2015 Indiana County Age-Adjusted Emergency Department and Hospitalization Rates

Overview

Why age-adjusted rates?

Age-adjusted rates enable comparisons between groups with different age distributions. Rates were calculated using the U.S. 2000 standard population to remove the impact of different age distributions between populations.

Where does the data come from?

Data on asthma hospital discharges and emergency department (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) and ICD-10-CM diagnosis code J45 for an Indiana resident (all ages) discharged from an Indiana hospital/emergency department during the 2015 calendar year (January 1, 2015 to December 31, 2015). ED rates also include patients discharged from the ED and admitted into the hospital.

Why are some rates missing?

Age-adjusted 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 fewer than 20 hospitalizations or ED visits occurred in the county.

Indiana rates for all ages, 2015

Rate Name	Description	Year	Count	Age-adjusted Rates
Asthma ED Visits	Rate of asthma emergency department visits per 10,000 Indiana residents	2015	29,855	47.4
Asthma Hospitalization	Rate of asthma hospital admissions per 10,000 Indiana residents	2015	5,947	8.7

For more information on asthma in Indiana

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

Chronic Respiratory Disease Section

Asthma Emergency Department Visits by County, Indiana, 2015

County	Count	Age-adjusted Rate**
ADAMS	75	21.9
ALLEN	1,595	45.0
BARTHOLOMEW	317	40.5
BENTON	22	26.8
BLACKFORD	46	43.3
BOONE	147	24.4
BROWN	19	17.1
CARROLL	44	24.2
CASS	151	43.6
CLARK	283	25.6
CLAY	85	35.9
CLINTON	125	40.8
CRAWFORD	22	24.6
DAVIESS	145	47.2
DEARBORN	113	25.5
DECATUR	118	49.2
DEKALB	101	26.0
DELAWARE	455	45.0
DUBOIS	23	5.6
ELKHART	879	44.5
FAYETTE	54	27.5
FLOYD	192	27.1
FOUNTAIN	89	60.9
FRANKLIN	27	12.4
FULTON	63	35.0
GIBSON	145	47.4
GRANT	366	59.1
GREENE	75	24.8
HAMILTON	592	19.5
HANCOCK	201	29.0
HARRISON	86	23.0
HENDRICKS	232	15.3
HENRY	197	46.1
HOWARD	423	57.3
HUNTINGTON	133	40.0
JACKSON	298	67.9
JASPER	106	34.1
JAY	105	54.2
JEFFERSON	90	31.0
JENNINGS	144	55.6
JOHNSON	560	39.0
KNOX	150	43.6
KOSCIUSKO	211	28.7
LAGRANGE	103	27.4
LAKE	3,209	69.9
LAPORTE	527	52.5
LAWRENCE	216	50.5
MADISON	1,055	87.0
MARION	7,777	83.4
MARSHALL	115	25.9

Source: ISDH Epidemiology Resource Center Data Analysis Team. (2016). *Indiana Hospital Discharge Data Files, 2015.*

Asthma Emergency Department Visits by County, Indiana, 2015 (cont.)

County	Count	Age-adjusted Rate**
MARTIN	15	15.0*
MIAMI	147	45.0
MONROE	290	22.9
MONTGOMERY	178	51.3
MORGAN	265	41.6
NEWTON	36	31.1
NOBLE	150	32.8
OHIO	6	9.6*
ORANGE	99	52.8
OWEN	63	32.8
PARKE	52	32.3
PERRY	131	73.8
PIKE	18	14.4*
PORTER	695	44.0
POSEY	46	20.7
PULASKI	34	29.4
PUTNAM	85	25.1
RANDOLPH	104	47.7
RIPLEY	99	39.0
RUSH	120	83.1
ST. JOSEPH	1,317	50.6
SCOTT	112	51.9
SHELBY	204	51.6
SPENCER	45	22.5
STARKE	107	51.8
STEUBEN	130	40.7
SULLIVAN	91	46.8
SWITZERLAND	10	10.6*
TIPPECANOE	658	38.0
TIPTON	55	40.4
UNION	¥	*
VANDERBURGH	933	54.9
VERMILLION	74	48.7
VIGO	451	44.9
WABASH	82	27.4
WARREN	34	47.3
WARRICK	169	30.1
WASHINGTON	114	44.3
WAYNE	24	41.9
WELLS	77	28.0
WHITE	119	53.8
WHITLEY	109	35.1

¥Counts are suppressed if they are less than 5.

