

# Louisiana Medicaid Asthma-Related Expenditures & Resource Utilization in Calendar Year 2010

Presented to

M.J. Terrebonne, Director

Louisiana Medicaid Pharmacy Benefits Management

And

Mark Perry, Program Manager

Asthma Management and Prevention Program

By

Jun Tan & Sandra G. Blake

ULM • College of Pharmacy • Office of Outcomes Research & Evaluation

September 29, 2011

# Methods – Asthma

- ❖ The results were based on paid and adjusted Louisiana Medicaid claims.
- ❖ Study period (measurement year) was from January 1 to December 31, 2010, with a 6-month completion period.
- ❖ The steps below were followed to identify the eligible recipients with asthma for this study:
  - Step 1: Recipients were identified as having persistent asthma if they met at least one of the following criteria during both the measurement year and the year prior to the measurement year. Criteria need not be the same across both years.
    - At least one ED visit with asthma as the principal diagnosis
    - At least one acute inpatient claim/encounter with asthma as the principal diagnosis
    - At least four outpatient asthma visits with asthma as one of the listed diagnosis and at least two asthma medication dispensing events
    - At least four asthma medication dispensing events
  - Step 2: Recipients were identified as having persistent asthma because of at least four asthma medication dispensing events, where leukotriene modifiers were the sole asthma medication dispensed in that year, must also have had at least one diagnosis of asthma, in any setting, in the same year as the leukotriene modifier.
- ❖ Recipients were excluded from the eligible population if they were diagnosed with emphysema, COPD, cystic fibrosis or acute respiratory failure any time on or prior to December 31, 2010.
- ❖ A claim with a primary or a secondary diagnosis of asthma or asthma-related pharmacy claims was counted toward asthma-related costs.

## Asthma Prevalence in Louisiana Medicaid

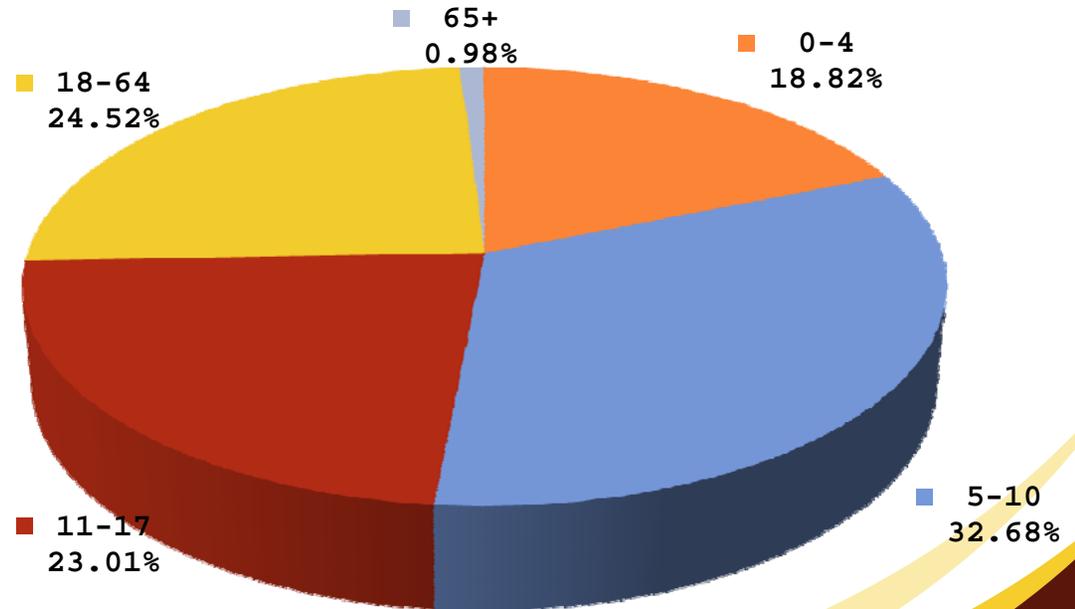
Age Group	Number of Medicaid Enrollees	Number of Recipients with Asthma	Prevalence
0-4	241,387	6,047	2.51%
5-10	246,176	10,501	4.27%
11-17	248,244	7,394	2.98%
18-64	484,198	7,881	1.63%
65+	115,952	314	0.27%
<b>Overall Prevalence</b>	<b>1,335,957</b>	<b>32,137</b>	<b>2.41%</b>

**Note:**

- ❖ Results were based on calendar year 2010 enrollment data.
- ❖ Ages were calculated as of December 31, 2010.
- ❖ Also, number of enrollees and number of recipients with asthma were calculated from those who were eligible for at least one month in 2010.

