

# HEALTH AND MEDICINE

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**H**EALTH HAS BEEN DEFINED by the World Health Organisation as a 'state of complete physical, mental and social well-being, and not merely the absence of disease and infirmity'. Unfortunately, this sensible definition is of little use in statistically examining the history of health in Australia because most of the available statistics refer to illness, injury, death or the provision of medical services. The positive side of health has not usually left its mark on the historical record; the first comprehensive survey of the health status of Australians was not undertaken until 1977–78. For earlier years, only illness and death can be examined from the medical statistics.

Aborigines are an exception even to this generalisation. Their health was not statistically examined before the 1960s and they were not included in the official death statistics until 1971. At present, they are known to have the poorest health of any group in Australia; they suffer from a higher rate of communicable diseases, have higher rates of mortality and considerably shorter life expectancy. Two hundred years ago, their physical health was probably better than that of the first European settlers and convicts. They seem to have been generally well nourished and kept their population in balance with their food supplies.

However, the Aborigines' relative isolation from other societies over thousands of years made them highly vulnerable to the infectious diseases the Europeans brought. The Aboriginal population was reduced not just by warfare but, possibly to an even greater degree, by diseases such as dysentery, cholera, malaria, gonorrhoea and smallpox.

As for the Europeans, they continued to suffer from the diseases they had always known, though living in the country before 1900 was distinctly healthier than living in the cities, especially for the very young. Australia's cities grew rapidly after 1850 but improvements in urban public health were slow; most major cities only set up comprehensive water and sewerage schemes after 1880, and it was not until after 1890 that colonial governments enacted effective public health and pure food acts. They also legislated to register medical personnel. In New South Wales, laws were passed to register medical practitioners in 1898 and to register dentists in 1900.

War, or the threat of war, focused the attention of governments on the need for a healthy population. In the 1900s state governments began to conduct medical inspections of school-children and, after 1910, to promote infant health by encouraging breastfeeding and good hygiene. The medical records of World War I revealed that Australian soldiers suffered from a

high degree of dental disease; nearly 15 800 men were rejected by the armed forces on dental grounds. The war increased the incidence of venereal disease in the postwar years and encouraged the formation of public hygiene groups like the Father and Son movement in the 1930s.

Up to this time, preventive measures and an improved standard of living were the main reasons for the improvement in the health of Australians. These changes were reflected in longer life expectancy. In 1881, a new-born male baby in Australia had a life expectancy of 47 years and a female baby of nearly 51 years, but by the late 1940s male babies could be expected to live to 66 years and female babies to nearly 71 years.

The contribution of medicine to this improvement was comparatively small. Medical knowledge advanced only gradually before the 1930s, and childbirth and operations remained risky. The 1930s saw the introduction of sulphonamide drugs in the treatment of bacterial infections and 1941 saw the advent of penicillin, largely brought about by the work of the Australian scientist Howard Florey. Advances in medicine since 1945 have dramatically reduced the incidence of diseases such as tuberculosis and poliomyelitis.

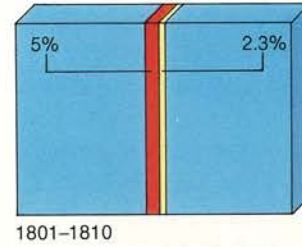
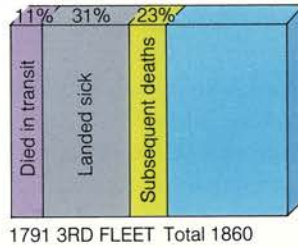
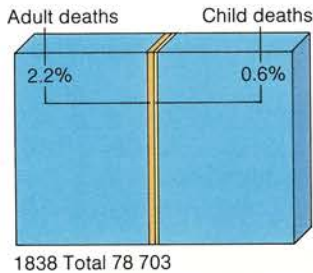
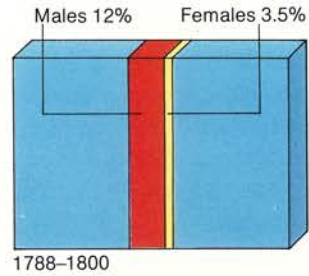
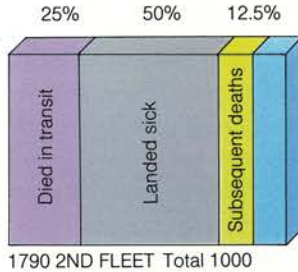
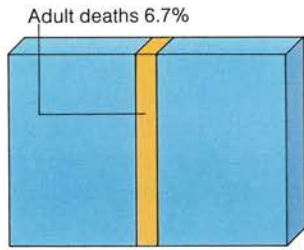
All these developments have meant that modern Australia, along with other advanced Western societies, enjoys a high standard of health. Illness and mortality rates are still influenced by a person's social class, but the more pervasive risk to health comes from bad diet, lack of exercise, tobacco smoking, and high alcohol and salt consumption, that is, aspects of living which individuals can control. As the following tables show, earlier generations of Australians have not been so fortunate.



HM 1-16 DEATHS BY AGE GROUP, NEW SOUTH WALES 1861-1891

Census year	Under 1 year		1-4 years		5-14 years		15-24 years		25-44 years		45-54 years		55-64 years		65 years and over	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	<i>m</i>	<i>f</i>	<i>m</i>	<i>f</i>	<i>m</i>	<i>f</i>	<i>m</i>	<i>f</i>	<i>m</i>	<i>f</i>	<i>m</i>	<i>f</i>	<i>m</i>	<i>f</i>	<i>m</i>	<i>f</i>
1861	9 616	8 197	2369	2110	468	364	500	450	1054	872	1991	1537	3546	2778	9121	6106
1871	9 859	8 088	1431	1364	279	188	458	343	855	808	1721	1223	3200	2497	6715	6241
1881	12 060	10 956	1789	1782	238	244	455	455	1020	904	2047	1611	3390	2742	8993	7624
1891	12 538	11 194	1488	1287	289	266	457	347	858	749	1773	1286	3370	2665	9642	9385

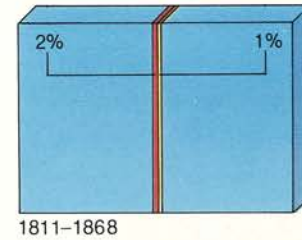
NOTE Per 100 000 per annum.



DEATHS DURING TRANSIT TO AUSTRALIA, ASSISTED MIGRANTS, 1837-1839

CONVICT DEATHS, SECOND AND THIRD FLEETS TO AUSTRALIA, 1790-1792

In 1838 the total migrants in transit included 9269 crew. In addition 95 adults and 100 children died in quarantine.



