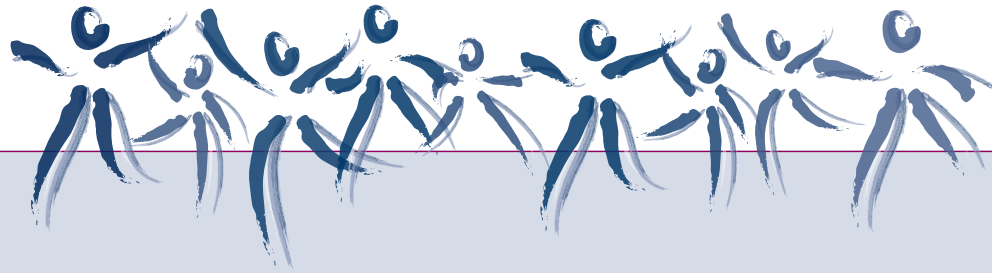


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## Asthma by Indigenous status

Table A2.1: Prevalence of current asthma, by age, sex and Indigenous status, 2004–05

Indigenous status/sex/age (years)	Estimated number of people with current asthma	Estimated total people	Age standardised per cent of people with current asthma	95% confidence interval
<b>Indigenous</b>				
<b>Males</b>				
0–14	14,349	92,767	15.5	12.8–18.2
15–34	8,114	78,404	10.7	8.1–13.3
35–54	3,450	45,998	7.4	5.4–9.4
55 and over	2,644	15,193	18.7	9.4–27.9
<b>All ages</b>	<b>28,557</b>	<b>232,362</b>	<b>12.5</b>	<b>10.2–14.8</b>
<b>Females</b>				
0–14	10,831	87,902	12.4	9.9–15.0
15–34	16,784	83,435	20.2	17.0–23.3
35–54	11,543	52,637	23.2	19.6–26.8
55 and over	3,795	17,974	22.2	15.2–29.3
<b>All ages</b>	<b>42,953</b>	<b>241,948</b>	<b>19.9</b>	<b>17.8–22.0</b>
<b>Persons</b>				
0–14	25,180	180,669	14.0	12.1–15.9
15–34	24,898	161,839	15.6	13.6–17.6
35–54	14,993	98,635	15.7	13.6–17.9
55 and over	6,439	33,167	20.7	14.8–26.7
<b>All ages</b>	<b>71,510</b>	<b>474,310</b>	<b>16.5</b>	<b>14.9–18.1</b>
<b>Non-Indigenous</b>				
<b>Males</b>				
0–14	246,253	1,934,058	12.7	11.1–14.3
15–34	251,917	2,716,272	9.2	8.0–10.5
35–54	193,299	2,779,807	7.0	6.0–7.9
55 and over	166,798	2,170,272	7.7	6.5–8.9
<b>All ages</b>	<b>858,268</b>	<b>9,600,410</b>	<b>9.0</b>	<b>8.3–9.6</b>
<b>Females</b>				
0–14	179,743	1,825,952	9.8	8.3–11.4
15–34	370,248	2,681,281	13.8	12.3–15.2
35–54	305,051	2,825,338	10.8	9.5–12.1
55 and over	246,490	2,359,405	10.5	9.3–11.7
<b>All ages</b>	<b>1,101,532</b>	<b>9,691,976</b>	<b>11.4</b>	<b>10.7–12.1</b>
<b>Persons</b>				
0–14	425,996	3,760,011	11.3	10.0–12.6
15–34	622,165	5,397,553	11.5	10.6–12.4
35–54	498,350	5,605,145	8.9	8.1–9.7
55 and over	413,288	4,529,677	9.2	8.3–10.0
<b>All ages</b>	<b>1,959,800</b>	<b>19,292,386</b>	<b>10.2</b>	<b>9.7–10.7</b>

Note: Current asthma based on a positive response to 'Have you ever been told by a doctor that you have asthma?' and 'Do you still get asthma?' Prevalence rates were age-standardised to the 2001 Australian population.

Source: Australian Centre for Asthma Monitoring (ACAM) analysis of the Australian Bureau of Statistics (ABS) National Aboriginal and Torres Strait Islander Health Survey (NATSISHS) and National Health Survey (NHS) 2004–05, expanded confidentialised unit record files, Remote Access Data Laboratory.

**Table A2.2: Prevalence of current asthma, by age and Indigenous status, children aged 0–17 years, 2004–05**

Indigenous status/age	Estimated number of children with current asthma	Estimated total children	Age standardised per cent of children with current asthma	95% confidence interval
<b>Indigenous</b>				
0–1	2,106	21,952	9.3	5.0–13.7
2–4	4,844	38,231	12.7	9.0–16.4
5–11	12,146	85,921	14.1	11.5–16.8
12–17	9,941	69,909	14.4	11.5–17.3
<b>0–17 years</b>	<b>29,037</b>	<b>216,013</b>	<b>13.5</b>	<b>11.9–15.1</b>
<b>Non-Indigenous</b>				
0–1	14,869	481,057	3.1	1.6–4.7
2–4	71,435	716,981	9.9	7.4–12.5
5–11	244,337	1,837,418	13.2	11.2–15.1
12–17	182,205	1,503,676	12.1	10.2–14.0
<b>0–17 years</b>	<b>512,845</b>	<b>4,539,131</b>	<b>11.2</b>	<b>10.1–12.3</b>

Notes: Current asthma based on a positive response to 'Have you ever been told by a doctor that you have asthma?' and 'Do you still get asthma?' Prevalence rates were age-standardised to the 2001 Australian population.

