



Poonam Alaigh, MD, MSHCPM, FACP
Commissioner

New Jersey Asthma Awareness and Education Program
Chronic Disease Prevention and Control Services
50 East State Street
Trenton, NJ 08625
(609) 984-6137

www.nj.gov/health/asthma



Chris Christie
Governor

Asthma in New Jersey

Chapter 1: Lifetime Asthma and Current Asthma

The New Jersey Department of Health and Senior Services (NJDHSS) monitors the percentage of residents with lifetime asthma and current asthma using the New Jersey Behavioral Risk Factor Survey (NJBRFS). The NJBRFS is an ongoing telephone survey that is partially funded by the Centers for Disease Control and Prevention (CDC) and is administered by the NJDHSS Center for Health Statistics. The NJBRFS represents a geographical subset of the national Behavioral Risk Factor Surveillance System (BRFSS), which was established in 1984. The BRFSS is currently implemented across all 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and Guam where it is being used to monitor and improve the health of residents. Using this system, population-based estimates are generated from interviews of non-institutionalized adults aged 18 years and older. New Jersey and many other states have opted to use this approach to collect information on asthma among children. Asthma cases reflect only those that have been diagnosed by a health care professional, as reported by survey respondents.

Section 1

Lifetime Asthma and Current Asthma among New Jersey Children

Since 2005, lifetime asthma and current asthma among New Jersey children have been monitored using information that is provided by adult NJBRFS respondents about a randomly selected child (<18 years) in the household. Lifetime asthma is estimated based on the number of these children about whom a doctor, nurse, or other health professional ever said the child has asthma, according to the respondent. Current asthma is estimated based on the number of these children who reportedly still have asthma. According to data from the 2009 NJBRFS, approximately 295,000 children have lifetime asthma (14.3%) and approximately 188,000 (9.1%) children have current asthma. The 2009 data also suggest that of those who have lifetime asthma, about 65% have current asthma.

Figure 1

**Estimated Lifetime Asthma and Current Asthma
Among Children by Sex, New Jersey, 2007-2009**

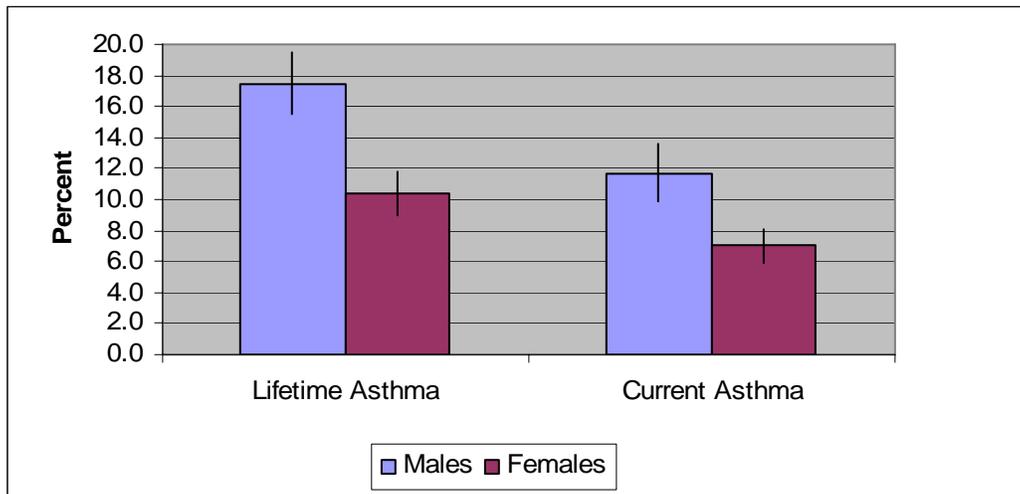


Table 1

**Estimated Lifetime Asthma and Current Asthma
Among Children by Sex, New Jersey, 2007-2009**

Sex	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Males	17.5	15.5 – 19.5	11.7	9.9 – 13.5
Females	10.4	9.0 – 11.8	7.0	5.9 – 8.1

Data Source - NJBRFS

Lifetime Asthma is associated with sex, Rao-Scott Chi-Square Test (p<.0001)

Current asthma is associated with sex, Rao-Scott Chi-Square Test (p<.0001)

Unlike adults, both lifetime asthma and current asthma are more common in male children as compared to female children.

Figure 2

**Estimated Lifetime Asthma and Current Asthma
Among Children by Age, New Jersey, 2007-2009**

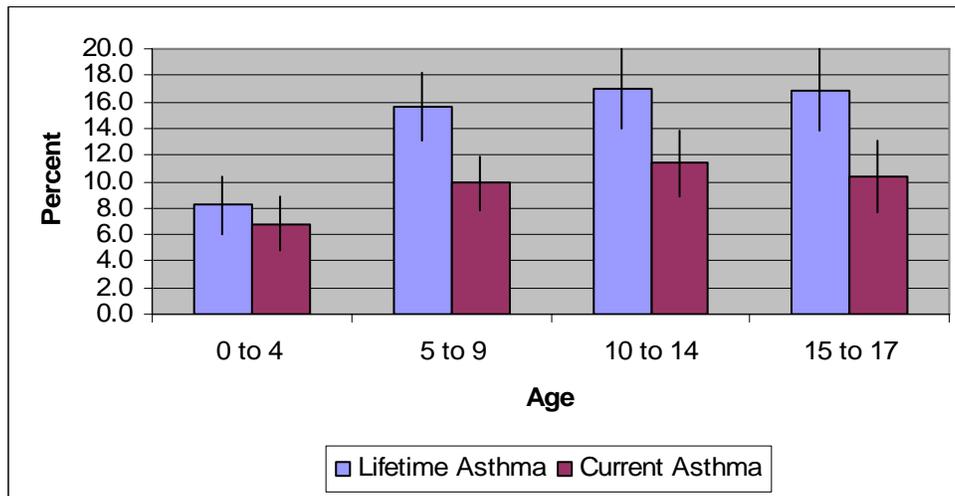


Table 2

**Estimated Lifetime Asthma and Current Asthma
Among Children by Age, New Jersey, 2007-2009**

Age	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
0-4 years	8.2	6.0 – 10.3	6.8	4.8 – 8.9
5-9 years	15.6	13.1 – 18.2	9.9	7.8 – 11.9
10-14 years	17.0	14.0 – 20.0	11.4	8.9 – 13.9
15-17 years	16.9	13.9 – 20.0	10.4	7.7 – 13.1

Data Source - NJBRFS

Lifetime Asthma is associated with age, Rao-Scott Chi-Square Test ($p < .0001$)

Current asthma is associated with age, Rao-Scott Chi-Square Test ($p = .04$)

Among children, lifetime asthma and current asthma estimates vary with age. Lifetime asthma is highest among those aged 10-14 years (17.0%) and lowest among those aged 0-4 years (8.2%). Similarly, current asthma is highest among those aged 10-14 years (11.4%) and lowest among those 0-4 years (6.8%).