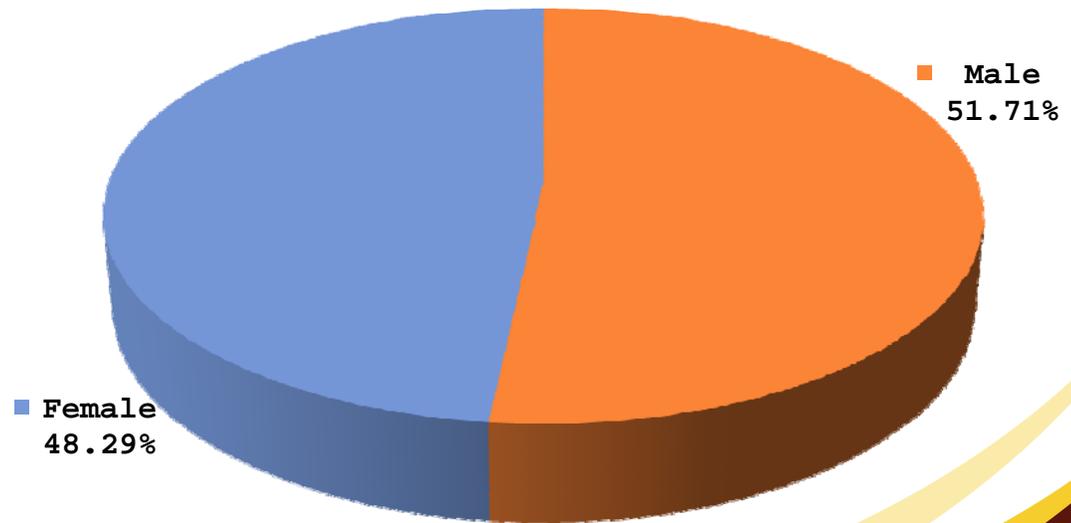
## Asthma Recipient Demographics – Age

Age Group	Number of Recipients
0-4	6,047
5-10	10,501
11-17	7,394
18-64	7,881
65+	314
Total	32,137



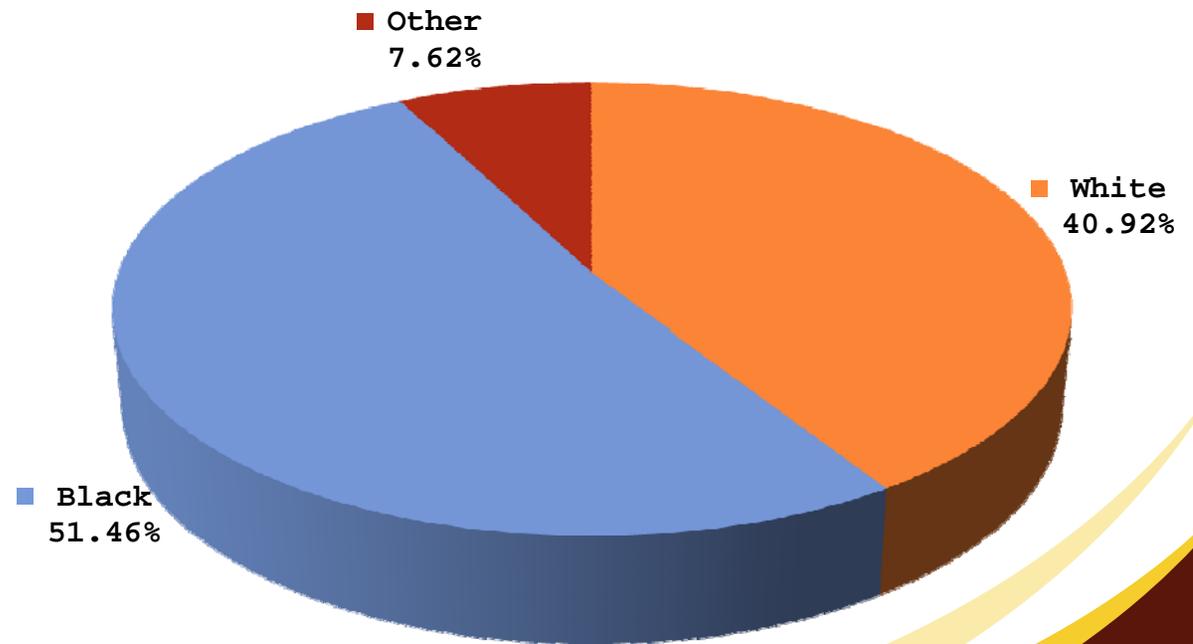
## Asthma Recipient Demographics – Gender

