	<b>49</b>
<b>SPA 3: San Gabriel</b>	<b>697</b>	<b>54</b>	<b>710</b>	<b>54</b>	<b>776</b>	<b>58</b>	<b>677</b>	<b>49</b>		<b>806</b>	<b>58</b>	<b>784</b>	<b>52</b>	<b>749</b>	<b>50</b>	<b>806</b>	<b>52</b>	<b>822</b>	<b>51</b>	<b>756</b>	<b>44</b>
<b>SPA 4: Metro</b>	<b>480</b>	<b>54</b>	<b>499</b>	<b>56</b>	<b>501</b>	<b>56</b>	<b>474</b>	<b>53</b>		<b>525</b>	<b>59</b>	<b>485</b>	<b>51</b>	<b>475</b>	<b>50</b>	<b>462</b>	<b>47</b>	<b>453</b>	<b>44</b>	<b>426</b>	<b>39</b>
<b>SPA 5: West</b>	<b>374</b>	<b>59</b>	<b>389</b>	<b>60</b>	<b>387</b>	<b>59</b>	<b>341</b>	<b>52</b>	<b>384</b>	<b>57</b>	<b>383</b>	<b>53</b>	<b>368</b>	<b>52</b>	<b>379</b>	<b>52</b>	<b>342</b>	<b>45</b>	<b>321</b>	<b>41</b>	
<b>SPA 6: South</b>	<b>482</b>	<b>89</b>	<b>431</b>	<b>80</b>	<b>396</b>	<b>72</b>	<b>397</b>	<b>73</b>	<b>465</b>	<b>86</b>	<b>455</b>	<b>80</b>	<b>434</b>	<b>76</b>	<b>403</b>	<b>68</b>	<b>401</b>	<b>67</b>	<b>407</b>	<b>65</b>	
<b>SPA 7: East</b>	<b>453</b>	<b>56</b>	<b>530</b>	<b>64</b>	<b>423</b>	<b>55</b>	<b>495</b>	<b>58</b>	<b>522</b>	<b>60</b>	<b>527</b>	<b>57</b>	<b>493</b>	<b>53</b>	<b>513</b>	<b>52</b>	<b>479</b>	<b>47</b>	<b>499</b>	<b>47</b>	
<b>SPA 8: South Bay</b>	<b>700</b>	<b>67</b>	<b>635</b>	<b>60</b>	<b>693</b>	<b>64</b>	<b>594</b>	<b>54</b>	<b>744</b>	<b>67</b>	<b>745</b>	<b>63</b>	<b>733</b>	<b>62</b>	<b>651</b>	<b>53</b>	<b>676</b>	<b>53</b>	<b>635</b>	<b>48</b>	

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

## **Suicide** *at a glance*

Number **4** cause of premature death

Number **17** cause of death

*Since 1995, suicide has been the fourth, fifth, or sixth leading cause of premature death each year. The death rate from suicide has remained stable in recent years. Suicide death rates have been consistently higher for men than for women, with white males having the highest rates overall. In 2004, suicide was the second leading cause of premature death for Asian/Pacific Islander males and the third leading cause of premature death for white males.*

### ***In simple terms . . .***

Suicide refers to a person intentionally taking his or her own life.

### ***Risk factors***

Suicidal behavior is complex. Risk factors for suicidal behavior include depression, alcohol or drug abuse, previous suicide attempts, family history of suicide, history of being sexually abused, impulsive or aggressive tendencies, and having a firearm in the home.

