

2008–2012 Indiana County Age-Specific Child Emergency Department and Hospitalization Rates

Overview

Why age-specific rates?

Age-specific rates are the rates of incidence of a specific age group. For the purpose of this report, age-specific rates indicate the particular rate of emergency department visits (ED) or hospitalizations in the 5 to 17 year age group for the county.

Where did the data come from?

Data on child asthma hospital discharges and ED visits were obtained from Indiana’s Hospital Discharge Data source, which includes over 95% of Indiana hospitals. These data contain de-identified health record details on patient demographics, charges, diagnoses, procedures and residence by zip code.

Who was included in the rate?

Asthma hospitalizations and ED visits were defined as a primary diagnosis asthma encounter using ICD-9-CM diagnosis code 493 (inclusive) for an Indiana child resident (ages 5-17) discharged from an Indiana hospital during the 2008 to 2012 calendar years (January 1, 2008 to December 31, 2012). Data were aggregated to increase the opportunity for reporting in counties that do not meet the reporting threshold (see below). ED rates also include patients discharged from the ED and admitted into the hospital.

Why are some rates missing?

Age-specific rates and counts were suppressed if the number of hospitalizations or ED visits for a particular county was less than 5. Rates were considered unstable if less than 20 hospitalizations or ED visits occurred in the county.

Indiana Rates, 2008–2012

| Rate Name | Description | Year | Count | Age-specific Rates |
|-------------------------------|---|-----------|--------|--------------------|
| Child Asthma ED Visits | Rate of asthma emergency department visits among children ages 5 to 17 per 10,000 Indiana children (5-17 years) | 2008-2012 | 36,943 | 63.8 |
| Child Asthma ED Visits | Rate of asthma emergency department visits among children ages 5 to 17 per 10,000 Indiana children (5-17 years) | 2012 | 7,189 | 61.7 |
| Child Asthma Hospitalizations | Rate of asthma hospitalizations among children ages 5 to 17 per 10,000 Indiana children (5-17 years) | 2008-2012 | 5,437 | 9.4 |
| Child Asthma Hospitalizations | Rate of asthma hospitalizations among children ages 5 to 17 per 10,000 Indiana children (5-17 years) | 2012 | 1,113 | 9.5 |

For more information on asthma in Indiana

Visit the Indiana State Department of Health’s Asthma [Data and Reports](http://www.in.gov/isdh/17279.htm) website at <http://www.in.gov/isdh/17279.htm>. For more health-related data, visit [Indiana INdicators](http://indianaindicators.org/) at <http://indianaindicators.org/>.



Chronic Respiratory Disease Program



Child Asthma Emergency Department Visits by County, Indiana, 2008–2012

| County | Count | Age-specific Rates** |
|-------------|-------|----------------------|
| ADAMS | 84 | 23.3 |
| ALLEN | 2,112 | 62.3 |
| BARTHOLOMEW | 208 | 30.3 |
| BENTON | 40 | 49.5 |
| BLACKFORD | 72 | 68.5 |
| BOONE | 227 | 39.9 |
| BROWN | 15 | * |
| CARROLL | 55 | 30.9 |
| CASS | 158 | 44.4 |
| CLARK | 490 | 53.2 |
| CLAY | 107 | 45.7 |
| CLINTON | 172 | 54.9 |
| CRAWFORD | 30 | 33.6 |
| DAVISS | 95 | 30.6 |
| DEARBORN | 141 | 31.1 |
| DECATUR | 133 | 56.5 |
| DEKALB | 124 | 31.0 |
| DELAWARE | 628 | 67.2 |
| DUBOIS | 83 | 21.9 |
| ELKHART | 1,056 | 53.4 |
| FAYETTE | 114 | 55.3 |
| FLOYD | 338 | 52.1 |
| FOUNTAIN | 145 | 97.1 |
| FRANKLIN | 37 | 17.0 |
| FULTON | 80 | 44.2 |
| GIBSON | 179 | 62.7 |
| GRANT | 634 | 110.9 |
| GREENE | 82 | 29.3 |
| HAMILTON | 1,078 | 36.2 |
| HANCOCK | 357 | 54.7 |
| HARRISON | 123 | 37.6 |
| HENDRICKS | 487 | 34.6 |
| HENRY | 276 | 69.3 |
| HOWARD | 605 | 85.6 |
| HUNTINGTON | 167 | 52.1 |
| JACKSON | 242 | 64.7 |
| JASPER | 86 | 27.7 |
| JAY | 87 | 43.3 |
| JEFFERSON | 79 | 29.0 |
| JENNINGS | 103 | 38.8 |
| JOHNSON | 645 | 48.6 |
| KNOX | 172 | 55.3 |
| KOSCIUSKO | 289 | 40.8 |
| LAGRANGE | 133 | 30.8 |
| LAKE | 4,095 | 88.8 |
| LAPORTE | 686 | 75.0 |
| LAWRENCE | 176 | 45.2 |
| MADISON | 991 | 91.2 |
| MARION | 9,182 | 115.7 |