Source: Australian Centre for Asthma Monitoring (ACAM) analysis of the Australian Bureau of Statistics (ABS) National Aboriginal and Torres Strait Islander Health Survey (NATSIHS) and National Health Survey (NHS) 2004–05, expanded confidentialised unit record files, Remote Access Data Laboratory.

**Table A2.3: Hospital separations for asthma per 100,000 population, by age group and Indigenous status, Australia, 2005–06**

	Rate (95% confidence interval)			
	Indigenous		Other Australians	
0–4 years	1,350.5	(1,257.5–1,448.6)	1,095.8	(1,076.9–1,114.8)
5–14 years	315.4	(283.9–349.4)	272.2	(265.8–278.8)
15–34 years	182.7	(161.5–205.9)	91.3	(88.7–93.9)
35–54 years	498.4	(453.8–546.1)	85.8	(83.4–88.3)
55 years and over	586.5	(502.6–682.8)	120.0	(116.8–123.2)
<b>All ages</b>	<b>458.6</b>	<b>(433.5–484.6)</b>	<b>187.6</b>	<b>(185.6–189.6)</b>

Notes: Asthma classified according to International Statistical Classification for Diseases and Related Health Problems, 10th Revision, Australian Modification (ICD-10-AM) codes J45 and J46. Separations for which the care type was reported as Newborn with no qualified days, and records for Hospital boarders and Posthumous organ procurement have been excluded.

Source: AIHW National Hospital Morbidity Database.

**Table A2.4: Hospital patient days for asthma per 100,000 population, by age group and Indigenous status, Australia, 2005–06**

Age group	Indigenous	Other Australians
0–4 years	2,347.0	1,573.0
5–14 years	573.4	449.2
15–34 years	413.8	193.6
35–54 years	1,426.5	251.3
55 years and over	1,980.0	565.3
<b>All ages (95% CI)</b>	<b>1,201.7 (1,156.1–1,248.2)</b>	<b>418.7 (415.8–421.7)</b>

Note: Separations for which the care type was reported as Newborn with no qualified days, and records for Hospital boarders and Posthumous organ procurement have been excluded. CI = confidence interval.

Source: AIHW National Hospital Morbidity Database.



## Prevalence

**Table A2.5: Prevalence of ever having doctor-diagnosed asthma, by age group and sex, all ages, Australia, 2004–05**

Sex/age (years)	Estimated number of people with ever doctor-diagnosed asthma	Estimated total people	Age-standardised per cent of people with ever doctor-diagnosed asthma	95% confidence interval
<b>Males</b>				
0–4	75,430	639,728	12.3	9.7–14.8
5–9	160,798	668,051	24.2	20.8–27.5
10–14	225,927	703,098	32.0	28.4–35.7
15–24	417,099	1,376,891	30.3	27.8–32.8
25–34	306,853	1,396,464	21.8	19.6–24.0
35–44	236,634	1,468,265	18.2	16.3–20.2
45–54	194,557	1,351,290	14.4	12.6–16.4
55–64	125,119	1,064,419	11.8	9.9–13.8
65–74	102,600	659,396	15.2	12.6–17.9
75 and over	60,743	460,844	13.2	10.9–15.6
<b>All ages</b>	<b>1,905,755</b>	<b>9,788,447</b>	<b>19.7</b>	<b>18.7–20.7</b>
<b>Females</b>				
0–4	62,924	607,481	10.1	7.7–12.4
5–9	125,241	635,807	19.7	16.5–22.8
10–14	149,731	666,427	22.6	19.4–25.9
15–24	388,031	1,316,076	29.6	27.1–32.2
25–34	362,650	1,417,181	25.5	23.2–27.9
35–44	314,638	1,490,967	23.7	21.6–25.9
45–54	277,997	1,383,535	20.2	18.0–22.4
55–64	185,945	1,055,806	17.5	15.2–19.8
65–74	127,654	694,274	18.5	15.6–21.3
75 and over	78,909	625,537	12.6	10.4–14.7
<b>All ages</b>	<b>2,073,720</b>	<b>9,893,092</b>	<b>20.6</b>	<b>19.6–21.6</b>

Notes: 'Ever asthma' based on a positive response to 'Have you ever been told by a doctor that you have asthma?' Prevalence rates were age-standardised to the 2001 Australian population.

Source: Australian Centre for Asthma Monitoring (ACAM) analysis of Australian Bureau of Statistics (ABS) National Health Survey 2004–05 confidentialised unit record files