*Rates are considered unstable and should not be compared to other rates if counts are less than 20.

**Age-adjusted rates are per 10,000 Indiana residents.

Source: ISDH Epidemiology Resource Center Data Analysis Team. (2016). *Indiana Hospital Discharge Data Files, 2015.*

Asthma Hospitalizations by County, Indiana, 2015

County	Count	Age-adjusted Rate**
ADAMS	18	4.1*
ALLEN	447	11.9
BARTHOLOMEW	38	4.7
BENTON	6	6.7*
BLACKFORD	22	13.7
BOONE	17	2.8*
BROWN	¥	*
CARROLL	6	2.8*
CASS	17	4.5*
CLARK	63	5.2
CLAY	21	7.9
CLINTON	27	8.5
CRAWFORD	¥	*
DAVIESS	18	5.1*
DEARBORN	24	4.5
DECATUR	11	3.3*
DEKALB	46	11.0
DELAWARE	141	12.1
DUBOIS	10	2.2*
ELKHART	143	6.8
FAYETTE	¥	*
FLOYD	50	6.4
FOUNTAIN	14	7.7*
FRANKLIN	¥	*
FULTON	12	5.2*
GIBSON	15	4.0*
GRANT	129	17.9
GREENE	16	3.8*
HAMILTON	105	3.5
HANCOCK	29	3.8
HARRISON	11	2.6*
HENDRICKS	71	4.7
HENRY	54	11.5
HOWARD	79	9.0
HUNTINGTON	65	15.7
JACKSON	20	4.4
JASPER	28	7.3
JAY	18	7.9*
JEFFERSON	18	5.0*
JENNINGS	17	5.8*
JOHNSON	73	4.9
KNOX	9	2.3*
KOSCIUSKO	38	4.3
LAGRANGE	27	7.6
LAKE	841	15.9
LAPORTE	79	6.4
LAWRENCE	22	4.6
MADISON	167	11.6
MARION	1,321	14.1
MARSHALL	17	3.2*

Source: ISDH Epidemiology Resource Center Data Analysis Team. (2016). *Indiana Hospital Discharge Data Files, 2015.*

Asthma Hospitalizations by County, Indiana, 2015 (cont.)