Figure 3

**Estimated Lifetime Asthma and Current Asthma
Among Children by Race/Ethnicity, New Jersey, 2006-2009**

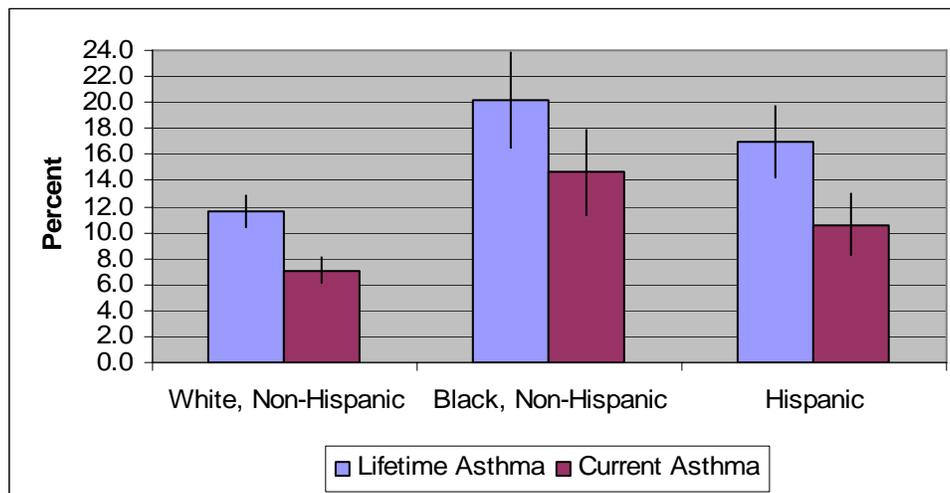


Table 3

**Estimated Lifetime Asthma and Current Asthma
Among Children by Race/Ethnicity, New Jersey, 2006-2009**

Race/Ethnicity	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
White, Non-Hispanic	11.6	10.3 – 12.9	7.1	6.1 – 8.1
Black, Non-Hispanic	20.2	16.5 – 23.8	14.6	11.3 – 17.8
Hispanic	17.0	14.2 – 19.7	10.6	8.2 – 13.0

Data Source - NJBRFS

Lifetime Asthma is associated with race/ethnicity, Rao-Scott Chi-Square Test ($p < .0001$)

Current asthma is associated with race/ethnicity, Rao-Scott Chi-Square Test ($p < .0001$)

Lifetime asthma and current asthma vary by race and by ethnicity. Lifetime asthma is highest among black, non-Hispanic children (20.2%) and lowest among white, non-Hispanic children (11.6%). Similarly, current asthma is highest among black, non-Hispanic children (14.6%) and lowest among White, non-Hispanic children (7.1%). Sample sizes are currently insufficient to report estimates for many groups including the Hispanic sub-groups, American Indian or Alaska Native, Native Hawaiian or other Pacific Islander, and Asian populations. Hispanic children in New Jersey are about 16% Mexican, 32% Puerto Rican, 4% Cuban, 13% Dominican, 29% Central American or South American, and 6% Other Hispanic or Latino.³

Figure 4

**Estimated Lifetime Asthma and Current Asthma
Among Children by Respondent Education, New Jersey, 2006-2009**

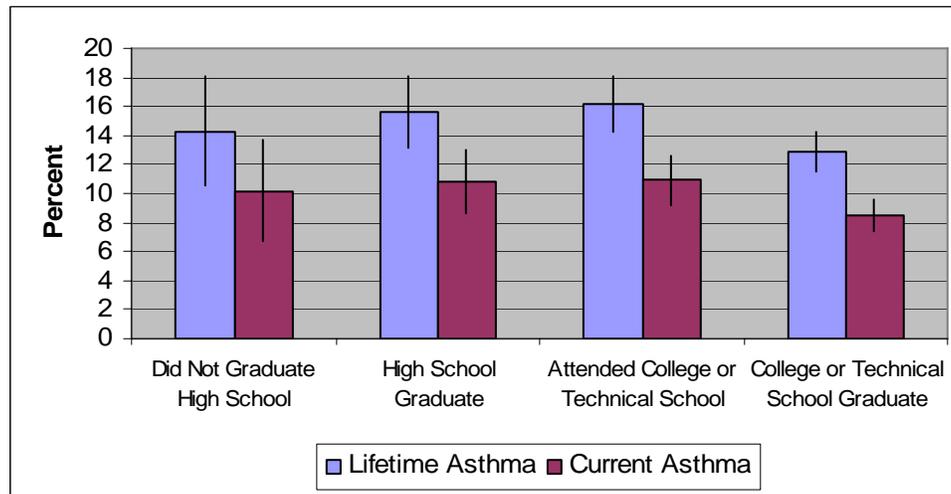


Table 4

**Estimated Lifetime Asthma and Current Asthma
Among Children by Respondent Education, New Jersey, 2006-2009**

Respondent Education	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Did Not Graduate High School	14.3	10.5 – 18.1	10.2	6.7 – 13.7
High School Graduate	15.6	13.1 – 18.0	10.8	8.6 – 13.0
Attended College or Technical School	16.2	14.2 – 18.1	10.9	9.2 – 12.6
College or Technical School Graduate	12.9	11.5 – 14.3	8.5	7.3 – 9.6

Data Source - NJBRFS

Insufficient evidence to show Lifetime Asthma is associated with respondent education, Rao-Scott Chi-Square Test (p=.05)

Insufficient evidence to show Current Asthma is associated with respondent education, Rao-Scott Chi-Square Test (p=.10)

Lifetime asthma and current asthma estimates are lowest for those children living with a respondent who graduated college or technical school (12.9%, 8.5%). However, there is insufficient evidence to show a statistical association between either of the measures and respondent education level.

