



Supporting Information

Supplementary tables and figure

This appendix was part of the submitted manuscript and has been peer reviewed.

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Appendix to: Nedkoff L,* Kelty EA,* Hung J, et al. Stroke risk and cardiovascular mortality for Aboriginal and other Australian patients with atrial fibrillation. *Med J Aust* 2020; doi: 10.5694/mja2.50496.

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Table 1. International Classification of Diseases, ninth revision, clinical modification (ICD-9-CM) and International Classification of Diseases, tenth revision, Australian modification (ICD-10-AM) codes used in our study

	ICD-9-CM	ICD-10-AM
Exclusion criteria		
Presence of mechanical heart valve		
Diagnosis codes	V43.3, 996.02, 996.71	T82.0, T82.6, Z95.2
Procedure codes	35.22, 35.24, 35.26, 35.28	38488-00, -02, -04, -06
Comorbid conditions and principal diagnoses		
Atrial fibrillation	427.3	I48
Stroke	430, 431, 432, 433.x1,* 434.x1,* 436, 438	I60–I64, I69
Coronary heart disease	410–414	I20–I25
Myocardial infarction	410	I21, I22
Hypertension	401–405	I10–I15
Heart failure	428	I50
Cerebrovascular disease	430–438	I60–I69
Chronic obstructive pulmonary disease	490–494, 496	J40–J47
Chronic kidney disease	Before 1 July 1995: 250.4, 590.0, 590.2, 590.3, 590.8, 593.0, 593.1, 593.2, 593.6, 593.9, 599.7, 753.0, 753.1, 753.2, 753.4, 996.1, V42.0, V45.1, 403, 404, 580, 581, 582, 583, 585, 586, 587, 588, 589, V56, 405.01, 405.11, 405.91, 405.02, 405.12, 405.92, 593.81, 996.81 From 1 July 1995: 250.4, 590.0, 590.2, 590.3, 590.8, 593.0, 593.1, 593.2, 593.6, 593.9, 599.7, 753.0, 753.1, 753.2, 753.4, 996.1, V42.0, V45.1, 403, 404, 580, 581, 582, 583, 585, 586, 587, 588, 589, V56, 405.01, 405.11, 405.91, 405.02, 405.12, 405.92, 593.81, 996.81	E10.2, E11.2, E12.2, E13.2, E14.2, I15.0, I15.1, N39.1, N39.2, T82.4, Z94.0, Z99.2, I12, I13, N00, N01, N02, N03, N04, N05, N06, N07, N08, N11, N12, N14, N15, N16, N18, N19, N25, N26, N27, N28, Q60, Q61, Q62, Q63, Z49
Diabetes	250	E10–E14
Alcohol and other drugs	304, 292, 303, 305.0, 291, 305.2– 305.9, 357.6, 357.5, 425.5, 535.3, 571.0–571.3, 790.3, 965.00, 965.01, 980.0, 980.1, 980.9, 909.1, V58.89, E850.0–E850.2, E860.0–E860.2, E860.9, V65.4, V15.84, V15.85	E24.4, F10–F16, F18–F19, F55, G31.2, G62.0, G62.1, G72.0, G72.1, I42.6, K29.2, K70, K85.2, K86.0, O35.4, O35.5, R78.0– R78.5, T40, T51.0, T51.1, T51.9, X42, X45, X62, X65, Y12, Y15, Y16, Y91.2, Y91.3, Z50.2, Z71.4, Z72.1, Z72.2, Z86.41
Mental health	293.0–302.99, 306.0–319.99	F20.0–F99.9
Transient ischaemic attack	435	G45
Valvular heart disease	424, 393–398, 746.0–746.7	I34–I39; I05–I09; T82.0, T82.6, Z95.2, Z95.3, Z95.4 ; Q22, Q23
CHA₂DS₂-VASc		
Chronic heart failure	428	I50
Hypertension	401–405	I10–I15
Diabetes	250	E10–E14
Stroke (Ischaemic stroke, transient ischaemic attack, thromboembolism)	433.x1,* 434.x1,* 435, 436, 438, 444, 362.3	I63, I64, I69, G45, H34.1, I74
Vascular disease	410–414, 440–443	I20–25, I70–I73

* Prior to the introduction of ICD-9-CM (Australian version) on 1 July 1995, there was no fourth digit ICD code to denote cerebral infarction; 433 and 434 were therefore used for hospitalisations from 1990 to 30 June 1995.