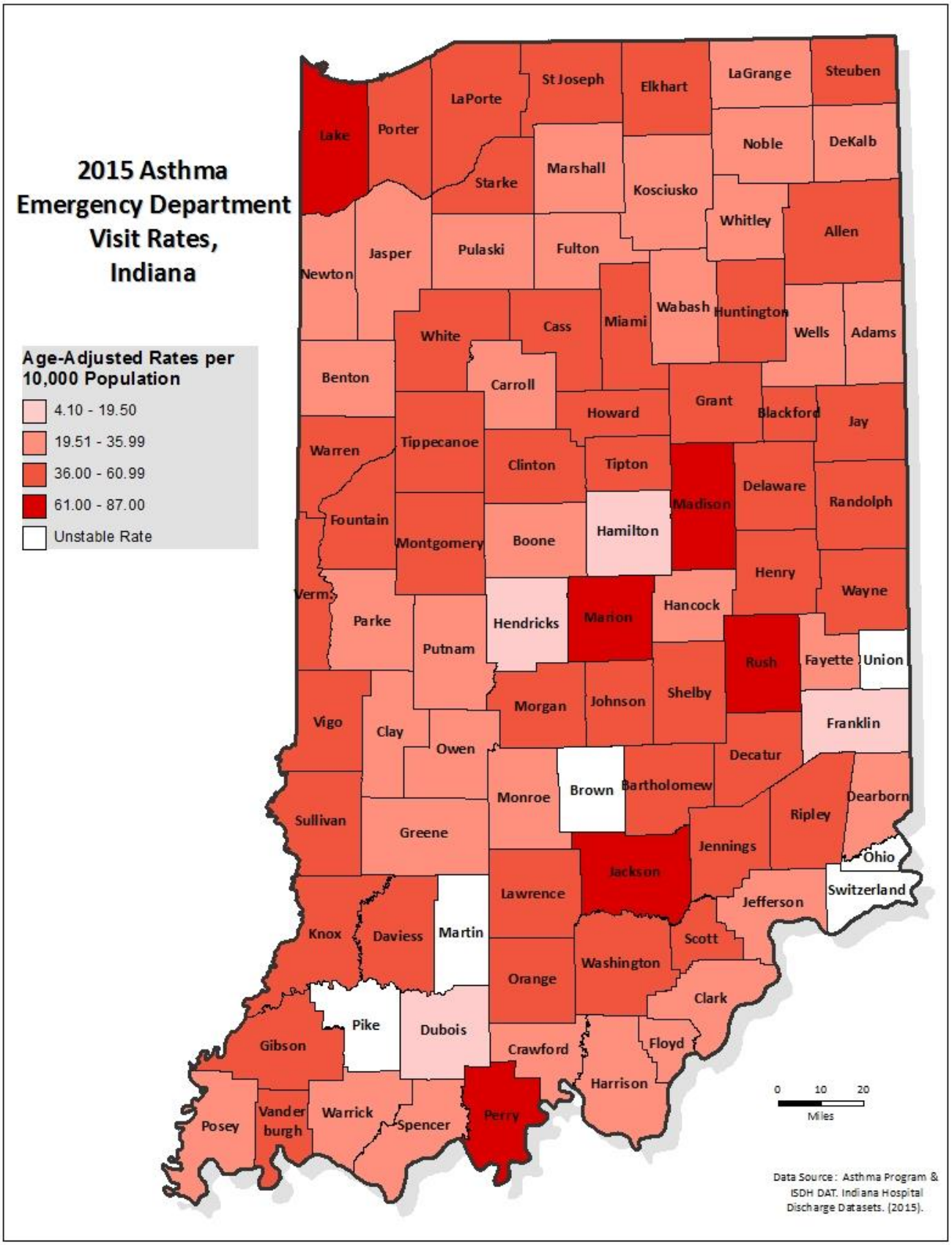
County	Count	Age-adjusted Rate**
MARTIN	¥	*
MIAMI	19	5.3*
MONROE	27	2.0
MONTGOMERY	25	5.9
MORGAN	56	7.6
NEWTON	9	7.4*
NOBLE	62	12.1
OHIO	¥	*
ORANGE	¥	*
OWEN	9	3.5*
PARKE	6	3.1*
PERRY	5	3.0*
PIKE	¥	*
PORTER	192	10.5
POSEY	35	11.9
PULASKI	¥	*
PUTNAM	16	4.5*
RANDOLPH	24	9.7
RIPLEY	19	6.3*
RUSH	6	3.6*
ST. JOSEPH	235	8.5
SCOTT	7	2.6*
SHELBY	24	4.9
SPENCER	12	5.4*
STARKE	7	2.7*
STEUBEN	37	9.8
SULLIVAN	12	5.4*
SWITZERLAND	¥	*
TIPPECANOE	92	5.9
TIPTON	9	5.3*
UNION	¥	*
VANDERBURGH	212	11.1
VERMILLION	25	13.8
VIGO	82	7.9
WABASH	17	5.4*
WARREN	7	6.5*
WARRICK	39	6.2
WASHINGTON	11	4.0*
WAYNE	48	7.0
WELLS	65	17.8
WHITE	14	4.2*
WHITLEY	39	9.7

¥Counts are suppressed if they are less than 5.

