Cardiovascular Disease

PREVIOUSLY HAD A HEART ATTACK

Definition: South Dakotans who answered "yes" to the question: "Has a doctor, nurse, or other health professional ever told you that you had a heart attack, also called a myocardial infarction?"

Prevalence of Previous Heart Attack

- o South Dakota 4%
- Nationwide median 4%

Trend Analysis

Overall, the percent of South Dakotans who have been told they have ever had a heart attack has remained steady since 2011. In more recent years this percent has dropped to four percent. South Dakota is the same as the nationwide median.

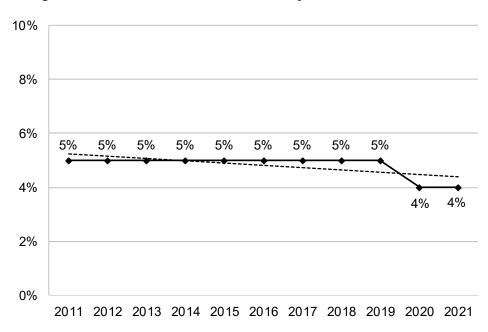


Figure 27 Percentage of South Dakotans Who Previously Had a Heart Attack, 2011-2021

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011-2021

Table 25 South Dakotans Who Previously Had a Heart Attack, 2017-2021				
	•		95% Confidence Interval	
		2017-2021	Low	High
Candar	Male	6%	5.6%	7.0%
Gender	Female	3%	2.7%	3.5%
	18-29	1%	0.5%	1.6%
	30-39	1%	0.6%	1.5%
	40-49	3%	1.7%	4.1%
Age	50-59	4%	3.5%	5.6%
•	60-69	8%	6.5%	8.9%
	70-79	12%	10.5%	14.1%
	80+	14%	11.5%	16.8%
	White, Non-Hispanic	5%	4.2%	5.1%
	American Indian, Non-Hispanic	7%	5.2%	9.2%
Race/ Ethnicity	American Indian/White, Non-Hispanic	2%	1.0%	5.4%
	Hispanic	4%	2.0%	8.5%
	Less than \$35,000	6%	5.6%	7.4%
Household Income	\$35,000-\$74,999	5%	3.9%	5.5%
nousenoiu income	\$75,000+	3%	2.3%	3.8%
	Less than High School, G.E.D.	7%	5.1%	9.2%
	High School, G.E.D.	6%	4.9%	9.2 <i>%</i> 6.7%
Education	Some Post-High School	4%	3.7%	5.1%
	College Graduate	3%	2.6%	3.6%
	Employed for Wages	3%	2.1%	3.0%
	Self-employed	3%	2.4% 2.2%	4.9%
Fundarian to Ctatura	Unemployed	3%	2.2%	5.4%
Employment Status	Homemaker	4% 0.3%	0.1%	6.8% 1.2%
	Student	0.3%		12.5%
	Retired		10.0%	
	Unable to Work	12%	9.0%	14.7%
	Married/Unmarried Couple	5%	4.4%	5.7%
Marital Status	Divorced/Separated	<u>6%</u>	4.8%	7.3%
	Widowed	10%	8.6%	12.2% 2.1%
	Never Married	2%	1.2%	
Home Ownership	Own Home	5%	4.6%	5.6%
Status	Rent Home	4%	3.1%	4.7%
Children Status	Children in Household (Ages 18-44)	1%	0.6%	1.6%
	No Children in Household (Ages 18-44)	1%	0.4%	1.2%
Phone Status	Landline	7%	6.0%	7.5%
	Cell Phone	4%	3.5%	4.5%
Pregnancy Status	Pregnant (Ages 18-44)	0%	0.0%	1.6%
i regnancy Status	Not Pregnant (Ages 18-44)	1%	0.4%	1.4%
	Minnehaha	4%	3.3%	5.0%
County	Pennington	5%	3.7%	5.5%
	Lincoln	4%	2.2%	7.0%
	Brown	4%	3.4%	5.1%
-	Brookings	3%	2.2%	3.8%
	Codington	5%	4.1%	6.5%
	Meade	4%	3.0%	5.6%