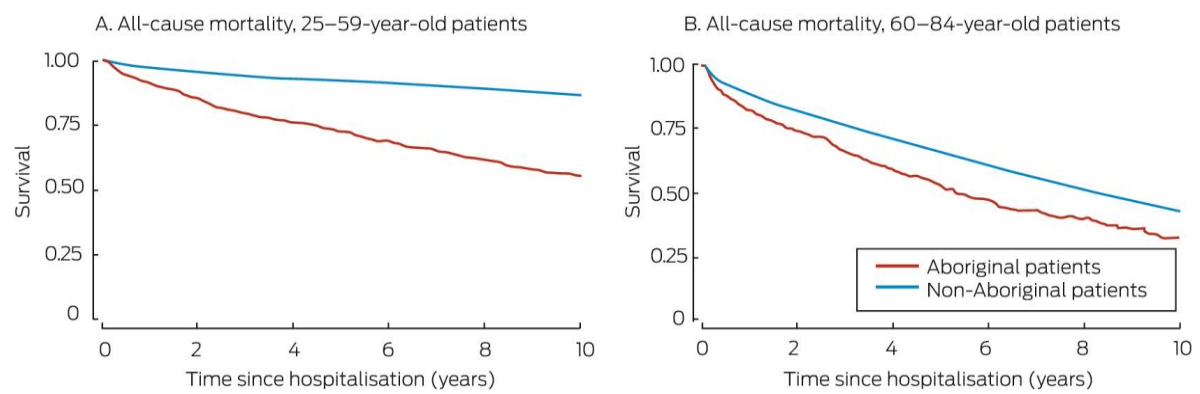
Table 2: Unadjusted and serially multivariable-adjusted hazard ratios for stroke and mortality following hospitalisation for atrial fibrillation, Aboriginal v non-Aboriginal patients

	Adjusted hazard ratio (95% confidence interval), after adjustment for:							
	Unadjusted hazard ratio	+Age, sex	+Remoteness, insurance	+Atrial fibrillation as principal diagnosis	+CHA ₂ DS ₂ -VASc	+VHD, CKD, COPD	+Alcohol/illicit drug use	+Admission year
All stroke								
20–59 years	3.17 (2.49–4.04)	3.77 (2.95–4.83)	3.48 (2.61–4.63)	3.00 (2.24–4.02)	1.82 (1.35–2.45)	1.72 (1.26–2.34)	1.66 (1.21–2.28)	1.67 (1.22–2.28)
60–84 years	1.60 (1.31–1.95)	2.39 (1.96–2.93)	2.27 (1.83–2.80)	2.14 (1.73–2.64)	1.70 (1.37–2.10)	1.70 (1.37–2.10)	1.63 (1.31–2.01)	1.64 (1.32–2.03)
Non-fatal stroke								
20–59 years	2.51 (1.87–3.38)	2.90 (2.14–3.92)	2.69 (1.90–3.81)	2.37 (1.66–3.38)	1.57 (1.09–2.26)	1.53 (1.06–2.22)	1.52 (1.04–2.22)	1.53 (1.05–2.24)
60–84 years	1.56 (1.19–2.04)	2.06 (1.57–2.70)	1.93 (1.45–2.57)	1.87 (1.40–2.49)	1.60 (1.20–2.13)	1.61 (1.21–2.15)	1.53 (1.15–2.04)	1.53 (1.15–2.04)
Fatal stroke								
20–59 years	5.82 (3.95–8.59)	7.58 (5.08–11.3)	6.14 (3.82–9.87)	4.94 (3.03–8.05)	2.30 (1.40–3.76)	1.95 (1.17–3.26)	1.78 (1.05–3.01)	1.77 (1.05–2.99)
60–84 years	1.55 (1.20–2.01)	2.78 (2.14–3.61)	2.46 (2.00–3.49)	2.42 (1.84–3.20)	1.82 (1.37–2.40)	1.78 (1.34–2.36)	1.70 (1.28–2.25)	1.72 (1.30–2.28)
Ischaemic stroke								
20–59 years	2.67 (1.98–3.61)	3.23 (2.38–4.39)	2.89 (2.03–4.12)	2.43 (1.69–3.49)	1.47 (1.01–2.12)	1.43 (0.98–2.09)	1.39 (0.95–2.05)	1.40 (0.95–2.06)
60–84 years	1.78 (1.44–2.21)	2.71 (2.18–3.37)	2.46 (1.96–3.10)	2.32 (1.84–2.92)	1.84 (1.46–2.32)	1.84 (1.46–2.33)	1.77 (1.40–2.24)	1.78 (1.41–2.25)
Cardiovascular mortality								
20–59 years	4.96 (4.23–5.81)	5.85 (4.97–6.88)	4.66 (3.84–5.66)	3.78 (3.10–4.62)	2.29 (1.86–2.81)	1.72 (1.38–2.13)	1.48 (1.19–1.84)	1.47 (1.18–1.83)
60–84 years	1.58 (1.38–1.79)	2.57 (2.26–2.93)	2.28 (1.99–2.62)	2.11 (1.84–2.43)	1.76 (1.53–2.03)	1.55 (1.35–1.78)	1.44 (1.25–1.65)	1.45 (1.26–1.67)
All-cause mortality								
20–59 years	3.90 (3.41–4.46)	4.42 (3.86–5.07)	3.69 (3.14–4.34)	2.85 (2.41–3.36)	2.10 (1.77–2.49)	1.65 (1.38–1.97)	1.40 (1.17–1.69)	1.40 (1.16–1.68)
60–84 years	1.46 (1.31–1.64)	2.25 (2.00–2.53)	2.08 (1.84–2.35)	1.92 (1.70–2.17)	1.70 (1.50–1.92)	1.53 (1.35–1.73)	1.41 (1.24–1.59)	1.42 (1.25–1.61)

CKD = chronic kidney disease; COPD = chronic obstructive pulmonary disease; VHD = valvular heart disease.

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Figure 1. Kaplan–Meier survival curves for all-cause mortality in patients hospitalised with atrial fibrillation, by Aboriginal status and age group*



* For both analyses: log-rank $P < 0.001$.