

CHAPTER 9: CARDIOVASCULAR DISEASE

Heart Attack, Angina, and Stroke in 2006

Definition

In 2006, responding “Yes” to the following: “Has a doctor, nurse, or other health professional ever told you that you had any of the following? For each, tell me ‘yes,’ ‘no,’ or you’re ‘not sure.’” The follow-up questions were “. . . ever told you had a heart attack, also called a myocardial infarction?” “. . . ever told you had angina or coronary heart disease?” “. . . ever told you had a stroke?” (In 2004 and earlier years, the questions were similar but not identical.)

Prevalence

Heart Attack

WV: 7.5% (95% CI: 6.8-8.3) in 2006.

US: 4.4% (95% CI: 4.3-4.6) in 2006.

West Virginia ranked 1st highest among 50 US States and DC in 2006.

Angina

WV: 8.3% (95% CI: 7.4-9.2) in 2006.

US: 4.6% (95% CI: 4.5-4.7) in 2006.

West Virginia ranked 1st highest among 50 US States and DC in 2006.

Stroke

WV: 4.2% (95% CI: 3.5-4.8) in 2006.

US: 2.7% (95% CI: 2.6-2.8) in 2006.

West Virginia ranked 2nd highest among 50 US States and DC in 2006.

Gender

Heart attack differences by gender

Men: 9.2% (95% CI: 7.8-10.6) in 2006.

Women: 5.9% (95% CI: 4.9-6.9) in 2006.

Men had a significantly higher incidence of heart attack than women.

Angina differences by gender

Men: 8.8% (95% CI: 7.4-10.2) in 2006.

Women: 7.9% (95% CI: 6.8-9.0) in 2006.

There were no significant differences in angina rates between men and women.

Stroke differences by gender

Men: 3.9% (95% CI: 2.9-4.8) in 2006.

Women: 4.5% (95% CI: 3.6-5.4) in 2006.

Women experienced stroke slightly more often than men.

Age, Education, & Household Income

Those aged 65 and older experienced heart attack, angina, and stroke significantly more often than those in younger age groups. Adults with less than a high school education carried a significantly higher risk of heart attack, angina, and stroke than those with more education. Heart attack and angina or other coronary heart disease were significantly more common among those in the less than \$35,000 annually income groups than among those with household incomes of \$35,000 or more per year.

Table 9.1 Heart attack, angina, or stroke by demographic characteristics: WVBRFSS, 2006

Characteristic	Heart Attack or Myocardial Infarction			Angina or Coronary Heart Disease			Stroke		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
TOTAL	3,782	7.5	6.6-8.3	3,768	8.3	7.4-9.2	3,784	4.2	3.5-4.8
Sex									
Males	1,489	9.2	7.8-10.6	1,485	8.8	7.4-10.2	1,491	3.9	2.9-4.8
Females	2,293	5.9	4.9-6.9	2,283	7.9	6.8-9.0	2,293	4.5	3.6-5.4
Age									
18-44	na	na	na	na	na	na	na	na	na
45-54	757	5.6	3.9-7.3	757	6.3	4.5-8.0	760	3.1	1.9-4.3
55-64	832	12.3	9.8-14.8	830	15.0	12.4-17.6	831	5.2	3.6-6.8
65+	1,016	19.2	16.5-21.9	1,006	20.7	17.9-23.5	1,016	12.0	9.7-14.3
Education									
Less than H.S.	615	17.7	14.6-20.7	607	15.6	12.7-18.5	616	10.4	7.9-12.9
H.S. or G.E.D.	1,488	6.8	5.5-8.2	1,485	8.4	7.0-9.8	1,490	4.0	3.0-5.1
Some Post-H.S.	822	5.4	3.9-6.9	821	6.6	4.9-8.2	821	2.8	1.7-3.9
College Graduate	850	3.3	2.0-4.6	848	4.9	3.4-6.4	850	1.1	0.5-1.8
Income									
Less than \$15,000	578	13.8	10.9-16.8	578	15.6	12.5-18.7	580	10.3	7.7-13.0
\$15,000- 24,999	727	10.8	8.5-13.2	724	12.0	9.5-14.5	728	6.3	4.5-8.1
\$25,000- 34,999	494	9.2	6.5-11.8	493	10.6	7.8-13.4	495	3.9	2.1-5.7
\$35,000- 49,999	524	3.9	2.2-5.7	524	5.4	3.4-7.4	524	* 1.3	0.4-2.3
\$50,000- 74,999	498	2.7	1.2-4.2	497	5.1	3.2-6.9	497	* 1.9	0.7-3.0
\$75,000+	509	2.5	1.3-3.8	509	3.6	2.1-5.2	509	* 0.9	0.2-1.7

* Use caution when interpreting and reporting this specific estimate. See the detailed discussion of estimates in the Methodology section.

Figure 9.1 Adults diagnosed with heart attack, angina, or stroke by county: WVBRFSS, 2002-2006