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2017-2021

Demographics	
	lales exhibit a significantly higher prevalence of a previous heart attack than emales.
•	he prevalence of a previous heart attack increases as age increases with ignificant increases as the 40s, 60s, and 70s are reached.
	merican Indians demonstrate a very high prevalence of a previous heart ttack, while whites show a very low prevalence.
Income inc	The prevalence of a previous heart attack decreases as household income increases. This includes significant decreases as the \$35,000-\$74,999 and 75,000+ household income levels are reached.
ine	The prevalence of a previous heart attack decreases as education levels increase. This includes a significant decrease as the college graduate level is eached.
of	hose who are retired or unable to work demonstrate a very high prevalence f a previous heart attack, while those who are students show a very low revalence.
	hose who are widowed exhibit a very high prevalence of a previous heart ttack while those who have never been married show a very low prevalence.
	he prevalence of a previous heart attack does not seem to differ based on ome ownership status.
	he prevalence of a previous heart attack among adults does not seem to iffer based on the presence of children in the household.
pr	hose who primarily use a landline phone show a significantly higher revalence of a previous heart attack than those who primarily use a cell hone.
u	he prevalence of a previous heart attack does not seem to differ based on regnancy status.
pr	Residents of Codington county demonstrate a very high prevalence of a revious heart attack, while residents of Brookings county show a very low revalence.

ANGINA OR CORONARY HEART DISEASE

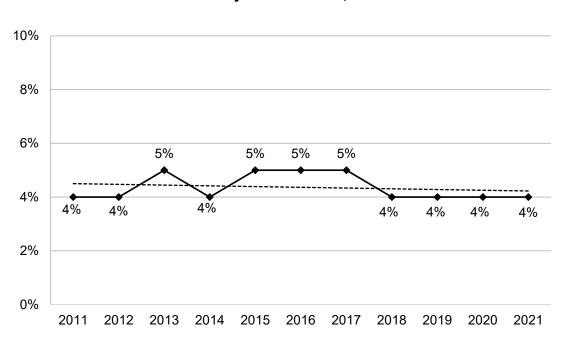
Definition: South Dakotans who answered "yes" to the question: "Has a doctor, nurse, or other health professional ever told you that you have angina or coronary heart disease?"

Prevalence of Angina or Coronary Heart Disease

- South Dakota 4%
- Nationwide median 4%

Trend Analysis

Overall, the percent of South Dakotans who have been told they have angina or coronary heart disease has remained steady since 2011. In recent years this has been at four percent. South Dakota is the same as the nationwide median.





Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011-2021

			95% Confide	nce Interval
		2017-2021	Low	High
Condon	Male	6%	5.0%	6.4%
Gender	Female	3%	2.8%	3.6%
	18-29	1%	0.3%	1.0%
	30-39	0.4%	0.2%	0.8%
	40-49	2%	1.0%	3.1%
Age	50-59	5%	3.5%	5.7%
0.	60-69	8%	6.4%	9.0%
	70-79	13%	11.4%	15.0%
	80+	13%	11.0%	15.9%
	White, Non-Hispanic	5%	4.1%	5.0%
	American Indian, Non-Hispanic	5%	3.3%	7.3%
Race/ Ethnicity	American Indian/White, Non-Hispanic	2%	0.9%	4.7%
	Hispanic	3%	1.5%	5.7%
	Less than \$35,000	6%	5.0%	6.9%
Household	\$35,000-\$74,999	4%	3.8%	5.3%
Income	\$75,000+	3%	2.5%	3.9%
	Less than High School, G.E.D.	5%	3.5%	7.2%
	High School, G.E.D.	5% 6%	4.9%	6.7%
Education	Some Post-High School	4%	3.2%	4.4%
	College Graduate	4%	3.0%	4.4%
	Employed for Wages	2%	1.6%	2.4%
	Self-employed	3%	2.3%	4.9%
	Unemployed	3%	1.5%	5.8%
Employment	Homemaker	3%	1.6%	4.7%
Status	Student	0.04%	0.0%	0.3%
	Retired	12%	10.8%	13.3%
	Unable to Work	12 %	7.2%	13.9%
	Married/Unmarried Couple	5%	4.1%	5.2%
	Divorced/Separated	6%	4.7%	7.3%
Marital Status	Widowed	10%	8.8%	12.3%
	Never Married	2%	1.0%	2.2%
Home Ownership	Own Home	5%	4.6%	5.6%
Status	Rent Home	3%	2.5%	4.0%
		1%	0.3%	4.0%
Children Status	Children in Household (Ages 18-44) No Children in Household (Ages 18-44)	0.3%	0.3%	0.7%
	Landline	7%	6.2%	7.8%
Phone Status	Cell Phone	4%	3.1%	4.0%
D				
Pregnancy	Pregnant (Ages 18-44)	0.1%	0.0%	0.5%
Status	Not Pregnant (Ages 18-44)	0.5%	0.3%	0.9%
County	Minnehaha	4%	3.2%	4.9%
	Pennington	5%	3.8%	5.6%
	Lincoln	3%	2.0%	4.6%
	Brown	4%	3.2%	5.3%
	Brookings Codington	2% 4%	<u>1.7%</u> 3.3%	2.7% 5.0%
		/1.%	· · · · · · · · · · · · · · · · · · ·	5 11%

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2017-2021

<u>Demographics</u> Gender	Males exhibit a significantly higher prevalence of heart disease than females.
Age	The prevalence of heart disease generally increases as age increases with significant increases as the 40s, 50s, 60s, and 70s are reached.
Race/ Ethnicity	The prevalence of heart disease does not seem to differ based on race/ethnicity.
Household Income	The prevalence of heart disease decreases as household income increases.
Education	The prevalence of heart disease does not seem to consistently change as education levels increase.
Employment	Those who are retired or unable to work demonstrate a very high prevalence of heart disease, while those who are students show a very low prevalence.
Marital Status	Those who are widowed exhibit a very high prevalence of heart disease, while those who have never been married show a very low prevalence.
Home Ownership	Those who own their home demonstrate a significantly higher prevalence of heart disease than those who rent their home.
Children Status	The prevalence of heart disease among adults does not seem to differ based on the presence of children in the household.
Phone Status	Those who primarily use a landline phone show a significantly higher prevalence of heart disease than those who primarily use a cell phone.
Pregnancy Status	The prevalence of heart disease does not seem to differ based on pregnancy status.
County	Minnehaha, Pennington, Brown, and Codington counties demonstrate a very high prevalence of heart disease, while Brookings county shows a very low prevalence.

PREVIOUSLY HAD A STROKE

Definition: South Dakotans who answered "yes" to the question: "Has a doctor, nurse, or other health professional ever told you that you had a stroke?"

Prevalence of Previous Stroke

- South Dakota 3%
- Nationwide median 3%

Trend Analysis

Overall, the percent of South Dakotans who have been told they have had a stroke has remained steady since 2011. For most of the years surveyed, this has been at three percent. South Dakota is the same as the nationwide median.

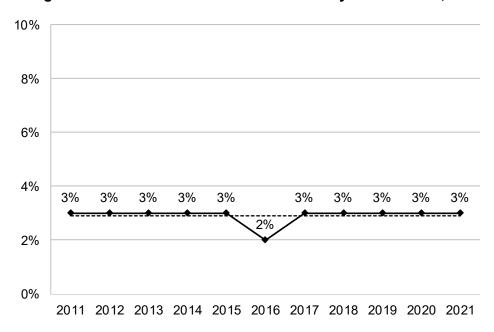


Figure 29 Percentage of South Dakotans Who Have Previously Had a Stroke, 2011-2021