Figure 5

**Estimated Lifetime Asthma and Current Asthma
Among Children by Household Income, New Jersey, 2006-2009**

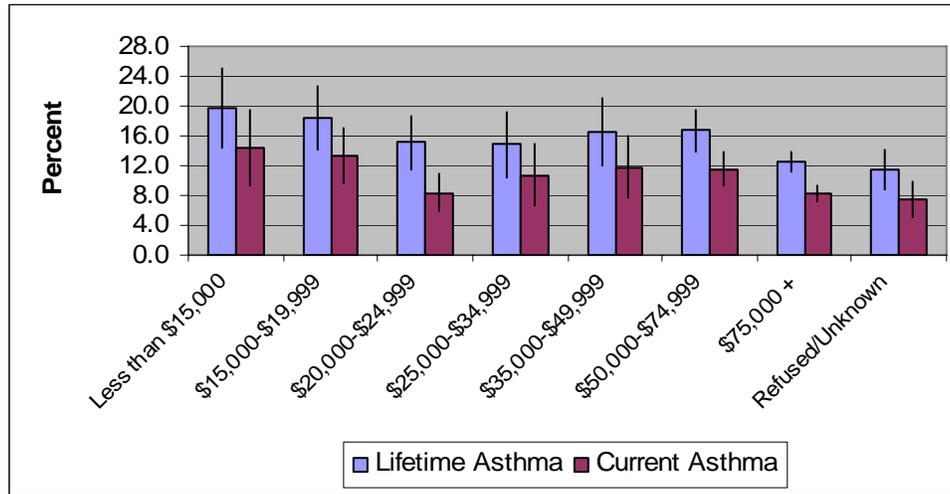


Table 5

**Estimated Lifetime Asthma and Current Asthma
Among Children by Household Income, New Jersey, 2006-2009**

Household Income	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Less than \$15,000	19.8	14.5 – 25.1	14.4	9.4 – 19.4
\$15,000-\$19,999	18.4	14.1 – 22.6	13.4	9.7 – 17.1
\$20,000-\$24,999	15.1	11.4 – 18.7	8.3	5.7 – 10.8
\$25,000-\$34,999	14.9	10.5 – 19.3	10.8	6.6 – 14.9
\$35,000-\$49,999	16.6	12.0 – 21.1	11.8	7.6 – 16.0
\$50,000-\$74,999	16.7	13.9 – 19.5	11.6	9.3 – 14.0
\$75,000 +	12.6	11.2 – 13.9	8.2	7.1 – 9.3
Refused/Unknown	11.4	8.7 – 14.1	7.5	5.1 – 10.0

Data Source - NJBRFS

Lifetime Asthma is associated with household income, Rao-Scott Chi-Square Test (p=.003)

Current asthma is associated with household income, Rao-Scott Chi-Square Test (p=.003)

Lifetime asthma and current asthma estimates among children vary with household income level, but the trends are not as evident as the adult estimates. Lifetime asthma and current asthma are highest for children with a household income of less than \$15,000 per year (19.8%, 14.4%) and are lowest for children with a household income level of \$75,000 and more (12.6%, 8.2%). Children living with an adult respondent who refuses to provide household income or for which household income is unknown are included here as a category since these children represent about 9.0% of all children in the State. The estimates for lifetime asthma and current asthma in this refused/unknown household income group are lowest overall (11.4%, 7.5%) and are most similar to those in the \$75,000 + household income category.

Section 2

Lifetime Asthma and Current Asthma among New Jersey Adults

Lifetime asthma is estimated based on the number of adult respondents who report ever being told by a doctor, nurse, or other health professional that they had asthma. Current asthma is estimated based on the number of adult respondents with lifetime asthma who report still having asthma. According to data from the 2009 NJBRFS, approximately 840,000 adult residents have lifetime asthma (12.6%) and approximately 511,000 adult residents have current asthma (7.7%). The 2009 data also suggest that of those adults who have lifetime asthma, about 63% have current asthma.

Figure 6

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Year, New Jersey, 2002-2009**

