

Update on Asthma Burden and Surveillance in Louisiana

Sara Perry, MA, MPH

Program Epidemiologist
Louisiana Asthma Surveillance Collaborative
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Louisiana Asthma Program Goals

- LDHH will develop a comprehensive asthma program which includes targeting community outreach
- Increase asthma education to health care providers, health educators and support staff
- **Develop a comprehensive system of data surveillance to express the burden of asthma and the contributing factors**
- Identify and eliminate health disparities
- Comprehensive evaluation plan



Objectives

- Document the burden of asthma in Louisiana
 - Report on asthma findings
 - Work in progress

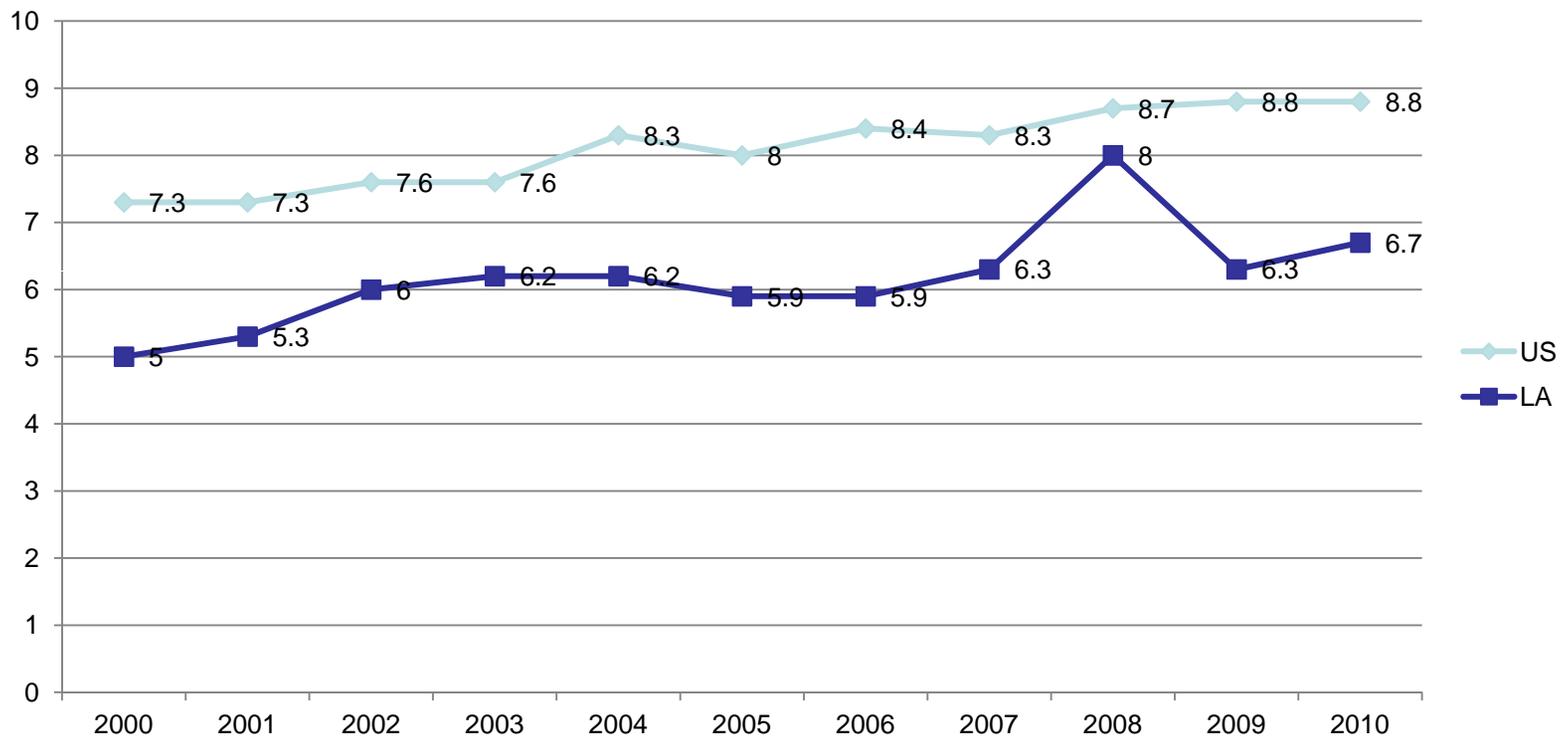


Adult Asthma Prevalence

- Prevalence is the proportion of the population with a particular characteristic (i.e. disease) at a specific point in time.
- 11.6% of Louisiana adults have been diagnosed with asthma at some point in their life by a health care provider (BRFSS 2010)
- 6.7% of Louisiana adults reported that they currently have asthma (BRFSS 2010)