**Table A2.6: Current prevalence of probable asthma, by age group and sex, all ages, Australia, 2004–05**

Age/sex	Estimated number of people with current asthma	Estimated total people	Age-standardised per cent of people with current asthma	95% confidence interval
<b>Males</b>				
0–4	50,000	639,726	8.1	6.0–10.2
5–9	87,617	668,051	13.0	10.4–15.5
10–14	120,489	703,099	16.8	13.9–19.6
15–24	144,882	1,376,889	10.6	9.0–12.3
25–34	112,098	1,396,463	8.0	6.6–9.4
35–44	100,221	1,468,265	7.7	6.4–9.0
45–54	94,544	1,351,290	7.0	5.6–8.3
55–64	74,531	1,064,417	7.0	5.5–8.5
65–74	58,515	659,397	8.6	6.6–10.7
75 and over	33,753	460,844	7.3	5.0–9.7
<b>All ages</b>	<b>876,649</b>	<b>9,788,440</b>	<b>8.9</b>	<b>8.3–9.5</b>
<b>Females</b>				
0–4	40,330	607,482	6.5	4.6–8.4
5–9	76,567	635,805	12.0	9.5–14.5
10–14	73,901	666,425	11.2	8.7–13.6
15–24	188,227	1,316,076	14.4	12.4–16.3
25–34	189,381	1,417,183	13.4	11.5–15.2
35–44	160,193	1,490,966	12.1	10.5–13.7
45–54	157,260	1,383,537	11.4	9.7–13.1
55–64	110,575	1,055,806	10.5	8.6–12.3
65–74	85,370	694,273	12.4	10.0–14.8
75 and over	51,756	625,538	8.3	6.2–10.5
<b>All ages</b>	<b>1,133,560</b>	<b>9,893,091</b>	<b>11.5</b>	<b>10.8–12.2</b>

Notes: Current asthma based on a positive response to 'Have you ever been told by a doctor that you have asthma?' and 'Do you still get asthma?' Prevalence rates were age-standardised to the 2001 Australian population.

Source: Australian Centre for Asthma Monitoring (ACAM) analysis of Australian Bureau of Statistics (ABS) National Health Survey 2004–05 expanded confidentialised unit record files.

## Mortality

**Table A2.7: Deaths due to asthma, by sex, all ages, Australia, 1979–2006**

Year	Males				Females			
	Deaths due to asthma	Population	Age standardised rate per 100,000	95% confidence interval	Deaths due to asthma	Population	Age standardised rate per 100,000	95% confidence interval
1979	177	7,253,762	3.21	2.69–3.77	164	7,261,967	2.60	2.20–3.03
1980	201	7,338,060	3.75	3.19–4.37	225	7,357,296	3.49	3.04–3.98
1981	213	7,448,267	3.75	3.21–4.33	213	7,474,993	3.07	2.67–3.52
1982	224	7,580,914	3.94	3.39–4.54	234	7,603,333	3.46	3.02–3.94
1983	236	7,686,346	3.96	3.43–4.53	249	7,707,126	3.52	3.08–3.98
1984	264	7,778,212	4.15	3.63–4.71	257	7,801,179	3.61	3.17–4.08
1985	295	7,882,728	5.05	4.42–5.72	337	7,905,584	4.55	4.07–5.07
1986	315	8,000,187	4.88	4.31–5.49	301	8,018,163	3.97	3.53–4.45
1987	296	8,118,255	4.53	3.99–5.11	363	8,145,619	4.72	4.24–5.23
1988	297	8,248,945	4.51	3.98–5.10	341	8,283,219	4.40	3.94–4.89
1989	334	8,387,589	5.01	4.45–5.60	402	8,426,827	5.01	4.52–5.52
1990	294	8,511,269	4.36	3.84–4.92	335	8,553,859	4.10	3.67–4.57
1991	255	8,615,409	3.73	3.25–4.24	314	8,668,627	3.72	3.31–4.16
1992	253	8,716,147	3.65	3.19–4.14	310	8,778,517	3.63	3.23–4.06
1993	250	8,797,915	3.54	3.09–4.03	336	8,869,178	3.83	3.43–4.27
1994	245	8,888,066	3.66	3.19–4.17	365	8,966,672	4.04	3.64–4.48
1995	212	8,993,604	2.86	2.47–3.29	341	9,078,154	3.68	3.30–4.09
1996	223	9,108,055	3.05	2.64–3.49	314	9,202,659	3.32	2.96–3.71
1997	207	9,203,171	2.71	2.34–3.12	292	9,314,393	2.97	2.64–3.33
1998	187	9,294,674	2.34	2.01–2.71	294	9,416,597	2.94	2.62–3.30
1999	160	9,396,548	2.02	1.71–2.37	264	9,529,307	2.58	2.28–2.92
2000	169	9,505,331	2.00	1.71–2.33	285	9,648,049	2.71	2.40–3.05
2001	175	9,630,652	2.00	1.71–2.32	247	9,782,588	2.27	1.99–2.57
2002	158	9,756,969	1.90	1.61–2.23	239	9,897,906	2.14	1.88–2.43
2003	108	9,882,364	1.23	1.00–1.49	206	10,020,374	1.76	1.53–2.02
2004	108	10,005,472	1.20	0.98–1.45	205	10,134,320	1.72	1.49–1.97
2005	108	10,144,053	1.15	0.94–1.39	210	10,265,093	1.69	1.47–1.94
2006	139	10,290,338	1.52	1.27–1.79	263	10,411,150	2.03	1.79–2.30

Sources: AIHW National Mortality Database; Australian Bureau of Statistics.