PERCENTAGE OF CONVICT DEATHS DURING TRANSPORTATION TO AUSTRALIA, 1788-1868

**HM 17-25 DEATHS FROM TUBERCULOSIS, AUSTRALIA  
1908-1980**

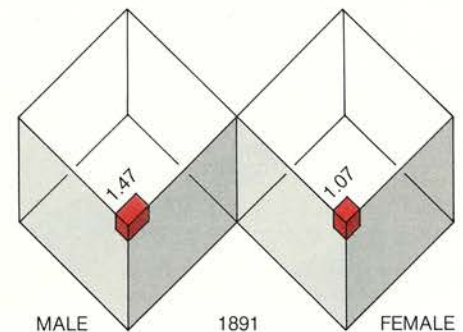
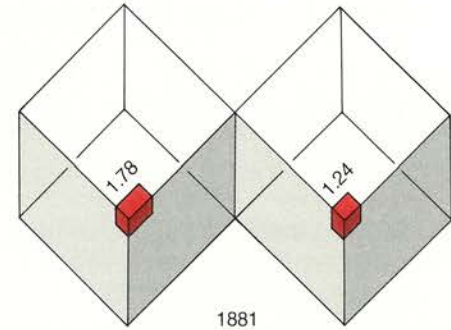
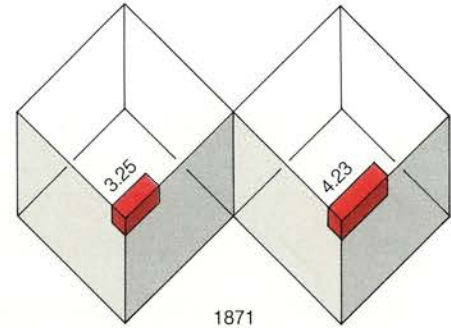
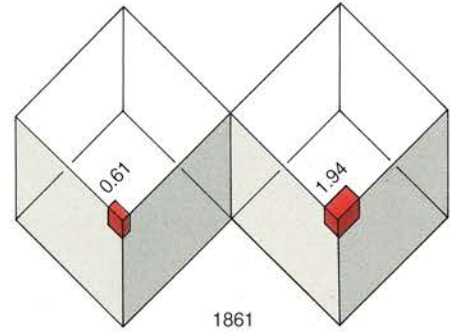
Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	17	18	19	20	21	22	23	24	25
<b>Males</b>									
1908-10	533	157	582	1150	1548	1720	1988	1704	861
1911-20	387	108	529	1104	1365	1587	1612	1276	651
1921-30	244	67	373	844	1056	1337	1335	1138	648
1931-40	155	41	197	447	707	982	1225	1089	677
1941-50	88	24	98	230	435	774	1095	1314	898
1951-60	13	3	11	36	84	209	441	666	727
1961-70	3	0	1	3	16	53	126	285	494
1971-80	1	0	0	1	4	13	23	57	121
<b>Females</b>									
1908-10	418	172	934	1383	1215	956	939	857	468
1911-20	332	128	762	1074	935	745	664	605	358
1921-30	217	76	642	866	667	562	488	478	339
1931-40	133	47	373	607	469	338	372	390	336
1941-50	77	33	190	344	311	242	242	333	298
1951-60	19	2	15	43	67	65	70	114	164
1961-70	2	1	0	3	11	21	30	46	79
1971-80	1	0	0	1	2	5	10	14	23

NOTE Deaths per million per annum.

**HM 26-34 DEATHS FROM SYPHILIS, AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	26	27	28	29	30	31	32	33	34
<b>Males</b>									
1908-10	279	2	10	41	188	282	305	254	243
1911-20	191	4	13	58	177	298	299	257	146
1921-30	80	5	7	35	143	221	247	235	132
1931-40	40	2	5	18	92	178	246	238	156
1941-50	14	1	3	6	26	80	129	143	93
1951-60	3	0	0	2	6	29	109	175	161
1961-70	2	0	0	0	2	5	23	61	68
1971-80	1	0	0	0	0	1	3	11	18
<b>Females</b>									
1908-10	196	3	7	15	42	63	65	78	126
1911-20	155	3	8	14	40	64	64	29	44
1921-30	69	2	6	12	29	52	48	51	39
1931-40	30	2	4	9	21	37	46	46	28
1941-50	9	1	1	3	8	23	30	28	14
1951-60	1	0	0	1	2	9	22	35	67
1961-70	1	0	0	0	1	3	8	18	19
1971-80	2	0	0	0	0	1	1	4	4

NOTE Deaths per million per annum. Excludes aneurysm of the aorta; deaths from this complication cannot be readily identified as, in the official statistics, they were included in the cardiovascular class.



**DEATHS FROM TUBERCULAR DISEASES IN NEW SOUTH WALES, FOR  
SELECTED YEARS**

Figures are for deaths per thousand per annum.

**HM 35-43 DEATHS FROM OTHER INFECTIONS, AUSTRALIA  
1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	35	36	37	38	39	40	41	42	43
<i>Males</i>									
1908-10	9285	574	509	597	579	714	1160	2766	6655
1911-20	8572	611	605	983	946	988	1151	2015	5449
1921-30	5137	335	220	216	312	431	672	1203	3609
1931-40	2273	287	138	142	184	282	456	817	2154
1941-50	1303	183	87	65	94	150	240	449	1092
1951-60	527	67	57	53	52	82	152	273	765
1961-70	151	14	11	13	18	31	43	98	213
1971-80	154	11	8	10	17	29	63	118	356
<i>Females</i>									
1908-10	7999	573	369	360	401	480	856	2474	6737
1911-20	7280	637	436	627	583	649	985	2111	5822
1921-30	4326	313	174	199	251	335	515	1134	3602
1931-40	2058	251	92	120	156	211	328	714	2077
1941-50	1122	140	64	63	77	105	153	334	1189
1951-60	447	56	42	43	37	73	110	178	637
1961-70	133	11	9	13	17	25	37	71	184
1971-80	126	8	5	7	11	23	43	85	291

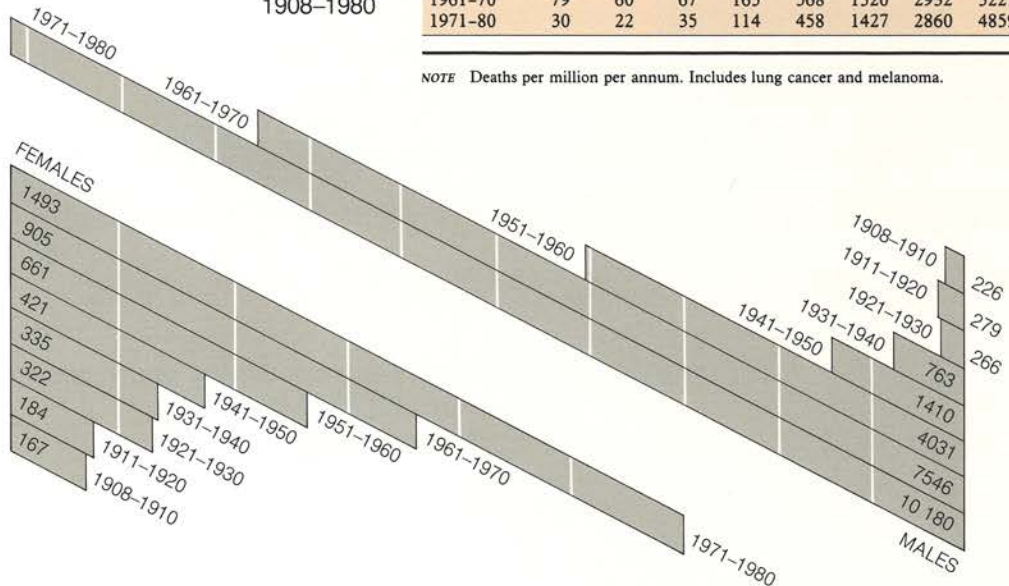
NOTE Deaths per million per annum.

