

modified on: Thursday, 01 September 2016

In Imperial County, approximately 23,000 children and adults have been diagnosed with asthma.

[Scroll down](#) to browse the full County Profile. Or, [download a printer-friendly PDF](#).

- [Lifetime Asthma Prevalence](#)
- [Active Asthma Prevalence](#)
- [Work-Related Asthma](#)
- [Asthma Management Plans](#)
- [Asthma Risk Factors](#)
- [Emergency Department Visits](#)
- [Asthma Hospitalizations](#)
- [Asthma Deaths](#)
- [Outdoor Air Quality¹⁵](#)
- [Notes](#)

County Population			County Population	
Age	Population	%	Race/Ethnicity ¹	%
0-4	15,369	8.2	Asian/PI	0.9
5-17	37,095	19.9	Black	3.2
18-64	112,755	60.4	Hispanic	80.7
65+	21,524	11.5	White	13.7
Total	186,744		Other	1.5

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

Percent with Lifetime Asthma (95% Confidence Interval)

	Age	Imperial County	California
Children	0-4	--	9.7 (7.2-12.3)
	5-17	--	17.1 (15.5-18.7)
Adults	18-64	13.7 (7.2-20.3)	14.0 (13.4 - 14.7)
	65+	--	12.0 (11.1-12.8)
Totals:	0-17	--	15.4 (14.0-16.7)
	18+	13.6 (7.8-19.4)	13.7 (13.1-14.3)
	All Ages	14.0 (9.0-18.9)	14.1 (13.6-14.6)

datasource: California Health Interview Survey (CHIS), 2014

Percent with Active Asthma (95% Confidence Interval)

	Age	Imperial County	California
Children	0-4	--	6.3 (4.6-8.0)
	5-17	10.2* (0.7-19.7)	11.6 (10.2-13.0)
Adults	18-64	9.3* (2.2-16.4)	7.6 (7.1-8.1)
	65+	7.6* (0.3-14.9)	8.2 (7.5-8.9)
Totals:	0-17	6.7* (0.3-13.2)	10.1 (9.0-11.3)
	18+	9.0* (3.0-15.1)	7.7 (7.3-8.2)
	All Ages	8.6 (5.3-11.8)	8.3 (7.9-8.7)

datasource: California Health Interview Survey (CHIS), 2014

Studies show that asthma is commonly caused or triggered by workplace exposures, but [work-related asthma](#) is under-recognized and under-diagnosed. Research confirms that 15-30% of current adult asthma was initiated by work exposures, meaning that **an estimated 1,800-3,600 adults in Imperial County have asthma caused by work.**⁶

datasource: CHIS, 2014

National guidelines recommend that health care providers give all patients with asthma a written self-management plan. **In Imperial County, 77.3% (95% CI 64.5-90.1) of people with asthma have NOT received a written asthma management plan from a health care provider.**

datasource: CHIS, 2014

Imperial County Risk Factors

Risk Factor	Percent (95% Confidence Interval)
Percent of adults who are current smokers	12.6 (5.6-19.6)
Percent of adults and children exposed to second-hand smoke in the home	3.8 (1.3-6.4)
Percent of adults who are obese ⁷ (BMI>=30)	41.7 (32.2-51.2)
Percent of people below the Federal Poverty Level	22.4 (NA)
Unemployment Rate	28.2 (NA)

datasource: CHIS, 2011-2012

Number of Deaths Due to Asthma (N) and Age-Adjusted Rate⁸ (per 1,000,000 residents)

	Age	Imperial County		California	
		N	Rate	N	Rate
Children	0-17	0	--	57	1.9
Adults	18+	3	--	1,198	14.3
Totals	All Ages	3	--	1,255	11.1

datasource: California Death Statistical Master Files, 2008-2010

Number of ED Visits Due to Asthma (N) and Age-Adjusted Rate¹¹ (per 10,000 residents)

	Age	Imperial County		California	
		N	Rate	N	Rate
Children	0-4	171	113.3	26,268	103.4
	5-17	600	162.9	47,613	72.4
Adults	18-64	592	52.4	95,689	39.2
	65+	152	72.3	17,374	36.1
Totals:	0-17	771	149.6	73,881	80.7
	18+	744	55.8	113,063	38.6

Number of Hospitalizations Due to Asthma (N) and Age-Adjusted Rate¹¹ (per 10,000 residents)

	Age	Imperial County		California	
		N	Rate	N	Rate
Children	0-4	34	22.2	4,994	19.6
	5-17	59	16.1	5,037	7.7
Adults	18-64	45	4.1	12,134	4.7
	65+	28	13.2	7,208	15.2
Totals:	0-17	93	17.8	10,031	10.9
	18+	73	5.7	19,342	6.5

