

2011 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 using ICD-9-CM diagnosis code 493 (inclusive) for an Indiana resident (all ages) receiving treatment at an Indiana hospital/emergency department during the 2011 calendar year (January 1, 2011 to December 31, 2011).

Why are some rates missing?

Age-adjusted rates are suppressed if the number of hospitalizations or ED visits for a particular county is less than or equal to 5. Rates are considered unstable if less than or equal to 20 hospitalizations or ED visits occurred in the county.

Indiana rates for all ages, 2011

Rate Name	Description	Count	Age-adjusted Rates
Asthma Emergency Department Visits	Rate of asthma emergency department visits per 10,000 Indiana residents	29,629	47.12
Asthma Hospitalizations	Rate of asthma hospital admissions per 10,000 Indiana residents	8,357	12.60

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 Section



Asthma Emergency Department Visits by County, Indiana, 2011

County	Count	Age-adjusted Rate**
ADAMS	123	38.30
ALLEN	1,927	54.42
BARTHOLOMEW	52	7.03
BENTON	25	30.40
BLACKFORD	73	63.17
BOONE	149	27.61
BROWN	¥	¥
CARROLL	42	23.19
CASS	114	30.93
CLARK	453	42.91
CLAY	101	40.62
CLINTON	150	47.99
CRAWFORD	27	26.81
DAVISS	74	24.12
DEARBORN	111	23.52
DECATUR	103	43.91
DEKALB	98	24.42
DELAWARE	506	47.26
DUBOIS	93	22.44
ELKHART	729	36.70
FAYETTE	88	40.11
FLOYD	247	35.24
FOUNTAIN	178	114.42
FRANKLIN	34	16.49
FULTON	79	42.18
GIBSON	129	41.82
GRANT	623	98.88
GREENE	75	24.81
HAMILTON	610	21.33
HANCOCK	181	27.04
HARRISON	97	26.76
HENDRICKS	271	18.59
HENRY	285	65.07
HOWARD	384	50.57
HUNTINGTON	177	51.16
JACKSON	164	41.20
JASPER	64	19.97
JAY	125	60.25
JEFFERSON	73	24.10
JENNINGS	77	28.61
JOHNSON	520	37.65
KNOX	166	48.55
KOSCIUSKO	251	34.41
LAGRANGE	112	29.24
LAKE	3,207	67.10
LAPORTE	506	49.16
LAWRENCE	201	48.08
MADISON	1,066	86.76
MARION	6,929	75.52
MARSHALL	156	35.13



Asthma Emergency Department Visits by County, Indiana, 2011 (cont.)

County	Count	Age-adjusted Rate**
MARTIN	28	28.27
MIAMI	185	53.88
MONROE	275	21.39
MONTGOMERY	162	45.80
MORGAN	386	60.67
NEWTON	16	*
NOBLE	158	35.59
OHIO	17	*
ORANGE	68	35.99
OWEN	77	39.37
PARKE	57	37.08
PERRY	174	95.16
PIKE	34	27.90
PORTER	489	31.13
POSEY	39	16.94
PULASKI	51	41.72
PUTNAM	120	34.88
RANDOLPH	159	66.16
RIPLEY	88	31.77
RUSH	103	64.63
ST. JOSEPH	1,047	41.09
SCOTT	74	32.53
SHELBY	191	46.51
SPENCER	61	31.67
STARKE	120	57.19
STEBEN	103	31.62
SULLIVAN	60	29.60
SWITZERLAND	10	*
TIPPECANOE	711	43.57
TIPTON	81	61.77
UNION	18	*
VANDEBURGH	952	55.45
VERMILLION	86	57.82
VIGO	431	42.24
WABASH	120	39.42
WARREN	63	80.67
WARRICK	249	43.53
WASHINGTON	18	*
WAYNE	248	39.29
WELLS	75	28.41
WHITE	109	48.85
WHITLEY	87	26.76

‡Rates and counts are suppressed if counts are less than or equal 5.

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

**Age-adjusted rates are per 10,000 population.



Asthma Hospitalizations by County, Indiana, 2011

County	Count	Age-adjusted Rate**
ADAMS	34	8.41
ALLEN	478	12.93
BARTHOLOMEW	45	5.72
BENTON	¥	¥
BLACKFORD	18	*
BOONE	42	7.57
BROWN	¥	¥
CARROLL	11	*
CASS	20	5.01
CLARK	151	12.81
CLAY	48	17.26
CLINTON	27	7.63
CRAWFORD	8	*
DAVISS	18	*
DEARBORN	49	8.76
DECATUR	23	7.57
DEKALB	35	8.32
DELAWARE	214	18.39
DUBOIS	38	8.93
ELKHART	216	10.51
FAYETTE	14	*
FLOYD	95	13.03
FOUNTAIN	16	*
FRANKLIN	6	*
FULTON	13	*
GIBSON	21	5.99
GRANT	119	16.01
GREENE	37	9.87
HAMILTON	145	5.16
HANCOCK	45	6.45
HARRISON	29	7.44
HENDRICKS	98	6.67
HENRY	63	12.83
HOWARD	94	10.41
HUNTINGTON	68	16.94
JACKSON	29	6.48
JASPER	40	10.91
JAY	27	12.33
JEFFERSON	39	11.47
JENNINGS	21	7.85
JOHNSON	95	6.69
KNOX	32	8.74
KOSCIUSKO	99	12.66
LAGRANGE	15	*
LAKE	1,143	22.18
LAPORTE	95	8.37
LAWRENCE	35	6.56
MADISON	274	19.74
MARION	1,970	21.61
MARSHALL	20	4.05



Asthma Hospitalizations by County, Indiana, 2011 (cont.)