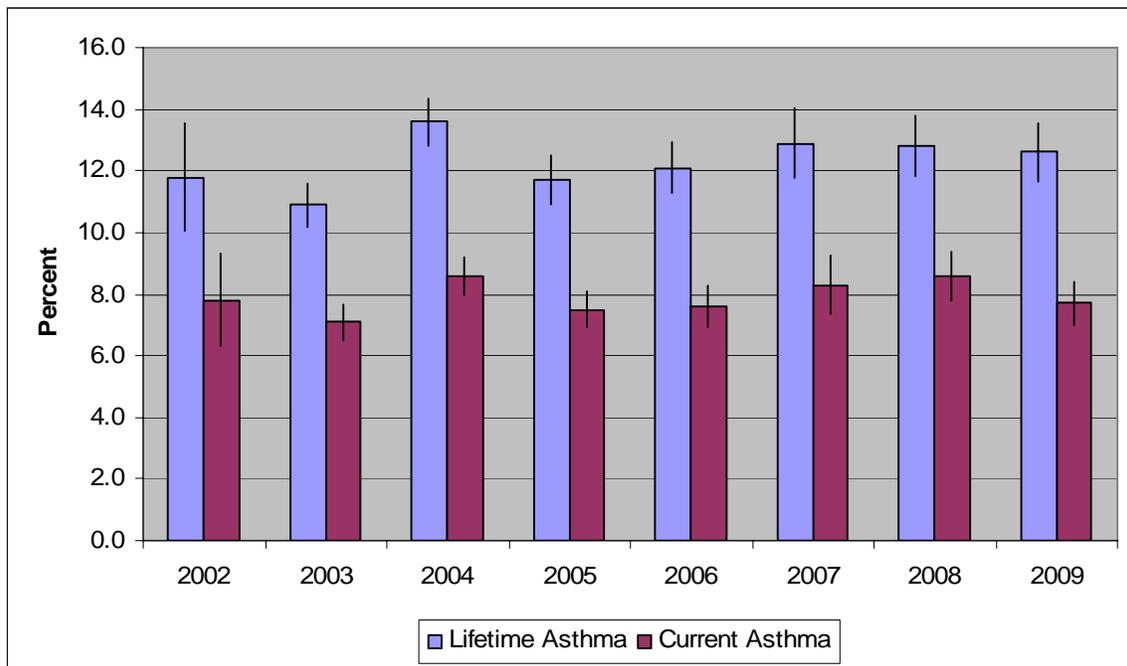


Table 6

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Year, New Jersey, 2002-2009**

Year	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
2002	11.8	10.1 – 13.6	7.8	6.3 – 9.3
2003	10.9	10.2 – 11.6	7.1	6.5 – 7.7
2004	13.6	12.8 – 14.3	8.6	8.0 – 9.3
2005	11.7	10.9 – 12.5	7.5	6.9 – 8.1
2006	12.1	11.2 – 12.9	7.6	7.0 – 8.3
2007	12.9	11.7 – 14.1	8.3	7.4 – 9.3
2008	12.8	11.8 – 13.7	8.6	7.8 – 9.4
2009	12.6	11.7 – 13.6	7.7	7.0 – 8.4

Data Source – NJBRFS

From 2002 to 2009, lifetime asthma estimates ranged from 10.9 percent to 13.6 percent of the adult population. During this time period, current asthma estimates ranged from about 7.1 percent to 8.6 percent of the adult population.

Figure 7

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Sex, New Jersey, 2007-2009**

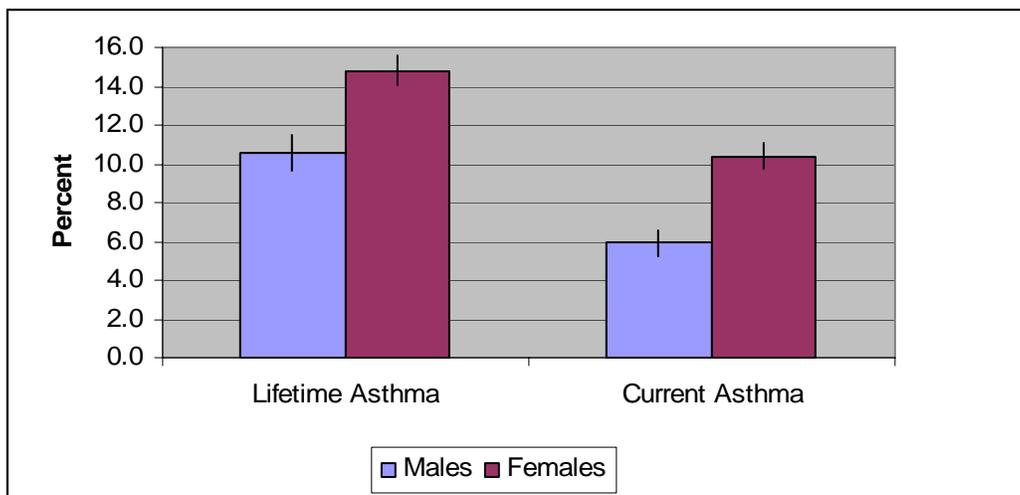


Table 7

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Sex, New Jersey, 2007-2009**

Sex	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Males	10.6	9.7 – 11.5	5.9	5.2 – 6.6
Females	14.8	14.0 – 15.5	10.4	9.7 – 11.0

Data Source - NJBRFS

Lifetime Asthma is associated with sex, Rao-Scott Chi-Square Test (p<.0001)

Current asthma is associated with sex, Rao-Scott Chi-Square Test (p<.0001)

Adult lifetime asthma and current asthma are higher for female residents when compared to male residents. The estimated number of women with current asthma (359,000) is nearly double the estimated number of men with current asthma (188,000).

Figure 8

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Age, New Jersey, 2007-2009**

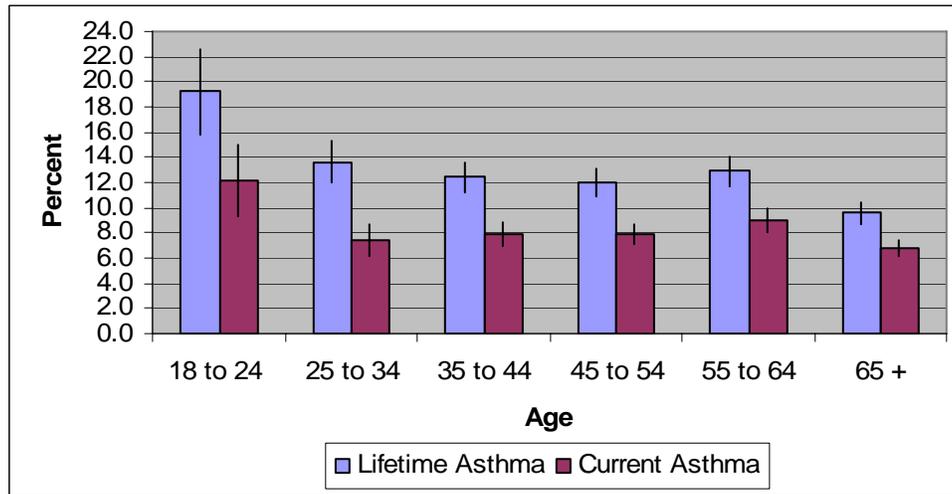


Table 8

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Age, New Jersey, 2007-2009**

Age	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
18-24 years	19.2	15.7 – 22.6	12.1	9.3 – 15.0
25-34 years	13.6	11.9 – 15.3	7.4	6.2 – 8.6
35-44 years	12.4	11.2 – 13.6	7.9	6.9 – 8.9
45-54 years	12.0	10.9 – 13.0	7.9	7.1 – 8.8
55-64 years	12.9	11.7 – 14.1	9.0	8.0 – 10.0
65 + years	9.6	8.8 – 10.5	6.8	6.2 – 7.5

Data Source - NJBRFS

Lifetime Asthma is associated with age, Rao-Scott Chi-Square Test (p<.0001)

Current asthma is associated with age, Rao-Scott Chi-Square Test (p<.0001)

Adult lifetime asthma and current asthma estimates vary with age. Among adults, lifetime asthma is highest among those aged 18-24 years (19.2%) and lowest among those aged 65 years and over (9.6%). Similarly, current asthma is highest among those aged 18-24 years (12.1%) and lowest among those aged 65 years and over (6.8%).