### ***Community opportunities for prevention***

- Increase public awareness that suicide is preventable
- Educate health care providers to identify and respond to persons at risk for suicide
- Provide access to mental health and substance abuse services

### ***Individual opportunities for prevention***

- Limit access to lethal means of self-harm
- Remove firearms from the home
- If firearms are kept in the home, store them unloaded and locked with the ammunition locked separately
- Seek mental health counseling
- Get treatment for substance abuse

### ***Los Angeles County deaths***

696

### ***Los Angeles County death rate***

7.1 suicides per 100,000 population

### ***Healthy People 2010 Objective 18-1***

4.8 suicides per 100,000 population

### ***ICD-9 codes***

E950-E959

### ***ICD-10 codes***

X60-X84, Y87.0

### ***Resources***

National Institute of Mental Health at [WWW.NIMH.NIH.GOV](http://WWW.NIMH.NIH.GOV)

National Mental Health Information Center at [WWW.MENTALHEALTH.SAMHSA.GOV](http://WWW.MENTALHEALTH.SAMHSA.GOV)



*Mortality in Los Angeles County 2004*  
**Trends in suicide mortality, 1995-2004**

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>954</b>	<b>11</b>	<b>873</b>	<b>10</b>	<b>776</b>	<b>9</b>	<b>794</b>	<b>9</b>		<b>732</b>	<b>8</b>	<b>711</b>	<b>8</b>	<b>762</b>	<b>8</b>	<b>727</b>	<b>8</b>	<b>727</b>	<b>8</b>	<b>696</b>	<b>7</b>
<b>Males</b>	<b>760</b>	<b>19</b>	<b>675</b>	<b>16</b>	<b>611</b>	<b>15</b>	<b>625</b>	<b>15</b>		<b>579</b>	<b>14</b>	<b>562</b>	<b>14</b>	<b>608</b>	<b>14</b>	<b>564</b>	<b>13</b>	<b>582</b>	<b>13</b>	<b>537</b>	<b>12</b>
<b>Females</b>	<b>194</b>	<b>4</b>	<b>198</b>	<b>4</b>	<b>165</b>	<b>4</b>	<b>169</b>	<b>4</b>		<b>153</b>	<b>3</b>	<b>149</b>	<b>3</b>	<b>154</b>	<b>3</b>	<b>163</b>	<b>3</b>	<b>145</b>	<b>3</b>	<b>159</b>	<b>3</b>
<b>White</b>	<b>610</b>	<b>17</b>	<b>537</b>	<b>15</b>	<b>473</b>	<b>13</b>	<b>510</b>	<b>14</b>		<b>449</b>	<b>13</b>	<b>434</b>	<b>12</b>	<b>443</b>	<b>13</b>	<b>401</b>	<b>11</b>	<b>442</b>	<b>12</b>	<b>379</b>	<b>11</b>
<b>Hispanic</b>	<b>188</b>	<b>6</b>	<b>181</b>	<b>5</b>	<b>166</b>	<b>5</b>	<b>157</b>	<b>5</b>		<b>154</b>	<b>5</b>	<b>155</b>	<b>4</b>	<b>188</b>	<b>5</b>	<b>171</b>	<b>4</b>	<b>163</b>	<b>4</b>	<b>182</b>	<b>4</b>
<b>Black</b>	<b>82</b>	<b>9</b>	<b>72</b>	<b>8</b>	<b>59</b>	<b>7</b>	<b>64</b>	<b>7</b>		<b>52</b>	<b>6</b>	<b>57</b>	<b>6</b>	<b>51</b>	<b>6</b>	<b>72</b>	<b>8</b>	<b>55</b>	<b>6</b>	<b>42</b>	<b>4</b>
<b>Asian/Pacific Islander</b>	<b>72</b>	<b>7</b>	<b>81</b>	<b>7</b>	<b>75</b>	<b>7</b>	<b>62</b>	<b>5</b>		<b>75</b>	<b>6</b>	<b>61</b>	<b>5</b>	<b>78</b>	<b>6</b>	<b>81</b>	<b>6</b>	<b>65</b>	<b>5</b>	<b>92</b>	<b>6</b>