Child Asthma Emergency Department Visits by County, Indiana, 2008–2012 (cont.)

| County | Count | Age-specific Rates** |
|-------------|-------|----------------------|
| MARSHALL | 157 | 34.9 |
| MARTIN | 23 | 26.7 |
| MIAMI | 218 | 72.7 |
| MONROE | 185 | 18.8 |
| MONTGOMERY | 210 | 63.5 |
| MORGAN | 480 | 75.8 |
| NEWTON | 19 | * |
| NOBLE | 146 | 32.0 |
| OHIO | 18 | * |
| ORANGE | 87 | 49.3 |
| OWEN | 71 | 38.7 |
| PARKE | 67 | 51.1 |
| PERRY | 154 | 107.3 |
| PIKE | 20 | 19.7 |
| PORTER | 737 | 50.2 |
| POSEY | 49 | 21.9 |
| PULASKI | 54 | 46.3 |
| PUTNAM | 133 | 43.1 |
| RANDOLPH | 166 | 72.7 |
| RIPLEY | 107 | 40.3 |
| RUSH | 151 | 96.4 |
| ST. JOSEPH | 1,257 | 51.8 |
| SCOTT | 157 | 76.0 |
| SHELBY | 300 | 76.7 |
| SPENCER | 60 | 33.8 |
| STARKE | 170 | 83.6 |
| STEBEN | 115 | 39.3 |
| SULLIVAN | 77 | 46.1 |
| SWITZERLAND | 20 | 22.6 |
| TIPPECANOE | 791 | 56.3 |
| TIPTON | 75 | 55.1 |
| UNION | ¥ | * |
| VANDEBURGH | 1,058 | 74.0 |
| VERMILLION | 84 | 61.5 |
| VIGO | 574 | 65.9 |
| WABASH | 82 | 30.2 |
| WARREN | 41 | 57.0 |
| WARRICK | 253 | 46.2 |
| WASHINGTON | 43 | 17.0 |
| WAYNE | 435 | 77.5 |
| WELLS | 107 | 44.1 |
| WHITE | 142 | 67.6 |
| WHITLEY | 115 | 39.3 |

¥ Counts are suppressed if they are less than 5.

* Rates are considered unstable, and thus not reported, if counts are less than 20.

** Age-specific rates are per 10,000 Indiana children (5-17 years).



Child Asthma Hospitalizations by County, Indiana, 2008–2012

| County | Count | Age-specific Rates** |
|-------------|-------|----------------------|
| ADAMS | 13 | * |
| ALLEN | 180 | 5.3 |
| BARTHOLOMEW | 42 | 6.1 |
| BENTON | ¥ | * |
| BLACKFORD | 11 | * |
| BOONE | 43 | 7.6 |
| BROWN | ¥ | * |
| CARROLL | ¥ | * |
| CASS | 10 | * |
| CLARK | 45 | 4.9 |
| CLAY | 15 | * |
| CLINTON | 14 | * |
| CRAWFORD | ¥ | * |
| DAVISS | 7 | * |
| DEARBORN | 7 | * |
| DECATUR | 17 | * |
| DEKALB | 25 | 6.3 |
| DELAWARE | 69 | 7.4 |
| DUBOIS | 24 | 6.3 |
| ELKHART | 142 | 7.2 |
| FAYETTE | 10 | * |
| FLOYD | 53 | 8.2 |
| FOUNTAIN | ¥ | * |
| FRANKLIN | ¥ | * |
| FULTON | 11 | * |
| GIBSON | 20 | 7.0 |
| GRANT | 58 | 10.1 |
| GREENE | 12 | * |
| HAMILTON | 134 | 4.5 |
| HANCOCK | 55 | 8.4 |
| HARRISON | 9 | * |
| HENDRICKS | 109 | 7.7 |
| HENRY | 33 | 8.3 |
| HOWARD | 68 | 9.6 |
| HUNTINGTON | 37 | 11.5 |
| JACKSON | 11 | * |
| JASPER | 18 | * |
| JAY | 8 | * |
| JEFFERSON | 10 | * |
| JENNINGS | 10 | * |
| JOHNSON | 106 | 8.0 |
| KNOX | 17 | * |
| KOSCIUSKO | 50 | 7.1 |
| LAGRANGE | ¥ | * |
| LAKE | 494 | 10.7 |
| LAPORTE | 108 | 11.8 |
| LAWRENCE | 19 | * |
| MADISON | 109 | 10.0 |
| MARION | 2,003 | 25.2 |
| MARSHALL | 26 | 5.8 |