Gender	Number of Recipients
Male	16,617
Female	15,520
Total	32,137



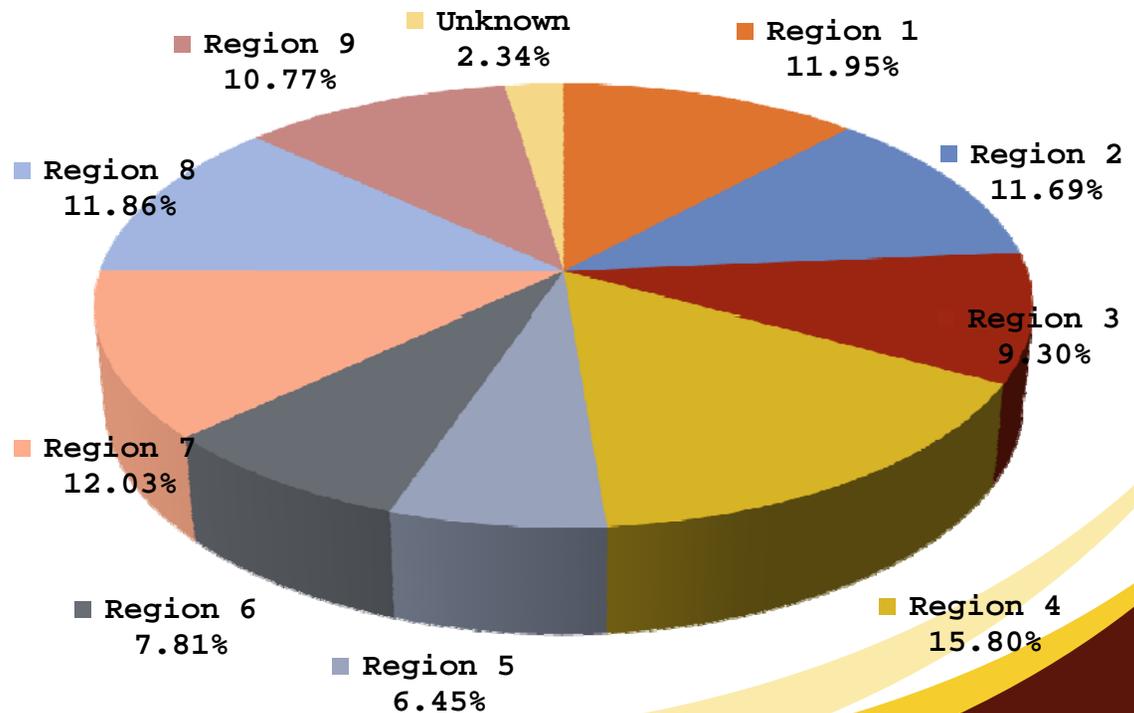
## Asthma Recipient Demographics – Race

Race	Number of Recipients
White	13,151
Black	16,538
Other	2,448
Total	32,137



# Asthma Recipient Demographics – Region

Region	Number of Recipients
Region 1	3,841
Region 2	3,758
Region 3	2,989
Region 4	5,078
Region 5	2,074
Region 6	2,511
Region 7	3,865
Region 8	3,810
Region 9	3,460
Unknown	751
<b>Total</b>	<b>32,137</b>



## Expenditure by Age, Gender & Race

Age	# of Recips	# of Claims	Cost	Cost Per Recip
0-4	6,047	88,774	\$ 12,555,231	\$ 2,076
5-10	10,501	168,972	\$ 20,628,159	\$ 1,964
11-17	7,394	119,366	\$ 13,888,414	\$ 1,878
18-64	7,881	161,778	\$ 20,312,871	\$ 2,577
65+	314	5,392	\$ 801,571	\$ 2,553

Gender	# of Recips	# of Claims	Cost	Cost Per Recip
Male	16,617	273,897	\$ 34,378,372	\$ 2,069
Female	15,520	270,385	\$ 33,807,874	\$ 2,178

Race	# of Recips	# of Claims	Cost	Cost Per Recip
White	13,151	206,458	\$ 26,475,602	\$ 2,013
Black	16,538	297,559	\$ 36,580,471	\$ 2,212
Other	2,448	40,265	\$ 5,130,172	\$ 2,096

## Expenditure by Region

Region	# of Recips	# of Claims	Cost	Cost Per Recip
Region 1	3,841	66,692	\$ 9,310,297	\$ 2,424
Region 2	3,758	62,265	\$ 7,462,636	\$ 1,986
Region 3	2,989	51,335	\$ 6,048,056	\$ 2,023
Region 4	5,078	88,724	\$ 10,576,131	\$ 2,083
Region 5	2,074	31,000	\$ 3,944,151	\$ 1,902
Region 6	2,511	39,121	\$ 5,167,890	\$ 2,058
Region 7	3,865	69,625	\$ 8,324,677	\$ 2,154
Region 8	3,810	62,323	\$ 8,579,785	\$ 2,252
Region 9	3,460	59,442	\$ 7,167,131	\$ 2,071
Unknown	751	13,755	\$ 1,605,493	\$ 2,138

## Appendix – Diagnosis Codes & Descriptions

Disease	Diagnosis Code	Description
Asthma	493.XX	ASTHMA
COPD	491.2X	OBSTRUCT CHR BRONCHITIS
	493.2X	CHRONIC OBSTRUCT.ASTHMA W/OBST PUL DISEA
	496.XX	CHR AIRWAY OBSTRUCT NEC
	506.4X	FUM/VAPOR CHR RESP COND
Emphysema	492.XX	EMPHYSEMA
	506.4X	FUM/VAPOR CHR RESP COND
	518.1X	INTERSTITIAL EMPHYSEMA
	518.2X	COMPENSATORY EMPHYSEMA