

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



Heart Attack Facts

Texas Trauma Service Area (TSA) K

Updated November 2009

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

Demography of TSA K in 2007 (Estimated Texas Population)

	Age	Total	Male	Female	Percent
	0-17	39,101	20,023	19,078	24.1
	18-29	30,734	16,054	14,680	19.0
	30-34	27,988	14,134	13,854	17.3
	35-64	38,940	18,988	19,952	24.0
	65+	25,218	10,914	14,304	15.6
	Total		161,981	80,113	81,868

	Prevalence ¹ (%) of Heart Attack, Adults (18+ years), 2005 - 2008		Heart Attack Age-Adjusted Mortality Rates ² (per 100,000) 2001- 2006			
	TSA K	Texas	TSA K	Texas	TSA K Ages <65	TSA K Ages 65+
Total	6.3	4.5	103.5	69.9	26.0	660.8
Male	9.3	3.6	119.3	86.2	32.7	699.0
Female	3.2	5.0	90.4	56.8	19.3	632.7
White	8.6	3.8	99.3	69.2	28.6	654.1
African American	*	2.4	181.7	87.0	40.5	1081.4
Hispanic	1.6	3.9	111.2	64.9	20.5	641.9

Hospital Discharge Data³ for Heart Attack, Texas, 2007

	Total		Age <65		Age 65+	
	TSA K	Texas	TSA K	Texas	TSA K	Texas
	Number of Discharges	401	39,359	184	18,631	217
Total Charges	\$24,118,629	\$2,573,106,724	\$11,674,777	\$1,265,804,938	\$12,443,853	\$1,307,301,786

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

	TSA K	Texas
Response Time = (Time Call Received - Time EMS Arrived on Scene)	9.0	8.3
Scene Time = (Time EMS Arrived on Scene – Time EMS Departed Scene)	18.6	18.5
Transport Time = (Time EMS Departed Scene – Time EMS Arrived at Destination)	22.2	14.5
Delivery Time = (Time Call Received – Time EMS Arrived at Destination)	49.3	39.7

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 Heart Attack, Myocardial Infarction.

² 2001-2006 Texas Department of State Health Services Vital Statistics. Mortality due to Heart Attack (ICD-10 Code I21-I22); 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. heart attack (ICD-9 Code 410);

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

- Calls received during 2007
- Suspected Illness types defined as cardiac arrest, cardiac rhythm disturbance, and chest pain/discomfort
- 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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Heart Attack Risk Factors¹, Texas, 2005, 2006, 2007, 2008

Diabetes	TSA K	Texas	High Blood Cholesterol (2005 & 2007)	TSA K	Texas
Total	7.0	9.0	Total	35.5	36.4
Male	6.1	8.8	Male	32.6	37.0
Female	7.9	9.2	Female	37.9	35.8
White	6.4	8.0	White	39.9	38.2
African American	*	12.4	African American	*	32.1
Hispanic	6.9	10.0	Hispanic	*	33.4
Current Smoker	TSA K	Texas	High Blood Pressure (2005 & 2007)	TSA K	Texas
Total	26.4	18.9	Total	28.9	26.1
Male	31.4	22.0	Male	32.0	25.9
Female	21.0	16.0	Female	26.1	26.3
White	25.6	19.7	White	32.6	28.5
African American	*	22.6	African American	*	38.5
Hispanic	24.8	16.7	Hispanic	11.7	19.2
Obesity² (BMI≥30)	TSA K	Texas	No Leisure Time Physical Activity³	TSA K	Texas
Total	23.2	27.7	Total	28.4	28.2
Male	23.5	28.1	Male	25.4	25.4
Female	22.8	27.3	Female	31.6	30.8
White	25.3	24.7	White	29.7	23.6
African American	*	38.1	African American	*	32.8
Hispanic	20.8	31.8	Hispanic	26.9	35.5

Recognition of Heart Attack Symptoms¹ (2005)

Heart Attack Symptoms	% Of Respondents Recognizing Symptoms	
	TSA K	Texas
Pain or discomfort in jaw, neck or back	38.0	39.3
Feeling weak, lightheaded, or faint	50.5	54.1
Chest pain or discomfort	83.0	86.5
Pain or discomfort in the arms or shoulders	76.8	78.4
Shortness of breath	78.1	79.0
<i>Recognizes all heart attack symptoms</i>	3.4	8.9
Would call 911 as a first response if Heart Attack OR Stroke is suspected	85.5	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).