Child Asthma Hospitalizations by County, Indiana, 2008–2012 (cont.)

| County | Count | Age-specific Rates** |
|-------------|-------|----------------------|
| MARTIN | 7 | * |
| MIAMI | 14 | * |
| MONROE | 27 | 2.7 |
| MONTGOMERY | 16 | * |
| MORGAN | 46 | 7.3 |
| NEWTON | ¥ | * |
| NOBLE | 21 | 4.6 |
| OHIO | ¥ | * |
| ORANGE | 5 | * |
| OWEN | 11 | * |
| PARKE | 11 | * |
| PERRY | 7 | * |
| PIKE | ¥ | * |
| PORTER | 104 | 7.1 |
| POSEY | 9 | * |
| PULASKI | 6 | * |
| PUTNAM | 16 | * |
| RANDOLPH | 20 | 8.8 |
| RIPLEY | 14 | * |
| RUSH | 8 | * |
| ST. JOSEPH | 259 | 10.7 |
| SCOTT | 5 | * |
| SHELBY | 49 | 12.5 |
| SPENCER | 6 | * |
| STARKE | 18 | * |
| STEUBEN | 12 | * |
| SULLIVAN | 6 | * |
| SWITZERLAND | ¥ | * |
| TIPPECANOE | 50 | 3.6 |
| TIPTON | 8 | * |
| UNION | ¥ | * |
| VANDEBURGH | 107 | 7.5 |
| VERMILLION | 9 | * |
| VIGO | 84 | 9.6 |
| WABASH | 18 | * |
| WARREN | ¥ | * |
| WARRICK | 28 | 5.1 |
| WASHINGTON | 8 | * |
| WAYNE | 78 | 13.9 |
| WELLS | 19 | * |
| WHITE | 14 | * |
| WHITLEY | 16 | * |

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**Age-specific rates are per 10,000 Indiana children (5-17 years).



Child Asthma Emergency Department Visits by Rate, Indiana, 2008–2012

| County | Count | Age-specific Rates** |
|---------------|--------------|-----------------------------|
| MARION | 9,182 | 115.7 |
| GRANT | 634 | 110.9 |
| PERRY | 154 | 107.3 |
| FOUNTAIN | 145 | 97.1 |
| RUSH | 151 | 96.4 |
| MADISON | 991 | 91.2 |
| LAKE | 4,095 | 88.8 |
| HOWARD | 605 | 85.6 |
| STARKE | 170 | 83.6 |
| WAYNE | 435 | 77.5 |
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| FAYETTE | 114 | 55.3 |
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| PULASKI | 54 | 46.3 |
| WARRICK | 253 | 46.2 |
| SULLIVAN | 77 | 46.1 |
| CLAY | 107 | 45.7 |
| LAWRENCE | 176 | 45.2 |