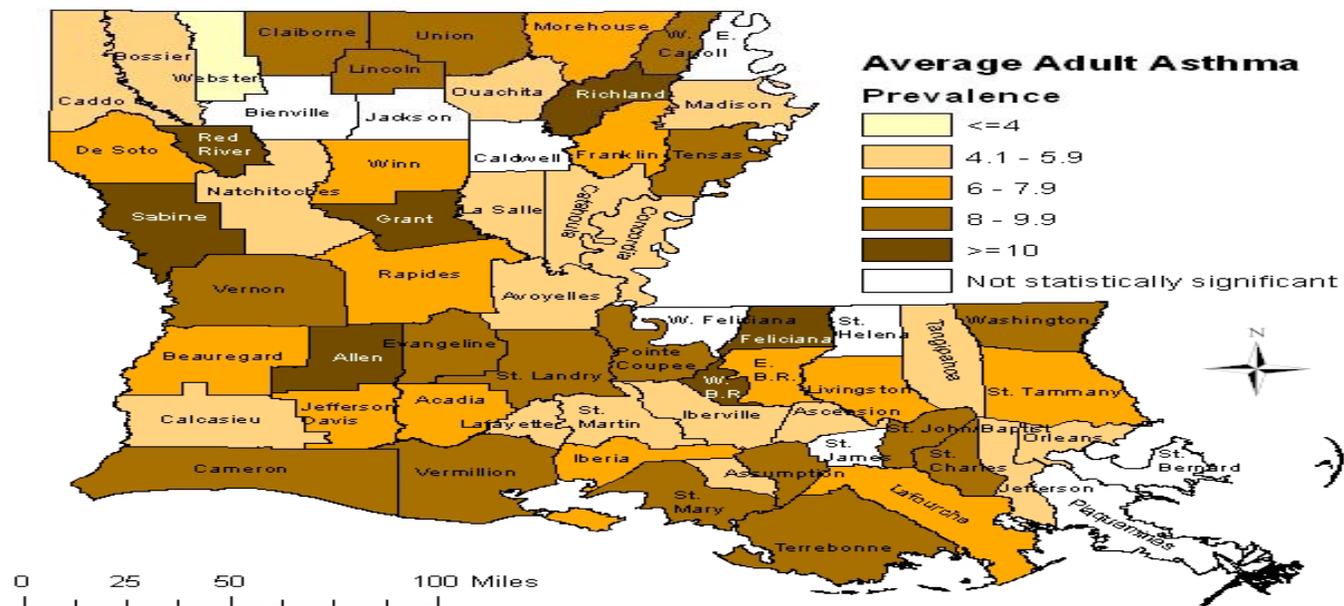
Prevalence of LA residents with current Asthma, US & LA 2000-2010



Source: Louisiana Behavioral Risk Factor Surveillance System Survey 2000-2010



Current Asthma Prevalence by Parish



Asthma and Demographic Characteristics

- Asthma disproportionately affects minority groups, those with lower incomes, lower education, and females
- 7.5% of current asthmatics reported having no health insurance versus 6.4% with health insurance (BRFSS, 2010)



Asthma and Age

Age	Sample Size	%	95% C.I.
18-24	17	8.4	3.9-13
25-34	37	6.2	3.5-8.9
35-44	60	5.9	4-7.4
45-54	103	6.2	4.8-7.6
55-64	125	7.4	5.9-8.9
65-74	95	7.0	5.4-8.6
75+	53	5.7	4-7.4

Data Source: Behavioral Risk Factor Surveillance System Survey, 2010



Asthma and Race

Race	Sample Size	%	95% C.I.
White	310	6.1	5-7.2
Black	150	7.7	5.9-9.4
Hispanic	8	3.4	.8-6.1
Other	17	9.8	1.5-18.1

Data Source: Behavioral Risk Factor Surveillance System Survey, 2010



Asthma and Education

Education	Sample Size	%	95% C.I.
Did not graduate HS	92	10.6	6.9-14.3
Graduated HS	150	6.9	5.0-8.8
Attended college	127	5.2	4.0-6.4
Graduated college	120	6.1	4.6-7.7

