

# San Diego County Asthma Profile

modified on: Thursday, 01 September 2016

**In San Diego County, approximately 412,000 children and adults have been diagnosed with asthma.**

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## COUNTY PROFILE INDICATORS

		County Population			County Population	
	Lifetime Asthma Prevalence	Emergency Department Visits	Age	Population	%	Race/Ethnicity <sup>1</sup>
	Active Asthma Prevalence	Asthma Hospitalizations				%
	Work-Related Asthma	Asthma Deaths	0-4	213,088	6.7	Asian/PI
	Asthma Management Plans	Outdoor Air Quality <sup>15</sup>	5-17	512,931	16.0	Black
	Asthma Risk Factors	Notes	18-64	2,072,631	64.8	Hispanic
			65+	399,513	12.5	White
			Total	3,198,165		Other

DATASOURCE: California Department of Finance, 2014 (2013 release)

## LIFETIME ASTHMA PREVALENCE,<sup>2</sup> 2011-2012

Percent with Lifetime Asthma (95% Confidence Interval <sup>3</sup> )			
	Age	San Diego County	California
Children	0-4	--	9.7 (7.2-12.3)
	5-17	19.4 (14.8-24.0)	17.1 (15.5-18.7)
Adults	18-64	12.8 (10.7-14.9)	14.0 (13.4-14.7)
	65+	10.2 (8.5-11.9)	12.0 (11.1-12.8)
Totals:	0-17	18.0 (14.0-22.0)	15.4 (14.0-16.7)
	18+	12.4 (10.6-14.2)	13.7 (13.1-14.3)
	All Ages	13.7 (12.0-15.4)	14.1 (13.6-14.6)

datasource: California Health Interview Survey (CHIS), 2014

## ACTIVE ASTHMA PREVALENCE,<sup>4</sup> 2014

Percent with Active Asthma (95% Confidence Interval <sup>3</sup> )			
	Age	San Diego County	California
Children	0-4	--	6.3 (4.6-8.0)
	5-17	10.4 (4.7-16.0)	11.6 (10.2-13.0)
Adults	18-64	7.2 (4.5-9.8)	7.6 (7.1-8.1)
	65+	11.0* (3.8-18.3)	8.2 (7.5-8.9)
Totals:	0-17	9.0 (4.5-13.6)	10.1 (9.0-11.3)
	18+	7.9 (5.3-10.5)	7.7 (7.3-8.2)
	All Ages	7.5 (6.3-8.6)	8.3 (7.9-8.7)

datasource: California Health Interview Survey (CHIS), 2014

## WORK-RELATED ASTHMA<sup>5</sup>

Studies show that asthma is commonly caused or triggered by workplace exposures, but work-related asthma (<http://www.cdph.ca.gov/programs/ohsep/Pages/Asthma.aspx>) is under-recognized and under-diagnosed. Research confirms that 15-30% of current adult asthma was initiated by work exposures, meaning that **an estimated 24,300-48,600 adults in San Diego County have asthma caused by work.**<sup>6</sup>

datasource: CHIS, 2014

## ASTHMA MANAGEMENT PLANS

National guidelines recommend that health care providers give all patients with asthma a written self-management plan. **In San Diego County, 83.2% (95% CI 78.5-88.0) of people with asthma have NOT received a written asthma management plan from a health care provider.**

datasource: CHIS, 2014

## ASTHMA RISK FACTORS, 2014

San Diego County Risk Factors	
Risk Factor	Percent (95% Confidence Interval)
Percent of adults who are current smokers	12.2 (10.5-13.9)
Percent of adults and children exposed to second-hand smoke in the home	5.7 (4.6-6.9)
Percent of adults who are obese <sup>7</sup> (BMI>=30)	22.1 (20.1-24.0)
Percent of people below the Federal Poverty Level	11.9 (NA)
Unemployment Rate	9.7 (NA)

datasource: CHIS, 2011-2012

## ASTHMA DEATHS,<sup>9</sup> 2008-2010

datasource: California Death Statistical Master Files, 2008-2010

ASTHMA EMERGENCY DEPARTMENT VISITS,<sup>10</sup> 2014Number of ED Visits Due to Asthma (N) and Age-Adjusted Rate<sup>11</sup> (per 10,000 residents)

		San Diego County		California	
	Age	N	Rate	N	Rate
Children	0-4	1,980	93.1	26,268	103.4
	5-17	2,591	50.3	47,613	72.4
Adults	18-64	5,631	27.4	95,689	39.2
	65+	1,107	28.0	17,374	36.1
Totals:	0-17	4,571	61.8	73,881	80.7
	18+	6,738	27.5	113,063	38.6
	All Ages	11,309	36.3	186,944	49.5

datasource: Office of Statewide Health Planning and Development (OSHDP), 2014

## Expected Source of Payment for Asthma ED Visits

Payment Source	San Diego County	California
Medicare	13.15%	13.29%
Medi-Cal	51.71%	48.56%
Private	23.42%	26.32%
Other	11.72%	11.84%

datasource: Office of Statewide Health Planning and Development (OSHDP), 2014

ASTHMA HOSPITALIZATIONS,<sup>12</sup> 2014Number of Hospitalizations Due to Asthma (N) and Age-Adjusted Rate<sup>11</sup> (per 10,000 residents)