Figure 9

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Race/Ethnicity, New Jersey, 2005-2009**

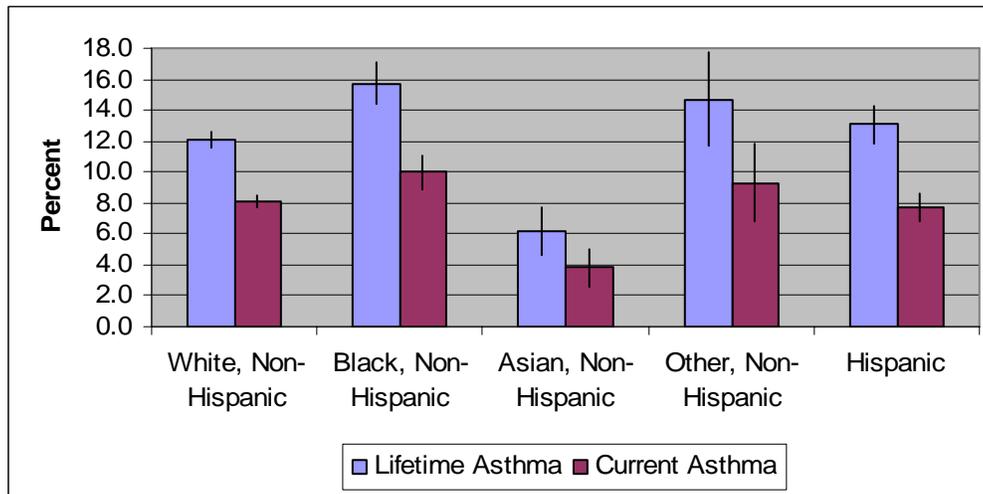


Table 9

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Race/Ethnicity, New Jersey, 2005-2009**

Race/Ethnicity	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
White, Non-Hispanic	12.1	11.6 – 12.6	8.1	7.6 – 8.5
Black, Non-Hispanic	15.7	14.4 – 17.1	10.0	8.9 – 11.0
Asian, Non-Hispanic	6.2	4.7 – 7.7	3.8	2.6 – 5.0
Other, Non-Hispanic	14.7	11.7 – 17.7	9.3	6.8 – 11.8
Hispanic	13.1	11.8 – 14.3	7.7	6.8 – 8.5

Data Source - NJBRFS

Other includes American Indian, Alaska Native, Native Hawaiian or Pacific Islander, Multiracial, and Other Races

Lifetime Asthma is associated with race/ethnicity, Rao-Scott Chi-Square Test ($p < .0001$)

Current asthma is associated with race/ethnicity, Rao-Scott Chi-Square Test ($p < .0001$)

Among adult residents in New Jersey, lifetime asthma and current asthma estimates vary by race and ethnicity. Lifetime asthma is highest among black, non-Hispanic adults (15.7%) and lowest among Asian, non-Hispanic adults (6.2%). Similarly, current asthma is highest among black, non-Hispanic adults (10.0%) and lowest among Asian, non-Hispanic adults (3.8%). Estimates for Hispanics should be interpreted with caution since national surveillance data shows prevalence to be relatively high among Hispanics of Puerto Rican descent and relatively low among Hispanics of Mexican descent.² Separate estimates of lifetime asthma and current asthma are not currently available for Hispanic sub-groups as well as, for the American Indian, Alaska Native, Native Hawaiian or Pacific Islander, Multiracial, and other race groups due to insufficient sample sizes. Hispanic adults in New Jersey are about 12% Mexican, 27% Puerto Rican, 6% Cuban, 12% Dominican, 37% Central American or South American, and 5% Other Hispanic or Latino.³

Figure 10

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Education, New Jersey, 2007-2009**

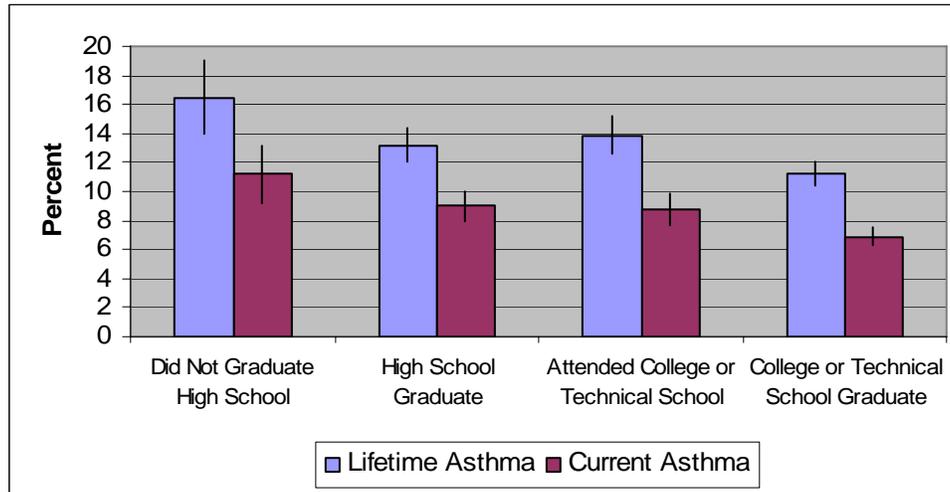


Table 10

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Education, New Jersey, 2007-2009**

Education	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Did Not Graduate High School	16.5	14.0 – 19.0	11.2	9.3 – 13.2
High School Graduate	13.2	12.0 – 14.4	9.0	8.0 – 9.9
Attended College or Technical School	13.9	12.5 – 15.2	8.8	7.8 – 9.9
College or Technical School Graduate	11.2	10.4 – 12.0	6.9	6.2 – 7.5

Data Source - NJBRFS

Lifetime Asthma is associated with education, Rao-Scott Chi-Square Test ($p < .0001$)

Current asthma is associated with education, Rao-Scott Chi-Square Test ($p < .0001$)

Lifetime asthma and current asthma estimates are highest for adult residents who did not graduate high school (16.5%, 11.2%) and lowest for adult residents who graduated college or technical school (11.2%, 6.9%).

