

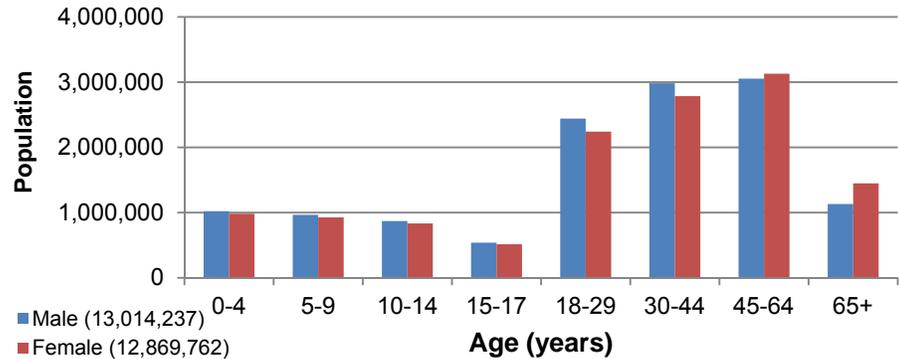
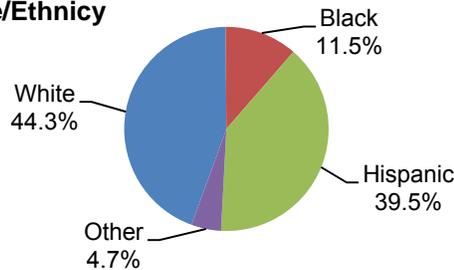


# Texas

### Demography of Texas<sup>1</sup>, 2011

**Total Population:** 25,883,999

#### Race/Ethnicity



Asthma Mortality Rates <sup>2</sup> * (per 100,000 persons), Texas, 2005-2011			Prevalence of Current Asthma Among Children <sup>3</sup> , Texas, 2011		Prevalence of Current Asthma Among Adults, Texas <sup>3</sup> , 2011			
	Deaths	Rate (95% CI)	Est. Number of Cases	Prevalence (95% CI)	Est. Number of Cases	Prevalence (95% CI)		
<b>Total</b>	1,428	0.9 (0.8, 0.9)	Total	556,773	8.0 (6.7, 9.3)	Total	1,352,057	7.4 (6.7, 8.1)
<b>Gender</b>			<b>Gender</b>			<b>Gender</b>		
Male	547	0.6 (0.6, 0.7)	Male	305,732	8.6 (6.8, 10.4)	Male	460,496	5.1 (4.2, 6.0)
Female	935	1.1 (1.0, 1.2)	Female	249,464	7.4 (5.6, 9.3)	Female	891,560	9.7 (8.6, 10.7)
<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>		
White	836	1.0 (1.0, 1.1)	White	201,043	8.2 (6.3, 10.1)	White	830,908	9.2 (8.2, 10.2)
Black	372	1.9 (1.7, 2.1)	Black	95,244	11.5 (7.1, 15.8)	Black	207,590	10.2 (7.5, 13.0)
Hispanic	212	0.3 (0.3, 0.4)	Hispanic	227,212	6.6 (4.8, 8.5)	Hispanic	256,336	4.2 (3.2, 5.2)
Other	62	0.8 (0.6, 1.1)	Other	10,237	7.1 (2.0, 12.1)	Other	43,815	5.2 (2.8, 7.5)
<b>Age Group (years)</b>			<b>Age Group (years)</b>			<b>Age Group (years)</b>		
0-4	30	0.2 (0.1, 0.3)	0-4	96,043	5.3 (3.1, 7.6)	18-29	204,640	4.9 (3.4, 6.3)
5-9	34	0.3 (0.2, 0.4)	5-9	190,587	10.3 (7.3, 13.3)	30-44	405,803	7.7 (6.3, 9.0)
10-14	21	0.2 (0.1, 0.2)	10-14	128,380	8.6 (6.2, 11.1)	45-64	498,079	8.5 (7.3, 9.7)
15-34	125	0.2 (0.2, 0.3)	15-17	100,530	9.4 (6.3, 12.6)	65+	216,196	8.1 (6.8, 9.3)
35-64	608	0.9 (0.9, 1.0)				<b>Smoking Status</b>		
65+	664	3.9 (3.6, 4.2)				Current	330,948	9.6 (7.7, 11.5)
						Former	352,429	9.0 (7.5, 10.5)
						Never	661,095	6.2 (5.4, 7.0)
						<b>Weight Status</b>		
						BMI ≤ 24.9	369,943	6.4 (5.2, 7.6)
						BMI 25.0-29.9	414,000	6.9 (5.8, 8.0)
						BMI 30.0-39.9	241,557	7.9 (6.2, 9.5)
						BMI ≥ 40	257,112	12.3 (9.6, 14.9)

**Data Sources:**

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

**Notes:**

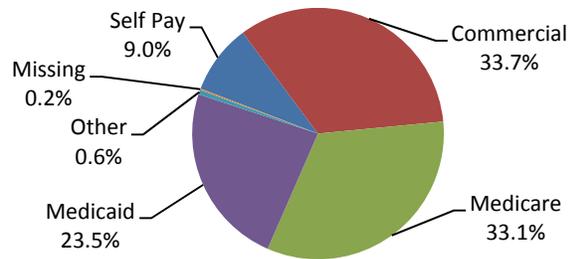
- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



## Texas

Asthma Hospitalization Rates <sup>4#</sup> (per 10,000 persons), Texas, 2011			Cost of Asthma-related Hospital Stays <sup>4#</sup> , Texas, 2011			
Characteristics	Discharges	Discharge Rate (95% CI)	Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
<b>Total</b>	24,405	9.4 (9.3, 9.5)	Total	24,405	100.0	622,988,188.73
<b>Gender</b>			Self Pay	2,700	11.1	55,935,074.78
Male	9,679	7.4 (7.3, 7.6)	Commercial	8,723	35.7	209,715,036.37
Female	14,725	11.4 (11.3, 11.6)	Medicare	5,989	24.5	206,092,614.95
<b>Race/Ethnicity</b>			Medicaid	6,852	28.1	146,399,543.85
White Non-Hispanic	10,138	8.8 (8.7, 9.0)	Other	128	0.5	3,777,975.35
Black Non-Hispanic	5,798	19.5 (19.0, 20.0)	Missing	13	0.1	1,067,943.43
Hispanic	6,773	6.6 (6.5, 6.8)				
Other Non-Hispanic	1,392	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>						
0-4	4,171	20.8 (20.1, 21.4)				
5-9	3,421	18.1 (17.4, 18.7)				
10-14	1,385	8.1 (7.7, 8.5)				
15-34	2,039	2.6 (2.5, 2.8)				
35-64	8,060	8.1 (7.9, 8.3)				
65+	5,329	20.6 (20.1, 20.6)				

Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis



## Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	115,692,846.20	150.98	827,249	300,955	49.4
Inpatient Hospital	31,998,286.65	3,230.19	9,906	8,502	11.5
Outpatient Hospital	35,323,649.11	276.97	127,535	70,095	27.6
Physician	48,370,910.48	76.92	628,841	280,884	43.8

### Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

### Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



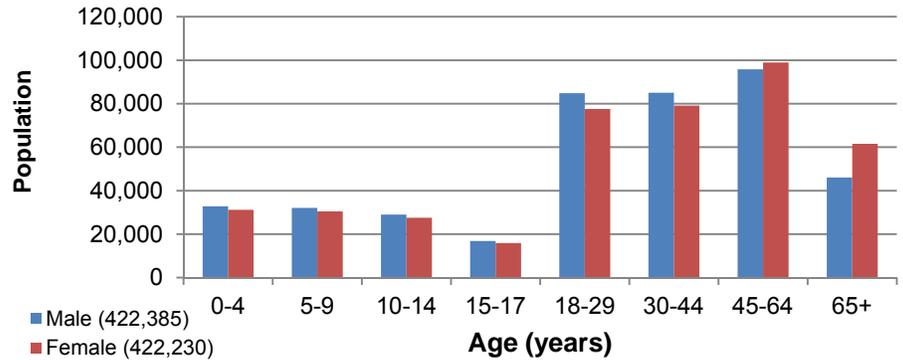
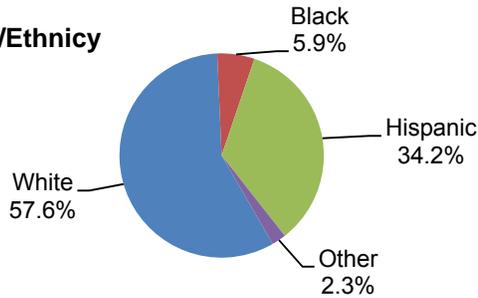


## Texas Health Service Region 1

### Demography of Texas Health Service Region (HSR) 1<sup>1</sup>, 2011

Total Population: 844,615

#### Race/Ethnicity



#### Asthma Mortality Rates<sup>2\*</sup> (per 100,000 persons), HSR 1, Texas, 2005-2011

	Region 1 (95% CI)	Texas (95% CI)
<b>Total</b>	1.2 (0.9, 1.5)	0.9 (0.8, 0.9)
<b>Gender</b>		
Male	0.9 (0.6, 1.3)	0.6 (0.6, 0.7)
Female	1.4 (1.0, 1.9)	1.1 (1.0, 1.2)
<b>Race/Ethnicity</b>		
White	1.3 (0.9, 1.7)	1.0 (1.0, 1.1)
Black	---	1.9 (1.7, 2.1)
Hispanic	---	0.3 (0.3, 0.4)
Other	---	0.8 (0.6, 1.1)
<b>Age Group (years)</b>		
0-4	---	0.2 (0.1, 0.3)
5-9	---	0.3 (0.2, 0.4)
10-14	---	0.2 (0.1, 0.2)
15-34	---	0.2 (0.2, 0.3)
35-64	1.6 (1.0, 2.1)	0.9 (0.9, 1.0)
65+	4.0 (2.6, 5.5)	3.9 (3.6, 4.2)

#### Prevalence of Current Asthma Among Children<sup>3</sup>, HSR 1, Texas, 2011

	Region 1 (95% CI)	Texas (95% CI)
<b>Total</b>	7.0 (3.1, 11.0)	8.0 (6.7, 9.3)
<b>Gender</b>		
Male	5.6 (2.6, 8.6)	8.6 (6.8, 10.4)
Female	8.4 (0.8, 16.1)	7.4 (5.6, 9.3)
<b>Race/Ethnicity</b>		
White	12.5 (3.9, 21.2)	8.2 (6.3, 10.1)
Black	---	11.5 (7.1, 15.8)
Hispanic	2.1 (0.1, 4.0)	6.6 (4.8, 8.5)
Other	---	7.1 (2.0, 12.1)
<b>Age Group (years)</b>		
0-4	6.4 (0.0, 15.4)	5.3 (3.1, 7.6)
5-9	4.1 (0.6, 7.5)	10.3 (7.3, 13.3)
10-14	14.2 (1.2, 27.1)	8.6 (6.2, 11.1)
15-17	6.6 (1.4, 11.8)	9.4 (6.3, 12.6)

#### Prevalence of Current Asthma Among Adults, HSR 1, Texas<sup>3</sup>, 2011

	Region 1 (95% CI)	Texas (95% CI)
<b>Total</b>	8.6% (5.3, 11.9)	7.4 (6.7, 8.1)
<b>Gender</b>		
Male	4.3% (1.9, 6.8)	5.1 (4.2, 6.0)
Female	13.1% (7.2, 19.0)	9.7 (8.6, 10.7)
<b>Race/Ethnicity</b>		
White	10.4% (5.7, 15.0)	9.2 (8.2, 10.2)
Black	13.6% (0.0, 29.4)	10.2 (7.5, 13.0)
Hispanic	4.3% (0.4, 8.2)	4.2 (3.2, 5.2)
Other	---	5.2 (2.8, 7.5)
<b>Age Group (years)</b>		
18-29	6.7 (0.0, 16.5)	4.9 (3.4, 6.3)
30-44	8.0 (2.3, 13.7)	7.7 (6.3, 9.0)
45-64	8.0 (4.0, 12.0)	8.5 (7.3, 9.7)
65+	13.3 (6.2, 20.3)	8.1 (6.8, 9.3)

#### Smoking Status

	Region 1 (95% CI)	Texas (95% CI)
Current	7.6 (2.6, 12.6)	9.6 (7.7, 11.5)
Former	11.3 (5.4-17.1)	9.0 (7.5-10.5)
Never	7.1 (2.2, 11.9)	6.2 (5.4-7.0)

#### Weight Status

	Region 1 (95% CI)	Texas (95% CI)
BMI < 30	6.9 (3.8, 10.0)	6.6 (5.8, 7.5)
BMI ≥ 30	13.1 (4.6, 21.5)	9.7 (8.2, 11.1)

#### Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

#### Notes:

--- Indicates sample size less than 50 respondents and/or too small to be statistically valid.