		San Diego County		California	
	Age	N	Rate	N	Rate
Children	0-4	420	19.7	4,994	19.6
	5-17	325	6.3	5,037	7.7
Adults	18-64	828	3.9	12,134	4.7
	65+	486	12.3	7,208	15.2
Totals:	0-17	745	9.9	10,031	10.9
	18+	1,314	5.3	19,342	6.5
	All Ages	2,059	6.5	29,373	7.6

datasource: Office of Statewide Health Planning and Development (OSHDP), 2014

Average Charges<sup>13</sup> Per Asthma Hospitalization

	Age	San Diego County	California
Children	0-17	\$32,728.07	\$27,127.04
Adults	18+	\$40,929.97	\$46,783.17
Total	All Ages	\$37,864.44	\$39,860.44

datasource: Office of Statewide Health Planning and Development (OSHDP), 2014

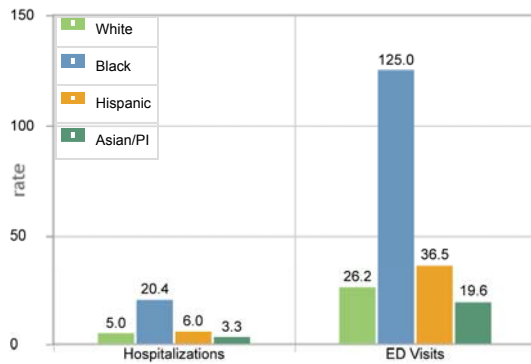
## Expected Source of Payment for Asthma Hospitalizations

Payment Source	San Diego County	California
Medicare	27.73%	28.24%
Medi-Cal	41.91%	46.46%
Private	23.41%	20.34%
Other	6.95%	4.96%

datasource: Office of Statewide Health Planning and Development (OSHDP), 2014

## ASTHMA DISPARITIES

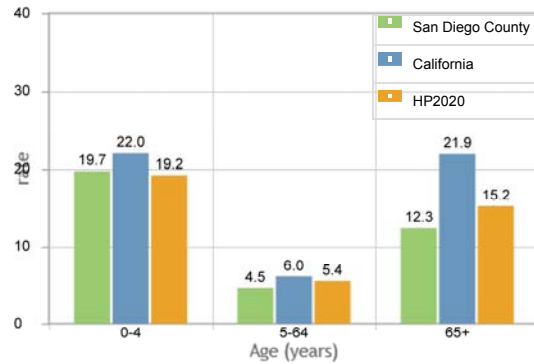
**Age-Adjusted Asthma Hospitalizations and ED Visits per 10,000 San Diego County Residents by Race/Ethnicity, 2014**



Data Source: datasources: Office of Statewide Health Planning and Development (OSHPD), 2014

HEALTHY PEOPLE 2010<sup>14</sup>

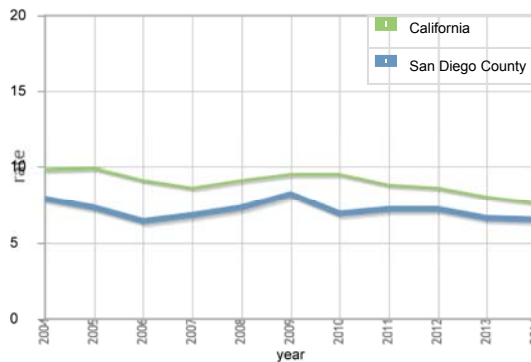
**Asthma Hospitalizations per 10,000 Residents by Age, Compared to HP2010 Targets, California and San Diego County, 2014**



Data Source: datasources: Office of Statewide Health Planning and Development (OSHPD), 2014 .

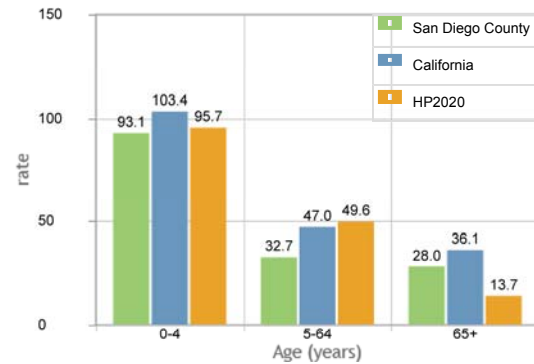
## HOSPITALIZATION RATES OVER TIME

**Age-Adjusted Asthma Hospitalizations per 10,000 Residents, San Diego County and California, 2004-2014**



Data Source: datasources: Office of Statewide Health Planning and Development (OSHPD) , 2004- 2014.