Table A2.8: Deaths due to asthma, by sex, people aged 5–34 years, Australia, 1979–2006

Year	Males				Females			
	Deaths due to asthma	Population	Age standardised rate per 100,000	95% confidence interval	Deaths due to asthma	Population	Age standardised rate per 100,000	95% confidence interval
1979	39	3,801,424	1.04	0.74–1.42	26	3,666,212	0.71	0.46–1.04
1980	40	3,838,662	1.04	0.75–1.42	31	3,707,242	0.84	0.57–1.19
1981	37	3,886,621	0.97	0.68–1.33	47	3,755,136	1.25	0.92–1.66
1982	39	3,913,365	0.98	0.70–1.34	40	3,780,951	1.08	0.77–1.48
1983	41	3,925,054	1.06	0.76–1.44	32	3,794,433	0.85	0.58–1.20
1984	58	3,929,234	1.45	1.10–1.88	41	3,799,641	1.08	0.77–1.46
1985	50	3,941,760	1.27	0.94–1.67	56	3,810,544	1.44	1.09–1.87
1986	62	3,963,505	1.52	1.16–1.95	55	3,829,133	1.41	1.06–1.84
1987	55	3,993,308	1.37	1.03–1.79	55	3,862,446	1.40	1.05–1.82
1988	52	4,031,302	1.27	0.95–1.67	40	3,900,786	1.01	0.72–1.38
1989	54	4,071,700	1.31	0.98–1.70	46	3,941,204	1.14	0.83–1.52
1990	44	4,102,245	1.06	0.77–1.43	47	3,971,569	1.16	0.85–1.54
1991	35	4,113,138	0.85	0.59–1.18	41	3,986,925	1.01	0.73–1.37
1992	27	4,121,361	0.66	0.43–0.95	17	3,997,413	0.43	0.25–0.69
1993	38	4,115,544	0.91	0.64–1.25	33	3,993,033	0.83	0.57–1.16
1994	26	4,115,954	0.64	0.41–0.93	37	3,993,799	0.93	0.65–1.28
1995	26	4,124,616	0.63	0.41–0.93	24	4,003,108	0.60	0.39–0.90
1996	24	4,134,908	0.58	0.37–0.86	19	4,017,879	0.47	0.28–0.73
1997	27	4,127,183	0.65	0.43–0.95	22	4,017,855	0.55	0.34–0.83
1998	26	4,120,055	0.63	0.41–0.93	32	4,014,573	0.79	0.54–1.11
1999	27	4,124,427	0.66	0.43–0.95	25	4,022,006	0.62	0.40–0.92
2000	23	4,141,012	0.56	0.35–0.84	25	4,040,411	0.61	0.40–0.90
2001	30	4,166,146	0.73	0.49–1.04	13	4,067,548	0.32	0.17–0.54
2002	16	4,202,311	0.38	0.22–0.62	17	4,092,376	0.41	0.24–0.66
2003	19	4,236,739	0.45	0.27–0.71	12	4,120,607	0.28	0.15–0.49
2004	18	4,265,801	0.43	0.25–0.68	13	4,138,488	0.31	0.16–0.52
2005	13	4,298,647	0.30	0.16–0.52	13	4,163,481	0.31	0.17–0.54
2006	10	4,332,570	0.22	0.11–0.41	8	4,192,639	0.19	0.08–0.37

Sources: AIHW National Mortality Database; Australian Bureau of Statistics.

## General practice

**Table A2.9: General practice encounters for asthma, by age group, Australia, April 1998 to March 2007**

Age group/ year	GP encounters for asthma per 100 GP encounters	95% confidence interval	Total annual GP attendances	Population	GP encounters for asthma per 100 population	95% confidence interval
<b>0 to 4 years</b>						
1998–99	5.5	4.6–6.5	8,872,329	1,289,541	38.0	31.7–44.3
1999–2000	5.3	4.5–6.1	8,467,529	1,284,153	34.9	29.8–40.0
2000–01	4.6	4.0–5.3	8,146,090	1,278,970	29.3	25.2–33.5
2001–02	4.3	3.7–4.9	7,779,664	1,282,357	26.1	22.3–29.8
2002–03	4.1	3.5–4.8	7,628,359	1,270,421	24.7	20.9–28.5
2003–04	4.3	3.6–5.0	7,251,901	1,264,617	24.7	20.8–28.5
2004–05	3.4	2.9–3.9	7,078,429	1,280,616	18.8	15.8–21.8
2005–06	3.9	3.2–4.5	6,943,018	1,301,111	20.7	17.2–24.2
2006–07	3.7	3.0–4.4	6,811,572	1,319,180	19.1	15.7–22.6
<b>5 to 34 years</b>						
1998–99	4.1	3.8–4.4	33,322,197	8,134,628	16.8	15.6–18.1
1999–2000	3.9	3.6–4.3	31,963,780	8,146,433	15.5	14.1–16.8
2000–01	3.8	3.5–4.1	30,910,917	8,181,423	14.4	13.2–15.6
2001–02	3.8	3.4–4.1	29,795,442	8,233,694	13.6	12.4–14.8
2002–03	3.4	3.1–3.7	28,935,717	8,312,219	11.8	10.8–12.8
2003–04	3.6	3.3–4.0	27,494,569	8,326,866	11.9	10.8–13.1
2004–05	3.2	2.9–3.5	26,376,406	8,429,031	9.9	8.9–10.8
2005–06	3.1	2.8–3.4	26,488,696	8,492,061	9.6	8.8–10.5
2006–07	3.0	2.7–3.3	25,921,579	8,554,967	9.1	8.2–10.0
<b>35 to 64 years</b>						
1998–99	2.6	2.4–2.8	38,021,641	6,995,872	14.2	12.9–15.4
1999–2000	2.7	2.5–2.9	38,453,076	7,159,795	14.4	13.2–15.5
2000–01	2.2	2.0–2.4	38,694,630	7,313,669	11.8	10.7–12.9
2001–02	2.3	2.1–2.6	38,481,049	7,461,655	12.1	11.0–13.2
2002–03	2.4	2.2–2.6	38,196,778	7,590,140	12.2	11.0–13.3
2003–04	2.0	1.8–2.2	37,488,856	7,734,740	9.6	8.8–10.5
2004–05	2.0	1.8–2.2	37,607,243	7,952,212	9.6	8.7–10.6
2005–06	1.9	1.8–2.1	37,873,486	8,106,982	9.1	8.3–9.9
2006–07	2.0	1.8–2.2	38,115,989	8,256,425	9.4	8.5–10.3
<b>65 years and over</b>						
1998–99	2.2	1.9–2.4	21,764,528	2,291,230	20.6	18.4–22.9
1999–2000	2.5	2.3–2.8	21,875,472	2,335,474	23.6	21.2–26.0
2000–01	2.0	1.8–2.2	22,035,428	2,379,318	18.7	16.7–20.8
2001–02	2.2	1.9–2.4	22,161,005	2,435,534	19.6	17.4–21.8