--- Indicates less than 20 reported deaths.

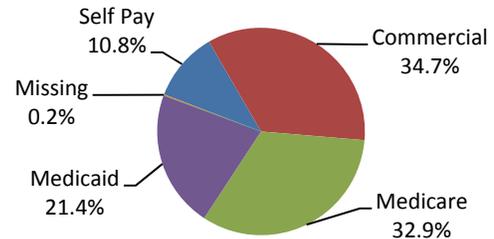
\* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death. Total asthma mortality rates and rates by gender and race/ethnicity are age-adjusted to the 2000 Census population. Asthma rates by age group cannot be age-adjusted.



### Texas Health Service Region 1

Asthma Hospitalization Rates <sup>4#</sup> (per 10,000 persons), HSR 1, Texas, 2011				Cost of Asthma-related Hospital Stays <sup>4#</sup> , HSR 1, Texas, 2011			
Characteristics	Region 1 Discharges	Discharge Rate (95% CI)		Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
		Region 1	Texas				
<b>Total</b>	811	9.6 (8.9-10.3)	9.4 (9.3, 9.5)	Total	811	100.0	16,422,050.37
<b>Gender</b>				Self Pay	106	13.1	1,767,939.24
Male	347	8.2 (7.4-9.1)	7.4 (7.3, 7.6)	Commercial	312	38.5	5,700,981.02
Female	464	11.0 (10.0-12.0)	11.4 (11.3, 11.6)	Medicare	184	22.7	5,410,429.00
<b>Race/Ethnicity</b>				Medicaid	207	25.5	35,071,02.81
White Non-Hispanic	417	8.6 (7.7-9.4)	8.8 (8.7, 9.0)	Other	0	0.0	0.00
Black Non-Hispanic	167	33.5 (28.4-38.6)	19.5 (19.0, 20.0)	Missing	2	0.2	35,598.30
Hispanic	190	6.6 (5.6-7.5)	6.6 (6.5, 6.8)				
Other Non-Hispanic	32	16.7 (10.9-22.4)	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>							
0-4	144	22.5 (18.8-26.2)	20.8 (20.1, 21.4)				
5-9	132	21.1 (17.5-24.7)	18.1 (17.4, 18.7)				
10-14	59	10.4 (7.8-13.1)	8.1 (7.7, 8.5)				
15-34	81	3.1 (2.5-3.8)	2.6 (2.5, 2.8)				
35-64	255	8.6 (7.5-9.7)	8.1 (7.9, 8.3)				
65+	140	13.0 (10.9-15.2)	20.6 (20.1, 20.6)				

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



### Medicaid Utilization and Reimbursement for Asthma<sup>5# ^</sup>, HSR 1, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	2,902,631.26	119.73	24,244	9,895	50.1
Inpatient Hospital	843,433.44	2,225.42	379	319	11.3
Outpatient Hospital	914,866.19	169.95	5,383	3,598	27.7
Physician	1,144,331.63	61.92	18,482	8,668	41.9

Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



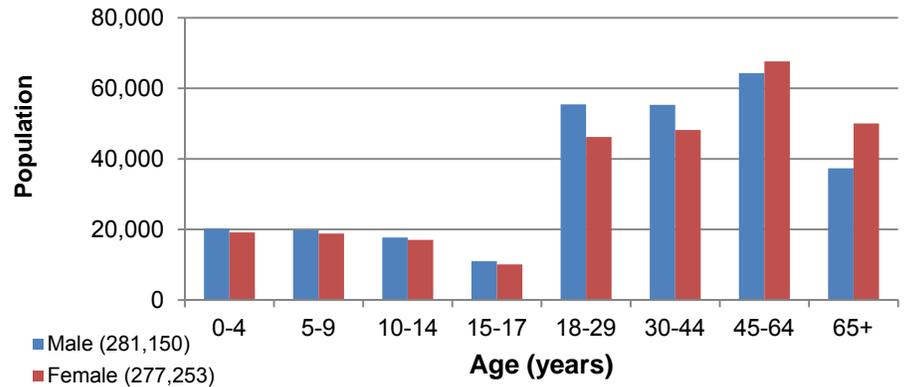
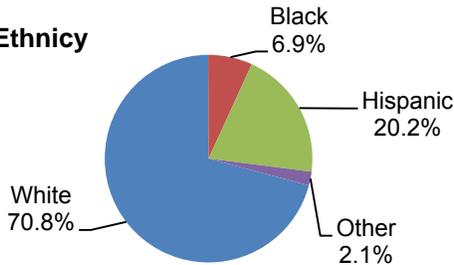


## Texas Health Service Region 2

### Demography of Texas Health Service Region (HSR) 2<sup>1</sup>, 2011

**Total Population:** 558,403

#### Race/Ethnicity



	Asthma Mortality Rates <sup>2</sup> * (per 100,000 persons), HSR 2, Texas, 2005-2011		Prevalence of Current Asthma Among Children <sup>3</sup> , HSR 2, Texas, 2011		Prevalence of Current Asthma Among Adults, HSR 2, Texas <sup>3</sup> , 2011	
	Region 2 (95%CI)	Texas (95%CI)	Region 2 (95%CI)	Texas (95%CI)	Region 2 (95%CI)	Texas (95%CI)
<b>Total</b>	1.5 (1.1, 1.8)	0.9 (0.8, 0.9)	5.2 (2.0, 8.5)	8.0 (6.7, 9.3)	8.1 (4.3, 11.9)	7.4 (6.7, 8.1)
<b>Gender</b>						
Male	1.4 (0.9, 1.9)	0.6 (0.6, 0.7)	5.3 (1.2, 9.5)	8.6 (6.8, 10.4)	5.8 (1.5, 10.2)	5.1 (4.2, 6.0)
Female	1.5 (1.0, 2.1)	1.1 (1.0, 1.2)	5.2 (0.1, 10.2)	7.4 (5.6, 9.3)	10.6 (4.3, 16.9)	9.7 (8.6, 10.7)
<b>Race/Ethnicity</b>						
White	1.2 (0.9, 1.6)	1.0 (1.0, 1.1)	5.1 (1.3, 8.9)	8.2 (6.3, 10.1)	8.5 (4.3, 12.6)	9.2 (8.2, 10.2)
Black	---	1.9 (1.7, 2.1)	---	11.5 (7.1, 15.8)	---	10.2 (7.5, 13.0)
Hispanic	---	0.3 (0.3, 0.4)	7.9 (0.0, 16.1)	6.6 (4.8, 8.5)	0.9 (0.1, 1.7)	4.2 (3.2, 5.2)
Other	---	0.8 (0.6, 1.1)	---	7.1 (2.0, 12.1)	---	5.2 (2.8, 7.5)
<b>Age Group (years)</b>						
0-4	---	0.2 (0.1, 0.3)	0-4	-- 5.3 (3.1, 7.6)	18-29	-- 4.9 (3.4, 6.3)
5-9	---	0.3 (0.2, 0.4)	5-9	-- 10.3 (7.3, 13.3)	30-44	6.2 (0.0, 13.0) 7.7 (6.3, 9.0)
10-14	---	0.2 (0.1, 0.2)	10-14	5.2 (0.6, 9.8) 8.6(6.2, 11.1)	45-64	10.4 (2.8, 18.1) 8.5 (7.3, 9.7)
15-34	---	0.2 (0.2, 0.3)	15-17	-- 9.4 (6.3, 12.6)	65+	9.3 (3.1, 15.4) 8.1 (6.8, 9.3)
35-64	1.7 (1.0, 2.4)	0.9 (0.9, 1.0)			<b>Smoking Status</b>	
65+	4.3 (2.7, 6.0)	3.9 (3.6, 4.2)			Current	-- 9.6 (7.7, 11.5)
					Former	6.4 (1.5, 11.4) 9.0 (7.5-10.5)
					Never	5.6 (2.3, 10.1) 6.2 (5.4-7.0)
					<b>Weight Status</b>	
					BMI < 30	7.5 (3.2, 11.7) 6.6 (5.8, 7.5)
					BMI ≥ 30	11.1 (2.3, 19.8) 9.7 (8.2, 11.1)

**Data Sources:**

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

**Notes:**

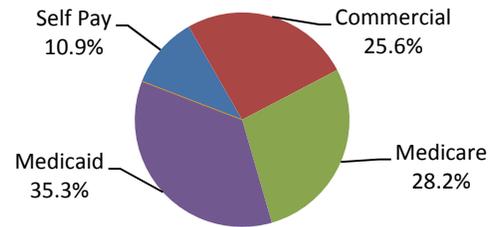
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- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



## Texas Health Service Region 2

Asthma Hospitalization Rates <sup>4#</sup> (per 10,000 persons), HSR 2, Texas, 2011				Cost of Asthma-related Hospital Stays <sup>4#</sup> , HSR 2, Texas, 2011			
Characteristics	Region 2 Discharges	Discharge Rate (95% CI)		Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
		Region 2	Texas				
<b>Total</b>	474	8.5 (7.7-9.3)	9.4 (9.3, 9.5)	Total	474	100.0	10,003,879.22
<b>Gender</b>				Self Pay	53	11.2	1,089,196.29
Male	214	7.6 (6.6-8.6)	7.4 (7.3, 7.6)	Commercial	151	31.9	2,565,218.13
Female	260	9.4 (8.2-10.5)	11.4 (11.3, 11.6)	Medicare	107	22.6	2,820,771.81
<b>Race/Ethnicity</b>				Medicaid	163	34.4	3,528,692.99
White Non-Hispanic	254	6.4 (5.6-7.2)	8.8 (8.7, 9.0)	Other	0	0.0	0.00
Black Non-Hispanic	70	18.2 (13.9-22.5)	19.5 (19.0, 20.0)	Missing	0	0.0	0.00
Hispanic	57	5.1 (3.7-6.4)	6.6 (6.5, 6.8)				
Other Non-Hispanic	46	38.3 (27.2-49.4)	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>							
0-4	108	27.4 (22.3-32.6)	20.8 (20.1, 21.4)				
5-9	63	16.3 (12.3-20.3)	18.1 (17.4, 18.7)				
10-14	46	13.2 (9.4-17.1)	8.1 (7.7, 8.5)				
15-34	52	3.1 (2.3-4.0)	2.6 (2.5, 2.8)				
35-64	130	6.8 (5.6-7.9)	8.1 (7.9, 8.3)				
65+	75	8.6 (6.6-10.5)	20.6 (20.1, 20.6)				

Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis



## Medicaid Utilization and Reimbursement for Asthma<sup>5# ^</sup>, HSR 2, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	1,781,125.07	132.65	13,427	5,469	49.4
Inpatient Hospital	559,068.75	2,158.57	259	229	10.9
Outpatient Hospital	543,479.75	192.86	2,818	1,959	24.6
Physician	678,576.57	65.56	10,350	4,717	41.0

### Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

### Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



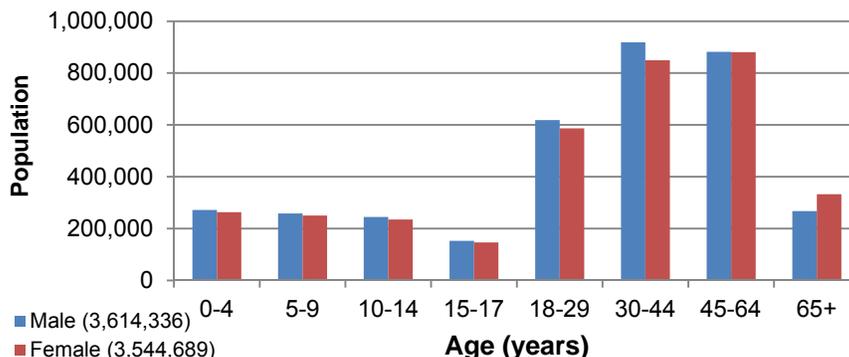
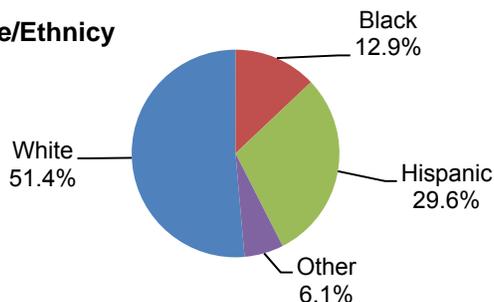


## Texas Health Service Region 3

### Demography of Texas Health Service Region (HSR) 3<sup>1</sup>, 2011

**Total Population:** 7,159,025

#### Race/Ethnicity



	Asthma Mortality Rates <sup>2*</sup> (per 100,000 persons), HSR 3, Texas, 2005-2011		Prevalence of Current Asthma Among Children <sup>3</sup> , HSR3, Texas, 2011		Prevalence of Current Asthma Among Adults, HSR 3, Texas <sup>3</sup> , 2011			
	Region 3 (95%CI)	Texas (95%CI)	Region 3 (95%CI)	Texas (95%CI)	Region 3 (95%CI)	Texas (95%CI)		
<b>Total</b>	0.9 (0.8, 1.0)	0.9 (0.8, 0.9)	10.0 (6.6, 13.3)	8.0 (6.7, 9.3)	6.7 (5.3, 8.1)	7.4 (6.7, 8.1)		
<b>Gender</b>								
Male	0.6 (0.5, 0.7)	0.6 (0.6, 0.7)	11.2 (6.1, 16.4)	8.6 (6.8, 10.4)	4.1 (2.4, 5.7)	5.1 (4.2, 6.0)		
Female	1.1 (1.0, 1.3)	1.1 (1.0, 1.2)	8.9 (4.5, 13.4)	7.4 (5.6, 9.3)	9.2 (7.0, 11.4)	9.7 (8.6, 10.7)		
<b>Race/Ethnicity</b>								
White	1.0 (0.8, 1.1)	1.0 (1.0, 1.1)	11.7 (6.6, 16.7)	8.2 (6.3, 10.1)	8.2 (6.3, 10.1)	9.2 (8.2, 10.2)		
Black	1.8 (1.5, 2.2)	1.9 (1.7, 2.1)	--	11.5 (7.1, 15.8)	7.0 (2.6, 11.3)	10.2 (7.5, 13.0)		
Hispanic	0.2 (0.1, 0.3)	0.3 (0.3, 0.4)	7.3 (2.0, 12.7)	6.6 (4.8, 8.5)	2.3 (0.5, 4.1)	4.2 (3.2, 5.2)		
Other	0.8 (0.5, 1.2)	0.8 (0.6, 1.1)	--	7.1 (2.0, 12.1)	7.4 (1.4, 13.3)	5.2 (2.8, 7.5)		
<b>Age Group (years)</b>								
0-4	---	0.2 (0.1, 0.3)	5.4 (0.5, 10.2)	5.3 (3.1, 7.6)	18-29	2.2 (0.5, 3.9)	4.9 (3.4, 6.3)	
5-9	---	0.3 (0.2, 0.4)	13.1 (5.2, 21.1)	10.3 (7.3, 13.3)	30-44	7.5 (4.7, 10.3)	7.7 (6.3, 9.0)	
10-14	---	0.2 (0.1, 0.2)	10.3 (3.6, 17.1)	8.6 (6.2, 11.1)	45-64	7.7 (5.3, 10.2)	8.5 (7.3, 9.7)	
15-34	0.3 (0.2, 0.4)	0.2 (0.2, 0.3)	15-17	15.9 (6.3, 25.5)	9.4 (6.3, 12.6)	65+	7.2 (4.4, 9.9)	8.1 (6.8, 9.3)
35-64	1.0 (0.9, 1.2)	0.9 (0.9, 1.0)						
65+	3.9 (3.3, 4.6)	3.9 (3.6, 4.2)						
					<b>Smoking Status</b>			
					Current	8.3 (4.9-11.7)	9.6 (7.7, 11.5)	
					Former	7.6 (4.5-10.7)	9.0 (7.5-10.5)	
					Never	6.0 (4.3-7.7)	6.2 (5.4-7.0)	
					<b>Weight Status</b>			
					BMI < 30	6.5 (4.7, 8.1)	6.6 (5.8, 7.5)	
					BMI ≥ 30	7.3 (4.6, 10.0)	9.7 (8.2, 11.1)	

#### Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

#### Notes:

- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



### Texas Health Service Region 3

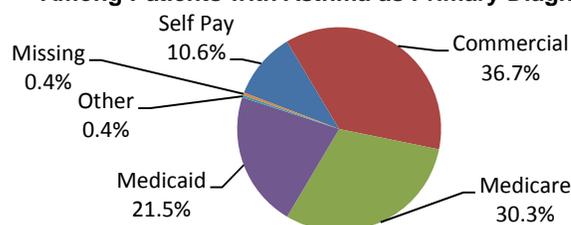
#### Asthma Hospitalization Rates<sup>4#</sup> (per 10,000 persons), HSR 3, Texas, 2011

Characteristics	Region 3 Discharges	Discharge Rate (95% CI)	
		Region 3	Texas
<b>Total</b>	6,623	9.3 (9.0-9.5)	9.4 (9.3, 9.5)
<b>Gender</b>			
Male	2,549	7.1 (6.8-7.3)	7.4 (7.3, 7.6)
Female	4,074	11.5 (11.1-11.8)	11.4 (11.3, 11.6)
<b>Race/Ethnicity</b>			
White Non-Hispanic	3,291	8.9 (8.6-9.2)	8.8 (8.7, 9.0)
Black Non-Hispanic	2,101	22.7 (21.7-23.7)	19.5 (19.0, 20.0)
Hispanic	832	3.9 (3.7-4.2)	6.6 (6.5, 6.8)
Other Non-Hispanic	368	8.4 (7.6-9.3)	11.4 (10.8, 12.0)
<b>Age Group (years)</b>			
0-4	929	17.4 (16.2-18.5)	20.8 (20.1, 21.4)
5-9	900	17.7 (16.5-18.8)	18.1 (17.4, 18.7)
10-14	369	7.7 (6.9-8.5)	8.1 (7.7, 8.5)
15-34	531	2.6 (2.4-2.8)	2.6 (2.5, 2.8)
35-64	2,383	8.0 (7.7-8.3)	8.1 (7.9, 8.3)
65+	1,511	25.2 (23.9-26.5)	20.6 (20.1, 20.6)

#### Cost of Asthma-related Hospital Stays<sup>4#</sup>, HSR 3, Texas, 2011

Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
Total	6,623	100.0	182,029,554.08
Self Pay	863	13.0	19,244,675.70
Commercial	2,536	38.3	66,847,440.50
Medicare	1,639	24.7	55,192,656.88
Medicaid	1,556	23.5	39,192,782.08
Other	22	0.3	815,498.73
Missing	7	0.1	736,500.19

Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis



#### Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, HSR 3, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	32,802,790.99	199.95	164,052	66,290	50.4
Inpatient Hospital	11,328,539.77	4,812.46	2,354	1,968	12.8
Outpatient Hospital	12,205,463.49	429.17	28,440	17,484	29.7
Physician	9,268,787.73	69.56	133,258	62,488	43.3

Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



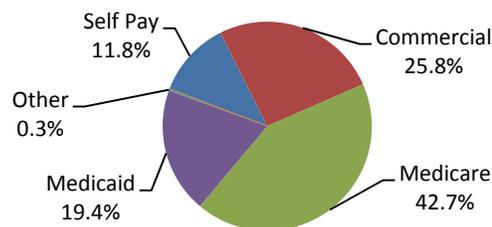




### Texas Health Service Region 4

Asthma Hospitalization Rates <sup>4#</sup> (per 10,000 persons), HSR 4, Texas, 2011				Cost of Asthma-related Hospital Stays <sup>4#</sup> , HSR 4, Texas, 2011			
Characteristics	Region 4 Discharges	Discharge Rate (95% CI)		Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
		Region 4	Texas				
<b>Total</b>	994	8.8 (8.3-9.4)	9.4 (9.3, 9.5)	Total	994	100.0	23,503,162.07
<b>Gender</b>				Self Pay	128	12.9	2,766,648.84
Male	365	6.4 (5.8-7.1)	7.4 (7.3, 7.6)	Commercial	286	28.8	6,071,016.63
Female	628	11.2 (10.3-12.1)	11.4 (11.3, 11.6)	Medicare	339	34.1	10,032,486.74
<b>Race/Ethnicity</b>				Medicaid	237	23.8	4,557,763.76
White Non-Hispanic	579	7.6 (7.0-8.2)	8.8 (8.7, 9.0)	Other	4	0.4	75,246.10
Black Non-Hispanic	254	13.4 (11.8-15.1)	19.5 (19.0, 20.0)	Missing	0	0.0	0.00
Hispanic	117	7.3 (5.9-8.6)	6.6 (6.5, 6.8)				
Other Non-Hispanic	22	14.7 (8.6-20.9)	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>							
0-4	143	18.5 (15.5-21.6)	20.8 (20.1, 21.4)				
5-9	110	14.9 (12.1-17.6)	18.1 (17.4, 18.7)				
10-14	42	6.0 (4.2-7.8)	8.1 (7.7, 8.5)				
15-34	95	3.1 (2.5-3.7)	2.6 (2.5, 2.8)				
35-64	342	8.2 (7.4-9.1)	8.1 (7.9, 8.3)				
65+	262	14.4 (12.6-16.1)	20.6 (20.1, 20.6)				

Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis



### Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, HSR 4, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	4,580,534.50	158.68	28,866	11,613	49.7
Inpatient Hospital	1,322,899.69	2,710.86	488	420	10.7
Outpatient Hospital	1,760,138.46	267.54	6,579	4,183	27.7
Physician	1,497,496.35	68.70	21,799	10,316	38.5

Data Sources:

4. Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
5. Medicaid Data, Texas Health and Human Services Commission, 2011.

Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



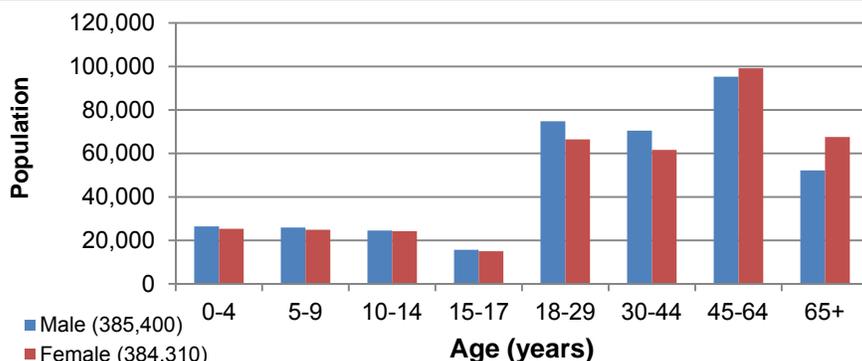
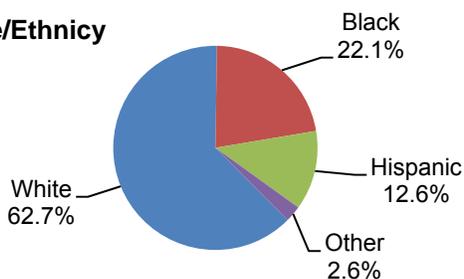


## Texas Health Service Region 5

### Demography of Health Service Region (HSR) 5<sup>1</sup>, 2011

Total Population: 769,710

#### Race/Ethnicity



Asthma Mortality Rates <sup>2*</sup> (per 100,000 persons), HSR 5, Texas, 2005-2011	Prevalence of Current Asthma Among Children <sup>3</sup> , HSR 5, Texas, 2011		Prevalence of Current Asthma Among Adults, HSR 5, Texas <sup>3</sup> , 2011					
	Region 5 (95% CI)	Texas (95%CI)	Region 5 (95% CI)	Texas (95%CI)	Region 5 (95% CI)	Texas (95%CI)		
Total	1.0 (0.8, 1.3)	0.9 (0.8, 0.9)	Total	7.8 (1.3, 14.3)	8.0 (6.7, 9.3)	Total	8.6 (4.4, 12.9)	7.4 (6.7, 8.1)
<b>Gender</b>			<b>Gender</b>			<b>Gender</b>		
Male	--	0.6 (0.6, 0.7)	Male	--	8.6 (6.8, 10.4)	Male	5.8 (1.1, 10.6)	5.1 (4.2, 6.0)
Female	1.4 (0.9, 1.9)	1.1 (1.0, 1.2)	Female	--	7.4 (5.6, 9.3)	Female	10.8 (4.4, 17.3)	9.7 (8.6, 10.7)
<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>		
White	0.9 (0.6, 1.3)	1.0 (1.0, 1.1)	White	--	8.2 (6.3, 10.1)	White	10.1 (4.4, 15.8)	9.2 (8.2, 10.2)
Black	---	1.9 (1.7, 2.1)	Black	--	11.5 (7.1, 15.8)	Black	--	10.2 (7.5, 13.0)
Hispanic	---	0.3 (0.3, 0.4)	Hispanic	--	6.6 (4.8, 8.5)	Hispanic	--	4.2 (3.2, 5.2)
Other	---	0.8 (0.6, 1.1)	Other	--	7.1 (2.0, 12.1)	Other	--	5.2 (2.8, 7.5)
<b>Age Group (years)</b>			<b>Age Group (years)</b>			<b>Age Group (years)</b>		
0-4	---	0.2 (0.1, 0.3)	0-4	--	5.3 (3.1, 7.6)	18-29	--	4.9 (3.4, 6.3)
5-9	---	0.3 (0.2, 0.4)	5-9	--	10.3 (7.3, 13.3)	30-44	--	7.7 (6.3, 9.0)
10-14	---	0.2 (0.1, 0.2)	10-14	--	8.6(6.2, 11.1)	45-64	8.8 (1.9, 15.7)	8.5 (7.3, 9.7)
15-34	---	0.2 (0.2, 0.3)	15-17	--	9.4 (6.3, 12.6)	65+	9.0 (3.6, 14.4)	8.1 (6.8, 9.3)
35-64	---	0.9 (0.9, 1.0)				<b>Smoking Status</b>		
65+	3.7 (2.4, 5.0)	3.9 (3.6, 4.2)				Current	11.6 (0.3-22.9)	9.6 (7.7, 11.5)
						Former	10.6 (2.7-18.4)	9.0 (7.5-10.5)
						Never	6.5 (1.6-11.4)	6.2 (5.4-7.0)
						<b>Weight Status</b>		
						BMI < 30	9.0 (2.7, 15.3)	6.6 (5.8, 7.5)
						BMI ≥ 30	9.5 (3.3, 15.7)	9.7 (8.2, 11.1)

Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

Notes:

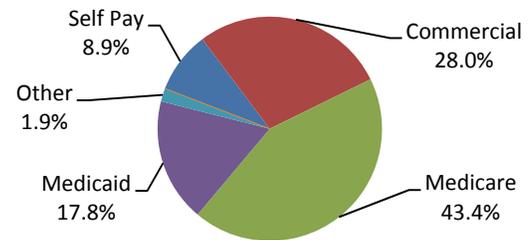
- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



### Texas Health Service Region 5

Asthma Hospitalization Rates <sup>4#</sup> (per 10,000 persons), HSR 5, Texas, 2011				Cost of Asthma-related Hospital Stays <sup>4#</sup> , HSR 5, Texas, 2011			
Characteristics	Region 5 Discharges	Discharge Rate (95% CI)		Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
		Region 5	Texas				
<b>Total</b>	800	10.4 (9.7-11.1)	9.4 (9.3, 9.5)	Total	800	100.0	18,719,970.43
<b>Gender</b>				Self Pay	75	9.4	1,659,538.70
Male	308	8.0 (7.1-8.9)	7.4 (7.3, 7.6)	Commercial	273	34.1	5,241,631.21
Female	492	12.8 (11.7-13.9)	11.4 (11.3, 11.6)	Medicare	251	31.4	8,125,827.57
<b>Race/Ethnicity</b>				Medicaid	188	23.5	3,336,480.42
White Non-Hispanic	415	8.6 (7.8-9.4)	8.8 (8.7, 9.0)	Other	13	1.6	356,492.53
Black Non-Hispanic	276	16.2 (14.3-18.1)	19.5 (19.0, 20.0)	Missing	0	0.0	0.00
Hispanic	33	3.4 (2.2-4.6)	6.6 (6.5, 6.8)				
Other Non-Hispanic	54	27.3 (24.2-34.6)	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>							
0-4	149	28.8 (24.2-33.4)	20.8 (20.1, 21.4)				
5-9	74	14.5 (11.2-17.9)	18.1 (17.4, 18.7)				
10-14	29	5.9 (3.8-8.1)	8.1 (7.7, 8.5)				
15-34	52	2.4 (1.7-3.0)	2.6 (2.5, 2.8)				
35-64	292	10.5 (9.3-11.7)	8.1 (7.9, 8.3)				
65+	204	17.0 (14.7-19.4)	20.6 (20.1, 20.6)				

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



### Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, HSR 5, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	2,305,349.66	118.51	19,452	8,740	44.2
Inpatient Hospital	818,587.24	2,273.85	360	306	10.5
Outpatient Hospital	536,664.75	174.19	3,081	2,158	21.6
Physician	950,097.67	59.34	16,011	8,007	37.2

**Data Sources:**

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

**Notes:**

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



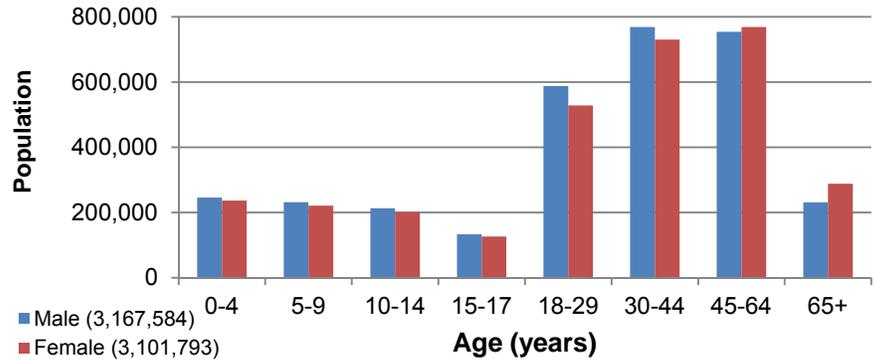
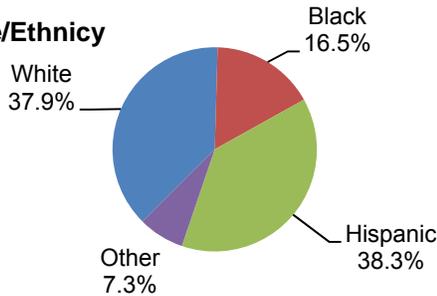


## Texas Health Service Region 6

### Demography of Texas Health Service Region (HSR) 6<sup>1</sup>, 2011

Total Population: 6,269,377

#### Race/Ethnicity



Asthma Mortality Rates <sup>2*</sup> (per 100,000 persons), HSR 6, Texas, 2005-2011	Prevalence of Current Asthma Among Children <sup>3</sup> , HSR 6, Texas, 2011		Prevalence of Current Asthma Among Adults, HSR 6, Texas <sup>3</sup> , 2011					
	Region 6 (95%CI)	Texas (95%CI)	Region 6 (95%CI)	Texas (95%CI)	Region 6 (95%CI)	Texas (95%CI)		
<b>Total</b>	0.7 (0.7, 0.8)	0.9 (0.8, 0.9)	<b>Total</b>	6.9 (4.2, 9.6)	8.0 (6.7, 9.3)	<b>Total</b>	7.0 (5.7, 8.4)	7.4 (6.7, 8.1)
<b>Gender</b>			<b>Gender</b>			<b>Gender</b>		
Male	0.6 (0.5, 0.7)	0.6 (0.6, 0.7)	Male	6.7 (3.2, 10.2)	8.6 (6.8, 10.4)	Male	4.1 (2.4, 5.8)	5.1 (4.2, 6.0)
Female	0.9 (0.8, 1.1)	1.1 (1.0, 1.2)	Female	7.2 (3.1, 11.3)	7.4 (5.6, 9.3)	Female	9.9 (7.8, 12.1)	9.7 (8.6, 10.7)
<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>		
White	0.9 (0.7, 1.0)	1.0 (1.0, 1.1)	White	5.4 (2.3, 8.5)	8.2 (6.3, 10.1)	White	8.8 (6.8, 10.8)	9.2 (8.2, 10.2)
Black	1.6 (1.3, 1.9)	1.9 (1.7, 2.1)	Black	9.4 (2.1, 16.7)	11.5 (7.1, 15.8)	Black	12.9 (7.3, 18.5)	10.2 (7.5, 13.0)
Hispanic	0.2 (0.1, 0.2)	0.3 (0.3, 0.4)	Hispanic	5.6 (1.7, 9.5)	6.6 (4.8, 8.5)	Hispanic	2.9 (1.0, 4.7)	4.2 (3.2, 5.2)
Other	0.9 (0.5, 1.3)	0.8 (0.6, 1.1)	Other	--	7.1 (2.0, 12.1)	Other	3.4 (0.7, 6.0)	5.2 (2.8, 7.5)
<b>Age Group (years)</b>			<b>Age Group (years)</b>			<b>Age Group (years)</b>		
0-4	---	0.2 (0.1, 0.3)	0-4	--	5.3 (3.1, 7.6)	18-29	4.9 (1.5, 8.4)	4.9 (3.4, 6.3)
5-9	---	0.3 (0.2, 0.4)	5-9	9.2 (3.1, 15.3)	10.3 (7.3, 13.3)	30-44	6.9 (4.2, 9.7)	7.7 (6.3, 9.0)
10-14	---	0.2 (0.1, 0.2)	10-14	9.1 (2.8, 15.4)	8.6 (6.2, 11.1)	45-64	8.4 (6.2, 10.6)	8.5 (7.3, 9.7)
15-34	0.3 (0.2, 0.4)	0.2 (0.2, 0.3)	15-17	8.3 (1.5, 15.1)	9.4 (6.3, 12.6)	65+	7.4 (5.0, 9.9)	8.1 (6.8, 9.3)
35-64	0.7 (0.6, 0.9)	0.9 (0.9, 1.0)				<b>Smoking Status</b>		
65+	3.8 (3.1, 4.4)	3.9 (3.6, 4.2)				Current	12.2 (7.3, 17.1)	9.6 (7.7, 11.5)
						Former	7.0 (4.4, 9.5)	9.0 (7.5-10.5)
						Never	5.5 (4.0, 7.0)	6.2 (5.4-7.0)
						<b>Weight Status</b>		
						BMI < 30	5.3 (3.9, 6.6)	6.6 (5.8, 7.5)
						BMI ≥ 30	11.9 (8.2, 15.5)	9.7 (8.2, 11.1)

Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

Notes:

- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



## Texas Health Service Region 6

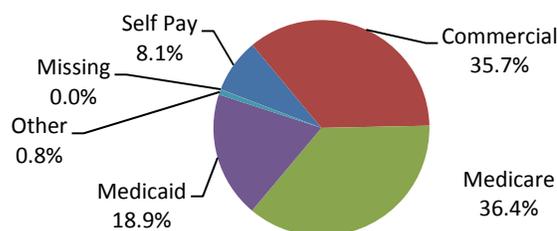
### Asthma Hospitalization Rates<sup>4#</sup> (per 10,000 persons), HSR 6, Texas, 2011

Characteristics	Region 6 Discharges	Discharge Rate (95% CI)	
		Region 6	Texas
<b>Total</b>	4,850	7.7 (7.5-8.0)	9.4 (9.3, 9.5)
<b>Gender</b>			
Male	1,801	5.7 (5.4-5.9)	7.4 (7.3, 7.6)
Female	3,049	9.8(9.5-10.2)	11.4 (11.3, 11.6)
<b>Race/Ethnicity</b>			
White Non-Hispanic	1,906	8.0 (7.7-8.4)	8.8 (8.7, 9.0)
Black Non-Hispanic	1,667	16.2 (15.4-16.9)	19.5 (19.0, 20.0)
Hispanic	908	3.8 (3.5-4.0)	6.6 (6.5, 6.8)
Other Non-Hispanic	276	6.0 (5.3-6.8)	11.4 (10.8, 12.0)
<b>Age Group (years)</b>			
0-4	637	13.2 (12.2-14.2)	20.8 (20.1, 21.4)
5-9	614	13.5 (12.5-14.6)	18.1 (17.4, 18.7)
10-14	233	5.6 (4.9-6.3)	8.1 (7.7, 8.5)
15-34	452	2.4 (2.2-2.6)	2.6 (2.5, 2.8)
35-64	1,820	7.2 (6.9-7.6)	8.1 (7.9, 8.3)
65+	1,094	21.1 (19.8-22.3)	20.6 (20.1, 20.6)

### Cost of Asthma-related Hospital Stays<sup>4#</sup>, HSR 6, Texas, 2011

Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
Total	4,850	100.0	133,582,798.70
Self Pay	531	10.9	10,868,805.67
Commercial	1,812	37.4	47,706,767.52
Medicare	1,170	24.1	48,686,171.37
Medicaid	1,296	26.7	25,244,715.81
Other	40	0.8	1,065,387.73
Missing	1	0.02	10,950.60

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



### Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, HSR 6, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	23,655,898.76	151.12	156,537	66,556	46.4
Inpatient Hospital	5,520,843.82	3,117.36	1,771	1,505	12.4
Outpatient Hospital	6,281,460.25	348.70	18,014	11,528	25.0
Physician	11,853,594.69	86.68	136,752	63,779	42.1

#### Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

#### Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



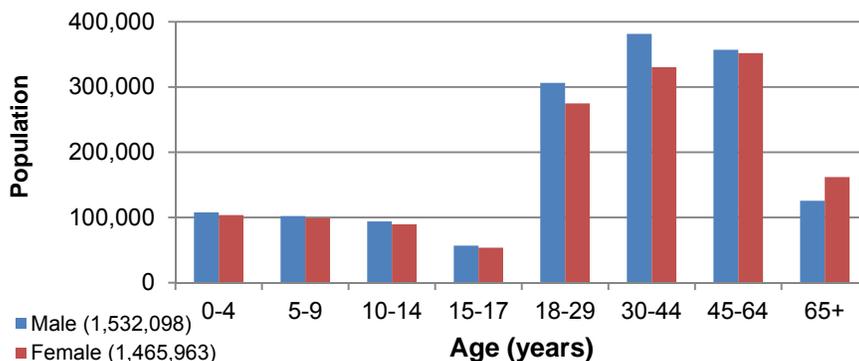
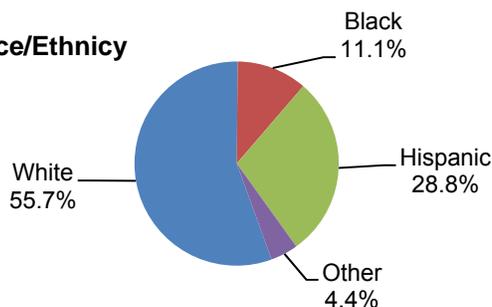


## Texas Health Service Region 7

### Demography of Texas Health Service Region (HSR) 7<sup>1</sup>, 2011

Total Population: 2,998,061

#### Race/Ethnicity



Asthma Mortality Rates <sup>2*</sup> (per 100,000 persons), HSR 7, Texas, 2005-2011	Region 7 (95% CI)		Texas (95% CI)		Prevalence of Current Asthma Among Children <sup>3</sup> , HSR 7, Texas, 2011	Region 7 (95% CI)		Texas (95% CI)		Prevalence of Current Asthma Among Adults, HSR 7, Texas <sup>3</sup> , 2011	Region 7 (95% CI)		Texas (95% CI)	
	Total	Male	Female	Total		Male	Female	Total	Male		Female	Total	Male	Female
<b>Gender</b>														
Total	1.0 (0.8, 1.1)	0.7 (0.5, 0.8)	1.3 (1.0, 1.5)	0.9 (0.8, 0.9)	4.4 (1.8, 6.9)	6.1 (1.9, 10.4)	2.4 (0.0, 5.2)	8.0 (6.7, 9.3)	7.4 (6.7, 8.1)	7.7 (5.8, 9.6)	7.5 (4.6, 10.4)	8.0 (5.5, 10.4)	5.1 (4.2, 6.0)	9.7 (8.6, 10.7)
<b>Race/Ethnicity</b>														
White	1.1 (0.9, 1.3)	1.1 (0.9, 1.3)	1.0 (1.0, 1.1)	1.0 (1.0, 1.1)	6.4 (2.0, 10.9)	8.2 (6.3, 10.1)	8.2 (6.3, 10.1)	8.2 (6.3, 10.1)	9.2 (8.2, 10.2)	8.6 (6.2, 11.0)	8.6 (6.2, 11.0)	9.2 (8.2, 10.2)	9.2 (8.2, 10.2)	10.2 (7.5, 13.0)
Black	1.8 (1.2, 2.3)	1.8 (1.2, 2.3)	1.9 (1.7, 2.1)	1.9 (1.7, 2.1)	--	11.5 (7.1, 15.8)	11.5 (7.1, 15.8)	11.5 (7.1, 15.8)	10.2 (7.5, 13.0)	10.5 (3.3, 17.8)	10.5 (3.3, 17.8)	10.2 (7.5, 13.0)	10.2 (7.5, 13.0)	10.2 (7.5, 13.0)
Hispanic	--	--	0.3 (0.3, 0.4)	0.3 (0.3, 0.4)	--	6.6 (4.8, 8.5)	6.6 (4.8, 8.5)	6.6 (4.8, 8.5)	4.2 (3.2, 5.2)	5.4 (1.7, 9.2)	5.4 (1.7, 9.2)	4.2 (3.2, 5.2)	4.2 (3.2, 5.2)	4.2 (3.2, 5.2)
Other	--	--	0.8 (0.6, 1.1)	0.8 (0.6, 1.1)	--	7.1 (2.0, 12.1)	7.1 (2.0, 12.1)	7.1 (2.0, 12.1)	5.2 (2.8, 7.5)	3.0 (0.0, 6.5)	3.0 (0.0, 6.5)	5.2 (2.8, 7.5)	5.2 (2.8, 7.5)	5.2 (2.8, 7.5)
<b>Age Group (years)</b>														
0-4	--	--	0.2 (0.1, 0.3)	0.2 (0.1, 0.3)	--	5.3 (3.1, 7.6)	5.3 (3.1, 7.6)	5.3 (3.1, 7.6)	4.9 (3.4, 6.3)	6.8 (2.2, 11.3)	6.8 (2.2, 11.3)	4.9 (3.4, 6.3)	4.9 (3.4, 6.3)	4.9 (3.4, 6.3)
5-9	--	--	0.3 (0.2, 0.4)	0.3 (0.2, 0.4)	7.7 (0.7, 14.8)	10.3 (7.3, 13.3)	10.3 (7.3, 13.3)	10.3 (7.3, 13.3)	7.7 (6.3, 9.0)	5.3 (2.8, 7.8)	5.3 (2.8, 7.8)	7.7 (6.3, 9.0)	7.7 (6.3, 9.0)	7.7 (6.3, 9.0)
10-14	--	--	0.2 (0.1, 0.2)	0.2 (0.1, 0.2)	7.4 (2.4, 12.4)	8.6 (6.2, 11.1)	8.6 (6.2, 11.1)	8.6 (6.2, 11.1)	8.5 (7.3, 9.7)	7.4 (2.4, 12.4)	7.4 (2.4, 12.4)	8.5 (7.3, 9.7)	8.5 (7.3, 9.7)	8.5 (7.3, 9.7)
15-34	--	--	0.2 (0.2, 0.3)	0.2 (0.2, 0.3)	--	9.4 (6.3, 12.6)	9.4 (6.3, 12.6)	9.4 (6.3, 12.6)	8.1 (6.8, 9.3)	--	--	8.1 (6.8, 9.3)	8.1 (6.8, 9.3)	8.1 (6.8, 9.3)
35-64	1.0 (0.7, 1.2)	1.0 (0.7, 1.2)	0.9 (0.9, 1.0)	0.9 (0.9, 1.0)	--	--	--	--	8.5 (7.3, 9.7)	10.4 (6.4, 14.4)	10.4 (6.4, 14.4)	8.5 (7.3, 9.7)	8.5 (7.3, 9.7)	8.5 (7.3, 9.7)
65+	5.1 (4.1, 6.1)	5.1 (4.1, 6.1)	3.9 (3.6, 4.2)	3.9 (3.6, 4.2)	--	--	--	--	8.1 (6.8, 9.3)	8.8 (4.9, 12.8)	8.8 (4.9, 12.8)	8.1 (6.8, 9.3)	8.1 (6.8, 9.3)	8.1 (6.8, 9.3)
<b>Smoking Status</b>														
Current	6.6 (2.9-10.3)	6.6 (2.9-10.3)	9.6 (7.7, 11.5)	9.6 (7.7, 11.5)										
Former	14.5 (9.0-20.0)	14.5 (9.0-20.0)	9.0 (7.5-10.5)	9.0 (7.5-10.5)										
Never	5.4 (3.4-7.3)	5.4 (3.4-7.3)	6.2 (5.4-7.0)	6.2 (5.4-7.0)										
<b>Weight Status</b>														
BMI < 30	6.7 (4.7, 8.8)	6.7 (4.7, 8.8)	6.6 (5.8, 7.5)	6.6 (5.8, 7.5)										
BMI ≥ 30	11.0 (6.1, 15.9)	11.0 (6.1, 15.9)	9.7 (8.2, 11.1)	9.7 (8.2, 11.1)										

#### Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

#### Notes:

- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



### Texas Health Service Region 7

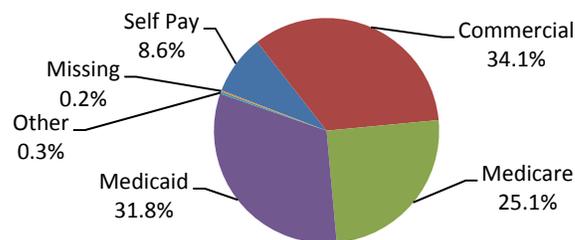
#### Asthma Hospitalization Rates<sup>4#</sup> (per 10,000 persons), HSR 7, Texas, 2011

Characteristics	Region 7 Discharges	Discharge Rate (95% CI)	
		Region 7	Texas
<b>Total</b>	2,800	9.3 (9.0-9.7)	9.4 (9.3, 9.5)
<b>Gender</b>			
Male	1,154	7.5 (7.1-8.0)	7.4 (7.3, 7.6)
Female	1,646	11.2 (10.7-11.8)	11.4 (11.3, 11.6)
<b>Race/Ethnicity</b>			
White Non-Hispanic	1,355	8.1 (7.7-8.5)	8.8 (8.7, 9.0)
Black Non-Hispanic	717	21.5 (19.9-23.0)	19.5 (19.0, 20.0)
Hispanic	458	5.3 (4.8-5.8)	6.6 (6.5, 6.8)
Other Non-Hispanic	242	18.5 (16.1-20.8)	11.4 (10.8, 12.0)
<b>Age Group (years)</b>			
0-4	582	27.5 (25.2-29.7)	20.8 (20.1, 21.4)
5-9	465	23.1 (21.0-25.2)	18.1 (17.4, 18.7)
10-14	141	7.7 (6.4-8.9)	8.1 (7.7, 8.5)
15-34	242	2.5 (2.2-2.9)	2.6 (2.5, 2.8)
35-64	864	7.4 (6.9-7.9)	8.1 (7.9, 8.3)
65+	506	17.6 (16.1-19.1)	20.6 (20.1, 20.6)

#### Cost of Asthma-related Hospital Stays<sup>4#</sup>, HSR 7, Texas, 2011

Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
Total	2,800	100.0	69,947,212.61
Self Pay	305	10.9	5,982,947.32
Commercial	1,020	36.4	23,863,232.52
Medicare	618	22.1	17,539,637.37
Medicaid	849	30.3	22,232,187.33
Other	7	0.3	217,132.64
Missing	1	0.04	112,075.43

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



#### Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, HSR 7, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	8,977,759.10	163.08	55,051	21,113	52.8
Inpatient Hospital	2,928,488.50	3,294.14	889	786	10.7
Outpatient Hospital	2,398,115.79	214.75	11,167	7,291	27.7
Physician	3,651,154.81	84.92	42,995	18,894	43.7

Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



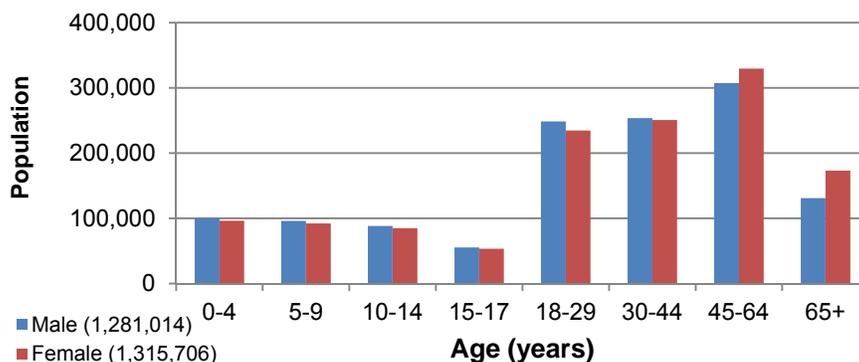
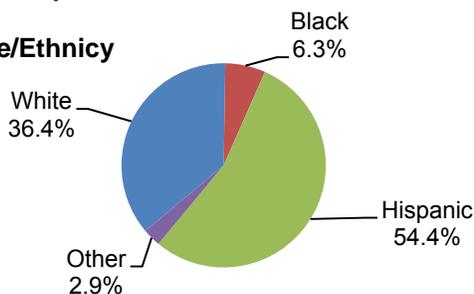


## Texas Health Service Region 8

### Demography of Texas Health Service Region (HSR) 8<sup>1</sup>, 2011

Total Population: 2,596,720

#### Race/Ethnicity



Asthma Mortality Rates <sup>2*</sup> (per 100,000 persons), HSR 8, Texas, 2005-2011	Prevalence of Current Asthma Among Children <sup>3</sup> , HSR 8, Texas, 2011		Prevalence of Current Asthma Among Adults, HSR 8, Texas <sup>3</sup> , 2011					
	Region 8 (95% CI)	Texas (95% CI)	Region 8 (95% CI)	Texas (95% CI)	Region 8 (95% CI)	Texas (95% CI)		
<b>Total</b>	0.9 (0.8, 1.1)	0.9 (0.8, 0.9)	<b>Total</b>	9.5 (5.6, 13.3)	8.0 (6.7, 9.3)	<b>Total</b>	7.7 (5.4, 9.9)	7.4 (6.7, 8.1)
<b>Gender</b>			<b>Gender</b>			<b>Gender</b>		
Male	0.7 (0.5, 0.8)	0.6 (0.6, 0.7)	Male	9.0 (4.1, 13.8)	8.6 (6.8, 10.4)	Male	4.1 (1.3, 6.8)	5.1 (4.2, 6.0)
Female	1.1 (0.9, 1.3)	1.1 (1.0, 1.2)	Female	9.9 (4.1, 15.8)	7.4 (5.6, 9.3)	Female	11.0 (7.6, 14.5)	9.7 (8.6, 10.7)
<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>			<b>Race/Ethnicity</b>		
White	1.3 (1.1, 1.6)	1.0 (1.0, 1.1)	White	9.8 (2.7, 17.0)	8.2 (6.3, 10.1)	White	11.0 (6.8, 15.2)	9.2 (8.2, 10.2)
Black	2.4 (1.4, 3.3)	1.9 (1.7, 2.1)	Black	--	11.5 (7.1, 15.8)	Black	8.7 (0.0, 18.0)	10.2 (7.5, 13.0)
Hispanic	0.4 (0.3, 0.6)	0.3 (0.3, 0.4)	Hispanic	6.1 (1.9, 10.3)	6.6 (4.8, 8.5)	Hispanic	4.6 (2.3, 6.9)	4.2 (3.2, 5.2)
Other	--	0.8 (0.6, 1.1)	Other	--	7.1 (2.0, 12.1)	Other	--	5.2 (2.8, 7.5)
<b>Age Group (years)</b>			<b>Age Group (years)</b>			<b>Age Group (years)</b>		
0-4	--	0.2 (0.1, 0.3)	0-4	9.2 (0.7, 17.7)	5.3 (3.1, 7.6)	18-29	5.4 (0.9, 9.8)	4.9 (3.4, 6.3)
5-9	--	0.3 (0.2, 0.4)	5-9	12.8 (3.5, 22.1)	10.3 (7.3, 13.3)	30-44	7.9 (3.7, 12.2)	7.7 (6.3, 9.0)
10-14	--	0.2 (0.1, 0.2)	10-14	6.6 (2.5, 10.8)	8.6 (6.2, 11.1)	45-64	9.3 (4.7, 14.0)	8.5 (7.3, 9.7)
15-34	--	0.2 (0.2, 0.3)	15-17	8.6 (1.2, 16.0)	9.4 (6.3, 12.6)	65+	7.2 (4.0, 10.5)	8.1 (6.8, 9.3)
35-64	0.9 (0.7, 1.2)	0.9 (0.9, 1.0)				<b>Smoking Status</b>		
65+	3.9 (3.1, 4.8)	3.9 (3.6, 4.2)				Current	10.9 (3.4-18.4)	9.6 (7.7, 11.5)
						Former	8.7 (4.0-13.4)	9.0 (7.5-10.5)
						Never	6.2 (3.9-8.5)	6.2 (5.4-7.0)
						<b>Weight Status</b>		
						BMI < 30	7.2 (4.3, 10.0)	6.6 (5.8, 7.5)
						BMI ≥ 30	9.5 (5.3, 13.8)	9.7 (8.2, 11.1)

#### Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

#### Notes:

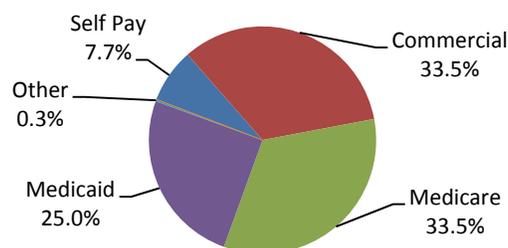
- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



### Texas Health Service Region 8

Asthma Hospitalization Rates <sup>4 #</sup> (per 10,000 persons), HSR 8, Texas, 2011				Cost of Asthma-related Hospital Stays <sup>4 #</sup> , HSR 8, Texas, 2011			
Characteristics	Region 8 Discharges	Discharge Rate (95% CI)		Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
		Region 8	Texas				
<b>Total</b>	2,738	10.5 (10.1-10.9)	9.4 (9.3, 9.5)	Total	2,738	100.0	63,607,176.40
<b>Gender</b>				Self Pay	244	8.9	4,908,405.06
Male	1,175	9.2 (8.6-9.7)	7.4 (7.3, 7.6)	Commercial	1,053	38.5	21,304,854.38
Female	1,563	11.9 (11.3-12.5)	11.4 (11.3, 11.6)	Medicare	680	24.8	21,314,700.21
<b>Race/Ethnicity</b>				Medicaid	751	27.4	15,897,199.47
White Non-Hispanic	931	9.9 (9.2-10.5)	8.8 (8.7, 9.0)	Other	10	0.4	182,017.28
Black Non-Hispanic	313	19.0 (16.9-21.1)	19.5 (19.0, 20.0)	Missing	0	0.0	0.00
Hispanic	1,353	9.6 (9.1-10.1)	6.6 (6.5, 6.8)				
Other Non-Hispanic	133	17.9 (14.8-20.9)	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>							
0-4	553	28.1 (25.8-30.5)	20.8 (20.1, 21.4)				
5-9	431	22.9 (20.7-25.0)	18.1 (17.4, 18.7)				
10-14	208	12.0 (10.4-13.6)	8.1 (7.7, 8.5)				
15-34	209	2.7 (2.3-3.1)	2.6 (2.5, 2.8)				
35-64	759	7.9 (7.3-8.4)	8.1 (7.9, 8.3)				
65+	578	19.0 (17.4-20.5)	20.6 (20.1, 20.6)				

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



### Medicaid Utilization and Reimbursement for Asthma<sup>5 # ^</sup>, HSR 8, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	16,410,084.31	160.55	102,213	36,671	53.1
Inpatient Hospital	2,883,411.49	2,479.29	1,163	1,020	10.8
Outpatient Hospital	5,486,335.20	350.07	15,672	9,624	28.4
Physician	8,040,337.62	94.17	85,378	33,639	48.1

