

STATISTICAL **TABLES**

Table 1: Death rates for cardiovascular diseases and all causes of death by age, 1997

Disease	Sex	Age group										All ages ^(a)
		< 25	25-34	35-44	45-54	55-59	60-64	65-69	70-74	75-84	85+	
Rate per 100,000 population												
Coronary heart disease	Male	0.1*	3.0	19.6	69.8	160.1	303.6	521.5	877.7	1,836.4	4,538.4	183.1
	Female	0.0	1.1*	3.6	14.3	45.0	100.0	187.1	410.0	1,133.0	3,867.6	101.4
Heart failure	Male	**	**	**	1.1*	2.8*	6.7	15.5	28.8	141.4	675.1	13.1
	Female	0.0	0.0	**	0.4*	1.7*	5.8	8.0	19.8	107.2	716.9	11.3
Peripheral vascular disease	Male	**	**	0.6*	2.0	6.9	17.8	38.9	78.6	171.6	400.1	15.0
	Female	0.0	**	0.3*	0.8*	2.4*	8.0	17.1	27.4	82.4	245.5	7.1
Rheumatic fever and rheumatic heart disease	Male	**	0.4*	0.4*	0.7*	2.1*	2.5*	3.9*	4.6*	14.1	26.6	1.5
	Female	**	0.3*	0.5*	1.0*	3.1*	3.6*	5.1	8.8	19.8	26.2	1.9
Stroke	Male	0.4*	1.9	4.1	14.1	26.1	56.3	114.4	230.2	664.0	2,000.4	59.0
	Female	0.3*	1.9	3.5	9.4	19.5	29.5	74.8	162.6	592.6	2,343.2	53.0
<i>All cardiovascular disease</i>	<i>Male</i>	<i>2.0</i>	<i>9.6</i>	<i>29.7</i>	<i>102.7</i>	<i>231.7</i>	<i>439.0</i>	<i>765.2</i>	<i>1,351.2</i>	<i>3,130.8</i>	<i>8,665.7</i>	<i>305.5</i>
	<i>Female</i>	<i>1.0</i>	<i>5.3</i>	<i>11.0</i>	<i>31.4</i>	<i>86.5</i>	<i>168.1</i>	<i>336.3</i>	<i>715.8</i>	<i>2,196.0</i>	<i>8,205.9</i>	<i>200.2</i>
All causes of death	Male	77.5	131.3	168.3	342.5	703.3	1,271.2	2,103.2	3,492.8	7,058.3	17,398.6	790.1
	Female	43.2	52.2	90.6	215.0	431.9	684.6	1,134.4	1,917.1	4,480.9	14,463.0	494.5

* Rates should be interpreted with caution as the relative standard errors are between 25% and 50%.

** Rates are not presented as relative standard errors are greater than 50%.

(a) Age-standardised to the 1991 Australian population.

Source: AIHW National Mortality Database.

Table 2: Hospital rates for cardiovascular diseases by age, 1996–97

Disease	Sex	Age group									All ages ^(a)
		< 4	5–14	15–24	25–34	35–44	45–54	55–64	65–74	75+	
Rate per 100,000 population											
Coronary heart disease	Male	0.6*	**	2.4	44.7	383.5	1,480.9	3,326.6	5,279.8	5,493.8	1,115.3
	Female	**	0.5*	0.8*	12.7	87.3	417.4	1,254.1	2,542.6	3,652.5	503.2
Heart failure	Male	9.6	0.4*	2.9	7.0	20.5	72.9	300.8	996.2	2,957.0	241.1
	Female	8.4	1.0*	1.7	4.2	9.6	33.9	164.9	611.3	2,529.9	167.0
Peripheral vascular disease	Male	1.2*	0.3*	2.9	7.8	10.2	39.8	192.8	581.3	932.0	105.1
	Female	**	0.9*	1.9	3.6	9.1	21.1	63.6	210.0	391.1	41.4
Rheumatic fever and rheumatic heart disease	Male	0.9*	4.7	4.7	2.5	4.8	5.8	16.1	26.0	32.4	7.9
	Female	1.0*	4.3	4.0	5.4	7.7	12.7	30.4	41.3	33.8	11.8
Stroke	Male	7.4	3.2	9.0	20.5	51.0	165.4	505.7	1,437.1	3,111.6	312.4
	Female	4.9	3.8	9.2	20.0	47.2	117.4	305.9	876.7	2,434.2	214.2
All cardiovascular disease	Male	84.6	47.1	161.0	438.1	1,090.4	2,849.7	6,222.8	11,460.7	16,857.1	2,651.9
	Female	59.7	36.2	137.5	426.4	826.7	1,624.5	3,368.0	6,727.6	12,598.2	1,692.9

* Rates should be interpreted with caution as the relative standard errors are between 25% and 50%.