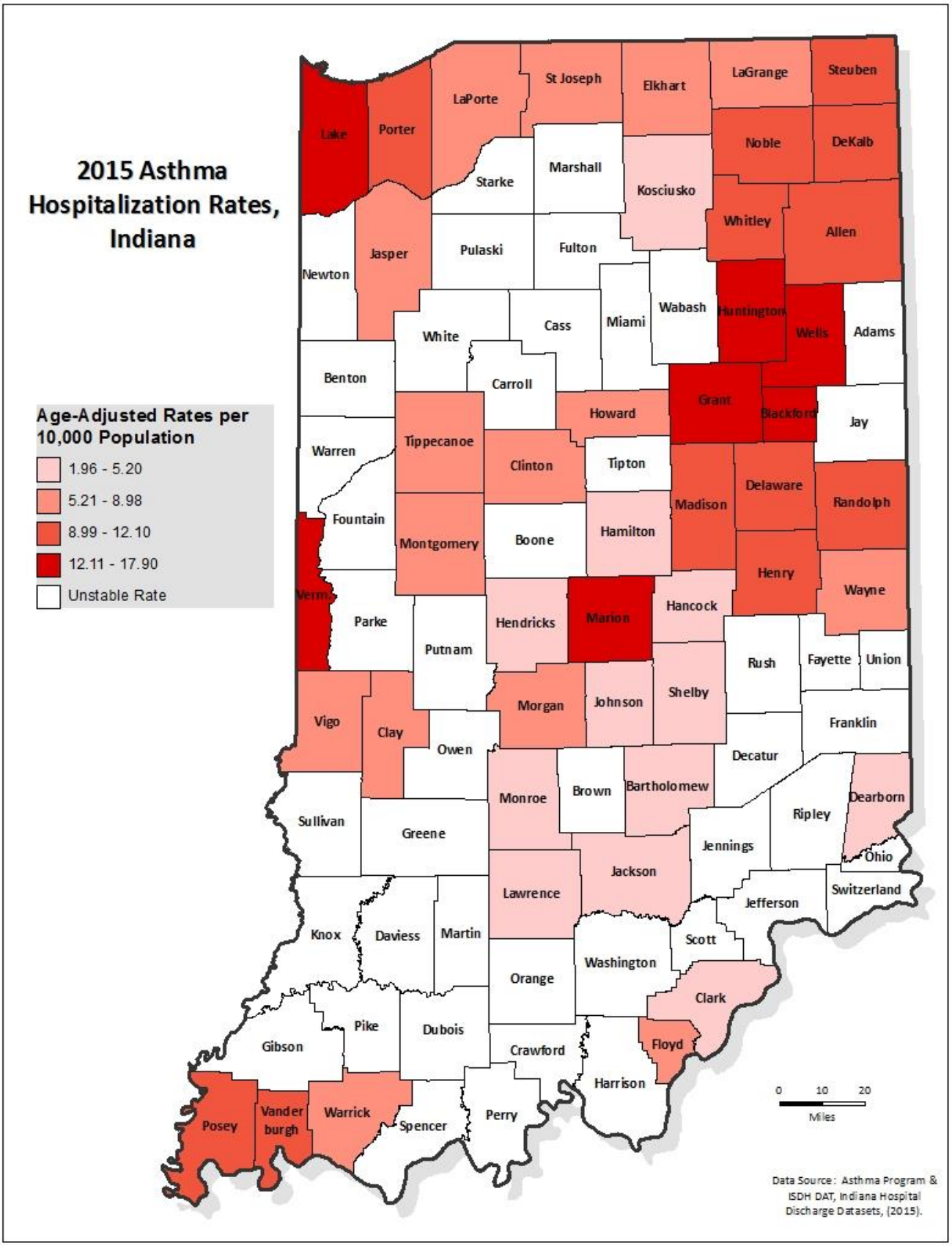
*Rates are considered unstable, and thus not reported, if counts are less than 20.

**Age-adjusted rates are per 10,000 Indiana residents.

Source: ISDH Epidemiology Resource Center Data Analysis Team. (2016). *Indiana Hospital Discharge Data Files, 2015.*



Source: ISDH Epidemiology Resource Center Data Analysis Team. (2016). *Indiana Hospital Discharge Data Files, 2015*.



Source: ISDH Epidemiology Resource Center Data Analysis Team. (2016). *Indiana Hospital Discharge Data Files, 2015*.