<b>Males</b>																					
<b>White</b>	<b>471</b>	<b>27</b>	<b>402</b>	<b>23</b>	<b>369</b>	<b>21</b>	<b>396</b>	<b>23</b>		<b>343</b>	<b>21</b>	<b>337</b>	<b>20</b>	<b>350</b>	<b>21</b>	<b>297</b>	<b>17</b>	<b>342</b>	<b>20</b>	<b>284</b>	<b>16</b>
<b>Hispanic</b>	<b>167</b>	<b>10</b>	<b>158</b>	<b>9</b>	<b>136</b>	<b>8</b>	<b>130</b>	<b>8</b>		<b>132</b>	<b>8</b>	<b>130</b>	<b>8</b>	<b>161</b>	<b>8</b>	<b>151</b>	<b>8</b>	<b>148</b>	<b>7</b>	<b>154</b>	<b>7</b>
<b>Black</b>	<b>71</b>	<b>16</b>	<b>55</b>	<b>13</b>	<b>46</b>	<b>12</b>	<b>52</b>	<b>12</b>		<b>44</b>	<b>11</b>	<b>44</b>	<b>11</b>	<b>40</b>	<b>9</b>	<b>55</b>	<b>14</b>	<b>45</b>	<b>11</b>	<b>32</b>	<b>8</b>
<b>Asian/Pacific Islander</b>	<b>50</b>	<b>10</b>	<b>59</b>	<b>11</b>	<b>57</b>	<b>11</b>	<b>46</b>	<b>8</b>		<b>60</b>	<b>11</b>	<b>47</b>	<b>9</b>	<b>56</b>	<b>10</b>	<b>59</b>	<b>10</b>	<b>45</b>	<b>7</b>	<b>67</b>	<b>10</b>
<b>Females</b>																					
<b>White</b>	<b>139</b>	<b>8</b>	<b>135</b>	<b>8</b>	<b>104</b>	<b>6</b>	<b>114</b>	<b>6</b>		<b>106</b>	<b>6</b>	<b>97</b>	<b>5</b>	<b>93</b>	<b>5</b>	<b>104</b>	<b>6</b>	<b>100</b>	<b>6</b>	<b>95</b>	<b>6</b>
<b>Hispanic</b>	<b>21</b>	<b>1</b>	<b>23</b>	<b>1</b>	<b>30</b>	<b>2</b>	<b>27</b>	<b>2</b>		<b>22</b>	<b>--</b>	<b>25</b>	<b>1</b>	<b>27</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>15</b>	<b>--</b>	<b>28</b>	<b>1</b>
<b>Black</b>	<b>11</b>	<b>--</b>	<b>17</b>	<b>--</b>	<b>13</b>	<b>--</b>	<b>12</b>	<b>--</b>		<b>8</b>	<b>--</b>	<b>13</b>	<b>--</b>	<b>11</b>	<b>--</b>	<b>17</b>	<b>--</b>	<b>10</b>	<b>--</b>	<b>10</b>	<b>--</b>
<b>Asian/Pacific Islander</b>	<b>22</b>	<b>4</b>	<b>22</b>	<b>4</b>	<b>18</b>	<b>--</b>	<b>16</b>	<b>--</b>		<b>15</b>	<b>--</b>	<b>14</b>	<b>--</b>	<b>22</b>	<b>3</b>	<b>22</b>	<b>3</b>	<b>20</b>	<b>3</b>	<b>25</b>	<b>3</b>
SPA 1: Antelope Valley	28	13	31	12	24	10	33	13		30	11	35	13	32	12	37	14	37	13	35	11
SPA 2: San Fernando	240	13	176	10	172	9	184	10		167	9	165	9	177	9	148	7	162	8	159	8
SPA 3: San Gabriel	135	8	140	9	137	9	127	8		126	8	124	8	131	8	125	7	110	6	118	7
SPA 4: Metro	130	12	136	13	101	9	106	10		111	10	89	8	98	8	97	9	97	8	78	7
SPA 5: West	75	11	79	12	76	11	65	10		63	9	66	10	54	8	61	9	65	9	59	8
SPA 6: South	69	8	48	5	49	6	37	5		42	5	46	5	44	5	44	5	41	4	46	5
SPA 7: East	100	9	90	8	80	7	93	8		63	6	76	7	82	7	70	6	80	6	67	5
SPA 8: South Bay	162	12	154	11	123	9	137	10		121	9	101	7	134	9	131	9	114	8	112	7

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000. Population estimates were revised, therefore, death rates for 2001 and 2002 may differ from those in Mortality in Los Angeles County, 2002.

