

# Asthma Trends: Mortality Tables 2000-2018

Updated September 2020

Table 1: Age-adjusted<sup>†</sup> asthma mortality<sup>‡</sup> rate<sup>§</sup>, Illinois vs. U.S., 2000-2018

Year	Illinois			U.S.		
	Number	Rate	95% CI	Number	Rate	95% CI
2000	247	20.2	17.7-22.7	4,487	16.1	15.6-16.6
2001	243	19.7	17.2-22.2	4,269	15.1	14.6-15.5
2002	248	20.0	17.5-22.5	4,261	14.9	14.4-15.3
2003	210	16.8	14.5-19.1	4,099	14.1	13.6-14.5
2004	179	14.4	12.3-16.5	3,816	12.9	12.5-13.3
2005	209	16.4	14.1-18.6	3,884	12.9	12.5-13.3
2006	169	13.1	11.1-15.1	3,613	11.8	11.4-12.2
2007	149	11.5	9.7-13.4	3,447	11.1	10.7-11.5
2008	186	14.3	12.2-16.3	3,397	10.8	10.4-11.1
2009	173	13.3	11.3-15.3	3,388	10.6	10.2-10.9
2010	183	13.9	11.8-15.9	3,404	10.5	10.1-10.8
2011	176	13.3	11.3-15.3	3,345	10.1	9.8-10.5
2012	174	12.7	10.7-14.6	3,534	10.4	10.1-10.8
2013	192	14.0	12.0-16.0	3,630	10.7	10.3-11.0
2014	167	13.0	10.4-14.1	3,651	10.6	10.3-11.0
2015	157	11.6	9.7-13.4	3,615	10.3	10.0-10.7
2016	149	10.5	8.8-12.3	3,518	10.3	10.2-10.5
2017	149	11.6	9.8-13.5	3,564	10.9	10.6-11.3
2018	137	10.8	9.0-12.6	3,441	10.5	10.2-10.9

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 2a: Female Age-adjusted<sup>†</sup> asthma mortality<sup>‡</sup> rate<sup>§</sup>, Illinois vs. U.S., 2000-2018

Year	Females in Illinois			Females in U.S.		
	Number	Rate	95% CI	Number	Rate	95% CI
2000	144	21.5	17.9-25.0	2,855	18.2	17.5-18.8
2001	132	19.3	16.0-22.6	2,790	17.5	16.9-18.2
2002	154	22.3	18.7-25.8	2,681	16.6	16.0-17.3
2003	136	19.4	16.1-22.6	2,606	15.9	15.3-16.6
2004	108	15.8	12.8-18.8	2,430	14.6	14.0-15.2
2005	130	17.8	14.7-20.8	2,569	15.2	14.6-15.7
2006	90	12.5	10.0-15.4	2,317	13.5	13.0-14.1
2007	90	12.3	9.9-15.2	2,173	12.5	11.9-13.0
2008	102	13.9	11.2-16.7	2,211	12.5	12.0-13.0
2009	97	13.6	11.0-16.6	2,168	12.2	11.6-12.7
2010	109	15.0	12.1-17.9	2,121	11.7	11.2-12.2
2011	91	12.4	9.9-15.3	2,083	11.3	10.8-11.8
2012	99	13.0	10.5-15.9	2,174	11.6	11.1-12.1
2013	112	14.5	11.7-17.2	2,220	11.7	11.2-12.2
2014	107	14.2	11.4-16.9	2,259	11.9	11.4-12.4
2015	93	12.3	9.9-15.5	2,227	11.5	11.0-12.0
2016	82	10.6	8.3-13.2	2,162	11.2	10.7-11.7
2017	79	12.1	9.6-15.1	2,180	13.2	12.6-13.7
2018	77	11.9	9.4-14.9	2,078	12.5	12.0-13.1

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 2b: Male Age-adjusted<sup>†</sup> asthma mortality<sup>‡</sup> rate<sup>§</sup>, Illinois vs. U.S., 2000-2018