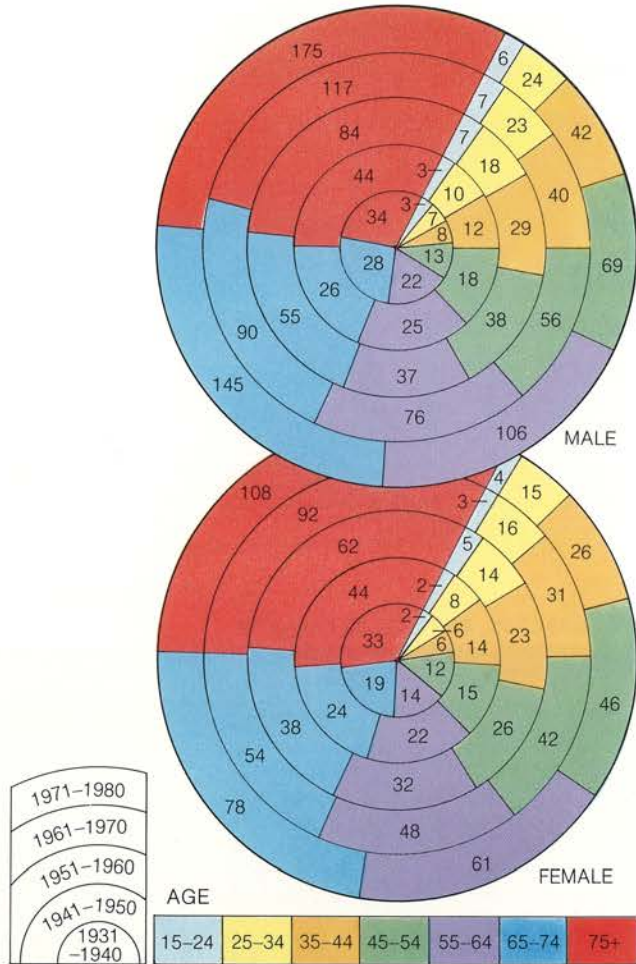
**HM 44-52 DEATHS FROM MALIGNANT TUMOURS,  
AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	44	45	46	47	48	49	50	51	52
<i>Males</i>									
1908-10	43	24	35	74	408	1337	3468	7058	8 674
1911-20	39	17	33	98	351	1396	3762	7006	9 990
1921-30	40	20	36	89	314	1231	3736	7983	11 950
1931-40	33	19	41	98	316	1106	3445	8374	14 085
1941-50	46	26	44	101	295	1074	3242	7871	14 806
1951-60	47	29	53	120	325	1156	3511	7893	15 605
1961-70	97	77	92	168	443	1450	4255	9614	17 148
1971-80	40	25	49	109	360	1480	4339	9756	18 216
<i>Females</i>									
1908-10	42	16	36	138	765	1718	3559	5766	8 001
1911-20	31	12	31	148	648	1805	3447	5757	8 713
1921-30	33	15	27	127	625	1807	3401	6090	9 777
1931-40	34	15	33	130	596	1614	3253	6072	10 539
1941-50	35	22	39	140	562	1530	3124	6013	10 889
1951-60	42	24	35	142	519	1387	2751	5095	10 395
1961-70	79	60	67	165	568	1520	2932	5221	10 095
1971-80	30	22	35	114	458	1427	2860	4859	9 429

NOTE Deaths per million per annum. Includes lung cancer and melanoma.

**TOTAL DEATHS FROM CANCER OF  
THE LUNG, AUSTRALIA  
1908-1980**





DEATHS FROM MELANOMA, AUSTRALIA 1931-1980  
 Figures are per million per annum.

**HM 53-61 DEATHS FROM BENIGN TUMOURS AND LEUKAEMIA, AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	53	54	55	56	57	58	59	60	61
<i>Males</i>									
1908-10	34	20	19	15	14	51	87	122	143
1911-20	25	20	18	19	21	40	67	103	102
1921-30	36	25	20	24	33	57	97	142	154
1931-40	70	51	39	58	90	145	217	251	255
1941-50	74	48	42	54	81	165	238	317	327
1951-60	79	51	53	63	93	176	349	540	643
1961-70	7	2	4	5	10	21	36	64	85
1971-80	41	35	38	44	70	147	347	783	1410
<i>Females</i>									
1908-10	20	6	21	38	92	141	181	291	430
1911-20	18	9	14	42	84	112	127	193	321
1921-30	28	14	18	38	98	143	120	195	306
1931-40	66	34	34	56	133	206	184	204	264
1941-50	69	35	31	59	108	182	200	257	317
1951-60	70	40	32	54	88	153	244	390	499
1961-70	9	4	3	9	16	29	38	55	83
1971-80	33	30	24	32	51	113	259	492	883

NOTE Deaths per million per annum.

**HM 62-70 DEATHS FROM GLANDULAR, NUTRITIONAL AND METABOLIC DISEASES, AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	62	63	64	65	66	67	68	69	70
<i>Males</i>									
1908-10	70	20	42	44	48	77	66	76	66
1911-20	164	32	69	53	60	80	125	146	173
1921-30	179	28	40	33	41	64	76	116	137
1931-40	82	17	20	20	32	52	70	79	114
1941-50	120	12	7	9	18	34	54	62	83
1951-60	33	3	2	7	12	27	60	93	174
1961-70	45	15	22	29	82	167	284	466	792
1971-80	36	11	7	5	14	34	59	132	248
<i>Females</i>									
1908-10	51	18	46	73	93	103	79	73	101
1911-20	122	24	46	86	114	131	122	139	162
1921-30	152	17	40	71	95	149	160	186	221
1931-40	69	14	30	49	78	155	178	210	227
1941-50	102	11	17	32	47	80	136	164	181
1951-60	32	2	5	13	20	31	70	126	230
1961-70	49	12	17	33	64	114	168	266	665
1971-80	34	9	6	7	12	26	55	117	263

NOTE Deaths per million per annum. Excluding diabetes (see HM 71-79).