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2011-2021

			95% Confide	ence Interval
		2017-2021	Low	High
	Male	3%	2.4%	3.3%
Gender	Female	3%	2.2%	3.1%
	18-29	0.4%	0.2%	0.9%
	30-39	1%	0.4%	1.0%
	40-49	2%	1.0%	2.8%
Age	50-59	3%	2.1%	4.1%
0	60-69	4%	3.2%	5.1%
	70-79	6%	5.2%	7.7%
	80+	9%	7.4%	11.6%
	White, Non-Hispanic	3%	2.3%	3.0%
	American Indian, Non-Hispanic	4%	3.2%	5.5%
Race/ Ethnicity	American Indian/White, Non-Hispanic	1%	0.5%	1.9%
	Hispanic	4%	1.6%	8.0%
	Less than \$35,000	4%	3.6%	5.3%
lousehold Income	\$35,000-\$74,999	2%	1.3%	2.0%
iousenoiu income	\$75,000+	1%	1.1%	2.0%
		5%	3.3%	7.3%
	Less than High School, G.E.D. High School, G.E.D.	3%	2.4%	3.6%
ducation		3%	2.4%	3.0%
	Some Post-High School College Graduate	2%	1.5%	2.4%
	Employed for Wages	1%	0.8%	1.4%
	Self-employed	1%	0.8% 1.2%	1.8%
	Unemployed	2% 4%		3.0%
mployment Status	Homemaker		2.0%	8.4%
	Student	0.4% 6%	0.1% 5.6%	1.4% 7.5%
	Retired	6% 12%	<u> </u>	16.2%
	Unable to Work			
	Married/Unmarried Couple	2%	2.0%	2.8%
larital Status	Divorced/Separated	4%	2.9%	4.8%
	Widowed	9%	7.0%	11.4%
	Never Married	1%	0.8%	1.9%
Iome Ownership	Own Home	3%	2.3%	3.1%
itatus	Rent Home	3%	2.3%	3.8%
Children Status	Children in Household (Ages 18-44)	1%	0.5%	1.3%
	No Children in Household (Ages 18-44)	0.5%	0.3%	0.8%
Phone Status	Landline	4%	3.6%	4.7%
	Cell Phone	2%	1.9%	2.6%
Pregnancy Status County	Pregnant (Ages 18-44)	0.2%	0.1%	0.6%
	Not Pregnant (Ages 18-44)	1%	0.4%	1.2%
	Minnehaha	2%	1.4%	2.4%
	Pennington	3%	2.3%	3.8%
	Lincoln	3%	1.5%	6.2%
	Brown	3%	2.1%	3.7%
	Brookings	2%	1.5%	2.8%
	Codington	3%	2.5%	4.2%
	Meade	2%	1.7%	2.9%

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2017-2021

Demographics

Gender	The prevalence of a previous stroke does not seem to differ by gender.
Age	The prevalence of a previous stroke increases as age increases. This includes a significant increase as the 70s are reached.
Race/ Ethnicity	American Indians demonstrate a very high prevalence of a previous stroke, while American Indian/whites show a very low prevalence.
Household Income	The prevalence of a previous stroke decreases as household income increases. This includes a significant decrease as the \$35,000-\$74,999 household income level is reached.
Education	The prevalence of a previous stroke decreases as education levels increase.
Employment	Those who are unable to work demonstrate a very high prevalence of a previous stroke, while those who are employed for wages, self-employed, unemployed, or a student show a very low prevalence.
Marital Status	Those who are widowed exhibit a very high prevalence of a previous stroke while those who have never been married show a very low prevalence.
Home Ownership	The prevalence of a previous stroke does not seem to differ based on home ownership status.
Children Status	The prevalence of a previous stroke among adults does not seem to differ based on the presence of children in the household.
Phone Status	Those who primarily use a landline phone show a significantly higher prevalence of a previous stroke than those who primarily use a cell phone.
Pregnancy Status	The prevalence of a previous stroke does not seem to differ based on pregnancy status.
County	Residents of Codington county demonstrate a very high prevalence of a previous stroke, while residents of Minnehaha county show a very low prevalence.