## **Supplementary Material**

Variation in cardiovascular disease care: An Australian cohort study on sex differences in receipt of coronary procedures

**Table S1:** Rates of coronary procedures within 30 days of admission with AMI by sex and associated hazard ratios (n=4,580)

	Procedures/ pys	Crude rate per py (95%CI)	Model 1 HR (95%CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiogra	phy				_
Men	2049/73.7	27.8 (26.6-29.0)	1.08 (1.00-1.16)	1.02 (0.95-1.10)	0.99 (0.92-1.07)
Women	1060/48.9	21.7 (20.4-23.0)	1.00	1.00	1.00
PCI/CAl	BG				
Men	1624/108.9	14.9 (14.2-15.7)	1.60(1.46-1.76)*	1.54(1.40-1.69)*	1.49(1.36-1.65)*
Women	600/83.8	7.15 (6.60-7.75)	1.00	1.00	1.00

Notes: The proportion of AMI patients who survived the 30 day follow-up period was 93.3% (94.4% men vs 91.4% women). py: person-year. Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is adjusted for age and sociodemographic variables (country of birth, region of residence, highest qualification, health insurance, marital status) Model 3 is adjusted for age, sociodemographic variables and health-related variables (obesity, physical functioning and psychological distress). \* indicates that the proportional hazard assumption is violated.

**Table S2:** Rates of coronary procedures within 30 days of admission with angina by sex and associated hazard ratios (n=4,457)

	Procedures /pys	Crude rate per py (95%CI)	Model 1 HR (95%CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiogra	aphy				
Men	1624/74.3	21.9 (20.8-23.0)	1.30 (1.20-1.40)	1.25 (1.15-1.35)	1.23 (1.13-1.33)
Women	1026/79.0	13.3 (12.5-14.1)	1.00	1.00	1.00
PCI/CAI	$\mathbf{3G}$	,			
Men	1023/125.9	8.13 (7.64-8.64)	2.51(2.22-2.84)*	2.42(2.14-2.74)*	2.36(2.08-2.68)*
Women	347/131.3	2.64 (2.38-2.94)	1.00	1.00	1.00

Notes: The proportion of angina patients who survived the 30 day follow-up period was 99.6% (99.5% men vs 99.6% women). py: person-year. Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is adjusted for age and sociodemographic variables (country of birth, region of residence, highest qualification, health insurance, marital status) Model 3 is adjusted for age, sociodemographic variables and health-related variables (obesity, physical functioning and psychological distress). \* indicates that the proportional hazard assumption is violated.

**Table S3:** Associated hazard ratios for coronary procedures within one year of admission with AMI by sex using self-rated health only as a health-related variable (n=4,580)

	Model 1 HR (95% CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiography			
Men	1.08 (1.01-1.17)	1.02 (0.95-1.10)	1.02 (0.94-1.10)
Women	1.00	1.00	1.00
PCI/CABG			
Men	1.62 (1.48-1.78)	1.56 (1.42-1.71)	1.55 (1.41-1.71)
Women	1.00	1.00	1.00

Notes: Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is adjusted for age and socio-variables (country of birth, region of residence, highest qualification, health insurance, marital status). Model 3 is adjusted for age, sociodemographic variables and health-related variables (self-rated health only).

**Table S4:** Associated hazard ratios for coronary procedures within one year of admission with angina by sex using self-rated health only as a health-related variable (n=4,457)

	Model 1 HR (95% CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiography			
Men	1.31 (1.21-1.41)	1.26 (1.16-1.36)	1.25 (1.16-1.36)
Women	1.00	1.00	1.00
PCI/CABG			
Men	2.57 (2.28-2.88)	2.49 (2.21-2.80)	2.50 (2.22-2.81)
Women	1.00	1.00	1.00

Notes: Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is adjusted for age and sociodemographic variables (country of birth, region of residence, highest qualification, health insurance, marital status). Model 3 is adjusted for age, sociodemographic variables and health-related variables (self-rated health only).

**Table S5:** Associated hazard ratios for coronary procedures within one year of admission with AMI by sex using the Charlson index in addition to health-related variables used in the main analysis (n=4,580)

	Model 1 HR (95%CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiography		, , ,	,
Men	1.08 (1.01-1.17)	1.02 (0.95-1.10)	1.00 (0.93-1.08)
Women	1.00	1.00	1.00
PCI/CABG			
Men	1.62 (1.48-1.78)	1.56 (1.42-1.71)	1.53 (1.39-1.68)
Women	1.00	1.00	1.00

Notes: Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is adjusted for age and sociodemographic variables (country of birth, region of residence, highest qualification, health insurance, marital status). Model 3 is adjusted for age, sociodemographic variables and health-related variables (obesity, physical functioning, psychological distress and the Charlson index).