Data Source: Behavioral Risk Factor Surveillance System Survey, 2010



Asthma and Income

Household Income	Sample Size	%	95% C.I.
<15,000	96	11.2	8.5-13.9
15,000-24,999	110	9.2	5.9-12.5
25,000-34,999	48	7.4	4.3-10.6
35,000-49,999	39	4.0	2.5-5.6
50,000+	111	5.2	3.8-6.6

Data Source: Behavioral Risk Factor Surveillance System Survey, 2010



Asthma and Comorbidities

- 70.5% of current asthmatic smokers have tried to quit smoking at least once in the past year (BRFSS 2010)
- 21.9% of current asthmatics have been exposed to second hand smoke in their home in the past week (BRFSS 2009)
- 5.2% of asthmatics had a normal BMI <25 whereas asthmatics that were either obese or overweight were 7.4% (BRFSS 2010)



Childhood Asthma

- 22.4% of high school students have ever been diagnosed with asthma (YRBS 2009)
- Among these almost 11% still suffer from asthma (YRBS 2009)
- Females show a higher prevalence of current asthma illness (11.4 %) than males (10.3 %) (YRBS 2009)
- Blacks show a higher prevalence of current asthma illness (12.5%) than Whites (9.2%)

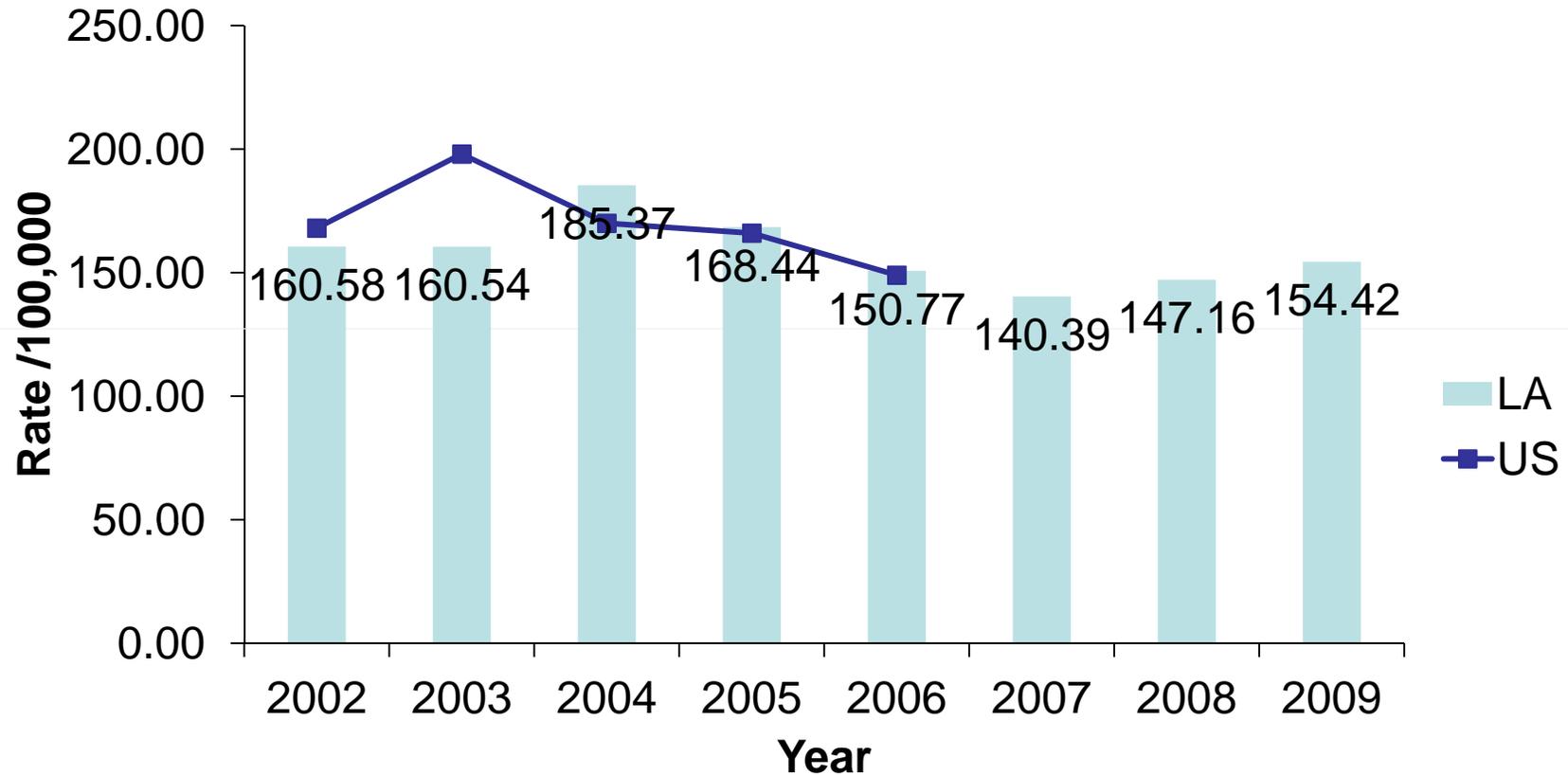


Childhood Asthma

- Grade and age differences among high school youth show that 11th graders have the highest prevalence of current asthma at 13.1% and 9th graders at 12.2% (YRBS 2009)
- 13.5% missed school because of asthma on one or more days during the past 12 months (YRBS 2009)