** Rates are not presented as relative standard errors are greater than 50%.

(a) Age-standardised to the 1991 Australian population.

Source: AIHW National Hospital Morbidity database.

Table 3: Cardiovascular disease risk factors by age, 1995

Risk factor	Sex	Age group							
		18–24	25–34	35–44	45–54	55–64	65–74	75+ 18+ ^(a)	
		Per cent							
Diabetes type 2	Male	0.0 ^(b)	0.1*	0.8	2.7	5.3*	8.7	8.7*	1.9 ^(c)
	Female	0.2 ^{(b)*}	0.4*	0.6	2.2	4.1	6.6*	6.8	1.5 ^(c)
High blood cholesterol ^(d)	Male	18.1 ^(e)	32.4	52.7	66.7	60.5	61.7 ^(f)	—	46.6 ^(g)
	Female	17.2 ^(e)	32.2	30.9	52.3	66.7	97.0 ^(f)	—	38.6 ^(g)
High blood pressure ^(h)	Male	2.5*	3.7	9.6	20.2	34.3*	45.3*	49.0*	17.3
	Female	0.6	0.9*	4.3	15.1*	32.2*	46.8	60.8*	15.0
Overweight	Male	35.6	58.1	66.0	75.6	75.6	70.5	60.1	63.1
	Female	25.9	33.9	44.4	56.4	66.5	62.1	53.1	47.8
Physical inactivity	Male	24.1	30.7	35.9	38.6	38.4	35.7	45.5	33.5
	Female	27.4	30.0	34.2	34.7	36.9	43.6	54.1	33.8
Smoking	Male	29.7	34.4	29.7	25.6	21.6*	16.4	10.0	27.1
	Female	26.8	**	21.3	18.2	16.0	10.6	6.1	20.3

* Rates should be interpreted with caution as the relative standard errors are between 25% and 50%.

** Rates are not presented as relative standard errors are greater than 50%.

(a) Age-standardised to the 1991 Australian population.

(b) Data available only for 15–24-year-olds.

(c) Also includes data from people less than 18 years.

(d) Most recent data are from 1989. High blood cholesterol is defined as ≥ 5.5 mmol/L.

(e) Data available only for 20–24-year-olds.

(f) Data available only for 65–69-year-olds.

(g) Data available only for 20–69-year-olds.

(h) High blood pressure includes all persons with high blood pressure and those receiving treatment for high blood pressure.

Sources: AIHW analysis of the 1995 National Health Survey (Australian Bureau of Statistics); Risk Factor Prevalence Study Management Committee 1990. Risk Factor Prevalence Study. Survey No. 3 1989. Canberra: National Heart Foundation of Australia and Australian Institute of Health.

Table 4: Death rates for cardiovascular diseases by States and Territories, 1995–97

Disease	Sex	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
		Rate per 100,000 population							
Coronary heart disease	Male	197.5	185.9	201.0	183.8	192.9	209.1	175.4	167.8
	Female	110.1	100.1	112.0	95.3	101.6	108.1	84.9	99.8
Heart failure	Male	14.8	15.1	9.7	10.3	14.2	17.9	20.9*	22.0*
	Female	13.1	13.5	9.2	9.8	10.6	17.5	15.8	20.3*
Peripheral vascular disease	Male	16.0	13.6	14.4	14.4	15.8	20.0	14.3*	19.3*
	Female	7.8	6.0	7.2	6.9	6.0	9.3	7.3	4.3
Rheumatic fever and rheumatic heart disease	Male	1.4	1.5	1.5	1.4*	1.5*	**	**	8.5*
	Female	1.9	2.2	1.9	2.4	1.7	2.7*	**	8.8*
Stroke	Male	67.6	59.4	61.6	60.7	65.6	69.5	64.4	86.7
	Female	60.2	52.0	57.7	53.2	56.8	61.4	56.6	70.8
<i>All cardiovascular disease</i>	<i>Male</i>	<i>334.1</i>	<i>310.5</i>	<i>316.1</i>	<i>300.2</i>	<i>325.2</i>	<i>360.0</i>	<i>305.6</i>	<i>358.8</i>
	<i>Female</i>	<i>219.6</i>	<i>200.5</i>	<i>211.7</i>	<i>188.1</i>	<i>204.4</i>	<i>233.6</i>	<i>191.8</i>	<i>245.5</i>
All causes of death	Male	820.4	803.2	796.1	792.4	797.0	883.8	720.6	1,119.2
	Female	505.0	497.2	494.3	481.8	486.9	558.8	477.4	775.6

* Rates should be interpreted with caution as the relative standard errors are between 25% and 50%.

