



## **Supporting Information**

### **Supplementary tables**

**This appendix was part of the submitted manuscript and has been peer reviewed.  
It is posted as supplied by the authors.**

Appendix to: Venkataraman P, Stanton T, Liew D, et al. Coronary artery calcium scoring in cardiovascular risk assessment of people with family histories of early onset coronary artery disease. *Med J Aust* 2020; doi: 10.5694/mja2.50702.

**Table 1. Risk classification and calcium score: comparison of the Australian absolute cardiovascular disease risk (ACVDR) calculator with the pooled cohort equation and Multi-Ethnic Study of Atherosclerosis models**

	Risk: ACVDR (converted to 10-year risk)			Total
	< 7.5%	7.5% to < 20%	≥ 20%	
<b>Risk: Pooled cohort equation</b>				
< 7.5%				
Number of participants	382	420	1	803
Calcium score, median (IQR)	0 (0–2)	0 (0–13)	0	0 (0–7)
7.5% to < 20%				
Number of participants	0	161	76	237
Calcium score, median (IQR)	—	28 (0–99)	41 (1–198)	32 (0–115)
≥ 20%				
Number of participants	0	0	19	19
Calcium score, median (IQR)	—	—	92 (32–222)	92 (32–222)
Total				
Number of participants	382	581	96	1059
Calcium score, median (IQR)	0 (0–2)	0 (0–38)	50 (1–215)	0 (0–33)
<b>Risk: Multi-Ethnic Study of Atherosclerosis</b>				
< 7.5%				
Number of participants	369	449	33	851
Calcium score, median (IQR)	0 (0–1)	0 (0–4)	0 (0–1)	0 (0–2)
7.5% to < 20%				
Number of participants	13	127	48	188
Calcium score, median (IQR)	396 (153–857)	113 (65–239)	101(43–196)	115 (62–237)
7.5% to < 20% 20%				
Number of participants	0	5	15	20
Calcium score, median (IQR)	—	1551 (1446–1559)	1050 (509–1308)	1202 (606–1550)
Total				
Number of participants	382	581	96	1059
Calcium score, median (IQR)	0 (0–13)	33 (1–118)	50 (1–215)	0 (0–33)

IQR = interquartile range.

**Table 2. Relationship of cardiovascular risk factors with 10-year calculated Multi-Ethnic Study of Atherosclerosis (MESA) risk by a) univariable and b) multivariable analysis**

Dependent variable	10-year MESA risk		
	$\beta$	95% CI	$R^2$
Age	0.16	0.11 to 0.20	0.06
Sex	-3.9	-4.4 to -3.5	0.16
Total cholesterol	0.49	0.06 to 0.92	0.00
Diabetes mellitus	4.2	1.8 to 6.5	0.01
High-density lipoprotein cholesterol	-2.6	-3.3 to -2.0	0.06
Log(CCS+1)	1.9	1.9 to 2.0	0.72
10-year ACVDR risk	0.48	0.44 to 0.51	0.39
10-year ACVDR risk (standardised)*	0.48	0.44 to 0.51	0.39
PCE	0.66	0.62 to 0.72	0.40
PCE (standardised)*	0.67	0.62 to 0.72	0.40

b)

Dependent variable	10-year MESA risk		$R^2$
	$\beta$	95% CI	
Model 1			
10-year ACVDR	0.28	0.25 to 0.30	0.83
Log(CCS+1)	1.62	1.57 to 1.69	
Model 2			
10-year PCE	0.36	0.33 to 0.39	0.82
Log(CCS+1)	1.62	1.55 to 1.68	

ACVDR = Australian cardiovascular risk calculator; CCS = coronary calcium score; CI = confidence interval; PCE = pooled cohort equation.

\* Predicted risk was scaled by sample data; that is, individual standardised risk score = (individual predicted risk score – mean of predicted risk scores for the study population)/(standard deviation of predicted risk scores for the study population).