Year	Males in Illinois			Males in U.S.		
	Number	Rate	95% CI	Number	Rate	95% CI
2000	103	18.0	14.4-21.5	1,632	13.3	12.6-13.9
2001	111	19.7	16.0-23.5	1,479	11.9	11.2-12.5
2002	94	16.2	13.0-19.8	1,580	12.4	11.8-13.0
2003	74	12.8	10.0-16.2	1,493	11.5	10.9-12.1
2004	71	12.4	9.7-15.7	1,386	10.6	10.0-11.1
2005	79	13.6	10.7-17.0	1,315	9.8	9.3-10.4
2006	79	13.6	10.7-17.1	1,296	9.5	9.0-10.0
2007	59	9.7	7.3-12.5	1,274	9.1	8.5-9.6
2008	84	14.4	11.5-17.9	1,186	8.4	7.9-8.9
2009	76	12.9	10.1-16.2	1,220	8.4	8.0-8.9
2010	74	12.1	9.5-15.3	1,283	8.8	8.3-9.2
2011	85	13.9	11.0-17.2	1,262	8.4	8.0-8.9
2012	75	11.9	9.3-15.0	1,357	8.8	8.4-9.3
2013	80	12.6	9.9-15.7	1,410	9.2	8.7-9.7
2014	60	9.6	7.3-12.4	1,392	8.9	8.4-9.4
2015	64	10.2	7.9-13.1	1,388	8.6	8.2-9.1
2016	67	10.1	7.8-12.9	1,356	8.5	8.0-8.9
2017	70	11.1	8.7-14.1	1,384	8.6	8.2-9.1
2018	60	9.6	7.3-12.3	1,363	8.5	8.0-8.9

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 3a: Non-Hispanic African American Age-adjusted<sup>†</sup> asthma mortality<sup>‡</sup> rates<sup>§</sup>, Illinois vs. U.S., 2000-2018

Year	Illinois			U.S.		
	Number	Rate	95% CI	Number	Rate	95% CI
2000	117	65.6	53.5-77.8	1,158	38.7	36.4-41.0
2001	103	59.7	47.9-71.5	1,108	35.9	33.7-38.0
2002	115	64.9	52.8-76.9	1,096	34.1	32.0-36.1
2003	84	47.9	38.0-59.5	1,030	31.6	29.6-33.6
2004	91	53.3	42.7-65.8	1,008	30.6	28.7-32.6
2005	96	55.3	44.6-67.8	1,016	30.3	28.4-32.2
2006	82	45.5	36.0-56.7	957	27.2	25.5-29.0
2007	81	45.3	35.8-56.5	902	25.3	23.6-27.0
2008	83	45.6	36.1-56.8	902	24.4	22.8-26.1
2009	87	45.8	36.6-56.7	924	24.4	22.8-26.1
2010	80	43.1	34.1-53.8	879	23.2	21.6-24.8
2011	77	41.1	32.3-51.6	909	23.2	21.6-24.7
2012	78	42.0	33.0-52.6	955	23.8	22.3-25.4
2013	90	47.0	37.6-57.9	1,006	24.9	23.3-26.5
2014	80	41.9	33.1-52.3	1,020	24.7	23.2-26.3
2015	74	39.1	30.6-49.2	990	23.0	21.5-24.5
2016	60	30.1	22.8-38.9	978	22.5	21.1-23.9
2017	77	39.5	31.2-49.3	970	21.1	19.8-22.5
2018	68	35.0	27.2-44.4	961	20.8	19.5-22.1

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 3b: Non-Hispanic White Age-adjusted<sup>†</sup> asthma mortality<sup>‡</sup> rate<sup>§</sup>, Illinois vs. U.S., 2000-2018

Year	Illinois			U.S.		
	Number	Rate	95% CI	Number	Rate	95% CI
2000	130	12.6	10.4-14.8	3,144	13.1	12.6-13.5
2001	139	13.3	11.1-15.6	2,990	12.2	11.8-12.7
2002	128	12.2	10.1-14.3	3,014	12.2	11.8-12.7
2003	122	11.4	9.4-13.4	2,888	11.5	11.1-12.0
2004	87	8.2	6.6-10.1	2,658	10.5	10.1-10.9
2005	110	10.1	8.2-12.0	2,714	10.5	10.1-10.9
2006	85	7.9	6.3-9.8	2,497	9.6	9.2-10.0
2007	66	6.0	4.6-7.6	2,376	9.0	8.6-9.3
2008	100	9.1	7.3-10.9	2,342	8.7	8.3-9.0
2009	76	7.0	5.5-8.8	2,299	8.5	8.1-8.8
2010	100	9.1	7.3-10.9	2,366	8.6	8.2-8.9
2011	94	8.4	6.8-10.3	2,261	8.1	7.7-8.9
2012	94	8.1	6.5-9.9	2,436	8.5	8.2-8.9
2013	92	7.9	6.3-9.7	2,415	8.4	8.1-8.8
2014	85	7.3	5.8-9.1	2,445	8.6	8.2-8.9
2015	77	6.6	5.2-8.3	2,423	8.3	7.9-8.6
2016	87	7.6	6.0-9.4	2,357	8.1	7.7-8.4
2017	67	6.7	5.2-8.5	2,399	9.4	9.1-9.8
2018	63	6.4	4.9-8.1	2,267	8.9	8.5-9.3