** Rates are not presented as relative standard errors are greater than 50%.

Note: Age-standardised to the 1991 Australian population.

Source: AIHW National Mortality Database.

Table 5: Annual rates of change in cardiovascular disease death rates by States and Territories, 1986–97

Disease	Sex	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Australia
Per cent										
Coronary heart disease	Male	-4.3	-3.9	-3.7	-4.2	-4.2	-3.8	-2.6	-1.4	-4.0
	Female	-4.0	-3.6	-3.3	-4.0	-4.0	-4.1	-3.4	-3.5	-3.8
Heart failure	Male	-4.0	-3.3	-6.4	-3.8	-1.7	-2.7	6.0	—	-3.8
	Female	-3.8	-3.4	-5.2	-3.1	-2.7	-2.1	-4.3	—	-3.7
Peripheral vascular disease	Male	-2.1	-3.4	-2.8	-3.0	-1.0	-0.9	—	—	-2.5
	Female	-0.8	-0.8	-0.5*	-0.9	-2.3	0.7*	—	—	-0.9
Rheumatic fever and rheumatic heart disease	Male	-5.3	-4.4	-1.2*	—	-2.5	—	—	—	-3.9
	Female	-4.7	-4.1	-2.7	—	-3.9	—	—	—	-4.1
Stroke	Male	-3.9	-3.0	-3.1	-2.6	-2.7	-1.7	-3.0	4.0	-3.2
	Female	-3.9	-3.8	-3.1	-2.4	-2.6	-3.7	-1.6	6.0	-3.5
All cardiovascular disease	Male	-3.9	-3.5	-3.6	-3.7	-3.6	-2.9	-2.7	-0.1	-3.7
	Female	-3.7	-3.6	-3.1	-3.4	-3.3	-3.6	-3.0	-1.1	-3.5
All causes of death	Male	-2.3	-2.1	-2.1	-1.9	-1.9	-1.5	-2.3	-1.5	-2.1
	Female	-2.0	-1.8	-1.6	-1.3	-1.4	-1.7	-2.1	-0.6	-1.8

* Annual rates of change are statistically significant at 5% level. All other rates of change are significant at the 1% level.

Note: In some States and Territories the number of deaths is very small and for these no rates of change have been presented.

Source: AIHW National Mortality Database.

Table 6: Cardiovascular disease risk factors by States and Territories, 1995^(a)

Risk factor	Sex	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Per cent	
Diabetes type 2 ^(b)	Male	1.7	2.1	1.6	1.7	2.0	2.6	1.5	0.8		
	Female	1.4	1.5	1.2	1.9	2.0	1.4	1.7	3.1		
High blood pressure ^(c)	Male	17.0	16.7	19.1	15.4	18.0	18.1	16.1*	15.4		
	Female	14.5	14.9	14.7	15.7	16.9	18.4	14.6*	**		
Overweight	Male	62.6	64.7	61.6	60.8	64.6	66.6	62.5*	52.0		
	Female	46.9	49.7	44.4	47.2	49.7	54.2	51.5	46.5*		
Physical inactivity	Male	34.3	34.2	33.7	29.5	34.0	33.6	22.8	42.7		
	Female	36.7	31.9	34.2	28.0	34.1	35.5	27.4	35.1		
Smoking	Male	27.0	26.5	28.8	26.5*	26.5	26.9	23.6	33.6		
	Female	20.4	20.5	22.1	19.3	20.6	25.1	19.9	29.0*		

* Rates should be interpreted with caution as the relative standard errors are between 25% and 50%.

** Rates are not presented as relative standard errors are greater than 50%.

(a) Includes persons aged 18 years and over.

(b) Also includes data from people aged less than 18 years.

(c) High blood pressure includes all persons with high blood pressure and those receiving treatment for high blood pressure.

Note: Age-standardised to the 1991 Australian population.

