

Texas Cardiovascular Health & Wellness Program Texas Department of State Health Services



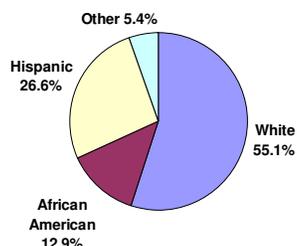
Stroke Facts

Texas Trauma Service Area (TSA) E

Updated July 2009

<http://www.dshs.state.tx.us/wellness/data.shtm>

Demography of TSA E in 2007 (Estimated Texas Population)



| Age | Total | Male | Female | Percent |
|--------------|------------------|------------------|------------------|--------------|
| 0-17 | 1,741,410 | 887,054 | 854,356 | 27.0 |
| 18-29 | 1,099,118 | 567,723 | 531,395 | 17.0 |
| 30-34 | 1,602,015 | 819,341 | 782,674 | 24.8 |
| 35-64 | 1,487,781 | 739,399 | 748,382 | 23.0 |
| 65+ | 525,212 | 225,912 | 299,300 | 8.1 |
| Total | 6,455,536 | 3,239,429 | 3,216,107 | 100.0 |

Prevalence¹ (%) of Stroke, Adults (18+ years), 2005 - 2008

Stroke Age-Adjusted Mortality Rates² per 100,000, 2001- 2006

| | Prevalence (%) | | Mortality Rates per 100,000 | | | |
|-------------------------|----------------|-------|-----------------------------|-------|---------------|---------------|
| | TSA E | Texas | TSA E | Texas | TSA E Age <65 | TSA E Age 65+ |
| Total | 2.6 | 2.7 | 72.1 | 57.4 | 10.8 | 499.6 |
| Male | 2.3 | 2.3 | 69.4 | 53.8 | 10.1 | 443.6 |
| Female | 2.8 | 3.0 | 73.5 | 59.1 | 11.6 | 539.7 |
| White | 2.8 | 2.9 | 71.4 | 56.2 | 11.3 | 502.2 |
| African American | 4.1 | 4.3 | 104.3 | 85.2 | 17.4 | 633.4 |
| Hispanic | 1.1 | 1.9 | 59.1 | 47.4 | * | 342.8 |

Hospital Discharge Data³ for Stroke, Texas, 2007

| | Total | | Age <65 | | Age 65+ | |
|-----------------------------|---------------|-----------------|---------------|---------------|---------------|-----------------|
| | TSA E | Texas | TSA E | Texas | TSA E | Texas |
| Number of Discharges | 12,532 | 51,249 | 4,761 | 18,332 | 7,771 | 32,917 |
| Ischemic | 10,318 | 42,343 | 3,664 | 14,064 | 6,654 | 28,279 |
| Hemorrhagic | 2,214 | 8,906 | 1,097 | 4,268 | 1,117 | 4,638 |
| Total Charges | \$492,705,651 | \$2,111,291,385 | \$227,645,085 | \$927,437,750 | \$265,060,566 | \$1,183,853,635 |
| Ischemic | \$334,272,824 | \$1,467,565,641 | \$128,517,840 | \$532,312,708 | \$205,754,984 | \$935,252,932 |
| Hemorrhagic | \$158,432,827 | \$643,725,744 | \$99,127,245 | \$395,125,041 | \$59,305,582 | \$248,600,703 |

Texas EMS/Trauma Registry Data⁴ for TSA E by Time (Min), 2007

| | TSA E | Texas |
|-------------------------------------------------------------------------------------|-------|-------|
| Response Time = (Time Call Received - Time EMS Arrived on Scene) | 8.9 | 9.1 |
| Scene Time = (Time EMS Arrived on Scene – Time EMS Departed Scene) | 17.8 | 18.1 |
| Transport Time = (Time EMS Departed Scene – Time EMS Arrived at Destination) | 13.0 | 14.3 |
| Delivery Time = (Time Call Received – Time EMS Arrived at Destination) | 40.5 | 40.2 |

¹ 2005, 2006, 2007, and 2008 Texas Behavioral Risk Factor Surveillance System, Statewide BRFSS Survey, for Respondents 18 years and older who report that they have been diagnosed as having had a stroke.

² 2001-2006 Texas Department of State Health Services Vital Statistics Unit. Mortality due to stroke (ICD-10 Code I60-I69). Age adjusted to the US 2000 census population

³ 2007 Texas Health Care Information Council, Inpatient Hospital Discharge Public Use File, for persons all ages. Stroke (ICD-9 Code 430-432, 436-438,433,434).