**Data Sources:**

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

**Notes:**

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



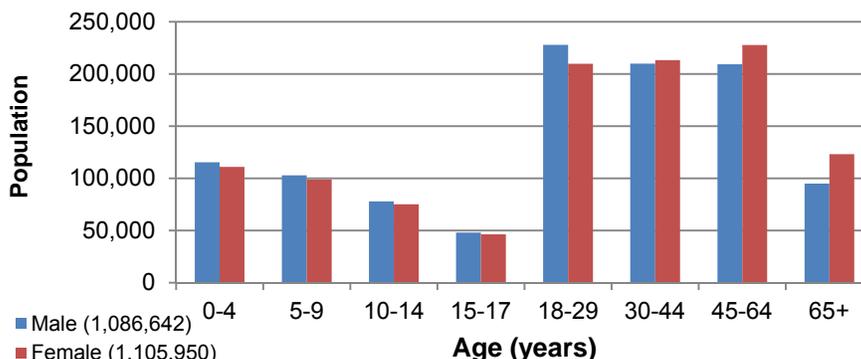
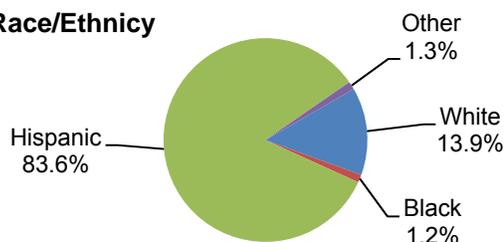


## Texas Health Service Region 9

### Demography of Texas Health Service Region (HSR) 9<sup>1</sup>, 2011

Total Population: 556,285

#### Race/Ethnicity



Asthma Mortality Rates <sup>2*</sup> (per 100,000 persons), HSR 9, Texas, 2005-2011	Region 9 (95% CI)		Texas (95% CI)		Prevalence of Current Asthma Among Children <sup>3</sup> , HSR 9, Texas, 2011	Region 9 (95% CI)		Texas (95% CI)		Prevalence of Current Asthma Among Adults, HSR 9, Texas <sup>3</sup> , 2011	Region 9 (95% CI)		Texas (95% CI)	
	Region 9 (95% CI)	Texas (95% CI)	Region 9 (95% CI)	Texas (95% CI)		Region 9 (95% CI)	Texas (95% CI)	Region 9 (95% CI)	Texas (95% CI)					
<b>Total</b>	1.4 (1.0, 1.7)	0.9 (0.8, 0.9)	10.1 (2.6, 17.5)	8.0 (6.7, 9.3)	Total	7.6 (4.8, 10.3)	7.4 (6.7, 8.1)							
<b>Gender</b>					<b>Gender</b>					<b>Gender</b>				
Male	---	0.6 (0.6, 0.7)	5.0 (1.5, 8.6)	8.6 (6.8, 10.4)	Male	3.5 (1.3, 5.7)	5.1 (4.2, 6.0)			Male	3.5 (1.3, 5.7)	5.1 (4.2, 6.0)		
Female	1.8 (1.2, 2.4)	1.1 (1.0, 1.2)	Female	17.3 (1.0, 33.6)	7.4 (5.6, 9.3)	Female	10.5 (6.2, 14.8)	9.7 (8.6, 10.7)		Female	10.5 (6.2, 14.8)	9.7 (8.6, 10.7)		
<b>Race/Ethnicity</b>					<b>Race/Ethnicity</b>					<b>Race/Ethnicity</b>				
White	1.8 (1.2, 2.4)	1.0 (1.0, 1.1)	White	9.5 (3.8, 15.2)	8.2 (6.3, 10.1)	White	9.7 (5.5, 13.9)	9.2 (8.2, 10.2)		White	9.7 (5.5, 13.9)	9.2 (8.2, 10.2)		
Black	---	1.9 (1.7, 2.1)	Black	---	11.5 (7.1, 15.8)	Black	5.7 (0.0, 11.4)	10.2 (7.5, 13.0)		Black	5.7 (0.0, 11.4)	10.2 (7.5, 13.0)		
Hispanic	---	0.3 (0.3, 0.4)	Hispanic	---	6.6 (4.8, 8.5)	Hispanic	3.9 (0.6, 7.3)	4.2 (3.2, 5.2)		Hispanic	3.9 (0.6, 7.3)	4.2 (3.2, 5.2)		
Other	---	0.8 (0.6, 1.1)	Other	---	7.1 (2.0, 12.1)	Other	---	5.2 (2.8, 7.5)		Other	---	5.2 (2.8, 7.5)		
<b>Age Group (years)</b>					<b>Age Group (years)</b>					<b>Age Group (years)</b>				
0-4	---	0.2 (0.1, 0.3)	0-4	---	5.3 (3.1, 7.6)	18-29	5.2 (0.2, 10.2)	4.9 (3.4, 6.3)		18-29	5.2 (0.2, 10.2)	4.9 (3.4, 6.3)		
5-9	---	0.3 (0.2, 0.4)	5-9	3.9 (0.4, 7.5)	10.3 (7.3, 13.3)	30-44	7.3 (1.4, 13.1)	7.7 (6.3, 9.0)		30-44	7.3 (1.4, 13.1)	7.7 (6.3, 9.0)		
10-14	---	0.2 (0.1, 0.2)	10-14	8.7 (1.2, 16.3)	8.6 (6.2, 11.1)	45-64	9.0 (3.9, 14.2)	8.5 (7.3, 9.7)		45-64	9.0 (3.9, 14.2)	8.5 (7.3, 9.7)		
15-34	---	0.2 (0.2, 0.3)	15-17	6.8 (1.2, 12.4)	9.4 (6.3, 12.6)	65+	8.7 (4.1, 13.2)	8.1 (6.8, 9.3)		65+	8.7 (4.1, 13.2)	8.1 (6.8, 9.3)		
35-64	1.5 (0.8, 2.1)	0.9 (0.9, 1.0)												
65+	5.8 (3.7, 7.9)	3.9 (3.6, 4.2)												

#### Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

#### Notes:

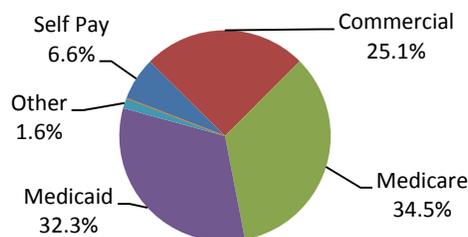
- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



### Texas Health Service Region 9

Asthma Hospitalization Rates <sup>4</sup> # (per 10,000 persons), HSR 9, Texas, 2011				Cost of Asthma-related Hospital Stays <sup>4</sup> #, HSR 9, Texas, 2011			
Characteristics	Region 9 Discharges	Discharge Rate (95% CI)		Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
		Region 9	Texas				
<b>Total</b>	662	11.9 (11.0-12.8)	9.4 (9.3, 9.5)	Total	662	100.0	11,957,542.54
<b>Gender</b>				Self Pay	88	13.3	1,116,733.87
Male	275	9.9 (8.7-11.1)	7.4 (7.3, 7.6)	Commercial	219	33.1	3,363,220.74
Female	387	13.9 (12.5-15.3)	11.4 (11.3, 11.6)	Medicare	169	25.5	4,744,004.31
<b>Race/Ethnicity</b>				Medicaid	180	27.2	2,491,576.76
White Non-Hispanic	279	10.4 (9.1-11.6)	8.8 (8.7, 9.0)	Other	4	0.6	69,187.95
Black Non-Hispanic	44	16.7 (11.8-21.6)	19.5 (19.0, 20.0)	Missing	2	0.3	172,818.91
Hispanic	220	8.7 (7.6-9.9)	6.6 (6.5, 6.8)				
Other Non-Hispanic	91	106.2 (84.4-128.0)	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>							
0-4	106	23.6 (19.1-28.1)	20.8 (20.1, 21.4)				
5-9	102	23.5 (19.0-28.1)	18.1 (17.4, 18.7)				
10-14	38	10.2 (7.0-13.5)	8.1 (7.7, 8.5)				
15-34	60	3.7 (2.8-4.6)	2.6 (2.5, 2.8)				
35-64	206	10.6 (9.2-12.1)	8.1 (7.9, 8.3)				
65+	150	20.3 (17.1-23.6)	20.6 (20.1, 20.6)				

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



### Medicaid Utilization and Reimbursement for Asthma<sup>5</sup> # ^, HSR 9, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	2,836,190.40	148.62	19,083	7,921	45.4
Inpatient Hospital	859,573.19	2,101.65	409	344	11.6
Outpatient Hospital	840,734.17	232.57	3,615	2,359	25.1
Physician	1,135,883.04	75.43	15,059	6,824	40.2

**Data Sources:**

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

**Notes:**

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



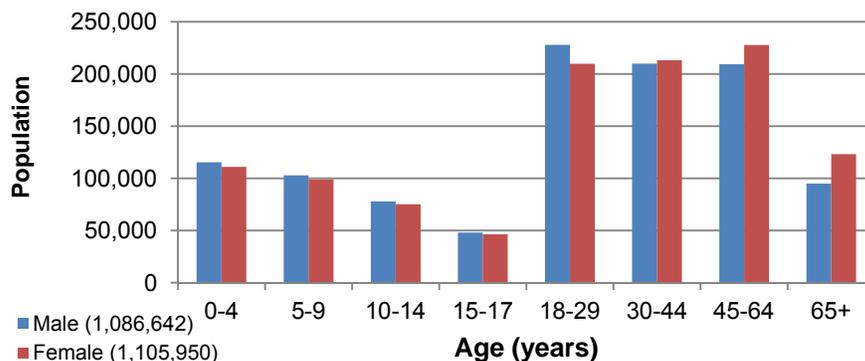
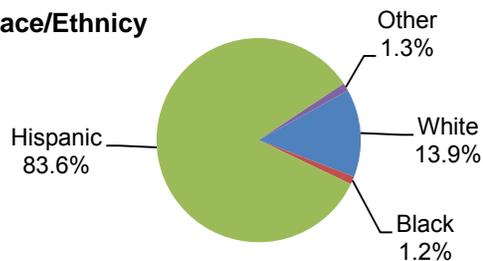


## Texas Health Service Region 10

### Demography of Texas Health Service Region (HSR) 10<sup>1</sup>, 2011

**Total Population:** 810,320

#### Race/Ethnicity



Asthma Mortality Rates <sup>2*</sup> (per 100,000 persons), HSR 10, Texas, 2005-2011	Region 10 (95% CI)		Texas (95% CI)		Prevalence of Current Asthma Among Children <sup>3</sup> , HSR 10, Texas, 2011	Region 10 (95% CI)		Texas (95% CI)		Prevalence of Current Asthma Among Adults, HSR 10, Texas <sup>3</sup> , 2011	Region 10 (95% CI)		Texas (95% CI)	
	Total	Gender	Race/Ethnicity	Age Group (years)		Total	Gender	Race/Ethnicity	Age Group (years)		Total	Gender	Race/Ethnicity	Age Group (years)
	0.9 (0.6, 1.1)	---	---	---	6.3 (1.0, 11.7)	4.0 (1.0, 7.0)	White	0-4	4.7 (2.5, 6.8)	5.1 (4.2, 6.0)	7.4 (2.6, 12.3)	18-29	4.4 (0.0-10.4)	6.6 (5.8, 7.5)
	0.9 (0.8, 0.9)	Male	Black	5-9	8.0 (6.7, 9.3)	8.6 (6.8, 10.4)	Hispanic	10-14	7.4 (6.7, 8.1)	9.7 (8.6, 10.7)	Other	30-44	6.4 (2.4-10.4)	9.0 (7.5-10.5)
	---	Female	Other	15-17	---	7.4 (5.6, 9.3)	---	15-17	---	---	---	45-64	5.0 (0.0-10.3)	6.2 (5.4-7.0)
	---	---	---	35-64	---	---	---	35-64	---	---	---	65+	---	---
	---	---	---	65+	---	---	---	65+	---	---	---	---	---	---

#### Data Sources:

- 2011 Texas population data, Texas Center for Health Statistics (CHS), Texas Department of State Health Services.
- Vital Statistics Unit (VSU), Texas Center for Health Statistics (CHS), Texas Department of State Health Services 2005-2011.
- 2011 Texas Behavioral Risk Factor Surveillance System (BRFSS) Texas Center for Health Statistics (CHS), Texas Department of State Health Services.