**HM 71-79 DEATHS FROM DIABETES, AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	71	72	73	74	75	76	77	78	79
<i>Males</i>									
1908-10	10	20	25	42	69	110	389	656	574
1911-20	9	22	35	49	71	132	307	634	818
1921-30	14	20	26	31	44	115	316	647	862
1931-40	9	15	14	19	39	92	335	838	1435
1941-50	6	7	10	14	31	93	312	837	1614
1951-60	2	1	5	10	18	56	203	591	1239
1961-70	1	1	2	10	30	73	257	775	1730
1971-80	1	1	2	8	28	70	248	712	1801
<i>Females</i>									
1908-10	1	22	22	28	62	146	549	1002	948
1911-20	10	26	26	42	62	179	529	1065	1084
1921-30	11	22	30	34	55	171	545	1266	1339
1931-40	6	13	22	21	51	172	628	1579	2266
1941-50	5	9	17	22	35	132	587	1676	2586
1951-60	2	2	7	9	17	66	296	979	1818
1961-70	2	2	4	8	18	52	263	887	2031
1971-80	2	1	3	8	18	48	180	649	1730

NOTE Deaths per million per annum.

*‘But it’ll be a fine country to starve in.’ Edward Shann in conversation with a student on the South Perth ferry, just before the Great Depression. The phrase was subsequently used by Geoffrey Bolton for the title of his book on Australia during the depression years.*

**HM 80-88 DEATHS FROM BLOOD DISEASES, AUSTRALIA  
1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	80	81	82	83	84	85	86	87	88
<b>Males</b>									
1908-10	49	15	13	17	54	137	233	290	221
1911-20	22	9	8	17	45	136	294	306	242
1921-30	23	6	10	13	31	108	247	369	266
1931-40	74	10	10	9	16	30	108	263	420
1941-50	32	9	7	7	12	19	61	181	493
1951-60	18	4	7	4	6	17	58	179	563
1961-70	15	5	3	4	7	15	44	137	447
1971-80	7	3	4	3	3	7	28	86	377
<b>Females</b>									
1908-10	32	9	35	77	86	114	257	196	190
1911-20	19	7	18	45	70	155	263	341	190
1921-30	18	6	12	22	52	127	271	455	330
1931-40	53	10	11	15	24	52	119	311	442
1941-50	24	7	8	10	16	34	73	218	613
1951-60	17	6	7	8	13	28	71	190	692
1961-70	13	4	5	5	9	15	40	127	465
1971-80	6	2	2	2	4	9	28	62	340

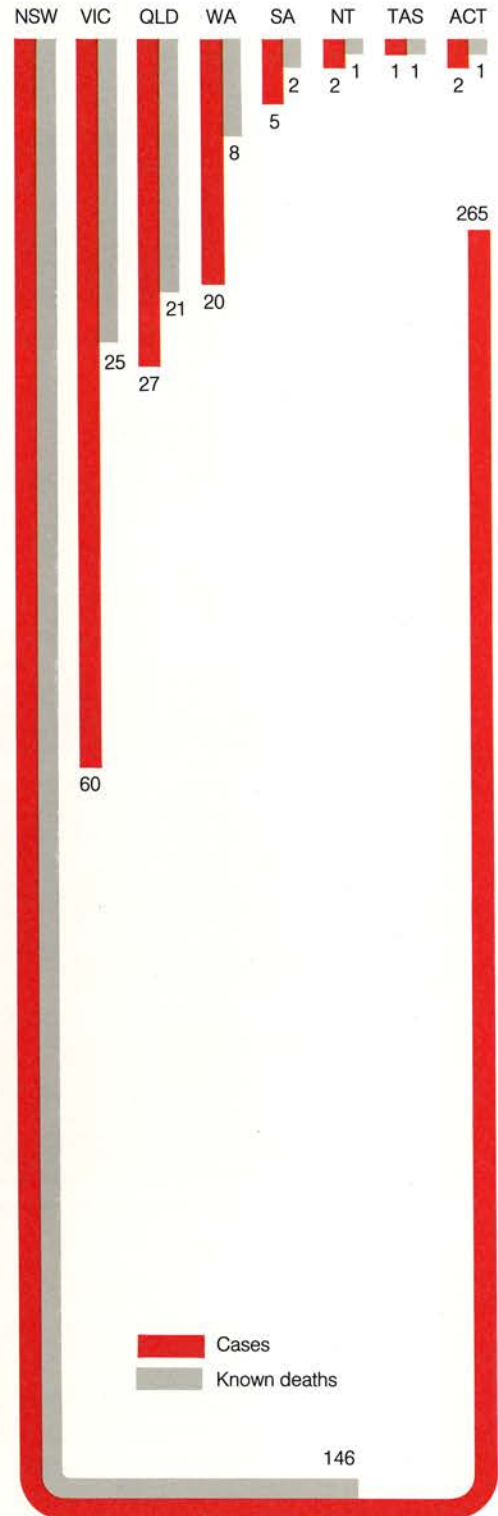
NOTE Deaths per million per annum. Include diseases of the blood and of the blood forming organs.

**HM 89-97 DEATHS FROM MENTAL AND NERVOUS DISEASES,  
AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	89	90	91	92	93	94	95	96	97
<b>Males</b>									
1908-10	1342	89	152	220	411	910	2382	5853	12 316
1911-20	962	96	139	209	398	995	2499	5547	11 979
1921-30	476	88	118	172	305	750	1937	4746	10 998
1931-40	213	62	93	116	225	523	1355	3541	8 547
1941-50	168	49	78	107	245	800	2280	5671	13 782
1951-60	127	33	63	112	277	843	2588	7075	19 668
1961-70	130	28	46	58	165	449	1408	4636	14 167
1971-80	90	18	58	54	97	209	338	634	1 741
<b>Females</b>									
1908-10	1073	79	138	179	407	886	2233	5867	12 184
1911-20	770	83	115	176	346	966	2162	5502	12 641
1921-30	375	73	100	154	309	805	1943	4930	12 771
1931-40	167	51	72	99	219	620	1437	3807	10 145
1941-50	142	32	54	100	293	1037	2367	6145	16 834
1951-60	111	26	42	83	280	952	2269	6616	22 374
1961-70	94	22	29	51	167	484	1155	3894	15 095
1971-80	67	18	28	33	69	125	221	401	1 291

NOTE Deaths per million per annum.