Figure 11

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Household Income, New Jersey, 2007-2009**

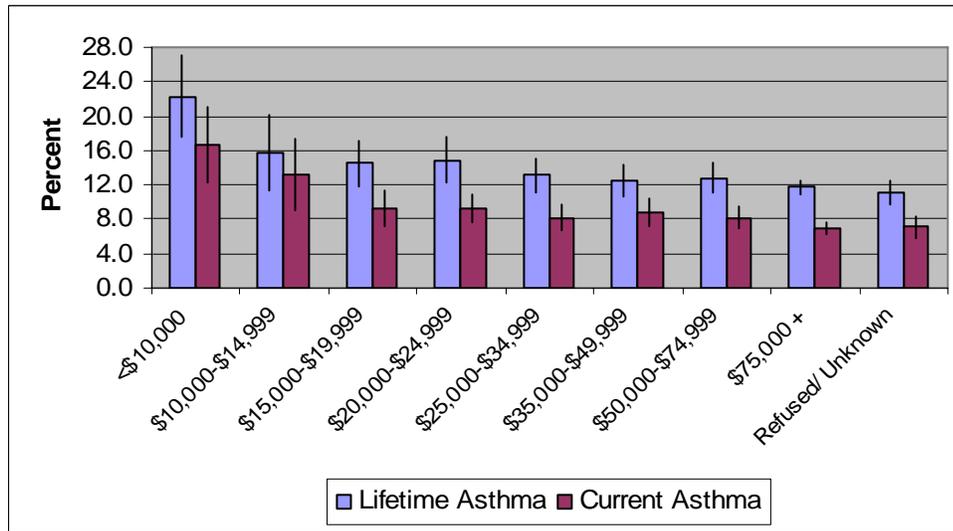


Table 11

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Household Income, New Jersey, 2007-2009**

Household Income	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
<\$10,000	22.3	17.5 – 27.0	16.7	12.3 – 21.1
\$10,000-\$14,999	15.7	11.4 – 20.1	13.2	9.0 – 17.5
\$15,000-\$19,999	14.5	11.9 – 17.1	9.3	7.2 – 11.4
\$20,000-\$24,999	14.9	12.3 – 17.5	9.3	7.7 – 10.9
\$25,000-\$34,999	13.1	11.1 – 15.0	8.2	6.7 – 9.7
\$35,000-\$49,999	12.5	10.6 – 14.3	8.8	7.2 – 10.4
\$50,000-\$74,999	12.8	11.1 – 14.5	8.2	6.9 – 9.6
\$75,000 +	11.7	10.8 – 12.6	7.0	6.3 – 7.7
Refused/Unknown	11.1	9.6 – 12.6	7.1	5.8 – 8.3

Data Source - NJBRFS

Lifetime Asthma is associated with household income, Rao-Scott Chi-Square Test (p<.0001)

Current asthma is associated with household income, Rao-Scott Chi-Square Test (p<.0001)

Adult lifetime asthma and current asthma estimates vary with household income level. Looking at the data in Table 11, these estimates tend to decrease with increasing income. Lifetime asthma and current asthma are highest for adult residents with a household income of less than \$10,000 per year (22.3%, 16.7%) and are lowest for adults with a household income level of \$75,000 and more (11.7%, 7.0%). Adults who refuse to provide household income or for which household income is unknown are included here as a category since these adults represent about 14.1% of all adults in the State. The estimates for lifetime asthma and current asthma in this refused/unknown household income group (11.1%, 7.1%) are most similar to those in the \$75,000 + household income category.

Figure 12

**Estimated Lifetime Asthma and Current Asthma
Among Adults by BMI Category, New Jersey, 2005-2009**

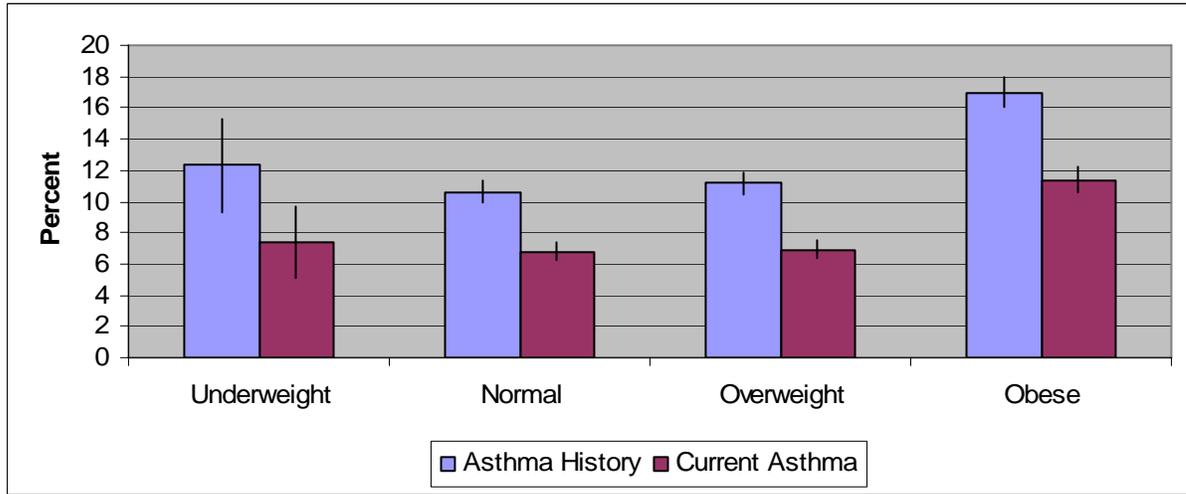


Table 12

**Estimated Lifetime Asthma and Current Asthma
Among Adults by BMI Category, New Jersey, 2005-2009**

BMI Category*	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Underweight	12.3	9.3 – 15.4	7.4	5.1 – 9.7
Normal	10.6	9.9 – 11.3	6.8	6.2 – 7.3
Overweight	11.2	10.5 – 11.9	6.9	6.3 – 7.4
Obese	17.0	16.1 – 18.0	11.4	10.6 – 12.2