(continued)



Table A2.9 (continued): General practice encounters for asthma, by age group, Australia, April 1998 to March 2007

Age group/ year	GP encounters for asthma per 100 GP encounters	95% confidence interval	Total annual GP attendances	Population	GP encounters for asthma per 100 population	95% confidence interval
2002–03	2.1	1.8–2.3	22,541,186	2,490,001	18.7	16.4–20.9
2003–04	1.9	1.7–2.2	22,669,052	2,546,423	17.2	15.3–19.2
2004–05	1.7	1.5–1.9	23,258,641	2,603,379	15.3	13.5–17.1
2005–06	1.5	1.3–1.7	23,714,868	2,658,763	13.8	12.0–15.5
2006–07	1.6	1.4–1.8	24,113,349	2,721,425	13.9	12.2–15.5
<b>0 to 14 years</b>						
1998–99	6.6	6.0–7.3	17,662,464	3,943,620	29.7	26.8–32.7
1999–2000	6.4	5.7–7.1	16,527,764	3,960,290	26.8	24.0–29.7
2000–01	5.8	5.2–6.4	15,890,422	3,977,640	23.2	20.9–25.5
2001–02	6.0	5.0–6.2	15,298,258	3,991,803	21.4	19.1–23.8
2002–03	5.2	4.6–5.7	15,052,658	3,999,814	19.5	17.5–21.6
2003–04	5.5	4.9–6.0	14,081,346	4,008,156	19.2	17.2–21.2
2004–05	4.9	4.4–5.4	13,524,047	4,015,470	16.5	14.8–18.3
2005–06	5.1	4.5–5.7	13,452,251	4,040,842	17.0	15.1–18.9
2006–07	4.6	4.1–5.2	13,003,306	4,061,135	14.8	13.0–16.6
<b>15 years and over</b>						
1998–99	2.5	2.4–2.7	81,373,466	14,870,656	14.0	13.0–14.9
1999–2000	2.7	2.5–2.8	84,232,093	15,078,048	14.9	14.0–15.8
2000–01	2.3	2.2–2.5	83,896,643	15,295,004	12.8	12.0–13.6
2001–02	2.4	2.2–2.6	82,918,902	15,544,419	12.9	12.0–13.8
2002–03	2.3	2.2–2.5	82,249,382	15,777,026	12.2	11.4–13.1
2003–04	2.2	2.0–2.3	80,823,032	16,013,551	10.9	10.1–11.6
2004–05	2.0	1.8–2.1	80,796,672	16,249,768	9.8	9.2–10.5
2005–06	1.9	1.7–2.0	81,567,817	16,518,075	9.2	8.6–9.8
2006–07	1.9	1.8–2.1	81,959,183	16,790,862	9.5	8.8–10.2
<b>All ages</b>						
1998–99	3.2	3.0–3.4	90,800,767	18,711,271	15.4	14.5–16.3
1999–2000	3.2	3.0–3.4	89,959,223	18,925,855	15.2	14.3–16.2
2000–01	2.8	2.7–3.0	89,814,608	19,153,380	13.3	12.5–14.1
2001–02	2.8	2.7–3.0	90,767,006	19,413,240	13.3	12.4–14.1
2002–03	2.7	2.6–2.9	90,661,663	19,654,875	12.6	11.8–13.3
2003–04	2.6	2.4–2.7	89,176,063	19,902,738	11.5	10.7–12.2
2004–05	2.3	2.2–2.5	89,671,484	20,139,792	10.4	9.7–11.1
2005–06	2.3	2.1–2.4	90,532,408	20,409,146	10.1	9.4–10.7
2006–07	2.3	2.1–2.4	90,678,610	20,701,488	9.9	9.2–10.6

Note: Data are presented in 'Bettering the Evaluation and Care of Health (BEACH) years', which extend from April to March.

Sources: BEACH Survey of General Practice; Medicare Australia online statistics.