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 4a: Hispanic Age-adjusted<sup>†</sup> asthma mortality<sup>‡</sup> rates<sup>§</sup>, Illinois vs. U.S., 2000-2018

Year	Illinois			U.S.		
	Number	Rate	95% CI	Number	Rate	95% CI
2000	13	U	5.1-21.3	292	16.0	13.9-18.0
2001	18	U	15.2-51.3	274	14.0	12.2-15.9
2002	*	*	*	287	13.4	11.7-15.1
2003	11	U	7.6-31.8	299	13.4	11.7-15.1
2004	10	U	5.4-24.7	281	11.8	10.3-13.3
2005	*	*	*	248	10.6	9.2-12.1
2006	*	*	*	257	10.6	9.1-12.0
2007	*	*	*	239	8.7	7.5-10.0
2008	*	*	*	271	9.8	8.5-11.1
2009	11	U	3.2-14.4	302	9.8	8.5-11.0
2010	14	U	6.7-25.7	292	9.3	8.2-10.5
2011	16	U	6.6-23.7	244	7.3	6.3-8.3
2012	12	U	3.7-16.7	277	7.9	6.9-8.9
2013	10	U	3.0-13.5	327	9.0	7.9-10.0
2014	*	*	*	301	7.7	6.5-8.2
2015	10	U	3.0-13.6	305	7.3	6.5-8.2
2016	*	*	*	334	7.8	6.9-8.7
2017	s	s	s	322	5.5	4.9-6.1
2018	s	s	Suppressed(s)	377	6.3	5.7-6.9

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 4b: Non-Hispanic Age-adjusted<sup>†</sup> asthma mortality<sup>‡</sup> rates<sup>§</sup>, Illinois vs. U.S., 2000-2018

Year	Illinois			U.S.		
	Number	Rate	95% CI	Number	Rate	95% CI
2000	230	20.6	17.9-23.2	4,164	16.2	15.7-16.7
2001	218	19.3	16.7-21.9	3,976	15.3	14.8-15.8
2002	234	20.7	18.0-23.3	3,950	15.0	14.6-15.5
2003	196	17.1	14.7-19.5	3,786	14.2	13.8-14.7
2004	167	14.8	12.5-17.0	3,524	13.1	12.6-13.5
2005	203	17.5	15.1-19.9	3,626	13.3	12.9-13.7
2006	161	13.9	11.7-16.1	3,343	12.1	11.7-12.5
2007	144	12.4	10.3-14.4	3,207	11.5	11.1-11.9
2008	178	15.4	13.1-17.7	3,115	11.0	10.6-11.4
2009	162	14.1	11.9-16.3	3,076	10.8	10.4-11.1
2010	168	14.5	12.3-16.7	3,099	10.8	10.4-11.1
2011	160	13.9	11.7-16.1	3,093	10.6	10.2-11.0
2012	162	13.4	11.3-15.6	3,243	11.0	10.6-11.4
2013	182	15.2	12.9-17.5	3,295	11.1	10.7-11.5
2014	163	13.7	11.6-15.9	3,336	11.2	10.8-11.5
2015	145	12.5	10.4-14.6	3,280	10.8	10.5-11.2
2016	141	11.6	9.6-13.6	3,167	10.5	10.1-10.9
2017	141	13.3	11.1-15.5	3,229	12.1	11.7-12.5
2018	130	12.3	10.2-14.5	3,044	11.4	11.0-11.8

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 5a: Age-specific asthma mortality<sup>‡</sup> rates<sup>§</sup> by age-group, Illinois, 2004-2018

Year	0-4 years			5-11 years			12-17 Years			18-39 Years			40-64 Years			65+ Years		
	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	10	U	1.1-4.3	22	3.6	2.3-5.5	18	U	1.9-5.1	168	8.6	7.3-10.0	321	15.8	14.1-17.6	353	46.1	41.3-50.9
<b>2009-13</b>	16	U	2.2-6.3	30	5.0	3.4-7.2	24	4.5	2.9-6.7	155	8.0	6.7-9.3	366	17.3	15.5-19.1	306	37.0	32.8-41.1
<b>2014-18</b>	11	U	1.4-5.1	33	5.8	4.0-8.2	22	4.3	2.7-6.6	120	6.3	5.1-7.4	319	15.3	13.6-17.0	254	26.9	23.6-30.3

Table 5b: Age-specific asthma mortality<sup>‡</sup> rates<sup>§</sup> by age-group, U.S., 2004-2018