--Number of deaths is too small to calculate a reliable rate.

Mortality in Los Angeles County 2004

Appendix 1. Trends in mortality from all causes of death, 1995-2004

	1995		1996		1997		1998			1999		2000		2001		2002		2003		2004	
	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*		No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*	No. of deaths	Death rate*
<b>Los Angeles County</b>	<b>60,953</b>	<b>846</b>	<b>59,686</b>	<b>823</b>	<b>60,070</b>	<b>821</b>	<b>58,923</b>	<b>797</b>		<b>59,614</b>	<b>798</b>	<b>59,032</b>	<b>749</b>	<b>59,774</b>	<b>755</b>	<b>59,586</b>	<b>725</b>	<b>61,026</b>	<b>717</b>	<b>59,153</b>	<b>669</b>
<b>Males</b>	<b>31,955</b>	<b>1,047</b>	<b>30,625</b>	<b>1,006</b>	<b>30,340</b>	<b>997</b>	<b>29,723</b>	<b>968</b>		<b>29,674</b>	<b>955</b>	<b>29,660</b>	<b>902</b>	<b>29,968</b>	<b>910</b>	<b>29,968</b>	<b>874</b>	<b>30,907</b>	<b>866</b>	<b>29,839</b>	<b>805</b>
<b>Females</b>	<b>28,998</b>	<b>688</b>	<b>29,061</b>	<b>681</b>	<b>29,730</b>	<b>688</b>	<b>29,200</b>	<b>668</b>		<b>29,940</b>	<b>677</b>	<b>29,372</b>	<b>630</b>	<b>29,806</b>	<b>637</b>	<b>29,618</b>	<b>610</b>	<b>30,119</b>	<b>599</b>	<b>29,314</b>	<b>563</b>
<b>White</b>	<b>37,393</b>	<b>908</b>	<b>36,128</b>	<b>875</b>	<b>36,560</b>	<b>883</b>	<b>35,435</b>	<b>857</b>		<b>35,120</b>	<b>849</b>	<b>34,697</b>	<b>804</b>	<b>34,189</b>	<b>824</b>	<b>33,672</b>	<b>800</b>	<b>34,105</b>	<b>794</b>	<b>32,324</b>	<b>729</b>
<b>Hispanic</b>	<b>10,706</b>	<b>621</b>	<b>10,657</b>	<b>622</b>	<b>10,776</b>	<b>630</b>	<b>10,670</b>	<b>620</b>		<b>11,189</b>	<b>640</b>	<b>11,107</b>	<b>594</b>	<b>11,879</b>	<b>564</b>	<b>11,969</b>	<b>529</b>	<b>12,803</b>	<b>535</b>	<b>12,632</b>	<b>539</b>
<b>Black</b>	<b>8,664</b>	<b>1,198</b>	<b>8,611</b>	<b>1,189</b>	<b>8,323</b>	<b>1,147</b>	<b>8,239</b>	<b>1,128</b>		<b>8,484</b>	<b>1,159</b>	<b>8,258</b>	<b>1,073</b>	<b>8,447</b>	<b>1,135</b>	<b>8,482</b>	<b>1,124</b>	<b>8,517</b>	<b>1,117</b>	<b>8,372</b>	<b>1,017</b>
<b>Asian/Pacific Islander</b>	<b>4,029</b>	<b>542</b>	<b>4,142</b>	<b>526</b>	<b>4,250</b>	<b>517</b>	<b>4,447</b>	<b>515</b>		<b>4,690</b>	<b>522</b>	<b>4,787</b>	<b>494</b>	<b>5,085</b>	<b>505</b>	<b>5,255</b>	<b>481</b>	<b>5,352</b>	<b>459</b>	<b>5,591</b>	<b>429</b>
<b>Males</b>																					
<b>White</b>	<b>18,453</b>	<b>1,111</b>	<b>17,447</b>	<b>1,053</b>	<b>17,563</b>	<b>1,058</b>	<b>17,029</b>	<b>1,023</b>		<b>16,664</b>	<b>1,000</b>	<b>16,577</b>	<b>950</b>	<b>16,360</b>	<b>984</b>	<b>16,171</b>	<b>957</b>	<b>16,454</b>	<b>950</b>	<b>15,615</b>	<b>866</b>
<b>Hispanic</b>	<b>6,465</b>	<b>789</b>	<b>6,207</b>	<b>780</b>	<b>6,004</b>	<b>774</b>	<b>5,962</b>	<b>782</b>		<b>6,199</b>	<b>796</b>	<b>6,179</b>	<b>742</b>	<b>6,446</b>	<b>679</b>	<b>6,596</b>	<b>642</b>	<b>7,100</b>	<b>650</b>	<b>6,950</b>	<b>659</b>