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| County | Count | Age-specific Rates** |
|---------------|--------------|-----------------------------|
| CASS | 158 | 44.4 |
| FULTON | 80 | 44.2 |
| WELLS | 107 | 44.1 |
| JAY | 87 | 43.3 |
| PUTNAM | 133 | 43.1 |
| KOSCIUSKO | 289 | 40.8 |
| RIPLEY | 107 | 40.3 |
| BOONE | 227 | 39.9 |
| WHITLEY | 115 | 39.3 |
| STEUBEN | 115 | 39.3 |
| JENNINGS | 103 | 38.8 |
| OWEN | 71 | 38.7 |
| HARRISON | 123 | 37.6 |
| HAMILTON | 1,078 | 36.2 |
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| GREENE | 82 | 29.3 |
| JEFFERSON | 79 | 29.0 |
| JASPER | 86 | 27.7 |
| MARTIN | 23 | 26.7 |
| ADAMS | 84 | 23.3 |
| SWITZERLAND | 20 | 22.6 |
| POSEY | 49 | 21.9 |
| DUBOIS | 83 | 21.9 |
| PIKE | 20 | 19.7 |
| MONROE | 185 | 18.8 |
| WASHINGTON | 43 | 17.0 |
| FRANKLIN | 37 | 17.0 |
| NEWTON | 19 | * |
| OHIO | 18 | * |
| BROWN | 15 | * |
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| HUNTINGTON | 37 | 11.5 |
| LAKE | 494 | 10.7 |
| ST. JOSEPH | 259 | 10.7 |
| GRANT | 58 | 10.1 |
| MADISON | 109 | 10.0 |
| VIGO | 84 | 9.6 |
| HOWARD | 68 | 9.6 |
| RANDOLPH | 20 | 8.8 |
| HANCOCK | 55 | 8.4 |
| HENRY | 33 | 8.3 |
| FLOYD | 53 | 8.2 |
| JOHNSON | 106 | 8.0 |
| HENDRICKS | 109 | 7.7 |
| BOONE | 43 | 7.6 |
| VANDEBURGH | 107 | 7.5 |
| DELAWARE | 69 | 7.4 |
| MORGAN | 46 | 7.3 |
| ELKHART | 142 | 7.2 |
| PORTER | 104 | 7.1 |
| KOSCIUSKO | 50 | 7.1 |
| GIBSON | 20 | 7.0 |
| DUBOIS | 24 | 6.3 |
| DEKALB | 25 | 6.3 |
| BARTHOLOMEW | 42 | 6.1 |
| MARSHALL | 26 | 5.8 |
| ALLEN | 180 | 5.3 |
| WARRICK | 28 | 5.1 |
| CLARK | 45 | 4.9 |
| NOBLE | 21 | 4.6 |
| HAMILTON | 134 | 4.5 |
| TIPPECANOE | 50 | 3.6 |
| MONROE | 27 | 2.7 |
| LAWRENCE | 19 | * |
| WELLS | 19 | * |
| JASPER | 18 | * |
| STARKE | 18 | * |
| WABASH | 18 | * |
| DECATUR | 17 | * |
| KNOX | 17 | * |
| MONTGOMERY | 16 | * |
| PUTNAM | 16 | * |
| WHITLEY | 16 | * |
| CLAY | 15 | * |
| CLINTON | 14 | * |
| MIAMI | 14 | * |
| RIPLEY | 14 | * |



Child Asthma Hospitalizations by Rate, Indiana, 2008–2012 (cont.)

| County | Count | Age-specific Rates** |
|-------------|-------|----------------------|
| WHITE | 14 | * |
| ADAMS | 13 | * |
| GREENE | 12 | * |
| STEBEN | 12 | * |
| BLACKFORD | 11 | * |
| FULTON | 11 | * |
| JACKSON | 11 | * |
| OWEN | 11 | * |
| PARKE | 11 | * |
| CASS | 10 | * |
| FAYETTE | 10 | * |
| JEFFERSON | 10 | * |
| JENNINGS | 10 | * |
| HARRISON | 9 | * |
| POSEY | 9 | * |
| VERMILLION | 9 | * |
| JAY | 8 | * |
| RUSH | 8 | * |
| TIPTON | 8 | * |
| WASHINGTON | 8 | * |
| DAVISS | 7 | * |
| DEARBORN | 7 | * |
| MARTIN | 7 | * |
| PERRY | 7 | * |
| PULASKI | 6 | * |
| SPENCER | 6 | * |
| SULLIVAN | 6 | * |
| ORANGE | 5 | * |
| SCOTT | 5 | * |
| BENTON | ¥ | * |
| BROWN | ¥ | * |
| CARROLL | ¥ | * |
| CRAWFORD | ¥ | * |
| FOUNTAIN | ¥ | * |
| FRANKLIN | ¥ | * |
| LAGRANGE | ¥ | * |
| NEWTON | ¥ | * |
| OHIO | ¥ | * |
| PIKE | ¥ | * |
| SWITZERLAND | ¥ | * |
| UNION | ¥ | * |
| WARREN | ¥ | * |