Data Source - NJBRFS

Underweight (BMI = < 18.5), Normal (BMI = 18.5 to 24.9), Overweight (BMI = 25 to 29.9), Obese (BMI = 30 or greater)

Lifetime Asthma is associated with BMI category, Rao-Scott Chi-Square Test (p<.0001)

Current asthma is associated with BMI category, Rao-Scott Chi-Square Test (p<.0001)

Adult lifetime asthma and current asthma estimates vary with Body Mass Index (BMI) category. Lifetime asthma and current asthma are highest for adult residents who are classified as being obese (17.0%, 11.4%) and are lowest for adults who are classified as being of normal weight (10.6%, 6.8%).

Figure 13

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Smoking Status, New Jersey, 2007-2009**

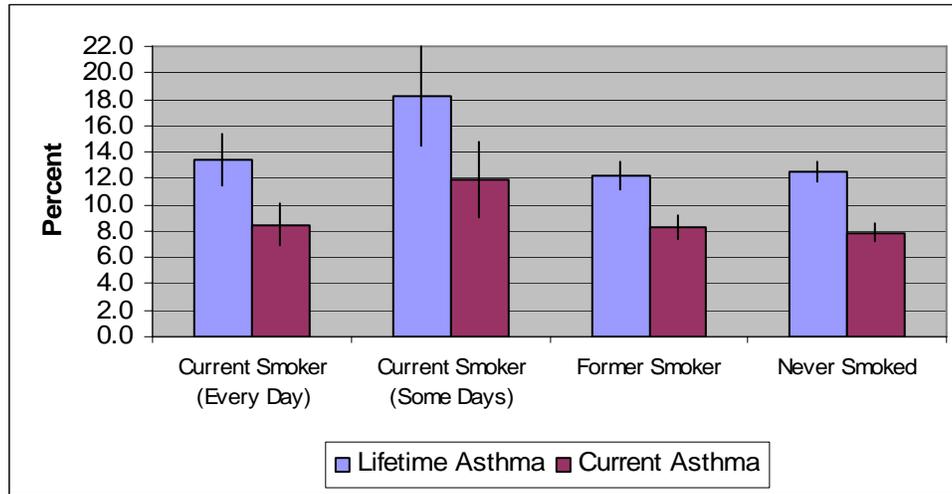


Table 13

**Estimated Lifetime Asthma and Current Asthma
Among Adults by Smoking Status, New Jersey, 2007-2009**

Smoking Status	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Current Smoker (Every Day)	13.4	11.4 – 15.4	8.5	7.0 – 10.1
Current Smoker (Some Days)	18.2	14.5 – 21.9	11.9	9.1 – 14.8
Former Smoker	12.2	11.2 – 13.2	8.3	7.4 – 9.1
Never Smoked	12.5	11.7 – 13.3	7.9	7.2 – 8.5

Data Source - NJBRFS

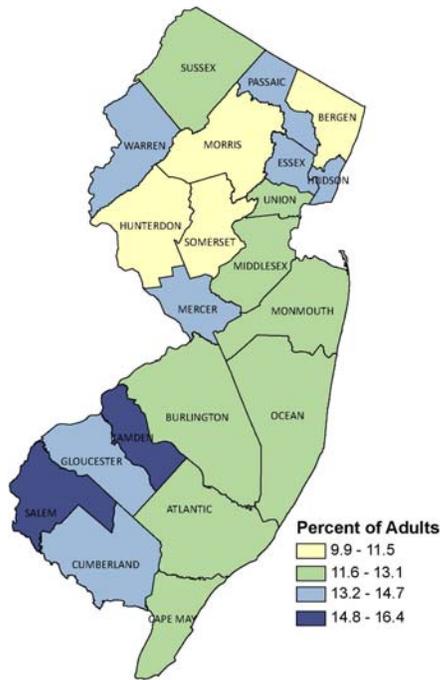
Current and former smokers have smoked at least 100 cigarettes in their lifetime

Lifetime Asthma is associated with smoking status, Rao-Scott Chi-Square Test (p=.001)

Current asthma is associated with smoking status, Rao-Scott Chi-Square Test (p=.01)

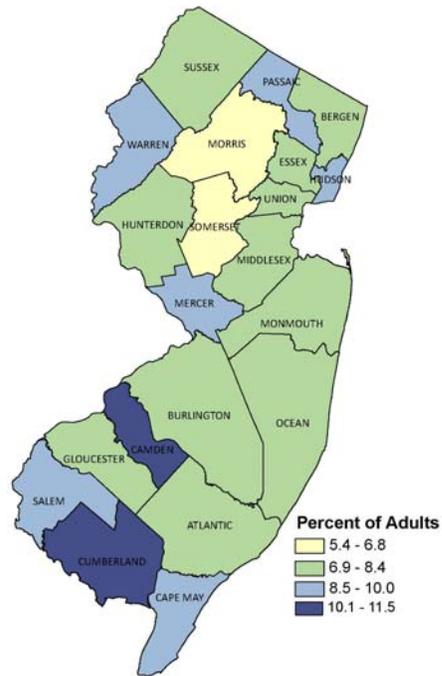
Adult residents who are current smokers and who have smoked at least 100 cigarettes in their lifetime and who smoke only on some days have the highest estimated adult lifetime asthma history (18.2%) and the highest estimated current asthma prevalence (11.9%).