**ACQUIRED IMMUNE DEFICIENCY SYNDROME  
(AIDS), CASES AND KNOWN DEATHS IN  
AUSTRALIA TO JANUARY 1987**





HM 98-106 DEATHS FROM RESPIRATORY DISEASES,  
AUSTRALIA 1908-80

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	98	99	100	101	102	103	104	105	106
<i>Males</i>									
1908-10	2662	161	218	335	719	1290	2475	6794	17 249
1911-20	2781	173	248	424	817	1501	2750	6062	19 165
1921-30	2458	146	198	289	625	1357	2399	5115	16 597
1931-40	1833	130	150	204	432	913	2061	4189	13 597
1941-50	1250	69	72	90	199	548	1442	3585	11 797
1951-60	692	44	45	60	137	419	1429	3859	12 419
1961-70	565	27	31	43	114	375	1445	4713	14 330
1971-80	289	19	29	37	91	341	1234	4259	14 319
<i>Females</i>									
1908-10	2112	147	158	262	462	715	1431	5307	15 256
1911-20	2273	159	175	297	437	678	1444	4719	16 473
1921-30	2028	137	155	244	400	577	1203	3719	14 973
1931-40	1487	116	125	190	296	471	947	2765	11 248
1941-50	1031	69	82	103	165	318	646	1982	9 570
1951-60	585	42	52	67	111	192	445	1286	7 158
1961-70	456	25	24	40	82	169	372	1061	5 979
1971-80	216	14	24	33	71	192	437	1042	4 954

NOTE Deaths per million per annum. Excluding influenza.

HM 107-115 DEATHS FROM CIRCULATORY DISEASES,  
AUSTRALIA 1908-1980

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	107	108	109	110	111	112	113	114	115
<i>Males</i>									
1908-10	125	114	235	315	812	1 841	4 885	12 357	23 573
1911-20	97	139	224	349	773	1 997	5 157	11 950	25 587
1921-30	65	92	145	249	624	1 859	5 133	13 153	31 182
1931-40	48	57	114	202	639	2 363	7 282	19 365	51 302
1941-50	38	37	90	177	665	2 906	8 849	22 574	59 936
1951-60	36	11	46	144	693	3 058	9 714	24 047	65 058
1961-70	25	11	31	124	867	3 685	10 945	27 460	71 382
1971-80	25	11	41	139	825	3 445	10 176	25 626	74 955
<i>Females</i>									
1908-10	125	156	247	367	736	1431	3 685	10 178	19 857
1911-20	83	138	244	395	697	1491	3 453	9 291	21 283
1921-30	57	92	146	267	565	1300	3 506	10 160	27 507
1931-40	46	61	122	195	496	1484	4 337	13 795	43 960
1941-50	39	37	84	153	417	1351	4 006	13 510	49 114
1951-60	31	14	36	86	285	1061	3 875	12 633	50 666
1961-70	24	8	27	77	314	1155	4 196	14 430	55 708
1971-80	26	9	27	85	392	1310	4 103	13 799	63 341

NOTE Deaths per million per annum.

‘*ATKINSON, J. lines 17-18 for died in infancy, read lived to a ripe old age in Orange.*’ *Corrigenda, Australian dictionary of biography, vol 1:1788-1850*  
A-H. Mr. Peter Porter’s comment on this correction was: ‘*It makes you wonder which you’d prefer.*’

**HM 116-124 DEATHS FROM DISEASES OF THE DIGESTIVE SYSTEM, AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	116	117	118	119	120	121	122	123	124
<b>Males</b>									
1908-10	432	186	194	236	424	781	1378	2746	3962
1911-20	616	140	188	237	408	764	1264	2030	3692
1921-30	440	115	189	213	391	736	1253	1830	3086
1931-40	309	111	157	191	380	727	1186	1911	2930
1941-50	241	75	67	96	232	592	1128	1814	3105
1951-60	144	20	27	55	153	413	915	1681	3293
1961-70	199	12	16	34	129	338	668	1342	3015
1971-80	38	4	9	33	148	441	713	1147	2530
<b>Females</b>									
1908-10	318	157	186	268	408	682	1297	2402	3817
1911-20	456	154	156	239	383	616	1025	2004	3888
1921-30	327	120	123	192	316	544	900	1607	3125
1931-40	231	96	92	146	243	450	761	1336	2794
1941-50	162	63	63	90	169	337	609	1083	2323
1951-60	98	20	29	50	115	230	468	904	2284
1961-70	157	11	17	28	74	185	317	730	2187
1971-80	31	3	8	20	64	175	332	586	1893

NOTE Deaths per million per annum.

**HM 125-133 DEATHS FROM DISEASES OF THE GENITO-URINARY SYSTEM, AUSTRALIA 1908-1980**

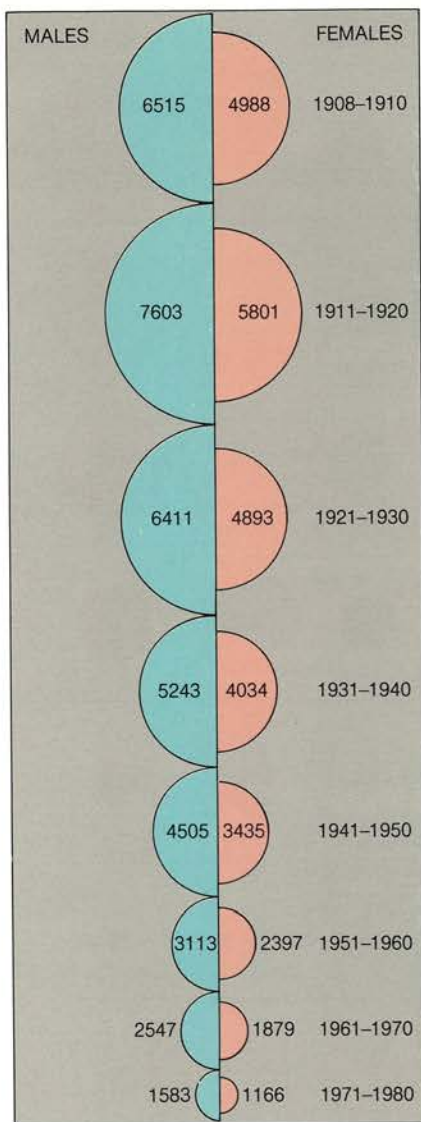
Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	125	126	127	128	129	130	131	132	133
<b>Males</b>									
1908-10	112	36	122	169	474	1022	2371	5711	11 952
1911-20	137	46	133	231	417	1055	2350	5444	12 474
1921-30	103	45	117	196	362	863	2100	5269	12 991
1931-40	104	28	99	160	318	764	1841	4938	14 325
1941-50	65	33	66	134	227	576	1379	3810	12 614
1951-60	33	13	40	71	130	261	599	1694	6 394
1961-70	19	5	18	34	66	158	380	1087	4 099
1971-80	8	2	5	10	24	69	178	568	2 586
<b>Females</b>									
1908-10	109	44	159	297	508	787	1463	2508	3 438
1911-20	99	48	174	308	429	717	1279	2322	3 888
1921-30	103	43	159	297	470	728	1306	2833	5 300
1931-40	93	42	138	250	439	703	1215	2928	6 722
1941-50	41	31	71	164	311	546	857	1946	5 569
1951-60	24	15	31	67	155	257	362	653	1 675
1961-70	12	7	13	42	114	234	360	630	1 641
1971-80	6	2	5	11	46	113	214	396	1 362

NOTE Deaths per million per annum.



**DEATHS AS RESULT OF PREGNANCY, AUSTRALIA 1908-1980**

Figures are for deaths per million per annum. Includes complications of pregnancy, childbirth and the puerperium.