<b>Black</b>	<b>4,740</b>	<b>1,561</b>	<b>4,575</b>	<b>1,527</b>	<b>4,353</b>	<b>1,470</b>	<b>4,200</b>	<b>1,408</b>		<b>4,193</b>	<b>1,418</b>	<b>4,217</b>	<b>1,348</b>	<b>4,356</b>	<b>1,457</b>	<b>4,338</b>	<b>1,431</b>	<b>4,365</b>	<b>1,413</b>	<b>4,224</b>	<b>1,275</b>
<b>Asian/Pacific Islander</b>	<b>2,212</b>	<b>673</b>	<b>2,323</b>	<b>661</b>	<b>2,329</b>	<b>644</b>	<b>2,469</b>	<b>647</b>		<b>2,558</b>	<b>650</b>	<b>2,593</b>	<b>610</b>	<b>2,714</b>	<b>619</b>	<b>2,744</b>	<b>578</b>	<b>2,846</b>	<b>563</b>	<b>2,919</b>	<b>519</b>
<b>Females</b>																					
<b>White</b>	<b>18,940</b>	<b>745</b>	<b>18,681</b>	<b>738</b>	<b>18,997</b>	<b>746</b>	<b>18,406</b>	<b>727</b>		<b>18,456</b>	<b>728</b>	<b>18,120</b>	<b>686</b>	<b>17,829</b>	<b>701</b>	<b>17,501</b>	<b>680</b>	<b>17,651</b>	<b>671</b>	<b>16,709</b>	<b>621</b>
<b>Hispanic</b>	<b>4,241</b>	<b>488</b>	<b>4,450</b>	<b>501</b>	<b>4,772</b>	<b>523</b>	<b>4,708</b>	<b>504</b>		<b>4,990</b>	<b>526</b>	<b>4,928</b>	<b>484</b>	<b>5,433</b>	<b>473</b>	<b>5,373</b>	<b>439</b>	<b>5,703</b>	<b>440</b>	<b>5,682</b>	<b>445</b>
<b>Black</b>	<b>3,924</b>	<b>936</b>	<b>4,036</b>	<b>951</b>	<b>3,970</b>	<b>923</b>	<b>4,039</b>	<b>931</b>		<b>4,291</b>	<b>979</b>	<b>4,041</b>	<b>880</b>	<b>4,091</b>	<b>919</b>	<b>4,144</b>	<b>916</b>	<b>4,152</b>	<b>906</b>	<b>4,148</b>	<b>838</b>
<b>Asian/Pacific Islander</b>	<b>1,817</b>	<b>442</b>	<b>1,819</b>	<b>421</b>	<b>1,921</b>	<b>419</b>	<b>1,978</b>	<b>414</b>		<b>2,132</b>	<b>425</b>	<b>2,194</b>	<b>404</b>	<b>2,371</b>	<b>418</b>	<b>2,511</b>	<b>406</b>	<b>2,506</b>	<b>378</b>	<b>2,672</b>	<b>359</b>
SPA 1: Antelope Valley	1,558	898	1,660	923	1,762	952	1,711	892		1,788	911	1,778	863	1,862	898	1,961	907	2,075	904	1,972	820
SPA 2: San Fernando	11,838	782	11,440	745	11,917	765	11,821	744		12,014	743	12,011	699	12,182	713	12,229	691	12,670	694	12,435	660
SPA 3: San Gabriel	10,756	797	10,435	763	10,824	779	10,585	750		10,784	752	10,747	709	10,828	710	10,827	682	10,895	662	10,582	617
SPA 4: Metro	7,755	836	7,533	819	7,237	791	6,974	765		7,029	769	6,817	713	6,864	708	6,726	666	6,866	654	6,516	594
SPA 5: West	4,585	730	4,583	721	4,605	714	4,389	676		4,371	667	4,382	629	4,192	607	4,287	604	4,290	588	4,098	543
SPA 6: South	6,363	1,052	6,443	1,075	6,191	1,045	6,083	1,036		6,150	1,049	5,962	966	6,130	992	6,174	968	6,063	931	6,058	885
SPA 7: East	7,384	838	7,462	840	7,243	805	7,352	814		7,430	813	7,395	769	7,386	757	7,273	713	7,428	702	7,240	661
SPA 8: South Bay	10,181	909	9,743	865	9,906	872	9,681	843		9,714	836	9,590	783	9,786	797	9,759	764	9,992	754	9,453	686

