

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

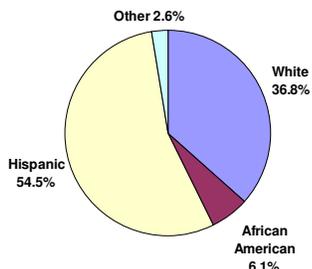


## ST Elevation Myocardial Infarction (STEMI) Facts Texas Trauma Service Area (TSA) P

Updated March 2010

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

### Demography of TSA P in 2008 (Estimated Texas Population)



Age	Total	Male	Female	Percent
0-17	606,091	308,901	297,190	26.4
18-29	426,209	218,942	207,267	18.6
30-34	459,282	228,655	230,627	20.0
35-64	547,880	263,482	284,398	23.8
65+	258,157	110,125	148,032	11.2
<b>Total</b>	<b>2,297,619</b>	<b>1,130,105</b>	<b>1,167,514</b>	<b>100.0</b>

### Prevalence<sup>1</sup> (%) of Heart Attack, Adults (18+ years), 2005 - 2008

### Heart Attack Age-Adjusted Mortality Rates<sup>2</sup> (per 100,000) 2001- 2006

	TSA P		Texas		TSA P Ages <65		TSA P Ages 65+	
	TSA P	Texas	TSA P	Texas	TSA P	Texas	TSA P	Texas
<b>Total</b>	4.1	4.5	63.8	69.9	11.7	416.8		
<b>Male</b>	4.9	3.6	80	86.2	17.0	479		
<b>Female</b>	3.3	5.0	51.1	56.8	6.5	370.7		
<b>White</b>	4.3	3.8	59.9	69.2	14.8	401.8		
<b>African American</b>	4.6	2.4	98.0	87.0	13.9	627.1		
<b>Hispanic</b>	3.7	3.9	66.7	64.9	9.4	416.5		

### Hospital Discharge Data<sup>3</sup> for STEMI, Texas, 2008

	Total		Age <65		Age 65+	
	TSA P	Texas	TSA P	Texas	TSA P	Texas
	<b>Number of Discharges</b>	995	11,630	580	6,932	415
<b>Total Charges</b>	\$76,855,182	\$926,981,129	\$43,649,190	\$544,602,262	\$33,205,992	\$382,378,867

### Texas EMS/Trauma Registry Data<sup>4</sup> for TSA P by Time (Min), 2007

	TSA P	Texas
<b>Response Time = (Time Call Received - Time EMS Arrived on Scene)</b>	8.6	8.3
<b>Scene Time = (Time EMS Arrived on Scene - Time EMS Departed Scene)</b>	22.9	18.5
<b>Transport Time = (Time EMS Departed Scene - Time EMS Arrived at Destination)</b>	12.2	14.5
<b>Delivery Time = (Time Call Received - Time EMS Arrived at Destination)</b>	43.8	39.7

<sup>1</sup> 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.

<sup>2</sup> 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

<sup>3</sup> 2008 Texas Health Care Information Council, Inpatient Hospital Discharge Public Use File, for persons all ages. STEMI (ICD-9 Code; 410.0 through 410.6 and 410.8.);

<sup>4</sup> 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 Facts  
Texas Trauma Service Area (TSA) P**

**Heart Attack Risk Factors<sup>1</sup>, Texas, 2005, 2006, 2007, 2008**

<b>Diabetes</b>	<b>TSA P</b>	<b>Texas</b>	<b>High Blood Cholesterol (2005 &amp; 2007)</b>	<b>TSA P</b>	<b>Texas</b>
Total	10.5	9.0	Total	35.9	36.4
Male	11.1	8.8	Male	38.8	37.0
Female	10.0	9.2	Female	33.2	35.8
White	7.5	8.0	White	36.5	38.2
African American	13.1	12.4	African American	26.0	32.1
Hispanic	13.3	10.0	Hispanic	37.4	33.4
<b>Current Smoker</b>	<b>TSA P</b>	<b>Texas</b>	<b>High Blood Pressure (2005 &amp; 2007)</b>	<b>TSA P</b>	<b>Texas</b>
Total	18.2	18.9	Total	25.8	26.1
Male	22.2	22.0	Male	25.7	25.9
Female	14.5	16.0	Female	26.0	26.3
White	16.2	19.7	White	28.1	28.5
African American	22.6	22.6	African American	31.0	38.5
Hispanic	19.7	16.7	Hispanic	22.7	19.2
<b>Obesity<sup>2</sup> (BMI≥30)</b>	<b>TSA P</b>	<b>Texas</b>	<b>No Leisure Time Physical Activity<sup>3</sup></b>	<b>TSA P</b>	<b>Texas</b>
Total	30.5	27.7	Total	24.7	28.2
Male	32.0	28.1	Male	21.0	25.4
Female	29.0	27.3	Female	28.1	30.8
White	24.0	24.7	White	21.2	23.6
African American	34.6	38.1	African American	28.0	32.8
Hispanic	36.4	31.8	Hispanic	28.8	35.5

**Recognition of Heart Attack Symptoms<sup>1</sup> (2005)**

<b>Heart Attack Symptoms</b>	<b>% Of Respondents Recognizing Symptoms</b>	
	<b>TSA P</b>	<b>Texas</b>
Pain or discomfort in jaw, neck or back	40.4	39.3
Feeling weak, lightheaded, or faint	61.3	54.1
Chest pain or discomfort	89.8	86.5
Pain or discomfort in the arms or shoulders	81.9	78.4
Shortness of breath	80.5	79.0
<i>Recognizes all heart attack symptoms</i>	10.3	8.9
<b>Would call 911 as a first response if Heart Attack OR Stroke is suspected</b>	85.5	85.1

<sup>1</sup> 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

<sup>2</sup> 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>

<sup>3</sup> 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).