DEATHS FROM CONGENITAL ABNORMALITIES, AUSTRALIA 1908-1980

Figures are for deaths per million per annum.

HM 134-142 DEATHS FROM SKIN DISEASES, AUSTRALIA 1908-1980

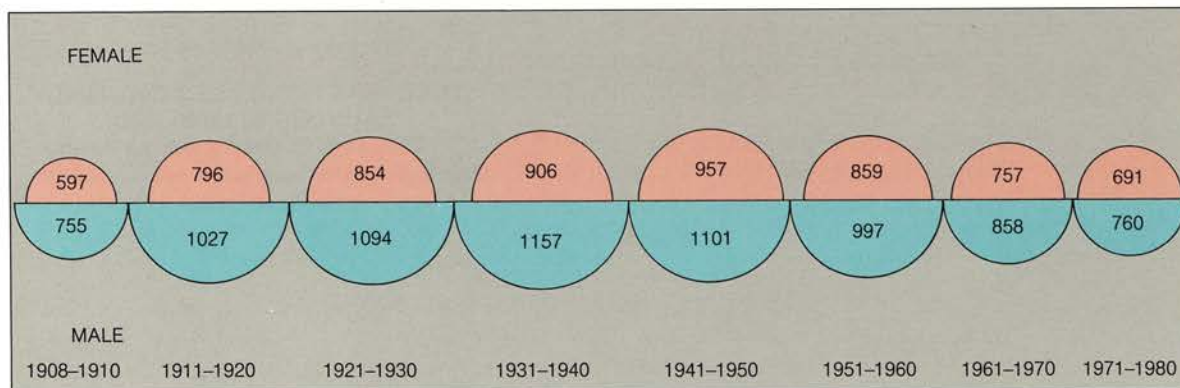
Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	134	135	136	137	138	139	140	141	142
<i>Males</i>									
1908-10	112	8	7	19	28	66	135	402	1424
1911-20	85	8	11	15	26	50	112	343	1468
1921-30	85	10	20	18	28	41	94	213	1051
1931-40	48	9	11	12	18	26	47	104	239
1941-50	21	3	3	3	4	12	19	48	148
1951-60	19	1	2	2	4	12	20	63	191
1961-70	5	1	1	1	3	6	15	35	131
1971-80	4	0	0	1	1	3	7	18	75
<i>Females</i>									
1908-10	86	7	16	22	20	49	126	420	1226
1911-20	76	4	10	12	19	32	96	288	1224
1921-30	64	8	18	21	22	34	64	166	843
1931-40	39	4	14	16	16	24	37	73	225
1941-50	17	2	3	5	5	9	18	47	155
1951-60	12	2	3	4	7	14	22	47	215
1961-70	3	1	1	3	4	6	13	29	133
1971-80	2	0	0	0	1	3	6	16	85

NOTE Deaths per million per annum. Includes diseases of subcutaneous tissue.

HM 143-151 DEATHS FROM MUSCULO-SKELETAL DISEASES, AUSTRALIA 1908-1980

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	143	144	145	146	147	148	149	150	151
<i>Males</i>									
1908-10	48	30	12	9	8	16	18	61	88
1911-20	27	25	10	8	8	12	32	39	50
1921-30	43	49	16	11	10	20	32	46	87
1931-40	40	46	18	16	16	26	37	68	120
1941-50	10	10	6	5	7	10	19	45	105
1951-60	14	5	7	3	6	10	34	84	255
1961-70	7	3	8	1	5	20	61	130	384
1971-80	1	1	1	2	5	16	52	130	416
<i>Females</i>									
1908-10	16	17	4	7	11	14	14	50	51
1911-20	22	11	2	5	4	6	12	26	31
1921-30	39	24	4	4	7	9	20	43	76
1931-40	26	26	6	5	5	11	15	37	67
1941-50	10	4	2	3	4	8	16	40	94
1951-60	11	2	2	3	4	10	36	96	309
1961-70	6	2	3	4	7	18	59	153	498
1971-80	1	1	3	6	11	23	63	162	550

NOTE Deaths per million per annum. Includes diseases of the connective tissues.



PERI-NATAL DEATHS, AUSTRALIA 1908-1980

Figures are for deaths per million per annum for children up to four years of age.

**HM 152-160 DEATHS FROM SYMPTOMS, SIGNS AND ILL DEFINED CONDITIONS, AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	152	153	154	155	156	157	158	159	160
<b>Males</b>									
1908-10	663	29	21	54	141	338	1190	7795	50 456
1911-20	151	25	30	56	128	347	1270	7761	57 288
1921-30	64	14	19	36	86	232	839	4497	37 145
1931-40	30	4	6	10	32	94	299	1861	18 143
1941-50	26	4	6	8	23	61	181	997	12 535
1951-60	30	2	6	10	15	29	72	288	4 737
1961-70	34	2	9	12	19	29	46	120	1 321
1971-80	312	3	15	15	20	38	40	78	587
<b>Females</b>									
1908-10	687	13	32	45	88	208	733	5514	43 303
1911-20	146	18	24	47	88	190	609	5398	50 123
1921-30	59	12	17	32	60	122	383	2848	33 763
1931-40	26	2	7	5	11	32	110	1176	17 536
1941-50	27	3	5	8	13	22	63	575	10 988
1951-60	24	2	3	8	7	16	27	164	4 330
1961-70	25	1	5	8	12	18	23	88	1 387
1971-80	207	2	7	8	14	18	19	57	589

NOTE Deaths per million per annum.

**HM 161-169 DEATHS FROM CHRONIC POISONING, AUSTRALIA 1908-1980**

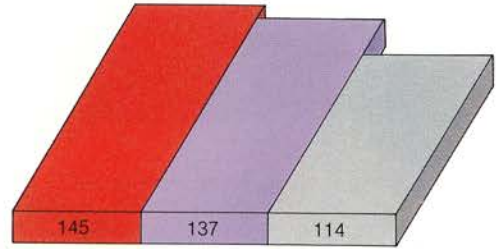
Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	161	162	163	164	165	166	167	168	169
<b>Males</b>									
1908-10	1	2	3	47	142	194	248	229	132
1911-20	1	2	3	45	130	213	244	189	102
1921-30	2	1	3	28	69	109	123	137	57
1931-40	1	1	3	6	22	40	48	56	32
1941-50	1	0	2	7	30	62	69	74	30
<b>Females</b>									
1908-10	1	2	2	14	51	52	51	62	25
1911-20	1	1	2	14	31	51	46	53	6
1921-30	3	1	1	6	15	25	22	29	9
1931-40	0	1	4	4	9	7	10	8	7
1941-50	0	0	1	4	12	21	17	21	4

NOTE Deaths per million per annum. Deaths from chronic poisonings included in HM 170-178 after 1950.