Because of changes to the International Classification of Diseases (ICD), 1995-1998 may not be comparable to 1999-2004.

\*Age-adjusted rate per 100,000.

Appendix 2. Los Angeles County population estimates and United States standard population

Los Angeles County population estimates, 2004

Age Group (years)												
<b>Males</b>	Less than 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	All ages
White	13,899	56,038	166,532	168,973	187,993	265,662	261,554	190,772	115,557	82,161	26,949	1,536,090
Hispanic	49,249	193,606	480,975	397,756	427,055	376,549	231,426	117,097	59,106	29,528	8,114	2,370,461
Black	6,371	24,512	82,072	77,549	58,102	72,696	60,305	38,016	24,611	11,420	2,788	458,442
Asian/Pacific Islander	8,984	35,972	78,921	93,308	100,032	100,469	96,961	64,935	38,148	23,568	7,236	648,534
American Indian/Alaska Native	140	376	2,249	2,319	2,183	2,683	2,450	1,548	834	355	116	15,253
<b>All races</b>	<b>78,643</b>	<b>310,504</b>	<b>810,749</b>	<b>739,905</b>	<b>775,365</b>	<b>818,059</b>	<b>652,696</b>	<b>412,368</b>	<b>238,256</b>	<b>147,032</b>	<b>45,203</b>	<b>5,028,780</b>
<b>Females</b>	Less than 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	All ages
White	13,099	52,746	156,805	161,779	182,528	245,192	247,956	195,921	130,521	119,444	57,096	1,563,087
Hispanic	47,983	187,214	461,282	371,896	391,888	350,812	245,067	136,901	78,337	46,387	16,711	2,334,478
Black	6,371	23,593	79,942	76,197	69,986	86,330	73,897	49,991	32,085	19,473	7,812	525,677
Asian/Pacific Islander	8,376	33,589	74,496	88,197	106,345	113,890	115,060	75,142	47,536	32,786	11,398	706,815
American Indian/Alaska Native	113	338	2,229	2,162	2,315	2,699	2,612	1,893	894	480	251	15,986
<b>All races</b>	<b>75,942</b>	<b>297,480</b>	<b>774,754</b>	<b>700,231</b>	<b>753,062</b>	<b>798,923</b>	<b>684,592</b>	<b>459,848</b>	<b>289,373</b>	<b>218,570</b>	<b>93,268</b>	<b>5,146,043</b>
<b>Los Angeles County</b>	Less than 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	All ages
White	26,998	108,784	323,337	330,752	370,521	510,854	509,510	386,693	246,078	201,605	84,045	3,099,177
Hispanic	97,232	380,820	942,257	769,652	818,943	727,361	476,493	253,998	137,443	75,915	24,825	4,704,939
Black	12,742	48,105	162,014	153,746	128,088	159,026	134,202	88,007	56,696	30,893	10,600	984,119
Asian/Pacific Islander	17,360	69,561	153,417	181,505	206,377	214,359	212,021	140,077	85,684	56,354	18,634	1,355,349
American Indian/Alaska Native	253	714	4,478	4,481	4,498	5,382	5,062	3,441	1,728	835	367	31,239
<b>All races</b>	<b>154,585</b>	<b>607,984</b>	<b>1,585,503</b>	<b>1,440,136</b>	<b>1,528,427</b>	<b>1,616,982</b>	<b>1,337,288</b>	<b>872,216</b>	<b>527,629</b>	<b>365,602</b>	<b>138,471</b>	<b>10,174,823</b>