#### Notes:

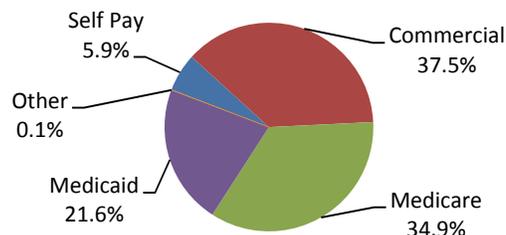
- Indicates sample size less than 50 respondents and/or too small to be statistically valid.
- Indicates less than 20 reported deaths.
- \* Asthma (ICD-10 Code J-45 or J-46) is underlying cause of death.



### Texas Health Service Region 10

Asthma Hospitalization Rates <sup>4#</sup> (per 10,000 persons), HSR 10, Texas, 2011				Cost of Asthma-related Hospital Stays <sup>4#</sup> , HSR 10, Texas, 2011			
Characteristics	Region 10 Discharges	Age-adjusted discharge rate <sup>†</sup> (95% CI)		Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
		Region 10	Texas				
<b>Total</b>	854	10.5 (9.8-11.2)	9.4 (9.3, 9.5)	Total	854	100.0	24,356,618.00
<b>Gender</b>				Self Pay	72	8.4	1,429,424.23
Male	350	8.8 (7.9-9.7)	7.4 (7.3, 7.6)	Commercial	306	35.8	9,131,997.88
Female	504	12.2 (11.2-13.3)	11.4 (11.3, 11.6)	Medicare	169	19.8	8,505,950.89
<b>Race/Ethnicity</b>				Medicaid	306	35.8	5,264,486.00
White Non-Hispanic	131	14.4 (11.9-16.9)	8.8 (8.7, 9.0)	Other	1	0.1	24,759.00
Black Non-Hispanic	41	18.7 (13.0-24.5)	19.5 (19.0, 20.0)	Missing	0	0.0	0.00
Hispanic	654	9.6 (8.9-10.3)	6.6 (6.5, 6.8)				
Other Non-Hispanic	25	15.2 (9.3-21.2)	11.4 (10.8, 12.0)				
<b>Age Group (years)</b>							
0-4	197	25.1 (21.6-28.7)	20.8 (20.1, 21.4)				
5-9	137	19.1 (15.9-22.3)	18.1 (17.4, 18.7)				
10-14	43	8.2 (5.7-10.7)	8.1 (7.7, 8.5)				
15-34	66	2.6 (2.0-3.3)	2.6 (2.5, 2.8)				
35-64	218	7.9 (6.9-8.9)	8.1 (7.9, 8.3)				
65+	193	24.0 (20.6-27.4)	20.6 (20.1, 20.6)				

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



### Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, HSR 10, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	2,607,351.18	101.03	25,807	10,808	46.4
Inpatient Hospital	811,927.77	2,065.97	393	363	7.2
Outpatient Hospital	417,906.68	136.84	3,054	1,446	17.5
Physician	1,377,516.73	61.61	22,360	10,499	42.4

Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.







### Texas Health Service Region 11

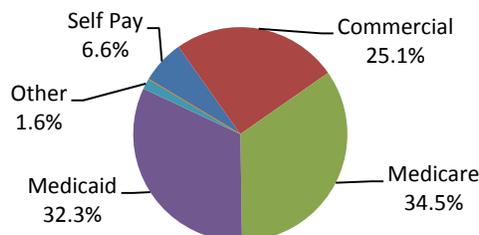
#### Asthma Hospitalization Rates<sup>4#</sup> (per 10,000 persons), HSR 11, Texas, 2011

Characteristics	Region 11 Discharges	Discharge Rate (95% CI)	
		Region 11	Texas
<b>Total</b>	2,288	10.4 (10.0-10.9)	9.4 (9.3, 9.5)
<b>Gender</b>			
Male	923	8.5 (7.9-9.0)	7.4 (7.3, 7.6)
Female	1,365	12.3 (11.7-13.0)	11.4 (11.3, 11.6)
<b>Race/Ethnicity</b>			
White Non-Hispanic	354	11.6 (10.4-12.8)	8.8 (8.7, 9.0)
Black Non-Hispanic	62	23.0 (17.3-28.7)	19.5 (19.0, 20.0)
Hispanic	1,800	9.8 (9.4-10.3)	6.6 (6.5, 6.8)
Other Non-Hispanic	60	21.3 (15.9-26.7)	11.4 (10.8, 12.0)
<b>Age Group (years)</b>			
0-4	544	24.0 (22.0-26.1)	20.8 (20.1, 21.4)
5-9	330	16.3 (14.6-18.1)	18.1 (17.4, 18.7)
10-14	153	10.0 (8.4-11.6)	8.1 (7.7, 8.5)
15-34	154	2.3 (1.9-2.6)	2.6 (2.5, 2.8)
35-64	634	8.9 (8.2-9.6)	8.1 (7.9, 8.3)
65+	473	21.7 (19.7-23.6)	20.6 (20.1, 20.6)

#### Cost of Asthma-related Hospital Stays<sup>4#</sup>, HSR 11, Texas, 2011

Payer	Hospital Discharges	Percent of Hospital Discharges (%)	Total Charges (\$)
Total	2,288	100.0	56,313,557.40
Self Pay	172	7.5	3,703,296.85
Commercial	575	25.1	14,138,384.74
Medicare	521	22.8	19,400,991.89
Medicaid	995	43.5	18,174,531.87
Other	25	1.1	896,352.05
Missing	0	0.0	0.00

**Percent (%) of Total Hospital Charges by Payer Among Patients with Asthma as Primary Diagnosis**



#### Medicaid Utilization and Reimbursement for Asthma<sup>5#^</sup>, HSR 11, Texas, 2011

Type of Care	Total Reimbursement Amount (\$)	Average Reimbursement Amount (\$)	Number of Claims	Number of Clients	Percent of Clients with Repeat Visits (%)
All Types of Care	16,498,944.48	108.34	152,287	55,506	48.7
Inpatient Hospital	4,066,943.84	2,854.00	1,425	1,232	11.4
Outpatient Hospital	3,800,773.89	146.73	25,903	6,663	23.8
Physician	8,631,226.75	69.07	124,959	53,297	46.3

#### Data Sources:

- Texas Health Care Information Collection, 2011 Inpatient Hospital Discharge Public Use Data File.
- Medicaid Data, Texas Health and Human Services Commission, 2011.

#### Notes:

- # Records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis.
- \*\* Indicates less than 12 hospitalizations.
- ^ Paid and partially paid Medicaid Fee-for-Service and Patient Care Case Management claims or Star and StarPlus claims for fiscal year 2011.

See last page of document for detailed data source information.



# About Texas Asthma Surveillance Data

Asthma is a widespread public health problem which has increased in the past two decades in Texas and the United States. Asthma affects more children than any other chronic disease and is one of the most frequent reasons for hospital admissions among children. Asthma has a major impact on the health of the population and the burden falls disproportionately on some populations.

Monitoring trends in asthma morbidity and mortality among Texans is important for increasing the level of knowledge about this prevalent condition. Surveillance data help public health officials focus their efforts to address asthma by targeting those most in need of intervention. Data also raise awareness about the effect of asthma on the health of the community. This fact sheet identifies particular communities and demographic groups at risk for developing life threatening episodes of asthma.

Asthma Health Facts are available for download on the Texas Asthma Control Program website: <http://www.dshs.state.tx.us/asthma/default.shtm>.

## Data Sources

### 1 - Demographics

The population data presented here are based on 2011 population estimates from the U.S. Census Bureau's Population Estimates Program. Population data were obtained from the Texas Center for Health Statistics (CHS) Texas Department of State Health Services. Population data provide estimates of the total population of counties and places in Texas by age, sex, and race/ethnicity.

### 2 - Mortality Rates

Mortality data were obtained from the Texas CHS Vital Statistics Unit (VSU). An asthma death was defined as any death for which asthma was listed as the underlying cause. The Tenth Revision of the International Classification of Diseases (ICD-10) was implemented for years 1999 and onward. Deaths with a diagnosis code of J-45 or J-46 were classified as asthma deaths. Prior to 1999, cause of death was coded according the Ninth Revision of the International Classification of Diseases (ICD-9). Deaths with a diagnosis code of 493.0 to 493.9 were classified as asthma deaths. Mortality data from 1999 and later cannot be directly compared with data from previous years due to this coding change.

### 3 - Prevalence

The Texas Behavioral Risk Factor Surveillance System (BRFSS) data were analyzed to estimate the asthma prevalence among Texas children (<18 years) and adults (≥18 years). The BRFSS is a population-based, random-digit dialed telephone survey of civilian, non-institutionalized adults, aged 18 years and older. The survey is coordinated by the Centers for Disease Control and Prevention (CDC) and is conducted annually by all 50 US states, three territories, and the District of Columbia. The BRFSS covers a wide range of health behaviors and status indicators. Beginning in 1999, the BRFSS has included questions related to asthma. Childhood asthma questions were added in 2001, with a wording change in 2005. For the childhood questions, the adult who is surveyed answers for the child. All estimates presented in this report are based on the 2011 Texas BRFSS Survey. The data are weighted to more accurately reflect the population by accounting for age, gender, and probability of selection. These estimates are derived from self-reported interviews and may underestimate the true asthma prevalence among Texas adults and children because they reflect only cases of asthma that have been diagnosed by a health care professional. The data presented in this report are for current asthma prevalence only. Respondents were asked:

Adult Lifetime Prevalence: "Have you ever been told by a doctor, nurse, or other health professional that you had asthma?"

Adult Current Prevalence: "Do you still have asthma?"

Childhood Lifetime Prevalence: "Has a doctor, nurse, or other health professional ever said that the child has asthma?"

Childhood Current Prevalence: "Does the child still have asthma?"

Current asthma is defined as an affirmative response to both adult or child asthma prevalence questions.

### 4 - Hospitalization Rates

Hospitalization data for asthma are obtained from the Texas Health Care Information Collection, Inpatient Hospital Discharge Public Use Data File. All hospital records listing asthma (ICD-9: 493.0 – 493.9) as the primary diagnosis were selected from the database. Rates were calculated using population data obtained from the Texas CHS State Data Center.

Hospitalizations that were missing information on the age of the patient, including hospitalizations for HIV and drug/alcohol-use patients for which age is recorded as a range, were excluded from the analysis. Hospitalization rates may be underestimates of the true rate of hospitalization for asthma because some Texas hospitals are exempt from reporting. Exemption criteria can be found here:

<http://www.dshs.state.tx.us/THCIC/OutpatientFacilities/ExemptionCriteria.shtm>. Additionally, because an individual can be hospitalized more than once for the same condition, these data represent the number of asthma hospitalizations, not the number of individuals hospitalized for asthma.

### 5 – Medicaid Utilization and Reimbursement

Medicaid utilization and reimbursement claims data were obtained from the Health and Human Services Commission. Fee-For-Service and Patient Care Case Management data were selected from the Texas Medicaid and Health Partnership (TMHP) Ad Hoc Query Platform (AHQP) Claims Universe. STAR and STAR Plus data were selected from TMHP ENC\_Best Picture Universe. Episodes of care are defined as:

1. Inpatient Hospital Claims: A person admitted to an inpatient bed at a hospital.
2. Outpatient Hospital: A person who was not admitted as an inpatient but who is registered on a hospital or critical access hospital (CAH) records as an outpatient and received services directly from the hospital or CAH.
3. Physician Claims: A person who received services from a physician.

The Percentage of Repeat Visits are calculated as the percent of clients with more than one claim for an asthma diagnosis.