⁴ Texas EMS/Trauma Registry Data Selected in 2007. The selection criteria are:

- Calls received during 2007
- Suspected Illness types defined as stroke/CVA
- Medical-related calls only (i.e. calls exclusively related to trauma were excluded)
- 911 calls only (no inter-facility transfers)
- Texas residents only

* Unable to calculate due to small sample size (< 50 respondents).

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**Stroke Facts
Texas Trauma Service Area (TSA) E**

Stroke Risk Factors¹, Texas, 2005, 2006, 2007, 2008

| Diabetes | TSA E | Texas | High Blood Cholesterol (2005 & 2007) | TSA E | Texas |
|-------------------------------------|--------------|--------------|----------------------------------------------------------|--------------|--------------|
| Total | 8.1 | 9.0 | Total | 36.9 | 36.4 |
| Male | 8.5 | 8.8 | Male | 38.8 | 37.0 |
| Female | 7.7 | 9.2 | Female | 35.1 | 35.8 |
| White | 7.6 | 8.0 | White | 39.2 | 38.2 |
| African American | 11.9 | 12.4 | African American | 26.4 | 32.1 |
| Hispanic | 7.0 | 10.0 | Hispanic | 34.6 | 33.4 |
| Current Smoker | TSA E | Texas | High Blood Pressure (2005 & 2007) | TSA E | Texas |
| Total | 17.6 | 18.9 | Total | 25.1 | 26.1 |
| Male | 18.4 | 22.0 | Male | 26.2 | 25.9 |
| Female | 16.9 | 16.0 | Female | 24.2 | 26.3 |
| White | 18.0 | 19.7 | White | 26.8 | 28.5 |
| African American | 26.3 | 22.6 | African American | 35.4 | 38.5 |
| Hispanic | 12.8 | 16.7 | Hispanic | 17.8 | 19.2 |
| Obesity² (BMI≥30) | TSA E | Texas | No Leisure Time Physical Activity³ | TSA E | Texas |
| Total | 25.6 | 27.7 | Total | 25.0 | 28.2 |
| Male | 26.2 | 28.1 | Male | 23.1 | 25.4 |
| Female | 25.0 | 27.3 | Female | 27.0 | 30.8 |
| White | 23.8 | 24.7 | White | 21.3 | 23.6 |
| African American | 37.3 | 38.1 | African American | 32.2 | 32.8 |
| Hispanic | 29.1 | 31.8 | Hispanic | 33.7 | 35.5 |

Recognition of Stroke Symptoms¹, 2005

| Stroke Symptoms | % Of Respondents Recognizing Symptoms | |
|----------------------------------------------------------------------------------|----------------------------------------------|--------------|
| | TSA E | Texas |
| Sudden confusion or trouble speaking | 78.7 | 76.3 |
| Sudden numbness or weakness of face, arms, legs (especially on one side) | 90.0 | 86.5 |
| Sudden trouble seeing in one or both eyes | 62.8 | 61.6 |
| Sudden trouble walking, dizziness, or loss of balance | 79.7 | 78.2 |
| Severe headache with no known cause | 54.2 | 57.4 |
| Recognizes all stroke symptoms | 17.3 | 17.0 |
| Would call 911 as a first response if Heart Attack OR Stroke is suspected | 88.2 | 85.1 |

¹ 2005, 2006, 2007 and 2008 Texas Behavioral Risk Factor Surveillance System, Statewide BRFSS Survey, for Respondents 18 years and older who report that they have been diagnosed with high Blood Pressure, but not during pregnancy; Respondents 18 years and older who report that they have been diagnosed with high Blood Cholesterol; Respondents 18 years and older who report that they have been diagnosed with Diabetes. Does not include gestational diabetes

² Obese > 95th Percentile for BMI by Age/Sex <http://apps.nccd.cdc.gov/yrbss/QuestYearTable.asp?ByVar=C1&cat=6&quest=Q80&loc=XX&year=2007>

³ Recommendation: Physical Activity -Percentage of students who were physically active doing any kind of physical activity that increased their heart rate and made them breathe hard some of the time for a total of at least 60 minutes per day on five or more of the 7 days before the survey

<http://apps.nccd.cdc.gov/yrbss/QuestYearTable.asp?ByVar=C1&cat=6&quest=Q80&loc=XX&year=2007>

The "" indicates that the sample size was not a statistically valid sample size (< 50 respondents).