County	Count	Age-adjusted Rate**
MARTIN	9	*
MIAMI	35	8.99
MONROE	52	4.50
MONTGOMERY	47	12.84
MORGAN	94	13.90
NEWTON	12	*
NOBLE	52	11.16
OHIO	13	*
ORANGE	¥	¥
OWEN	8	*
PARKE	16	*
PERRY	8	*
PIKE	16	*
PORTER	280	16.09
POSEY	20	7.28
PULASKI	¥	¥
PUTNAM	23	6.66
RANDOLPH	25	9.51
RIPLEY	22	7.48
RUSH	18	*
ST. JOSEPH	299	11.02
SCOTT	13	*
SHELBY	48	11.03
SPENCER	12	*
STARKE	18	*
STEBEN	25	7.34
SULLIVAN	12	*
SWITZERLAND	8	*
TIPPECANOE	154	10.37
TIPTON	17	*
UNION	¥	¥
VANDEBURGH	205	11.19
VERMILLION	20	12.01
VIGO	164	15.94
WABASH	32	9.49
WARREN	10	*
WARRICK	43	6.98
WASHINGTON	28	9.90
WAYNE	86	12.52
WELLS	72	21.00
WHITE	16	*
WHITLEY	34	8.88

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** Age-adjusted rates are per 10,000 population.

**Asthma Emergency Department Visits by Rate, Indiana, 2011**

County	Count	Age-adjusted Rate**
FOUNTAIN	178	114.42
GRANT	623	98.88
PERRY	174	95.16
MADISON	1,066	86.76
WARREN	63	80.67
MARION	6,929	75.52
LAKE	3,207	67.10
RANDOLPH	159	66.16
HENRY	285	65.07
RUSH	103	64.63
BLACKFORD	73	63.17
TIPTON	81	61.77
MORGAN	386	60.67
JAY	125	60.25
VERMILLION	86	57.82
STARKE	120	57.19
VANDEBURGH	952	55.45
ALLEN	1,927	54.42
MIAMI	185	53.88
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WABASH	120	39.42
OWEN	77	39.37
WAYNE	248	39.29
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JOHNSON	520	37.65
PARKE	57	37.08
ELKHART	729	36.70
ORANGE	68	35.99



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FLOYD	247	35.24
MARSHALL	156	35.13
PUTNAM	120	34.88
KOSCIUSKO	251	34.41
SCOTT	74	32.53
RIPLEY	88	31.77
SPENCER	61	31.67
STEBUBEN	103	31.62
PORTER	489	31.13
CASS	114	30.93
BENTON	25	30.40
SULLIVAN	60	29.60
LAGRANGE	112	29.24
JENNINGS	77	28.61
WELLS	75	28.41
MARTIN	28	28.27
PIKE	34	27.90
BOONE	149	27.61
HANCOCK	181	27.04
CRAWFORD	27	26.81
WHITLEY	87	26.76
HARRISON	97	26.76
GREENE	75	24.81
DEKALB	98	24.42
DAVISS	74	24.12
JEFFERSON	73	24.10
DEARBORN	111	23.52
CARROLL	42	23.19
DUBOIS	93	22.44
MONROE	275	21.39
HAMILTON	610	21.33
JASPER	64	19.97
HENDRICKS	271	18.59
POSEY	39	16.94
FRANKLIN	34	16.49
BARTHOLOMEW	52	7.03
NEWTON	16	*
OHIO	17	*
SWITZERLAND	10	*
UNION	18	*
WASHINGTON	18	*
BROWN	¥	¥

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GREENE	37	9.87
RANDOLPH	25	9.51
WABASH	32	9.49
MIAMI	35	8.99
DUBOIS	38	8.93
WHITLEY	34	8.88
DEARBORN	49	8.76
KNOX	32	8.74
ADAMS	34	8.41
LAPORTE	95	8.37
DEKALB	35	8.32
JENNINGS	21	7.85
CLINTON	27	7.63
DECATUR	23	7.57
BOONE	42	7.57
RIPLEY	22	7.48
HARRISON	29	7.44
STEBEN	25	7.34
WARRICK	43	6.98
JOHNSON	95	6.69
HENDRICKS	98	6.67



Asthma Hospitalizations by Rate, Indiana, 2011 (cont.)

