

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



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

Updated March 2010

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

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

	Age	Total	Male	Female	Percent
	0-17	44,715	22,933	21,782	25.7
	18-29	30,657	15,764	14,893	17.6
	30-34	30,056	15,412	14,644	17.3
	35-64	43,123	21,393	21,730	24.8
	65+	25,144	10,910	14,234	14.5
	<b>Total</b>		<b>173,695</b>	<b>86,412</b>	<b>87,283</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 S	Texas	TSA S	Texas	TSA S Ages <65	TSA S Ages 65+
<b>Total</b>	3.7	4.5	87.8	69.9	19.1	579.5
<b>Male</b>	5.3	3.6	112.3	86.2	27.6	682.3
<b>Female</b>	2.3	5.0	67.9	56.8	10.4	502.1
<b>White</b>	5.0	3.8	86.2	69.2	21	589.3
<b>African American</b>	*	2.4	107.7	87.0	34.7	643.1
<b>Hispanic</b>	2.3	3.9	86	64.9	13.6	518.8

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

	Total		Age <65		Age 65+	
	TSA S	Texas	TSA S	Texas	TSA S	Texas
	<b>Number of Discharges</b>	99	11,630	47	6,932	52
<b>Total Charges</b>	\$6,985,952	\$926,981,129	\$3,769,928	\$544,602,262	\$3,216,024	\$382,378,867

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

	TSA S	Texas
<b>Response Time = (Time Call Received - Time EMS Arrived on Scene)</b>	7.1	8.3
<b>Scene Time = (Time EMS Arrived on Scene – Time EMS Departed Scene)</b>	17.4	18.5
<b>Transport Time = (Time EMS Departed Scene – Time EMS Arrived at Destination)</b>	11.9	14.5
<b>Delivery Time = (Time Call Received – Time EMS Arrived at Destination)</b>	34.8	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) S**

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

<b>Diabetes</b>	<b>TSA S</b>	<b>Texas</b>	<b>High Blood Cholesterol (2005 &amp; 2007)</b>	<b>TSA S</b>	<b>Texas</b>
Total	11.7	9.0	Total	41.0	36.4
Male	12.2	8.8	Male	39.8	37.0
Female	11.4	9.2	Female	41.9	35.8
White	12.2	8.0	White	41.1	38.2
African American	*	12.4	African American	*	32.1
Hispanic	12.1	10.0	Hispanic	*	33.4
<b>Current Smoker</b>	<b>TSA S</b>	<b>Texas</b>	<b>High Blood Pressure (2005 &amp; 2007)</b>	<b>TSA S</b>	<b>Texas</b>
Total	24.7	18.9	Total	30.7	26.1
Male	29.7	22.0	Male	33.3	25.9
Female	20.3	16.0	Female	28.7	26.3
White	27.4	19.7	White	34.0	28.5
African American	*	22.6	African American	*	38.5
Hispanic	21.3	16.7	Hispanic	*	19.2
<b>Obesity<sup>2</sup> (BMI≥30)</b>	<b>TSA S</b>	<b>Texas</b>	<b>No Leisure Time Physical Activity<sup>3</sup></b>	<b>TSA S</b>	<b>Texas</b>
Total	36.0	27.7	Total	31.3	28.2
Male	41.2	28.1	Male	34.8	25.4
Female	31.2	27.3	Female	28.3	30.8
White	25.9	24.7	White	28.2	23.6
African American	*	38.1	African American	*	32.8
Hispanic	52.1	31.8	Hispanic	36.0	35.5

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

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