## Hospitalisations

Table A2.10: Hospital separations for asthma, by age group and sex, Australia, 1993–2007

Age group/ year	Males				Females			
	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval
<b>0 to 4 years</b>								
1993–94	12,928	662,989	1,950	1,917–1,984	6,712	629,533	1,066	1,041–1,092
1994–95	12,857	665,924	1,931	1,898–1,964	6,509	632,113	1,030	1,005–1,055
1995–96	12,608	666,703	1,891	1,858–1,924	6,398	632,821	1,011	986–1,036
1996–97	12,683	665,611	1,906	1,872–1,939	6,594	631,438	1,044	1,019–1,070
1997–98	10,207	665,414	1,534	1,504–1,564	5,174	630,850	820	798–843
1998–99	11,237	662,117	1,697	1,666–1,729	5,979	627,424	953	929–977
1999–2000	8,734	658,830	1,326	1,298–1,354	4,733	625,323	757	736–779
2000–01	9,679	655,870	1,476	1,447–1,505	5,203	623,100	835	813–858
2001–02	8,416	657,499	1,280	1,253–1,308	4,504	624,858	721	700–742
2002–03	7,935	651,556	1,218	1,191–1,245	4,206	619,365	679	659–700
2003–04	8,335	648,266	1,286	1,258–1,314	4,266	616,337	692	672–713
2004–05	8,438	646,962	1,304	1,277–1,332	4,598	614,285	749	727–770
2005–06	9,097	648,825	1,402	1,373–1,431	4,938	615,682	802	780–825
2006–07	8,600	654,879	1,313	1,286–1,341	4,722	620,286	762	740–783
<b>5 to 14 years</b>								
1993–94	9,682	1,305,410	380	372–388	6,373	1,239,594	250	244–257
1994–95	8,008	1,313,601	313	306–320	5,546	1,248,399	216	211–222
1995–96	8,319	1,326,681	322	315–329	5,548	1,261,913	214	209–220
1996–97	7,397	1,339,478	283	277–290	4,921	1,274,788	188	183–193
1997–98	7,335	1,347,206	279	273–285	4,745	1,283,025	180	175–185
1998–99	7,224	1,355,317	273	267–279	4,811	1,291,019	181	176–187
1999–2000	5,662	1,366,184	212	207–218	3,853	1,300,535	144	140–149
2000–01	6,620	1,377,301	246	240–252	4,317	1,309,796	160	156–165
2001–02	4,984	1,386,873	184	179–189	3,032	1,317,968	112	108–116
2002–03	4,322	1,391,412	160	155–165	2,702	1,321,845	100	96–104
2003–04	4,419	1,393,719	164	159–168	2,952	1,323,202	109	105–113
2004–05	4,605	1,392,226	171	166–176	2,965	1,323,271	110	106–114
2005–06	4,497	1,392,226	168	163–173	2,831	1,321,488	105	102–109
2006–07	4,676	1,390,404	336	327–346	3,126	1,319,756	237	229–245

(continued)

Table A2.10 (continued): Hospital separations for asthma, by age group and sex, Australia, 1993–2007

Age group/ year	Males				Females			
	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval
<b>15 to 34 years</b>								
1993–94	3,582	2,810,134	65	62–67	7,188	2,753,439	130	127–133
1994–95	3,002	2,802,353	54	52–56	6,394	2,745,400	116	113–119
1995–96	3,111	2,797,935	56	54–58	6,449	2,741,195	118	115–121
1996–97	3,012	2,795,430	54	53–56	6,269	2,743,091	114	111–117
1997–98	3,339	2,779,977	61	59–63	6,471	2,734,830	118	115–121
1998–99	3,439	2,764,738	63	61–65	6,206	2,723,554	113	111–116
1999–2000	3,314	2,758,243	61	58–63	5,798	2,721,471	106	103–109
2000–01	3,338	2,763,711	61	59–63	5,762	2,730,615	105	102–108
2001–02	2,628	2,779,273	48	46–49	4,475	2,749,580	81	79–83
2002–03	2,133	2,805,935	38	37–40	4,093	2,760,675	74	72–76
2003–04	2,170	2,832,596	39	37–40	4,176	2,777,349	75	73–77
2004–05	1,942	2,855,323	34	33–36	3,641	2,784,453	65	63–67
2005–06	1,785	2,883,842	31	30–33	3,533	2,805,922	63	61–65
2006–07	1,769	2,911,811	61	58–64	3,197	2,819,777	113	110–117
<b>35 to 64 years</b>								
1993–94	2,739	3,132,090	45	43–47	5,857	3,077,546	96	94–99
1994–95	2,696	3,194,835	43	42–45	5,744	3,146,513	93	90–95
1995–96	2,716	3,268,186	43	41–44	6,015	3,224,911	95	93–97
1996–97	2,864	3,348,237	44	42–46	6,402	3,309,585	99	96–101
1997–98	3,152	3,428,459	47	45–49	6,954	3,399,118	104	102–106
1998–99	2,900	3,508,991	42	40–43	7,112	3,486,881	103	100–105
1999–2000	2,953	3,587,294	41	40–43	7,049	3,572,501	99	97–101
2000–01	2,820	3,660,750	77	37–40	6,745	3,652,919	93	90–95
2001–02	2,563	3,730,335	39	33–36	6,205	3,731,320	83	81–85
2002–03	2,249	3,798,334	30	28–31	5,610	3,800,910	74	72–76
2003–04	2,260	3,864,150	29	28–30	5,610	3,870,590	72	70–74
2004–05	2,194	3,928,506	28	27–29	5,481	3,939,572	69	67–71
2005–06	2,298	3,987,078	29	28–30	5,416	4,005,545	67	65–69
2006–07	2,061	4,066,889	51	49–53	5,118	4,087,579	125	122–129

(continued)

Table A2.10 (continued): Hospital separations for asthma, by age group and sex, Australia, 1993–2007