Year	0-4 years			5-11 years			12-17 Years			18-39 Years			40-64 Years			65+ Years		
	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	197	2.0	1.7-2.2	350	2.5	2.2-2.8	350	2.7	2.4-3.0	2206	4.9	4.7-5.1	6261	12.9	12.6-13.2	8791	47.1	46.1-48.1
<b>2009-13</b>	198	2.0	1.7-2.2	443	3.1	2.8-3.4	348	2.8	2.5-3.1	2333	5.0	4.8-5.2	6293	12.2	11.9-12.5	7682	36.7	35.9-37.6
<b>2014-18</b>	157	1.6	1.3-1.8	481	3.4	3.1-3.7	354	2.8	2.5-3.1	2778	5.8	5.6-6.0	6442	12.4	12.1-12.7	7576	30.7	30.0-31.4

<sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 6a: Age-specific asthma mortality<sup>†</sup> rates<sup>§</sup>, <18, 2004-2018

Year	Illinois			U.S.		
	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	50	3.1	2.3-4.1	897	2.4	2.3-2.6
<b>2009-13</b>	70	4.5	3.5-5.7	989	2.7	2.5-2.8
<b>2014-18</b>	66	4.5	3.5-5.7	992	2.7	2.5-2.9

Table 6b: Age-specific asthma mortality<sup>†</sup> rates<sup>§</sup>, 18+, 2004-2018

Year	Illinois			U.S.		
	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	842	17.8	16.6-19.0	17258	15.4	15.1-15.6
<b>2009-13</b>	827	16.9	15.8-18.1	16308	13.7	13.5-13.9
<b>2014-18</b>	693	14.0	13.0-15.1	16796	13.5	13.3-13.7

<sup>†</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.

Table 7a: Non-Hispanic Black Age-specific asthma mortality<sup>†</sup> rates<sup>§</sup>, Illinois, 2000-2018

Year	<18 years			18-39 Years			40-64 Years			65+Years		
	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	39	13.4	9.5-18.3	117	40.0	32.7-47.2	194	70.3	60.4-80.2	76	88.9	70.1-111.3
<b>2009-13</b>	45	16.8	12.3-22.5	91	30.8	24.8-37.8	220	76.1	66.0-86.1	52	55.4	41.4-72.7
<b>2014-18</b>	50	20.6	15.3-27.2	78	26.0	20.5-32.4	179	62.8	53.6-72.0	49	44.8	33.2-59.3

Table 7b: Non-Hispanic Black Age-specific asthma mortality<sup>†</sup> rates<sup>§</sup>, U.S., 2000-2018

Year	<18 years			18-39 Years			40-64 Years			65+Years		
	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	504	8.9	8.1-9.7	940	15.5	14.5-16.5	2178	39.2	37.5-40.8	1109	70.8	66.6-74.9
<b>2009-13</b>	573	10.2	9.4-11.0	972	15.1	14.2-16.1	2078	33.9	32.5-35.4	982	54.7	51.2-58.1
<b>2014-18</b>	572	10.3	9.4-11.1	1091	15.8	14.9-16.7	2070	32.5	31.1-33.9	1065	47.8	44.9-50.6

Table 8a: Non-Hispanic White Age-specific asthma mortality<sup>†</sup> rates<sup>§</sup>, Illinois, 2000-2018

Year	<18 years			18-39 Years			40-64 Years			65+Years		
	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	*	*	*	46	3.9	2.9-5.2	108	7.3	5.9-8.7	257	41.1	36.1-46.1
<b>2009-13</b>	14	U	0.9-2.8	46	4.1	3.0-5.4	111	7.5	6.1-8.9	225	34.1	29.7-38.6
<b>2014-18</b>	14	U	1.0-3.0	35	3.2	2.2-4.4	116	8.3	6.8-9.8	178	24.4	20.8-28.0

Table 8b: Non-Hispanic White Age-specific asthma mortality<sup>†</sup> rates<sup>§</sup>, U.S., 2000-2018

Year	<18 years			18-39 Years			40-64 Years			65+Years		
	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI	Num	Rate	95%CI
<b>2004-08</b>	242	1.1	1.0-1.3	976	3.5	3.3-3.8	3409	9.6	9.3-9.9	6691	43.9	42.8-44.9
<b>2009-13</b>	239	1.2	1.0-1.3	994	3.7	3.4-3.9	3419	9.5	9.2-9.8	5723	34.2	33.3-35.1
<b>2014-18</b>	245	1.3	1.1-1.4	1225	4.5	4.2-4.7	3470	10.1	9.7-10.4	5375	28.0	27.3-28.8

<sup>†</sup>Standard 2000 U.S. population used for direct age-adjustment; <sup>‡</sup>Asthma listed as the underlying cause of death (ICD-10:J45-J46); <sup>§</sup>Rate per 1,000,000.

Source: U.S. Centers for Disease Control and Prevention, National Center for Health Statistics. Underlying Cause of Death 2000-2016 on CDC WONDER Online Database, accessed September 2020.