



A Tradition of Stewardship
A Commitment to Service

Leading Causes of Death: Stroke Fact Sheet

Stroke is currently the third leading cause of death for Napa County residents, behind cancer and diseases of the heart. Death (mortality) rates refer to the number of deaths per 100,000 population. They are age-adjusted to show comparisons among populations with different age distributions. Between 2005 and 2008 there were a total of 336 stroke deaths, an average of 84 deaths per year. The age-adjusted stroke death rate is 46.3 deaths per 100,000 persons.

Highlights

Risk Factors

- In a 2007 survey, 29.0% of Napa County adults reported being diagnosed with high blood pressure (hypertension) and 14.6% reported current smoking (Table 1), both of which are known to increase the risk for stroke.

Trends

- Napa County has a higher age-adjusted stroke death rate than the state of California (Figure 1), but this difference was not statistically significant for the most recently available years (2006-2008).
- The stroke death rate in Napa County has been steadily declining (Figure 1) and currently meets the Healthy People 2010 objective of no more than 50 stroke deaths per 100,000 persons.

Death rates by race/ethnicity and gender

- For the years 2005-2008, the age adjusted stroke death rates for white and Hispanic Napa County residents were 47.6 and 36.4 per 100,000 persons, respectively (Table 3). Rates were not calculated for other race/ethnic groups because the total number of deaths was still small (<20 deaths) after combining 4 years of data.
- The stroke death rate for Hispanic residents was 20% lower (Rate Ratio = 0.8) than the stroke death rate for white Napa County residents, but this difference was not statistically significant (Table 2).
- The stroke death rate for females in Napa County was 7% lower (Rate Ratio = 0.93) than for males, but again the difference was not statistically significant (Table 2).

Risk Factors

Table 1: Percentage of adults who reported behaviors and conditions that put them at risk of stroke, Napa County.

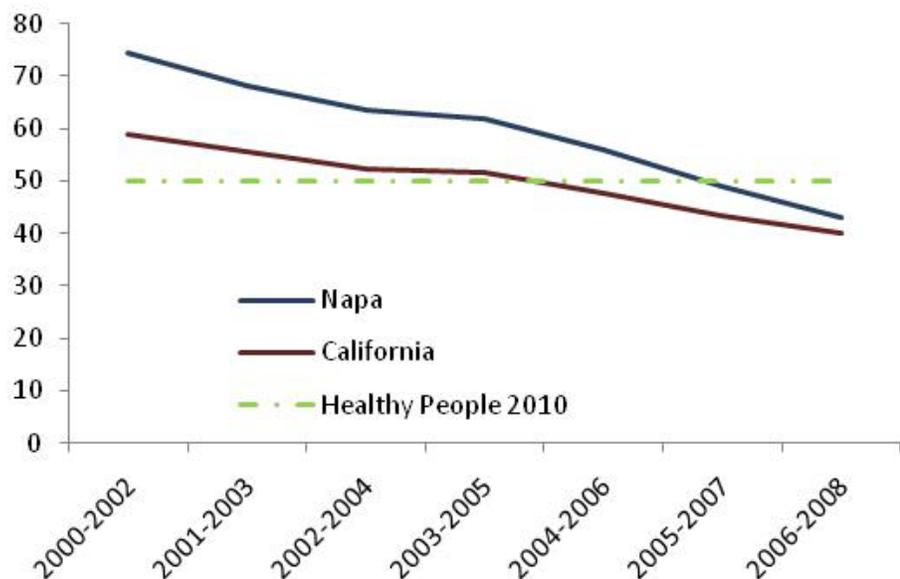
	No moderate or vigorous physical	Overweight or Obese ¹	Current Smoker ¹	Binge drinking in past year ¹	Diabetes ¹	High Blood Cholesterol ²	High Blood Pressure ¹
Napa County	57.5%	62.0%	14.6%	34.6%	9.2%	22.3%	29.0%
California	63.7%	57.1%	14.3%	29.7%	7.8%	22.1%	26.1%
Gender							
Male	57.7%	72.5%	20.8%	45.9%	11.4%	19.9%	27.4%
Female	57.3%	52.2%	8.7%	23.9%	7.2%	24.5%	30.4%

1California Health Interview Survey, 2007

2California Health Interview Survey, 2005

Trend over time

Figure 1: Stroke death rates for Napa County and California, 3 year moving averages, 2000-2008.