Asthma Hospitalizations

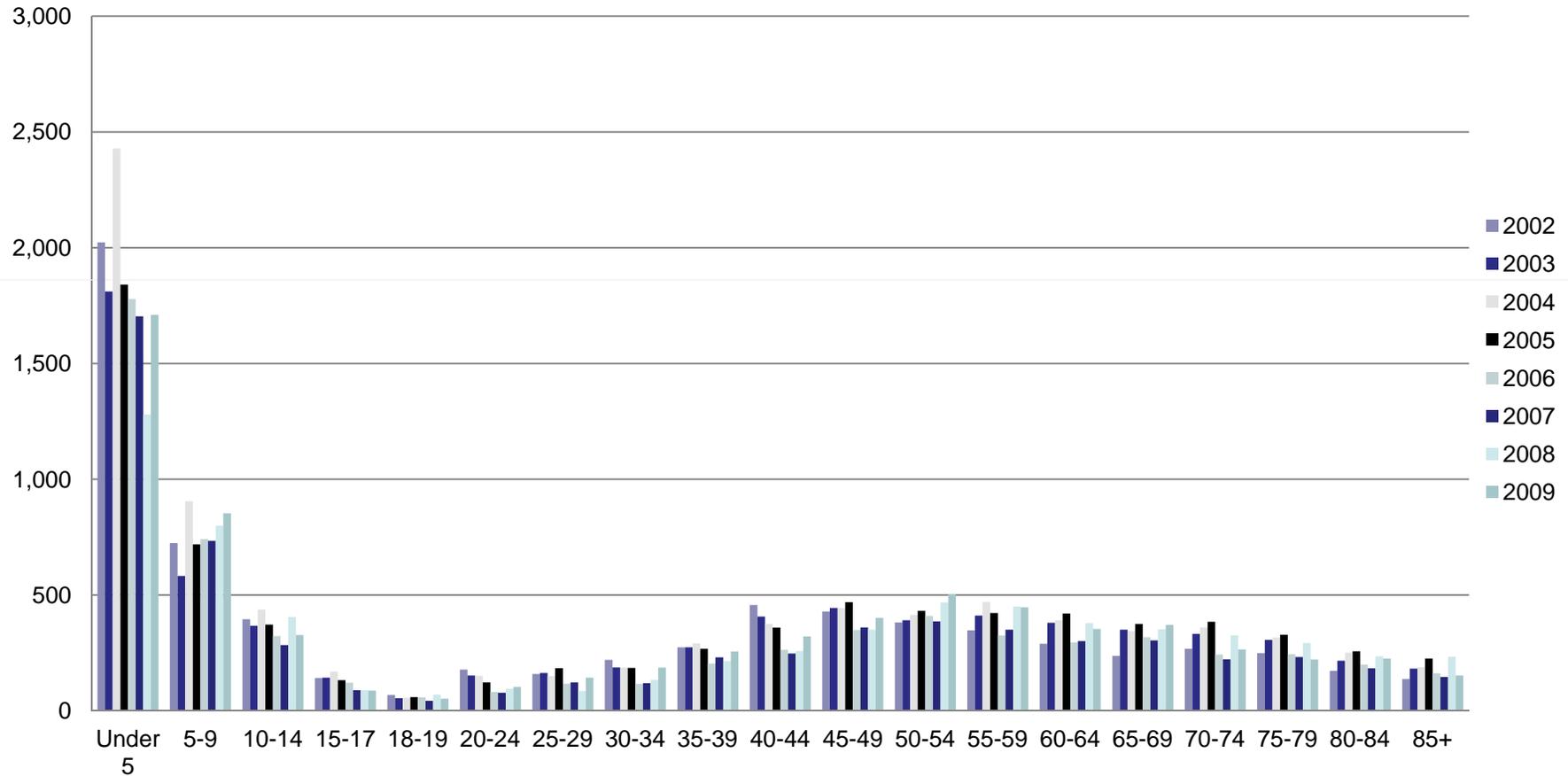


* Average rate = 158.52/100,000 LA Residents