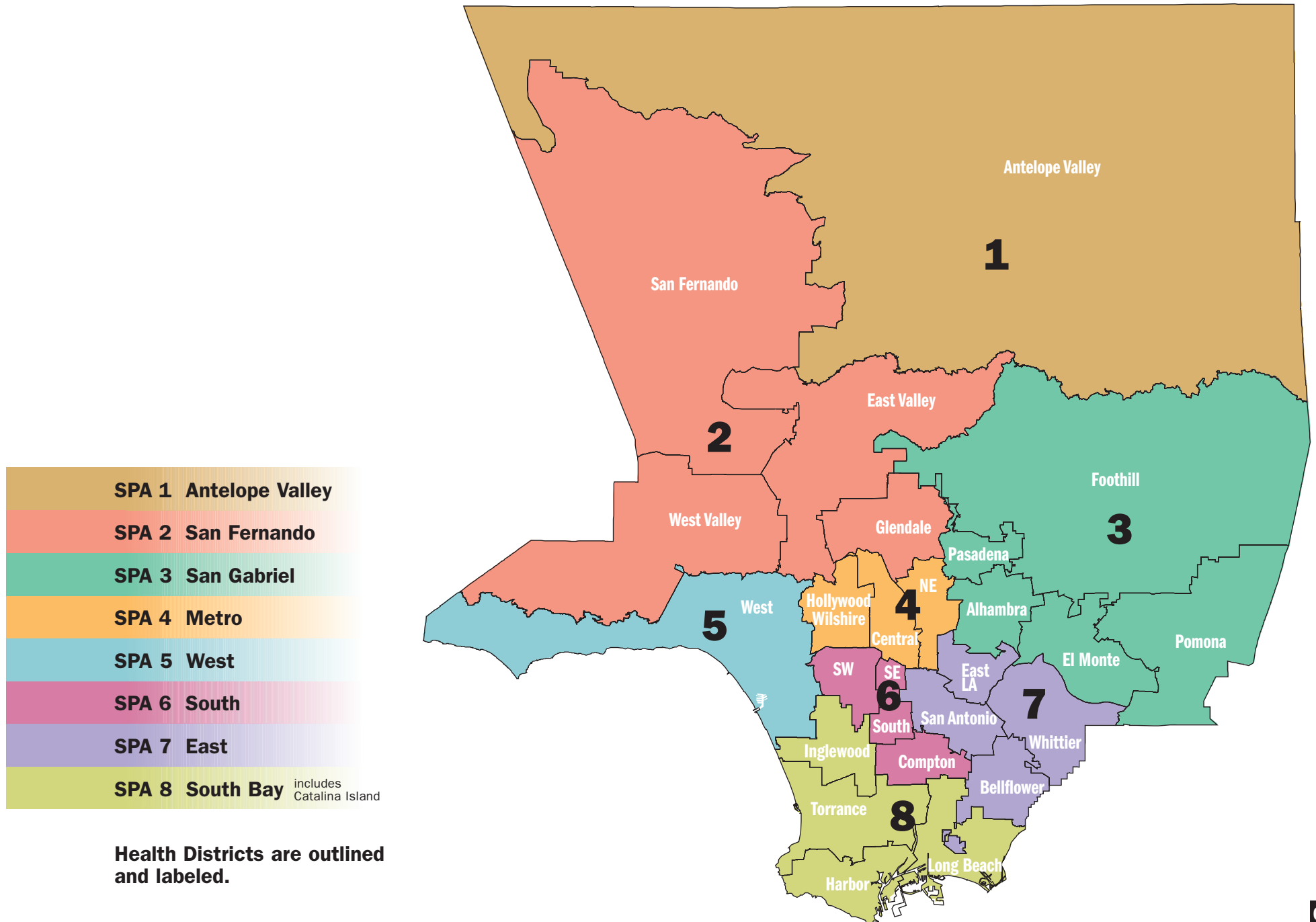
Notes: July 1, 2004 population estimates by WRMA released June 20, 2005.