Figure 14a
Estimated Lifetime Asthma Among Adults
by County, New Jersey, 2005-2009



Equal Intervals Method

Figure 14b
Estimated Current Asthma Among Adults
by County, New Jersey, 2005-2009



Equal Intervals Method

Table 14
Estimated Lifetime Asthma and Current Asthma
Among Adults by County, New Jersey, 2005-2009

County of Residence	Lifetime Asthma		Current Asthma	
	Percent	95% CI	Percent	95% CI
Atlantic	11.9	10.2 – 13.6	7.2	5.9 – 8.5
Bergen	11.3	9.8 – 12.8	6.9	5.7 – 8.2
Burlington	12.7	11.0 – 14.5	8.1	6.7 – 9.5
Camden	15.1	13.1 – 17.1	11.5	9.7 – 13.4
Cape May	12.6	10.3 – 14.9	8.8	6.9 – 10.8
Cumberland	14.2	11.7 – 16.7	10.1	8.0 – 12.2
Essex	13.2	11.6 – 14.9	8.0	6.9 – 9.1
Gloucester	13.4	11.5 – 15.3	8.4	7.0 – 9.8
Hudson	13.7	12.1 – 15.3	8.7	7.4 – 10.0
Hunterdon	11.5	9.7 – 13.3	7.5	6.0 – 9.0
Mercer	13.5	11.6 – 15.4	8.8	7.2 – 10.3
Middlesex	12.9	11.3 – 14.6	8.4	7.0 – 9.8
Monmouth	11.7	10.0 – 13.4	7.3	6.0 – 8.7
Morris	10.4	8.8 – 11.9	6.6	5.3 – 7.9
Ocean	12.7	10.8 – 14.6	7.9	6.4 – 9.3
Passaic	13.7	11.5 – 15.9	9.1	7.3 – 10.8
Salem	16.4	12.2 – 20.6	9.7	6.5 – 12.9
Somerset	9.9	8.3 – 11.5	5.4	4.3 – 6.4
Sussex	12.3	10.5 – 14.2	7.8	6.3 – 9.3
Union	12.3	10.1 – 14.5	8.0	6.3 – 9.6
Warren	13.7	11.5 – 15.8	9.4	7.7 – 11.2

Data Source - NJBRFS

Lifetime Asthma is associated with county of residence, Rao-Scott Chi-Square Test (p=.004)

Current asthma is associated with county of residence, Rao-Scott Chi-Square Test (p<.0001)

Estimated adult lifetime asthma and current asthma vary by county of residence. Figures 14a and 14b show adult lifetime asthma and current asthma by county of residence. Classes were assigned using an equal intervals approach with four classes identified for lifetime asthma and four classes identified for current asthma such that each class is characterized by an equal range with respect to the relevant measure. Lifetime asthma estimates are highest for adults living in Salem County (16.4%) and are lowest for adults living in Somerset County (9.9%). Current asthma estimates are highest for adults living in Camden County (11.5%) and are lowest for adults living in Somerset County (5.4%). County specific estimates should be interpreted with caution because of the significant variation that is associated with many of the estimates.

Acronyms:

CI – Confidence Interval

BMI – Body Mass Index

Definitions:

Lifetime Asthma – Proportion of the population who reports ever having asthma at a single point in time

Current Asthma – Proportion of the population who reports having asthma at a single point in time

Confidence Interval – A range of values within which the actual value is likely to fall

References:

1. Centers for Disease Control and Prevention. About the BRFSS: Turning Information into Public Health, Accessed May 27, 2010.
Available: <http://www.cdc.gov/brfss/about.htm>
2. Centers for Disease Control and Prevention. Current Asthma Prevalence Percents by Age, United States: National Health Interview Survey, 2006, Accessed June 28, 2010.
Available: <http://www.cdc.gov/asthma/nhis/06/table4-1.htm>
3. U.S. Census Bureau. Selected Population Profile, New Jersey: American Community Survey, 2008, Accessed September 7, 2010.
Available: http://www2.census.gov/acs2008_1yr/prod/SelectPopulationProfile/State/

Acknowledgements:

This chapter was developed by the New Jersey Asthma Awareness and Education Program within the NJDHSS Division of Family Health Services' Chronic Disease Prevention and Control Services. The NJDHSS Center for Health Statistics administers the NJBRFS and provided technical assistance and statistical support.

Contributors:

Melissa Vezina, MPH, Research Scientist, NJDHSS Asthma Awareness and Education Program

Technical Assistance:

Kenneth O’Dowd, PhD, BRFSS Coordinator, NJDHSS Center for Health Statistics

Reviewers:

Christina Tan, MD, MPH, NJDHSS State Epidemiologist

Celeste Andriot-Wood, Assistant Commissioner, NJDHSS Division of Family Health Services

Lisa A. Holland, RN, BSN, MBA, Director, NJDHSS Chronic Disease Prevention and Control Services

Nuris Rodriguez, MSW, Program Manager, NJDHSS Chronic Disease Prevention and Management

Lisa Jones, RN, MSN, Coordinator, NJDHSS Asthma Awareness and Education Program

Uta Steinhauser, MPH, Program Evaluator, Chronic Disease Prevention and Control Services

Katherine Hempstead, PhD, Director, Center for Health Statistics

Kenneth O’Dowd, PhD, BRFSS Coordinator, NJDHSS Center for Health Statistics

David M. Mannino, MD, Centers for Disease Control and Prevention

Questions and data requests can be directed to:

Melissa Vezina, MPH

Research Scientist

New Jersey Asthma Awareness and Education Program

PO Box 364

Trenton, NJ 08625-0364

(609) 984-6137

For more information about the NJ Asthma Awareness and Education Program:

www.nj.gov/health/asthma

For asthma resources from the Pediatric Adult Asthma Coalition of New Jersey (PACNJ):

www.pacnj.org

For more information about the NJBRFS:

www.nj.gov/health/asthma

For more information about the BRFSS:

www.cdc.gov/brfss

Funding for this effort was provided by the CDC Cooperative Agreement entitled *Addressing Asthma from a Public Health Perspective* (5U59EH000491-02). The contents are solely the responsibility of the authors and do not necessarily represent the official view of the CDC.