Sources: AIHW analysis of the 1995 National Health Survey (Australian Bureau of Statistics); AIHW analysis of the 1995 National Nutrition Survey (Australian Bureau of Statistics and Commonwealth Department of Health and Aged Care).

Table 7: Death rates for cardiovascular diseases by urban, rural, remote areas^(a), 1995–97

Disease	Sex	Rate per 100,000 population		
		Urban	Rural	Remote
Coronary heart disease	Male	188.0	205.0	205.0
	Female	103.8	109.1	110.2
Heart failure	Male	12.7	15.6	17.5
	Female	11.5	13.9	13.6
Peripheral vascular disease	Male	14.6	16.2	12.7
	Female	6.8	7.5	6.6*
Rheumatic fever and rheumatic heart disease	Male	1.4	1.5	4.2*
	Female	2.0	1.9	7.0*
Stroke	Male	63.2	64.8	59.9
	Female	56.7	56.7	55.6
<i>All cardiovascular disease</i>	Male	313.4	338.3	335.4
	Female	206.2	216.2	224.4
All causes of death	Male	790.9	842.1	928.2
	Female	492.5	511.0	605.2

* Rates should be interpreted with caution as the relative standard errors are between 25% and 50%.

(a) Refers to 1994 Rural, Remote and Metropolitan (RRMA) classification.

Note: Age-standardised to the 1991 Australian population.

Source: AIHW National Mortality Database.

Table 8: Annual rates of change in cardiovascular disease death rates by urban, rural, remote areas^(a), 1986–97

Disease	Sex	Urban	Rural	Remote
		Per cent		
Coronary heart disease	Male	-4.3	-3.6	-3.3
	Female	-3.9	-3.4	-3.7
Heart failure	Male	-3.9	-3.7	-4.7
	Female	-3.6	-4.1	-5.8
Peripheral vascular disease	Male	-2.7	-1.9	-3.5
	Female	-1.0	-0.5*	-2.2
Rheumatic fever and rheumatic heart disease	Male	-4.5	-3.6	1.9
	Female	-4.3	-4.0	1.0
Stroke	Male	-3.4	-2.9	-3.4
	Female	-3.6	-3.4	-3.4
<i>All cardiovascular disease</i>	<i>Male</i>	-3.8	-3.3	-3.3
	<i>Female</i>	-3.6	-3.3	-3.6
All causes of death	Male	-2.2	-1.9	-2.2
	Female	-1.8	-1.7	-1.8

* Annual rates of change are statistically significant at 5% level. All other rates of change are significant at the 1% level.

(a) Refers to 1994 Rural, Remote and Metropolitan (RRMA) classification.

Source: AIHW National Mortality Database.

Table 9: Cardiovascular disease risk factors for urban, rural, remote areas^(a), 1995

Risk factor	Sex	Per cent		
		Urban	Rural	Remote
Diabetes type 2 ^(b)	Male	1.9	2.0	1.5
	Female	1.6	1.4	1.4
High blood pressure ^(c)	Male	16.8	18.8	17.8
	Female	14.8	15.0	16.1
Overweight	Male	62.5	64.6	65.4
	Female	47.1	46.0	53.2
Physical inactivity	Male	32.8	30.9	39.2
	Female	34.2	32.2	33.8
Smoking	Male	26.8	**	27.5*
	Female	20.3*	22.8	21.1

* Rates should be interpreted with caution as the relative standard errors are between 25% and 50%.

** Rates are not presented as relative standard errors are greater than 50%.

(a) Refers to 1994 Rural, Remote and Metropolitan (RRMA) classification. Includes persons aged 18 years and over.

(b) Also includes data from people aged less than 18 years.

(c) High blood pressure includes all persons with high blood pressure and those receiving treatment for high blood pressure.

Note: Age-standardised to the 1991 Australian population.

Sources: AIHW analysis of the 1995 National Health Survey (Australian Bureau of Statistics); AIHW analysis of the 1995 National Nutrition Survey (Australian Bureau of Statistics and Commonwealth Department of Health and Aged Care).