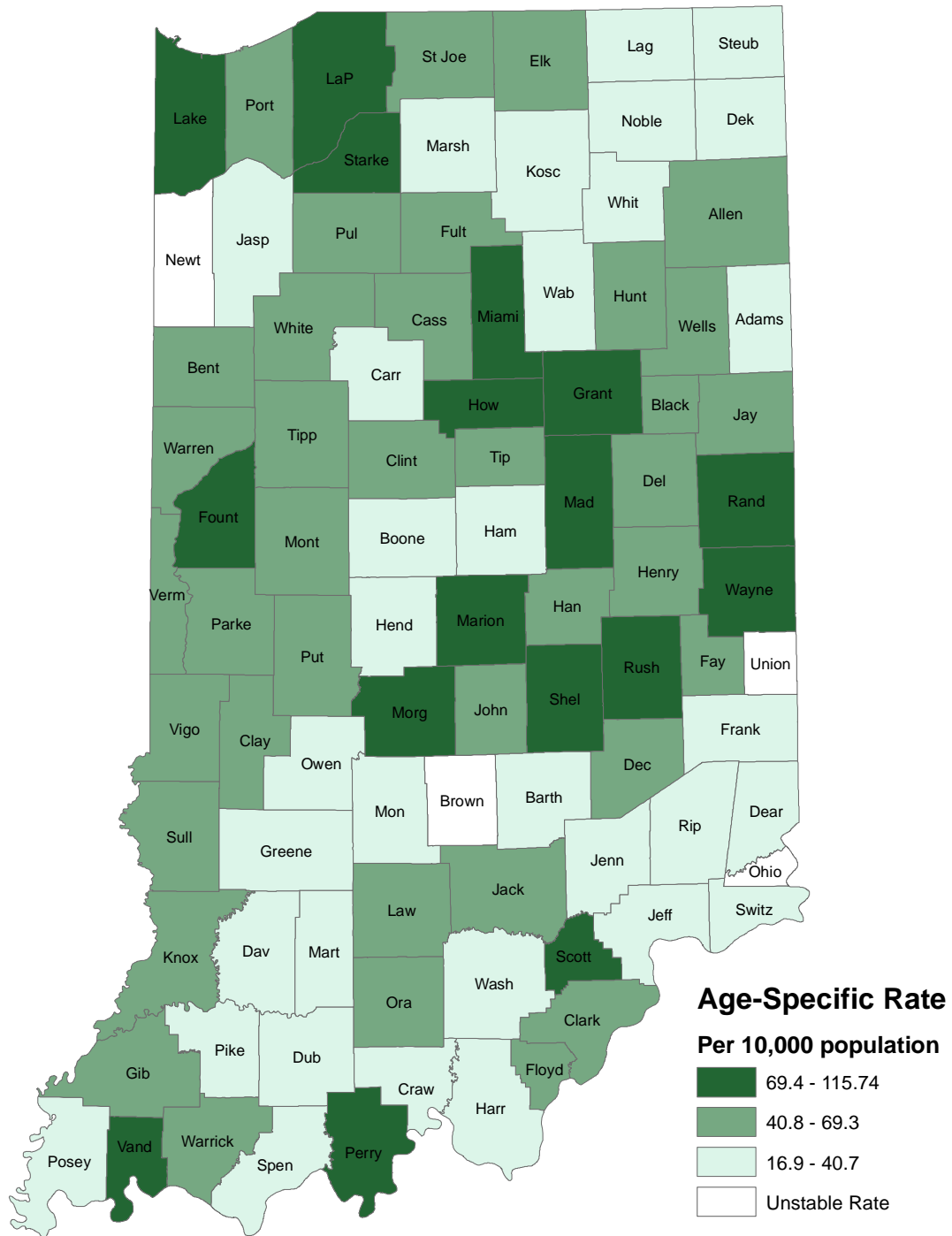
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** Age-specific rates are per 10,000 Indiana children (5-17 years).



Child Asthma Emergency Department Visits, Indiana, Children 5–17 years, 2008–2012





Child Asthma Hospitalizations, Indiana, Children 5–17 years, 2008–2012