Age	Imperial County	California
All Ages	1,515	186,944
	79.9	49.5

Rate

Expected Source of Payment for Asthma ED Visits

Payment Source	Imperial County	California
Medicare	11.55%	13.29%
Medi-Cal	43.50%	48.56%
Private	38.48%	26.32%
Other	6.47%	11.84%

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

Age	Imperial County	California
All Ages	166	29,373
	8.8	7.6

Rate

Average Charges Per Asthma Hospitalization

Age	Imperial County	California
Children	0-17	\$19,060.77
Adults	18+	\$35,955.01
Total	All Ages	\$26,535.19

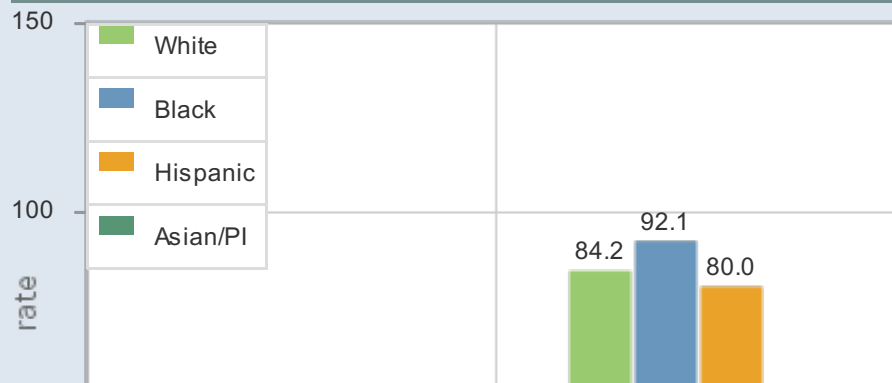
datasource: Office of Statewide Health Planning and Development (OSHPD), 2014

Expected Source of Payment for Asthma Hospitalizations

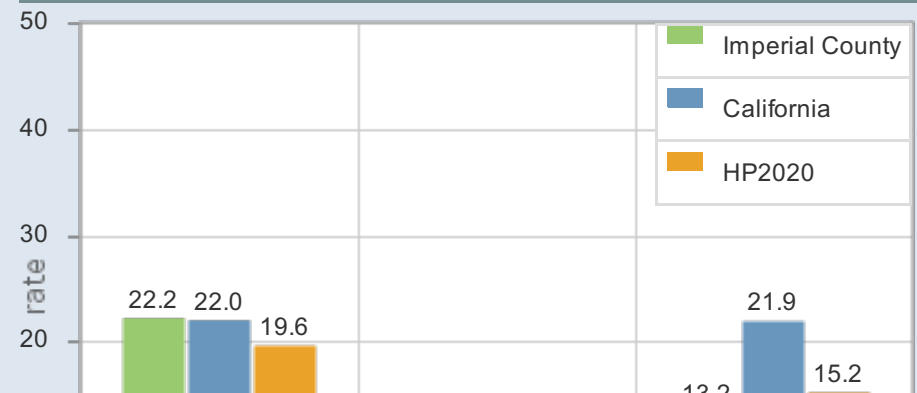
Payment Source	Imperial County	California
Medicare	19.88%	28.24%
Medi-Cal	57.83%	46.46%
Private	18.67%	20.34%
Other	3.61%	4.96%

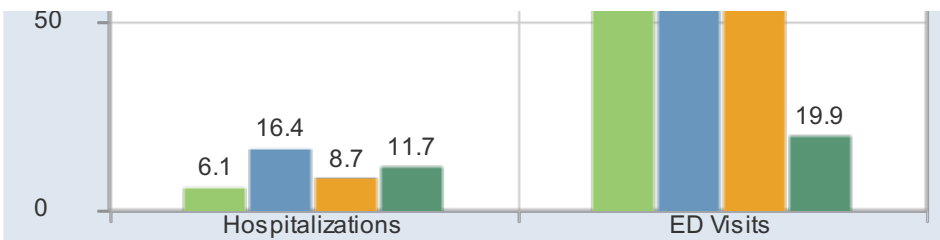
datasource: Office of Statewide Health Planning and Development (OSHPD), 2014