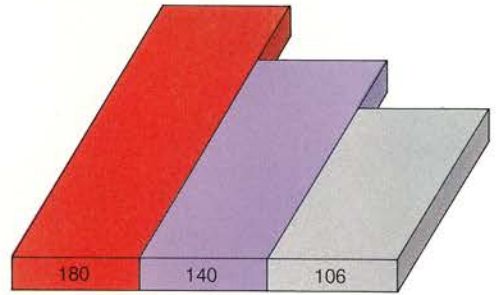
**HM 170-178 DEATHS FROM INJURY AND POISONING, AUSTRALIA 1908-1980**

Age group	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
	170	171	172	173	174	175	176	177	178
<b>Males</b>									
1908-10	1000	446	809	996	1411	1757	2341	2593	3487
1911-20	748	429	793	1069	1276	1697	2039	2364	3361
1921-30	670	402	844	984	1128	1436	1711	1989	3238
1931-40	661	394	937	889	978	1231	1532	1851	3534
1941-50	587	363	768	645	771	977	1284	1742	3716
1951-60	515	277	1172	1009	920	1068	1351	1753	3889
1961-70	454	242	1156	969	1006	1131	1288	1609	3247
1971-80	402	213	1302	862	835	922	994	1202	2830
<b>Females</b>									
1908-10	803	230	199	196	255	310	455	1002	2477
1911-20	602	166	174	207	239	301	374	674	2486
1921-30	488	167	165	186	210	285	360	630	2311
1931-40	486	140	177	184	204	280	346	728	3103
1941-50	375	129	144	144	172	238	334	698	3621
1951-60	362	118	184	176	227	326	418	740	3796
1961-70	339	115	292	248	337	467	544	830	3036
1971-80	286	108	333	239	286	371	430	597	2474

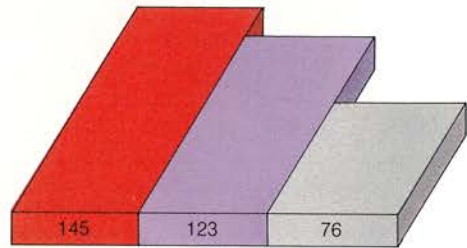
NOTE Deaths per million per annum.



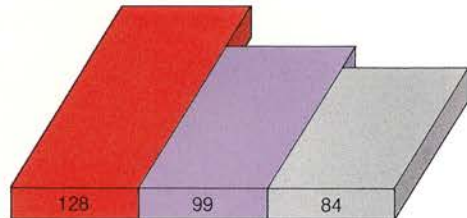
1866-1875



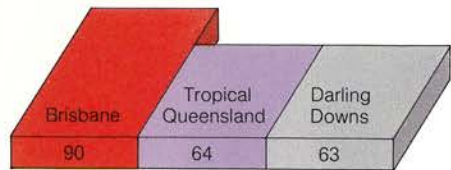
1876-1885



1886-1895



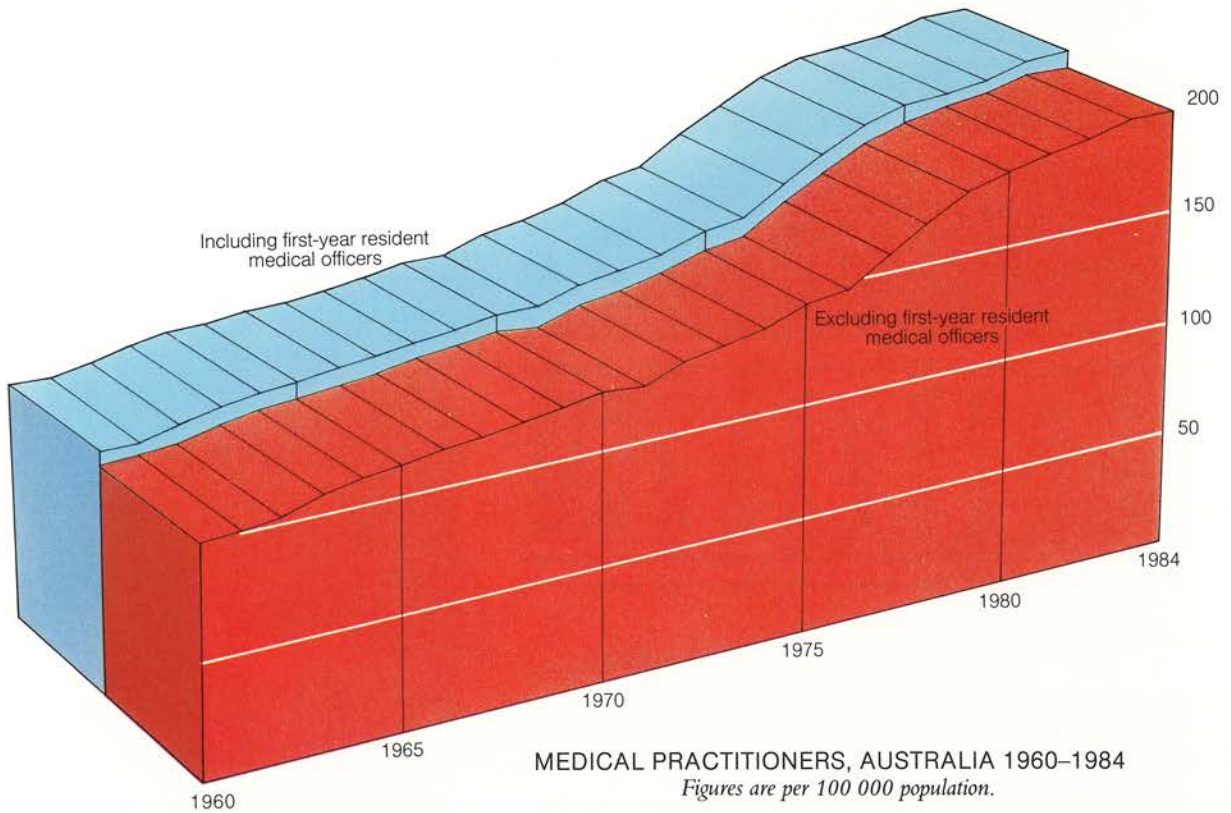
1896-1905



1906-1915

**INFANT MORTALITY, QUEENSLAND 1866-1915**

Figures are for children under the age of one year.



**HM 179-184 PUBLIC HOSPITALS, NEW SOUTH WALES 1891-1980**

Year 31 Dec	Hospitals	Beds	IN-PATIENTS		STAFF	
			Total	Daily average	Medical	Non- medical
	179	180	181	182	183	184
1891	91	2 181	15 632			
1896	107	2 975	26 697			
1901	118	3 391	33 012			
1906	134	4 252	41 552			
1911	141	5 048	56 564			
1916	151	6 065	75 856			
1921	154	7 172	97 034			
1926	161	8 245	131 003			
1931	..	..	..	6 610		
1936	172	12 223	199 484	8 621	2331	3 597
1941	210	15 769	264 509	11 578	2517	5 805
1946	223	17 340	294 586	12 003	2788	6 485
1951	255	18 536	362 665	13 547	3750	9 065
1956	264	20 200	414 132	14 236	4518	11 035
1961	268	23 135	494 109	16 218	5992	14 141
1966	263	24 587	555 843	17 666	7227	17 168
1971	265	26 354	682 220	19 606	8025	21 597
1976	282	28 577	797 734	20 893		
1980	284	29 024	926 822	21 258		

NOTE See chapter 2, especially POP 17-25, for population totals of each state in selected years.