Data Source: LA Hospital Inpatient Discharge Database



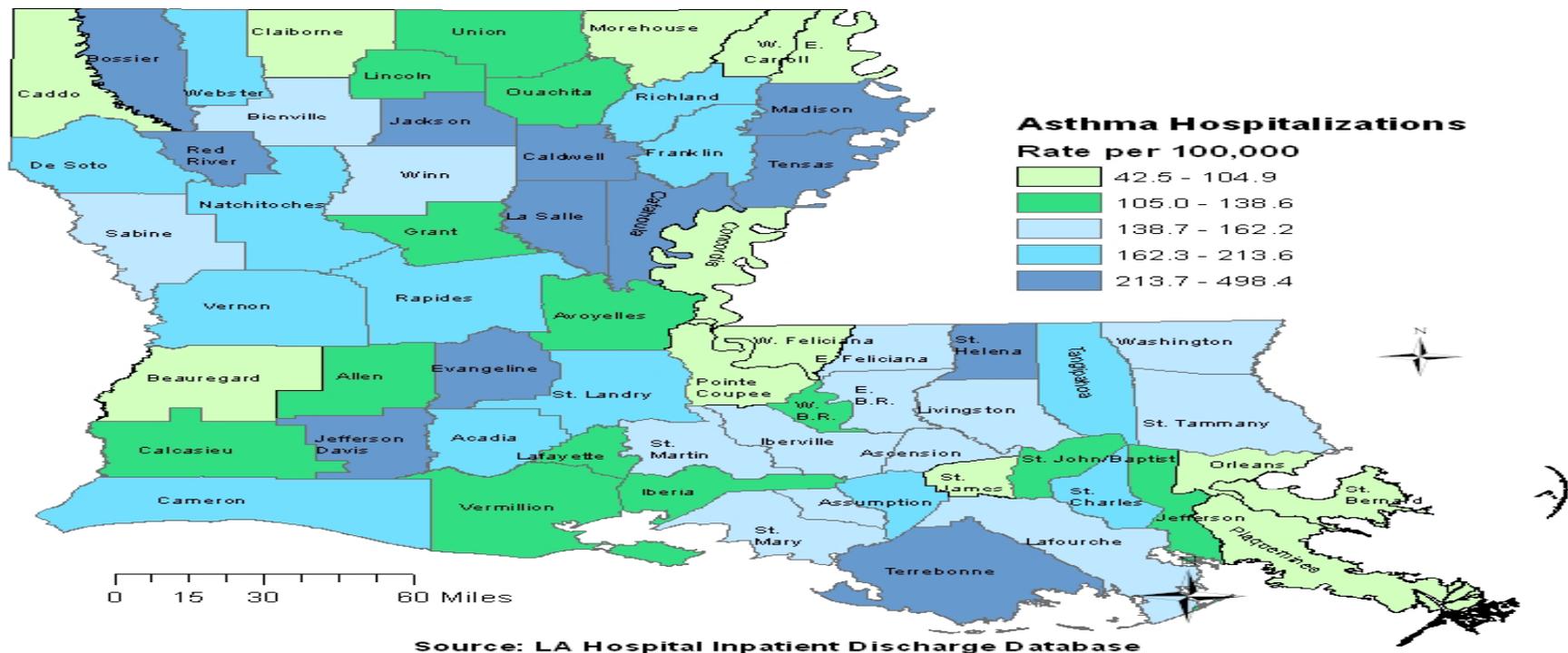
Age specific rates of asthma hospitalizations