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

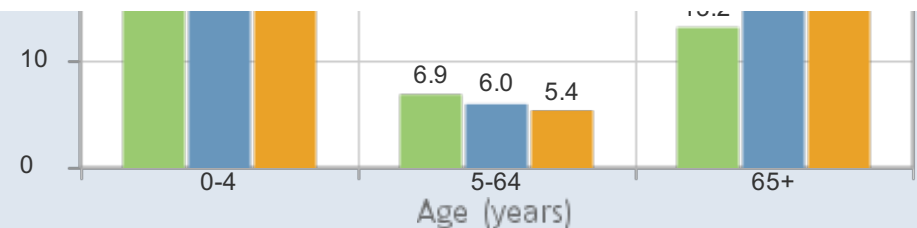


Asthma Hospitalizations per 10,000 Residents by Age, Compared to HP2020 Targets, California and Imperial County, 2014



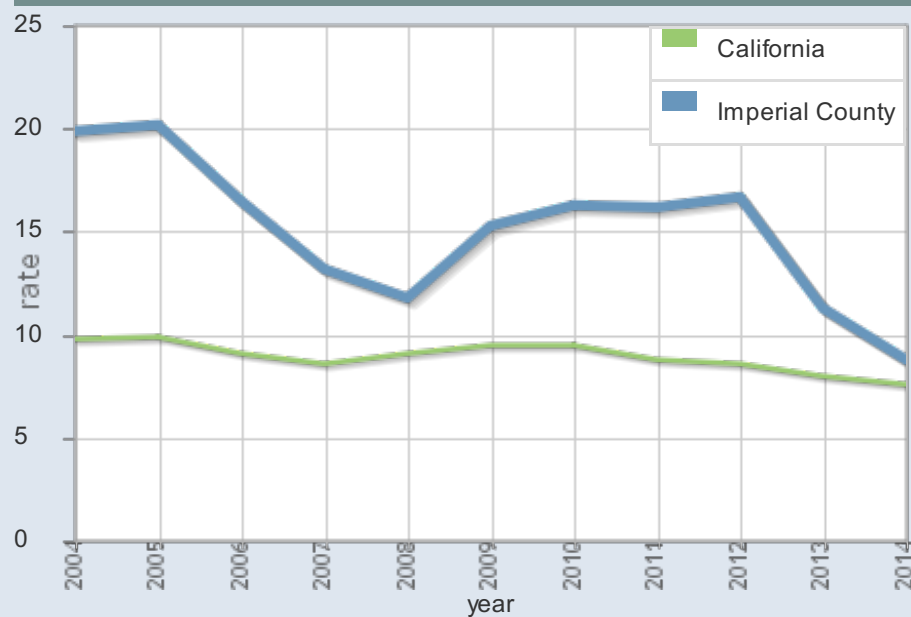


Data Source: datasource: Office of Statewide Health Planning and Development (OSHPD), 2014



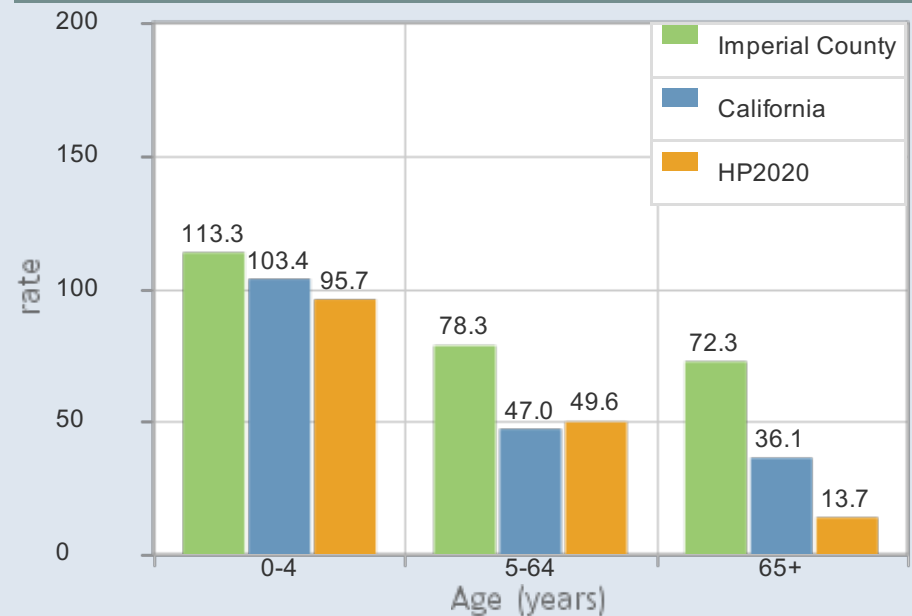
Data Source: datasource: Office of Statewide Health Planning and Development (OSHPD), 2014 .