**HM 185-189 PUBLIC HOSPITALS, VICTORIA 1856-1981**

Year 31 Dec	Hospitals	Beds	STAFF		
			In- patients	Medical	Non- medical
	185	186	187	188	189
1856	9				
1861	19	926	7 610		
1866	25	1 414	10 183		
1871	31	1 820	13 087		
1876	35	2 186	15 827		
1881	37	2 350	16 828		
30 June					
1886	41	2 483	17 993		
1891	42	2 672	19 800		
1896	48	2 900	19 969		
1901	50	3 231	23 442		..
1906	52	3 512	28 522		619
1911	55	3 897	36 292	70	710
1916	57	4 191	44 285	86	934
1921	60	4 845	50 517	104	1 076
1926	60	5 188	56 742	148	1 360
1931	65	4 597	73 028	178	1 962
1936	66	6 882	91 919	215	3 070
1941	67	7 827	109 716	251	3 753
1946	75	9 204	129 109	335	4 550
1951	98	10 128	170 554 <sup>a</sup>	572	6 174
1956	125	11 819	222 986	805	9 075
1961	144	13 108	273 988	1 096	11 901
1966	156	13 612	323 631	1 627	14 513
1971	158	17 639	391 938		
1976	160	14 109	455 670		
1981	161	13 879	528 703		

(a) Twelve months to 31 Mar.

HM 190-195 PUBLIC HOSPITALS,  
QUEENSLAND 1861-1981

Year 31 Dec	Hospitals	Beds	IN-PATIENTS		STAFF	
			Total	Daily average	Medical	Non- medical
	190	191	192	193	194	195
1861	6	..	491			
1866	9	219	2 159			
1871	13	399	1 727			
1876	21	610	3 901			
1881	29	941	4 267			
1886	47	1 581	10 554			
1891	52	1 823	11 156			
1896	54	1 942	14 838			
1901	68	2 260	18 043			
1906	72	2 388	18 195			
1911	80	2 679	25 792			
1916	94	3 283	35 116			
1921	94	3 701	43 744			
1926	119	4 755	63 288			
1931	122	5 690	72 485	3310	348	2 961
1936	119	6 434	95 571	3892	352	3 307
1941	118	7 607	124 356	3801	371	4 519
1946	119	8 293	147 387	4882	360	5 415
1951	131	9 244	168 412	5549	420	7 220
1956	140	10 705	200 369	6677	616	8 424
1961	139	12 376	221 804	6732	881	11 762
1966	143	13 273	254 865	7497	994	13 269
1971	140	12 308	277 130	6738	622	12 718
1976	142	12 820	323 150	7846	965	16 706
1981	155	14 242	385 975			

HM 202-206 HOSPITALS, TASMANIA  
1866-1981

Year 31 Dec	Hospitals	Beds	IN-PATIENTS			Staff
			Total	Daily average		
	202	203	204	205	206	
1866	3	..	1 321			
1871	3	..	1 231			
1876	2	200	1 568			
1881	3	250	1 534			
1886	6	260	1 967			
1891	8	311	2 628			
1896	10	344	2 355			
1901	13	465	3 414			
<i>30 June</i>						
1906	13	432	3 473			
1911	13	501	4 187			
1916	22	661	8 094			
1921	21	723	9 917	471	402	
1926	..	..	..	1464	417	
1931	84	1507	19 493	1821	617	
1936	86	1703	23 613	1970	716	
1941	67	2075	29 512	2231	831	
1946	52	2028	31 915	1884	1005	
1951	16	1438	25 345	2536	1356	
1956	17	1404	26 597	878	833	
1961	20	1531	30 544	1009	1012	
1966	20	1766	33 762	1234	1532	
1971	21	2203	48 209	1421	1912	
1976	22	2299	59 363	1538	2354	
1981	22	2223	57 582	1419		

NOTES Figures 1931 onwards include private hospitals. Before 1951, figures include public hospitals, homeopathic hospitals, cottage and district hospitals, sanatoriums, hospitals for infectious diseases, hospitals for women, and private hospitals for general cases.

HM 196-201 PUBLIC HOSPITALS,  
SOUTH AUSTRALIA 1846-1981

Year 31 Dec	Hospitals	Beds	IN-PATIENTS		STAFF	
			Total	Daily average	Medical <sup>a</sup>	Non- medical <sup>b</sup>
	196	197	198	199	200	201
1846	1		77			
1851	1		413			
1856	1		559	66		
1861	1		795	89		
1866	1		1 257	138		
1871	1		1 433	141		
1876	1		2 282	169		
1881	1		2 258	159		
1886	1		2 022	174		
1891	1		2 301	192		
1896	1		2 633	225		
1901	1		3 554	250		
1906	9		4 476	323		
1911	21	942	8 547	636	93	408
1916	27	1085	12 453	735	101	521
1921	31	1395	15 642	1005	129	688
1926	45	1775	22 438	1160	164	987
1931	51	2082	26 505	1373	206	1 156
1936	52	2184	34 014	1653	306	1 399
1941	55	2363	40 593	1918	305	1 905
<i>30 June</i>						
1946	58	2826	46 696	2160	447	2 324
1951	60	3127	57 401	2326	449	3 127
1956	65		69 295	2530	575	3 856
1961	65		87 386	2758	731	5 566
1966	67		111 313	3295	984	7 314
1971	67		135 927	3779	1025	10 485
1976	73		179 733	4207	1079	15 078
1981	81		228 593	4534	940	14 276

NOTE Until 1901 figures cover the Royal Adelaide Hospital only. Mental hospitals are excluded throughout.

(a) Includes honorary doctors, medical officers and salaried doctors.  
(b) Includes nurses and orderlies.

HM 207-212 HOSPITALS, WESTERN  
AUSTRALIA 1936-1981

Year 30 June	Hospitals	Beds	IN-PATIENTS		STAFF	
			Total	Daily average	Medical	Non- medical
	207	208	209	210	211	212
1936	94	3110	37 045	1749	157	886
1941	88	3479	48 808	1800	123	1185
1946	87	3479	54 114	2017	155	1218
1951	94	4015	69 477	2616	296	1781
1956	95	4291	78 547	2648	416	2376
1961	91	4590	90 349	2948	137	3215
1966	97	5491	120 430	3588	228	3827
1971	101	7238	159 244	5112	393	5622
1976	107	7984	206 550	5716	759	7339
1981	106	7918	235 285			