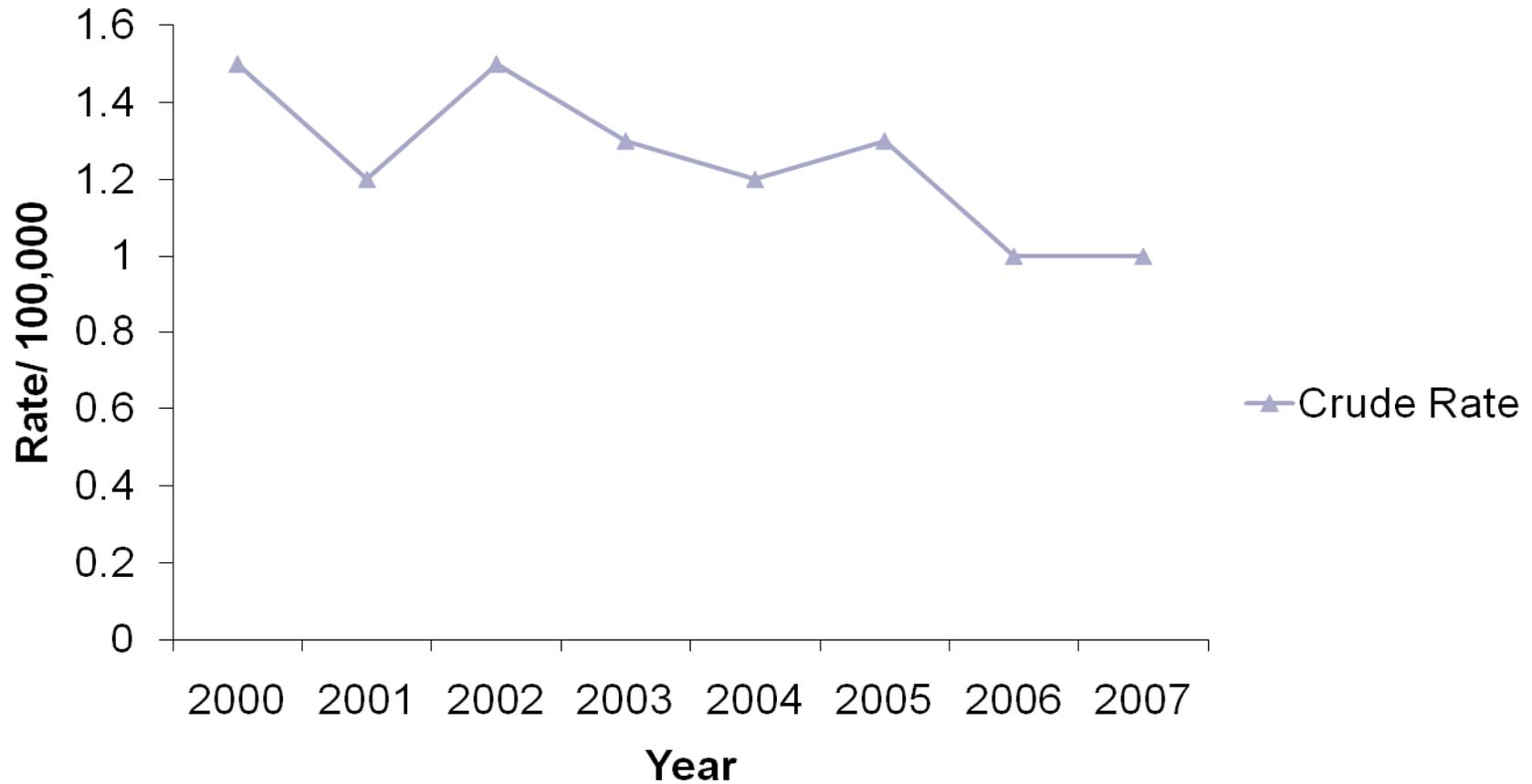
Data Source: LA Hospital Inpatient Discharge Database



Where are the hospitalizations occurring?