Table 10: Total health system costs of diseases of the circulatory system by health sector and disease type, 1993–94

ICD-9 chapter	Hospital inpatients			Drugs							Total costs ^(d)
	Public hospitals ^(a)	Private hospitals	Non-inpatients	Nursing homes	Medical services ^(b)	Prescription	Over-the-counter	Allied health	Research	Other ^(c)	
\$ million											
<i>Coronary heart disease</i>	412.5	144.0	17.7	72.5	87.9	97.6	7.7	5.5	10.7	38.1	894.4
Heart attack	114.1	10.8	0.5	25.3	3.2	0.8	0.2	0.1	2.0	7.2	164.1
Other	298.5	133.2	17.3	47.3	84.8	96.8	7.5	5.4	8.7	31.0	730.3
<i>Diseases of arteries, arterioles, capillaries</i>	130.8	33.9	15.5	36.5	21.8	5.8	4.8	2.1	6.6	11.3	269.0
Atherosclerosis	30.4	5.8	6.8	8.1	1.7	0.3	1.4	0.1	2.7	2.5	59.6
Aortic aneurysm	36.0	6.3	3.8	2.9	5.0	1.1	0.9	0.2	1.4	2.5	60.2
Other peripheral vascular disease	64.4	21.8	4.9	25.5	15.1	4.4	2.6	1.8	2.5	6.3	149.3
<i>Diseases of pulmonary circulation</i>	18.6	2.9	0.7	5.3	2.6	1.7	0.3	0.2	1.0	1.4	34.6
<i>Diseases of veins, lymphatics, other</i>	87.4	57.7	11.7	32.1	45.9	17.4	5.9	2.2	2.6	11.7	274.7
<i>Phlebitis & thrombophlebitis</i>	3.4	0.9	2.9	1.7	9.6	3.7	2.0	0.7	0.3	1.1	26.2
Varicose veins of leg	30.2	27.4	1.2	3.9	6.8	1.5	0.4	0.6	0.7	3.2	76.0
Hemorrhoids	19.6	20.9	1.8	4.2	17.3	9.6	1.3	0.7	0.8	3.4	79.3
Other	34.2	8.5	5.9	22.3	12.2	2.7	2.3	0.3	0.9	4.0	93.2
<i>High blood pressure^(e)</i>	18.7	4.3	31.8	6.7	216.6	409.6	66.5	20.1	21.8	34.9	831.0

Table 10 (continued): Total health system costs of diseases of the circulatory system by health sector and disease type, 1993–94

ICD-9 chapter	Hospital inpatients				Drugs						Total costs ^(d)
	Public hospitals ^(a)	Private hospitals	Non-inpatients	Nursing homes	Medical services ^(b)	Prescription	Over-the-counter	Allied health	Research	Other ^(c)	
	\$ million										
<i>Rheumatic heart disease</i>	13.9	3.8	1.1	0.5	1.8	0.8	0.7	0.2	0.2	1.0	24.0
<i>Stroke</i>	235.2	34.2	13.7	265.4	31.5	10.3	2.7	4.8	5.9	27.0	630.5
<i>Other forms of heart disease</i>	255.5	55.7	41.5	167.1	92.9	55.4	25.7	4.7	11.0	31.5	740.9
<i>Cardiac dysrhythmias</i>	82.5	13.5	18.3	28.7	35.8	20.0	10.9	0.7	3.7	9.5	223.6
<i>Heart failure</i>	118.4	21.3	17.8	134.8	46.8	32.7	12.2	3.9	5.4	17.5	410.9
<i>Non-rheumatic valvular disease</i>	31.3	16.9	3.6	1.6	6.6	1.6	1.7	—	0.5	2.9	66.8
<i>Cardiomyopathy and other heart diseases</i>	23.3	4.1	1.7	2.0	3.6	1.0	0.9	0.1	1.4	1.6	39.6
<i>Prevention and screening</i>	0.0	0.0	8.5	—	1.4	0.1	0.8	—	0.2	0.5	11.6
<i>Unspecified treatment and aftercare</i>	3.4	1.0	1.1	0.6	1.1	0.7	0.1	—	0.1	0.4	8.6
Total	1,176.0	337.5	143.2	586.9	503.4	599.4	115.3	39.7	60.1	157.9	3,719.4

(a) Public acute, public psychiatric and repatriation hospitals.

(b) Medical services for private patients in hospitals are included under Public and Private hospitals; medical services include services by general practitioners, specialists as well as pathology tests, screening and other diagnostic services.

(c) Includes other institutional, non-institutional and administration expenditure.

(d) Excludes expenditure for public health services, community health services, ambulances, medical aids and appliances.

(e) High blood pressure includes all persons with high blood pressure and those receiving treatment for high blood pressure.

Source: Mathers C & Penm R 1999. Health system costs of cardiovascular disease and diabetes in Australia 1993–94. AIHW Cat. No. HWE 11 Canberra: AIHW.