United States standard population, 2000<sup>4</sup>

Age Group (years)												
<b>United States</b>	Less than 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	All ages
<b>All races</b>	<b>13,818</b>	<b>55,317</b>	<b>145,565</b>	<b>138,646</b>	<b>135,573</b>	<b>162,613</b>	<b>134,834</b>	<b>87,247</b>	<b>66,037</b>	<b>44,842</b>	<b>15,508</b>	<b>1,000,000</b>

<sup>4</sup> Anderson RN, Rosenberg HM. Age standardization of death rates: Implementation of the year 2000 standard. National Vital Statistics Reports; Vol. 47 No. 3. Hyattsville, Maryland: National Center for Health Statistics, 1998.

Appendix 3. Health district and service planning area (SPA) boundaries



Health Districts are outlined and labeled.

Appendix 4. Incorporated cities in Los Angeles County, by service planning area (SPA)

<b>SPA 1</b> <b>Antelope Valley</b> Pop. 334,951	<b>SPA 2</b> <b>San Fernando</b> Pop. 2,108,367	<b>SPA 3</b> <b>San Gabriel</b> Pop. 1,846,997	<b>SPA 4</b> <b>Metro</b> Pop. 1,240,204	<b>SPA 5</b> <b>West</b> Pop. 646,770	<b>SPA 6</b> <b>South</b> Pop. 1,031,700	<b>SPA 7</b> <b>East</b> Pop. 1,369,589	<b>SPA 8</b> <b>South Bay</b> Pop. 1,596,245
Lancaster	Agoura Hills	Alhambra	Los Angeles	Beverly Hills	Compton	Artesia	Avalon
Palmdale	Burbank	Arcadia	West Hollywood	Culver City	Los Angeles	Bell	Carson
	Calabasas	Azusa		Los Angeles	Lynwood	Bell Gardens	El Segundo
	Glendale	Baldwin Park		Malibu	Paramount	Bellflower	Gardena
	Hidden Hills	Bradbury		Santa Monica		Cerritos	Hawthorne
	La Canada	Claremont				Commerce	Hermosa Beach
	Flintridge	Covina				Cudahy	Inglewood
	Los Angeles	Diamond Bar				Downey	Lawndale
	San Fernando	Duarte				Hawaiian Gardens	Lomita
	Santa Clarita	El Monte				Huntington Park	Long Beach
	Westlake Village	Glendora				La Habra Heights	Los Angeles
		Industry				La Mirada	Manhattan Beach
		Irwindale				Lakewood	Palos Verdes
		La Puente				Maywood	Estates
		La Verne				Montebello	Rancho Palos
		Monrovia				Norwalk	Verdes
		Monterey Park				Pico Rivera	Redondo Beach
		Pasadena				Santa Fe Springs	Rolling Hills
		Pomona				Signal Hill	Rolling Hills
		Rosemead				South Gate	Estates
		San Dimas				Vernon	Torrance
		San Gabriel				Whittier	
		San Marino					
		Sierra Madre					
		South El Monte					
		South Pasadena					
		Temple City					
		Walnut					
		West Covina					

Notes: July 1, 2004 population estimates by WRMA released June 20, 2005.

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We thank the Data Collection and Analysis Unit staff for their assistance.  
Special thanks to Barbara Pavey, RN, MPH and Patti Culross, MD, MPH.

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# MORTALITY IN LOS ANGELES COUNTY 2004

## **LEADING CAUSES OF DEATH AND PREMATURE DEATH**