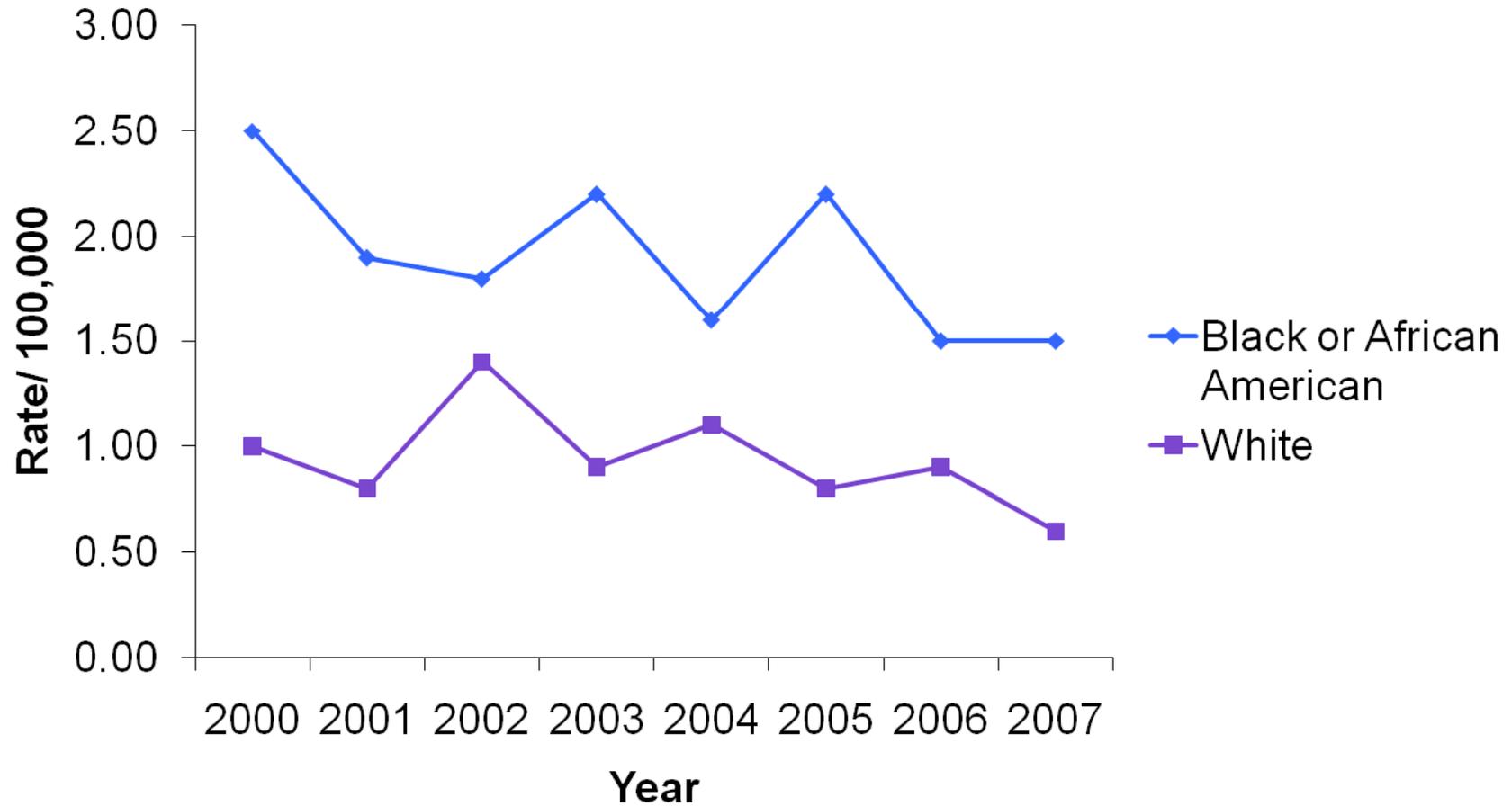
Asthma Mortality



Data Source: Louisiana Vital Records Registry 2000-2007



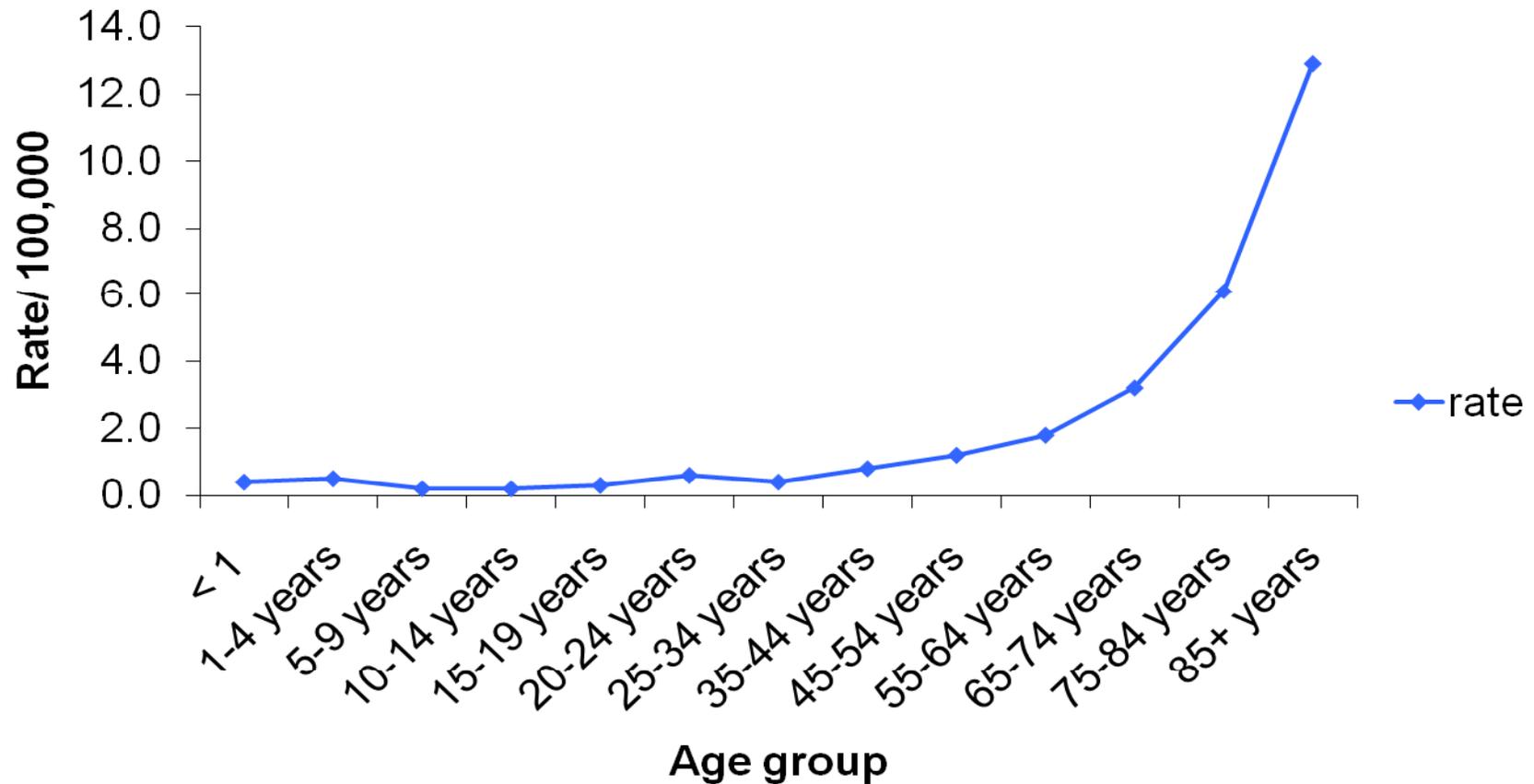
Asthma Mortality by Year and Race



Data Source: Louisiana Vital Records Registry 2000-2007



Age-specific asthma death rate



Data Source: Louisiana Vital Records Registry 2000-2007



Asthma Costs by Age Group, Race, and Gender

Medicaid Expenditure by Age, Gender and Race				
Age	# of Recips	# of claims	Cost	Cost per Recip
0-10	16,227	258,862	32,366,325	1,995
11-17	7,060	117,789	13,036,769	1,847
18-64	7,395	154,128	20,367,672	2,754
65+	295	5,173	782,249	2,652
Gender	# of Recips	# of claims	Cost	Cost per Recip
Male	15,953	268,937	32,943,963	2,065
Female	15,022	266,979	33,600,391	2,237
Unknown	2	36	8,660	4,330
Race	# of Recips	# of claims	Cost	Cost per Recip
White	12,679	202,784	25,244,984	1,991
Black	15,924	291,719	35,959,476	2,258
Other	2,374	41,449	5,348,555	2,253

Data Source: Louisiana Office of Medicaid, 2009