**Asthma ED Visits per 10,000 Residents by Age, Compared to HP2020 Targets, California and San Diego County, 2014**



Data Source: datasources: Office of Statewide Health Planning and Development (OSHPD), 2014.

## NOTES

\*Estimates marked with an asterisk (\*) have large confidence intervals, interpret with caution. Estimates marked with a dash (-) are statistically unstable, so are unreported.

1. PI = Pacific Islander; Please see technical notes for more information on race/ethnicity categorizations.
2. Lifetime asthma prevalence is the proportion of people in the population who have ever been diagnosed with asthma by a health provider.
3. The 95% confidence interval (CI) is a range that expresses a level of certainty about an estimate based on the margin of error.  
The 95% CI means that we are 95 percent confident that this range contains the true population percent. A narrow CI means that there is less variability in the estimate and/or there is a larger sample size. A wide CI indicates more variability and/or a smaller sample size.
4. Active asthma prevalence is the proportion of people in the population who have ever been diagnosed with asthma by a health provider and report that they still have asthma and/or report that they had an episode or attack within the past 12 months.
5. Work-related asthma is asthma that is caused or triggered by conditions or substances in the workplace.
6. Balmes J, Becklake M, Blanc P, et al. Environmental and Occupational Health Assembly, American Thoracic Society. American Thoracic Society Statement: Occupational Contribution to the Burden of Airway Disease. Am J Respir Crit Care Med. 2003;167:787-797; Lutzker L, Rafferty A, Brunner W, et al. Prevalence of Work-related Asthma in Michigan, Minnesota, and Oregon. Journal of Asthma. 2010;47:156-161.
7. Obesity is defined as a body mass index (BMI) of 30 or greater.
8. Data Sources for Asthma Risk Factors: Smoking — CHIS, 2009; Obesity — CHIS, 2009; Poverty Level — American Community Survey, 2007-2009; Unemployment Rate — State of California Employment Development Department, 2009
9. An asthma death is a death where asthma was indicated as the underlying cause on the death certificate. The rate of asthma deaths is the number of deaths per 1,000,000 residents, age-adjusted to the 2000 U.S. population.
10. An asthma ED visit is an admission to a licensed ED in California with the primary diagnosis of asthma. The rate of asthma ED visits is the number of visits per 10,000 residents, age-adjusted to the 2000 U.S. population.
11. Population denominators for rates are from the California Department of Finance. All rates are age-adjusted to the 2000 U.S. population. Age-adjusted rates are modified to eliminate the effect of different age distributions in different populations. Rates based on numbers <20 are not reported.
12. An asthma hospitalization is a discharge from a licensed acute care hospital in California with the primary diagnosis of asthma. The rate of asthma hospitalizations is the number of hospitalizations per 10,000 residents, age-adjusted to the 2000 U.S. population.
13. Charges for asthma hospitalizations are the only type of data available to assess the costs of asthma in California counties. However, there are many other costs associated with asthma, including other types of health care utilization, medications, and indirect costs due to factors such as school and work missed.
14. Healthy People 2010 (HP2010) is a set of national benchmarks for a wide range of health topics, including asthma. For more information on HP2010, visit [www.healthypeople.gov](http://www.healthypeople.gov) ([www.healthypeople.gov](http://www.healthypeople.gov)).
15. Outdoor air quality data—including exposures such as PM2.5, PM10, ozone, and traffic pollution—can be found online through the California Environmental Health Tracking Program's Air Quality Data Query ([http://www.ehib.org/page.jsp?page\\_key=80](http://www.ehib.org/page.jsp?page_key=80)) or on the California Air Resources Board (<http://www.arb.ca.gov/aqd/aqdpag.htm>) website.

Further details about the data presented in this report can be found in the accompanying Technical Notes document.

## AIR QUALITY MAP

- Plots markers based on the composite AQI calculated with the US EPA standard.



(<https://maps.google.com/maps?ll=37.953128,-122.374923&z=6&t=m&hl=en-US&gl=US&mapclient=apiv3>)

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## Asthma Data

The Asthma in California Report  
(/asthma-data/cal-asthma-report)

County Asthma Profiles  
(/asthma-data/county-asthma-profiles)

County Comparisons  
(/asthma-data/county-comparisons)

Custom Data Request  
(/asthma-data/datarequest)

Fact Sheets  
(/asthma-data/factsheets)

## Projects

California Asthma Quality Improvement Initiative

## Resources

Publications  
(/resources/publications)

Childcare Training Video  
(/resources/childcare-training-video)

## Collaborations

CAP  
(/collaborations/cap)

SEHAC (Schools)  
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CHHC (Housing)  
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