**Table S6**: Associated hazard ratios for coronary procedures within one year of admission with angina by sex using the Charlson index in addition to health-related variables used in the main analysis (n=4,457)

	Model 1 HR (95%CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiography			
Men	1.31 (1.21-1.41)	1.26 (1.16-1.36)	1.24 (1.14-1.34)
Women	1.00	1.00	1.00
PCI/CABG			
Men	2.57 (2.28-2.88)	2.49 (2.21-2.80)	2.46 (2.18-2.77)
Women	1.00	1.00	1.00

Notes: Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is adjusted for age and sociodemographic variables (country of birth, region of residence, highest qualification, health insurance, marital status). Model 3 is adjusted for age, sociodemographic variables and health-related variables (obesity, physical functioning, psychological distress and the Charlson index).

**Table S7**: Rates of coronary procedures within one year of admission with unstable angina only (120.0) by sex, and associated hazard ratios (n=2,131)

	Procedures /pys	Crude rate per py (95%CI)	Model 1 HR (95%CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiogra	aphy				
Men	672/423.5	1.59 (1.47-1.71)	1.26 (1.12-1.42)	1.25 (1.11-1.41)	1.24 (1.10-1.40)
Women	468/444.2	1.05 (0.96-1.15)	1.00	1.00	1.00
PCI/CAI	3G				
Men	420/650.1	0.64 (0.59-0.71)	2.52 (2.09-3.04)	2.50 (2.07-3.03)	2.50 (2.06-3.02)
Women	151/729.8	0.21 (0.18-0.24)	1.00	1.00	1.00

Notes: py: person-year. Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is further adjusted for country of birth, region of residence, highest qualification, marital status and health insurance. Model 3 is further adjusted for obesity, physical functioning and psychological distress.

**Table S8:** Rates of coronary procedures within one year of admission with AMI by sex and associated hazard ratios, excluding those aged 85 years and over (n=3691)

	Procedures/	Crude rate per	Model 1	Model 2	Model 3
	pys	py (95%CI)	HR (95%CI)	HR (95%CI)	HR (95%CI)
Angiograp	hy				
Men	1891/438.3	4.31 (4.12-4.51)	1.08 (0.99-1.16)	1.03 (0.95-1.12)	1.02 (0.94-1.1)
Women	912/258.9	3.52 (3.3-3.76)	1.00	1.00	1.00
PCI/CAB(	G .				
Men	1543/767.2	2.01 (1.91-2.11)	1.69 (1.53-1.87)	1.65 (1.49-1.82)	1.61 (1.46-1.79)
Women	517/608.8	0.85 (0.78-0.93)	1.00	1.00	1.00

Notes: py: person-year. Model 1 is adjusted for age at first admission. Model 2 is adjusted for age and sociodemographic variables (country of birth, region of residence, highest qualification, health insurance, marital status). Model 3 is adjusted for age, sociodemographic variables and health-related variables (obesity, physical functioning, psychological distress).

**Table S9:** Rates of coronary procedures within one year of admission with angina by sex and associated hazard ratios, excluding those aged 85 years and over (n=4076)

	Procedures/ pys	Crude rate per py (95%CI)	Model 1 HR (95%CI)	Model 2 HR (95%CI)	Model 3 HR (95%CI)
Angiograph	y				
Men	1603/629.1	2.55 (2.43-2.68)	1.29 (1.19-1.4)	1.25 (1.16-1.36)	1.24 (1.14-1.34)
Women	1010/707.2	1.43 (1.34-1.52)	1.00	1.00	1.00
PCI/CABG					
Men	1066/1131.6	0.94 (0.89-1.00)	2.65 (2.35-2.99)	2.57 (2.28-2.91)	2.53 (2.23-2.86)
Women	347/1322.5	0.26 (0.24-0.29)	1.00	1.00	1.00

Notes: py: person-year. Model 1 is adjusted for age at first admission. Model 2 is adjusted for age and sociodemographic variables (country of birth, region of residence, highest qualification, health insurance, marital status). Model 3 is adjusted for age, sociodemographic variables and health-related variables (obesity, physical functioning, psychological distress).

**Table S10:** Associated hazard ratios for coronary procedures within one year of admission with AMI (n=4,580) or angina (n=4,457) by sex, adjusted for age, sociodemographic variables and health-related variables including cardiovascular risk factors

	AMI HR (95%CI)	Angina HR (95%CI)
Angiography	11K (93 /0C1)	11K (93 /0C1)
Men	1.01 (0.93-1.09)	1.24 (1.14-1.34)
Women	1.00	1.00
PCI/CABG		
Men	1.52 (1.38-1.67)	2.45 (2.17-2.76)
Women	1.00	1.00

Notes: Model 1 is adjusted for age at admission (in 5-year age categories). Model 2 is adjusted for age and socio-variables (country of birth, region of residence, highest qualification, health insurance, marital status). Model 3 is adjusted for age, sociodemographic variables health-related variables (obesity, physical functioning, psychological distress), and CVD risk factors (smoking, self-rated diabetes, treated for high blood pressure, treated for high cholesterol and family history of heart disease).