County	Count	Age-adjusted Rate**
PUTNAM	23	6.66
LAWRENCE	35	6.56
JACKSON	29	6.48
HANCOCK	45	6.45
GIBSON	21	5.99
BARTHOLOMEW	45	5.72
HAMILTON	145	5.16
MONROE	52	4.50
BENTON	¥	¥
BROWN	¥	¥
ORANGE	¥	¥
PULASKI	¥	¥
UNION	¥	¥
VERMILLION	20	*
POSEY	20	*
CASS	20	*
MARSHALL	20	*
BLACKFORD	18	*
CARROLL	11	*
CRAWFORD	8	*
DAVISS	18	*
FAYETTE	14	*
FOUNTAIN	16	*
FRANKLIN	6	*
FULTON	13	*
LAGRANGE	15	*
MARTIN	9	*
NEWTON	12	*
OHIO	13	*
OWEN	8	*
PARKE	16	*
PERRY	8	*
PIKE	16	*
RUSH	18	*
SCOTT	13	*
SPENCER	12	*
STARKE	18	*
SULLIVAN	12	*
SWITZERLAND	8	*
TIPTON	17	*
WARREN	10	*
WHITE	16	*

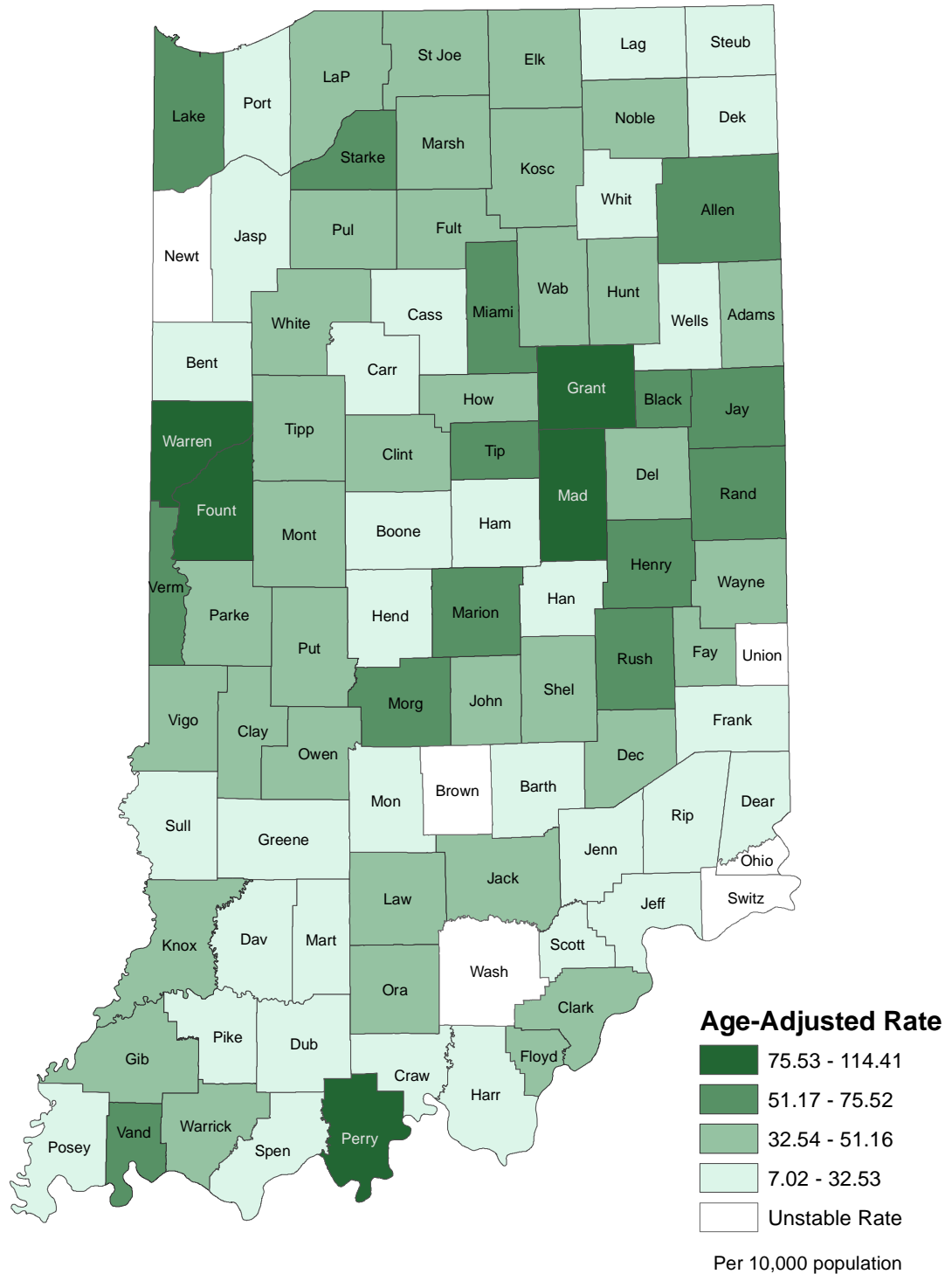
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Asthma Emergency Department Visits, Indiana, 2011





Asthma Hospitalizations, Indiana, 2011