Age group/ year	Males				Females			
	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval
<b>65 years and over</b>								
1993–94	1,506	887,292	77	73–81	2,459	1,169,066	117	113–122
1994–95	1,490	911,353	74	70–78	2,486	1,194,247	116	112–121
1995–96	1,561	934,099	76	72–79	2,668	1,217,314	123	118–127
1996–97	1,769	959,299	83	79–87	2,988	1,243,757	135	130–140
1997–98	1,948	982,115	89	85–93	3,331	1,266,570	148	143–153
1998–99	1,454	1,003,511	64	61–68	3,510	1,287,719	152	147–157
1999–2000	1,353	1,025,997	59	56–62	3,557	1,309,477	152	147–157
2000–01	1,177	1,047,699	50	47–53	3,149	1,331,619	132	128–137
2001–02	1,171	1,076,672	48	45–51	3,040	1,358,862	125	120–129
2002–03	1,047	1,105,896	42	39–44	2,933	1,385,051	118	114–122
2003–04	937	1,134,702	36	34–39	2,864	1,411,721	113	109–117
2004–05	923	1,165,489	35	33–37	2,674	1,439,410	104	100–108
2005–06	918	1,198,865	34	31–36	2,616	1,469,136	99	95–103
2006–07	883	1,233,435	72	67–77	2,436	1,500,672	162	156–169
<b>0 to 14 years</b>								
1993–94	22,610	1,968,399	579.3	571.8–586.9	13,085	1,869,127	336.9	331.1–342.7
1994–95	20,865	1,979,525	530.5	523.3–537.7	12,055	1,880,512	308.2	302.7–313.7
1995–96	20,927	1,993,384	530.1	522.9–537.3	11,946	1,894,734	303.8	298.3–309.2
1996–97	20,080	2,005,089	506.4	499.4–513.4	11,515	1,906,226	291.3	286.0–296.6
1997–98	17,542	2,012,620	442.2	435.7–448.8	9,919	1,913,875	250.7	245.8–255.7
1998–99	18,473	2,017,434	465.2	458.5–471.9	10,794	1,918,443	272.5	267.3–277.6
1999–2000	14,396	2,025,014	362.4	356.5–368.4	8,586	1,925,858	216.4	211.9–221.0
2000–01	16,299	2,033,171	410.2	403.9–416.5	9,520	1,932,896	239.6	234.9–244.5
2001–02	13,400	2,044,372	336.1	330.4–341.8	7,536	1,942,826	189.0	184.8–193.3
2002–03	12,257	2,042,968	309.2	303.7–314.7	6,908	1,941,210	174.1	170.1–178.3
2003–04	12,754	2,041,999	322.9	317.4–328.6	7,218	1,939,539	182.5	178.4–186.8
2004–05	13,043	2,041,195	331.2	325.5–336.9	7,563	1,937,556	191.9	187.6–196.2
2005–06	13,594	2,041,051	345.1	339.3–350.9	7,769	1,937,170	197.2	192.8–201.6
2006–07	13,276	2,045,283	335.2	329.5–340.9	7,848	1,940,042	198.4	194.0–202.8

(continued)

Table A2.10 (continued): Hospital separations for asthma, by age group and sex, Australia, 1993–2007

Age group/ year	Males				Females			
	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval	Hospital separations	Population	Hospital separations per 100,000	95% confidence interval
<b>15 years and over</b>								
1993–94	7,827	6,829,516	56.9	55.6–58.1	15,504	7,000,051	111.7	110.0–113.5
1994–95	7,187	6,908,541	52.0	50.8–53.2	14,624	7,086,160	104.8	103.1–106.6
1995–96	7,388	7,000,220	52.7	51.5–53.9	15,132	7,183,420	107.4	105.7–109.2
1996–97	7,645	7,102,966	53.8	52.6–55.1	15,659	7,296,433	109.8	108.1–111.5
1997–98	8,440	7,190,551	58.6	57.3–59.8	16,756	7,400,518	115.9	114.1–117.7
1998–99	7,802	7,277,240	52.9	51.7–54.1	16,842	7,498,154	114.4	112.7–116.2
1999–2000	7,620	7,371,534	50.9	49.8–52.1	16,404	7,603,449	109.9	108.2–111.6
2000–01	7,335	7,472,160	48.3	47.2–49.4	15,656	7,715,153	103.2	101.6–104.8
2001–02	6,362	7,586,280	41.2	40.2–42.3	13,720	7,839,762	88.9	87.5–90.4
2002–03	5,429	7,710,165	34.6	33.7–35.5	12,636	7,946,636	80.7	79.3–82.1
2003–04	5,367	7,831,448	33.6	32.7–34.5	12,650	8,059,660	79.6	78.2–81.0
2004–05	5,059	7,949,318	31.2	30.3–32.1	11,796	8,163,435	73.1	71.8–74.4
2005–06	5,001	8,069,785	30.3	29.5–31.2	11,565	8,280,603	70.6	69.3–71.9
2006–07	4,713	8,212,135	28.1	27.3–28.9	10,751	8,408,028	64.5	63.3–65.7
<b>All ages</b>								
1993–94	30,437	8,797,915	164.2	162.3–166.0	28,589	8,869,178	158.0	156.1–159.8
1994–95	28,052	8,888,066	150.2	148.5–152.0	26,679	8,966,672	146.6	144.8–148.4
1995–96	28,315	8,993,604	150.7	149.0–152.5	27,078	9,078,154	147.8	146.0–149.5
1996–97	27,725	9,108,055	146.8	145.1–148.5	27,175	9,202,659	147.1	145.3–148.8
1997–98	25,981	9,203,171	137.4	135.7–139.0	26,675	9,314,393	143.6	141.9–145.3
1998–99	26,275	9,294,674	137.6	135.9–139.2	27,636	9,416,597	146.9	145.2–148.6
1999–2000	22,016	9,396,548	114.9	113.4–116.4	24,990	9,529,307	131.7	130.1–133.4
2000–01	23,634	9,505,331	122.6	121.1–124.2	25,176	9,648,049	131.2	129.6–132.9
2001–02	19,762	9,630,652	101.8	100.4–103.2	21,256	9,782,588	109.5	108.0–111.0
2002–03	17,686	9,753,133	91.0	89.6–92.3	19,544	9,887,846	99.9	98.5–101.3
2003–04	18,121	9,873,447	93.1	91.7–94.4	19,868	9,999,199	100.7	99.3–102.1
2004–05	18,102	9,990,513	92.8	91.5–94.2	19,359	10,100,991	97.5	96.1–98.9
2005–06	18,595	10,110,836	95.0	93.6–96.4	19,334	10,217,773	96.6	95.2–97.9
2006–07	17,989	10,257,418	91.2	89.9–92.5	18,599	10,348,070	92.0	90.7–93.4