Age-Adjusted Asthma Hospitalizations per 10,000 Residents, Imperial County and California, 2004-2014



Data Source: datasource: 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 Imperial County, 2014



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

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

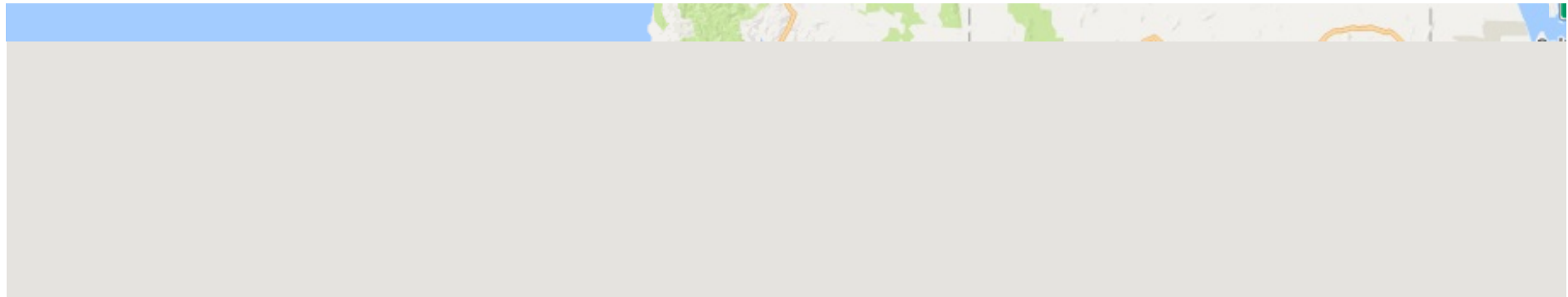
1. PI = Pacific Islander; Please see technical notes for more information on race/ethnicity categorizations.
2. Lifetime asthma prevalence is the proportion of people in the population who have ever been diagnosed with asthma by a health provider.
3. The 95% confidence interval (CI) is a range that expresses a level of certainty about an estimate based on the margin of error.

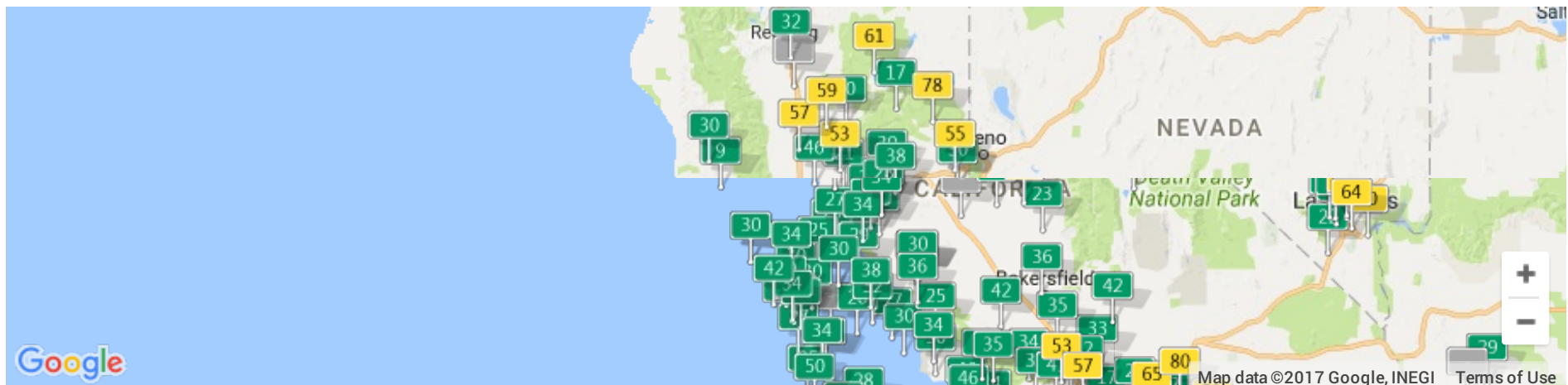
The 95% CI means that we are 95 percent confident that this range contains the true population percent. A narrow CI means that there is less variability in the estimate and/or there is a larger sample size. A wide CI indicates more variability and/or a smaller sample size.

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.
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](#) or on the [California Air Resources Board](#) website.

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

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





Asthma Data

- [The Asthma in California Report](#)
- [County Asthma Profiles](#)
- [County Comparisons](#)
- [Custom Data Request](#)
- [Fact Sheets](#)

Projects

- [California Asthma Quality Improvement Initiative](#)

Resources

- [Publications](#)
- [Childcare Training Video](#)

Collaborations

- [CAP](#)
- [SEHAC \(Schools\)](#)
- [CHHC \(Housing\)](#)

About Us

- [Contact Us](#)
- [Our Vision](#)
- [Our Team](#)