Rates are age-adjusted per 100,000 persons

Source: County Health Status Profiles, California Department of Public Health, 2004-2010

Deaths

Table 2: Stroke death rates and rate ratios by race/ethnicity and gender, Napa County 2005-2008.

Race/Ethnicity	Deaths	Rate	Rate Ratio	95% CI
<i>White, non-Hispanic</i>	297	47.3	referent group	-
<i>Hispanic</i>	22	36.4	0.8	0.50, 1.2
<i>Asian/Pacific Islander</i>	10	*	*	*
<i>African American</i>	3	*	*	*
<i>American Indian/Alaska Native</i>	0	*	*	*
<i>Two or more Race Categories</i>	3	*	*	*
Gender				
Male	142	48.1	referent group	-
Female	194	44.9	0.93	0.75, 1.16

Rates are age-adjusted per 100,000 persons

*Rates are unstable due to small numbers

Sources: California Department of Public Health, Center for Health Statistics Death Statistical Master files 2005, 2006, 2007 & 2008; State of California, Department of Finance, Race/Ethnic Population with Age and Sex Detail, 2000-2050. Sacramento, CA, July 2007.

Table 4: Stroke deaths¹ by gender, race/ethnicity, age category and cause, Napa County 2005-2008

	Deaths			95% CI	
	Total	Percent	Age-adjusted Rate ²		
Total	336	100	46.3	41.2	51.3
Gender					
Male	142	42.3	48.1	40.1	56.0
Female	194	57.7	44.9	38.4	51.5
Race/ethnicity					
White, non-Hispanic	298	88.7	47.6	42.1	53.2
Hispanic	22	6.5	36.4	20.9	52.0
Asian/Pacific Islander	10	3.0	*	*	*
African American	3	0.9	*	*	*
American Indian/Alaska Native	0	0.0	*	*	*
Two or more Race Categories	3	0.9	*	*	*
Age category³					
UNDER 1 YEAR	0	0.0	*	*	*
1-4 YEARS	0	0.0	*	*	*
5-14 YEARS	0	0.0	*	*	*
15-24 YEARS	0	0.0	*	*	*
25-34 YEARS	0	0.0	*	*	*
35-44 YEARS	4	1.2	*	*	*
45-54 YEARS	10	3.0	*	*	*
55-64 YEARS	11	3.3	*	*	*
65-74 YEARS	33	9.8	86.5	59.5	121.4
75-84 YEARS	98	29.2	356.6	289.5	434.6
85 YEARS AND OVER	180	53.6	1320.6	1127.7	1513.5
Causes					
Subarachnoid hemorrhage (ICD10 I60)	6	1.9	*	*	*
Intracerebral and other intracranial hemorrhage (ICD10 I61-I62)	53	17.9	8.0	5.8	10.2
Cerebral Infarction (ICD10 I63)	15	3.4	2.0	1.0	3.0
Stroke, not specified as hemorrhage or infarction (ICD10 I64)	157	47.3	21.2	17.8	24.5
Other cerebrovascular disease and their sequelae (ICD10 I67, I69)	105	29.4	14.1	11.3	16.8

1Cause of death ICD10 I60-I69

2Rates are age-adjusted per 100,000 persons

3Rates are age-specific per 100,000 persons

*Rates are unstable due to small numbers

Note: 95% CI are confidence intervals for the age-adjusted and age-specific rates. The confidence interval indicates the degree of reliability of a measurement (rate).

Sources: California Department of Public Health, Center for Health Statistics Death Statistical Master files 2005, 2006, 2007& 2008; State of California, Department of Finance, Race/Ethnic Population with Age and Sex Detail, 2000–2050. Sacramento, CA, July 2007.