Notes: All hospital separations before 1998–99 data have been converted to International Classification of Diseases, 10th Revision (ICD-10) using the following conversion factors: less than 5 years = 1; 5–34 years = 1.0326; 35–64 years = 0.7938; 65 years and above = 0.4813. Asthma is classified according to ICD, 9th Revision (ICD-9) code 493, and ICD-10 codes J45 and J46. Separations for which the care type was reported as Newborn with no qualified days, and records for Hospital boarders and Posthumous organ procurement have been excluded.

Source: AIHW National Hospital Morbidity Database.

## Patient days

**TableA2.11: Hospital patient days for asthma per 100,000 population, by age group, Australia, 1993–2007**

	Age group (years)					All ages (95% CI)
	0–4	5–14	15–34	35–64	65 and over	
<b>Sex (data for 2006–07)</b>						
Males	1,836.1	533.9	115.5	133.6	289.0	316.2 (312.7–319.6)
Females	1,102.0	407.6	240.5	400.4	847.2	458.3 (454.2–462.4)
<b>Year</b>						
1993–94	2,968.9	1,375.8	490.3	637.9	1,462.9	956.1 (951.6–960.8)
1994–95	2,838.1	1,122.3	429.6	614.4	1,367.3	873.9 (869.5–878.3)
1995–96	2,688.3	1,098.8	426.4	621.3	1,437.4	871.3 (867.0–875.6)
1996–97	2,575.1	959.8	408.5	616.6	1,601.2	858.0 (853.8–862.3)
1997–98	2,035.5	926.7	410.6	655.6	1,643.6	838.7 (834.5–842.9)
1998–99	2,145.7	868.7	399.3	531.8	1,314.0	745.7 (741.8–749.7)
1999–2000	1,641.7	650.6	344.6	499.1	1,230.2	643.4 (639.8–647.0)
2000–01	1,687.0	717.1	333.2	437.5	1,031.1	603.8 (600.3–607.3)
2001–02	1,423.9	492.1	252.5	389.6	890.8	496.0 (492.9–499.2)
2002–03	1,286.5	410.5	212.3	326.7	820.0	431.1 (428.2–434.0)
2003–04	1,327.3	419.2	212.0	316.3	728.6	419.4 (416.6–422.3)
2004–05	1,318.2	426.1	191.0	299.9	697.2	403.6 (400.8–406.4)
2005–06	1,394.2	399.1	177.4	283.7	661.6	390.2 (387.5–393.0)
2006–07	1,304.3	411.9	156.4	253.7	580.5	355.8 (353.3–358.4)
<b>Remoteness (data for 2006–07)</b>						
Major Cities	1,558.5	478.4	157.0	242.3	594.0	373.1 (369.9–376.3)
Inner Regional	1,305.2	415.5	203.7	277.1	602.1	391.9 (385.9–398.0)
Outer Regional	1,138.5	462.4	238.4	343.4	577.7	419.2 (410.2–428.4)
Remote	839.6	472.7	320.7	409.6	772.7	463.8 (441.3–487.4)
Very Remote	1,041.0	375.8	226.3	615.6	765.7	501.0 (468.1–536.2)
<b>Culturally and linguistically diverse background (data for 2006–07)</b>						
English-speaking background	1,485.0	481.2	200.0	486.5	598.6	408.8 (405.9–411.9)
Non-English-speaking background	880.3	211.8	55.7	267.6	572.8	229.2 (220.2–238.3)
<b>Socioeconomic status (data for 2006–07)</b>						
SEIFA 1 (most disadvantaged)	1,774.8	596.0	258.2	395.9	686.1	521.7 (513.2–530.3)
SEIFA 2	1,599.9	552.0	223.4	346.9	599.9	458.8 (452.6–465.1)
SEIFA 3	1,379.6	437.7	170.4	261.6	561.0	370.0 (364.3–375.9)
SEIFA 4	1,297.0	395.9	152.8	280.0	576.6	328.6 (323.4–333.8)
SEIFA 5 (least disadvantaged)	1,294.0	366.6	110.4	173.7	596.1	296.8 (291.8–301.9)

Notes: Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded. Asthma classified according to International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) code 493 and ICD, 10th Revision, Australian Modification (ICD-10-AM) codes J45 and J46. CI = confidence interval; SEIFA = Socio-economic Indexes for Areas.

Source: AIHW National Hospital Morbidity Database.