



Supporting Information

Supplementary methods and results

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

Appendix to: Nadlacki B, Horton D, Hossain S, et al. Long term survival after acute myocardial infarction in Australia and New Zealand, 2009–2015: a population cohort study. *Med J Aust* 2021; doi: 10.5694/mja2.51085.

Table 1. Variables included in the Cox regression model

Variable	Variable description
Age	Age
Sex	Sex
Region	Patient's presenting region
Type of AMI	STEMI v NSTEMI
Revascularisation with PCI	Receipt of PCI in-hospital or within 90-days of discharge
Revascularisation with CABG	Receipt of CABG in-hospital or within 90-days of discharge
Comorbidities defined using the Condition Category (CC) classification	
CC 1	HIV/AIDS
CC 2	Septic Shock
CC 3	Central Nervous System Infection
CC 4	Tuberculosis
CC 5	Opportunistic Infections
CC 6	Other Infection
CC 7 - 9	Major or Metastatic Cancer
CC 10-13	Other Cancer
CC 14	Benign Neoplasms of Skin, Breast, Eye
CC 15-20, 119, 120	Diabetes
CC 21	Protein-Calorie Malnutrition
CC 22	Significant Endocrine and Metabolic Disorders
CC 23	Disorders of Fluid/Electrolyte/Acid-Base
CC 24	Other Endocrine/Metabolic/Nutritional Disorders
CC 25-26	Cirrhosis and End Stage Liver Disease
CC 27	Chronic Hepatitis
CC 28	Acute Liver Failure/Disease
CC 29	Other Hepatitis and Liver Disease
CC 30	Gallbladder and Biliary Tract Disorders
CC 31	Intestinal Obstruction/Perforation
CC 32	Pancreatic Disease
CC 33	Inflammatory Bowel Disease
CC 34	Peptic Ulcer, Hemorrhage, Other Specified Gastrointestinal Disorders
CC 35	Appendicitis
CC 36	Other Gastrointestinal Disorders
CC 37	Bone/Joint/Muscle Infections/Necrosis
CC 38	Rheumatoid Arthritis and Inflammatory Connective Tissue Disease
CC 39	Disorders of the Vertebrae and Spinal Discs
CC 40	Osteoarthritis of Hip or Knee
CC 41	Osteoporosis and Other Bone/Cartilage Disorders
CC 42	Congenital/Developmental Skeletal and Connective Tissue Disorders
CC 43	Other Musculoskeletal and Connective Tissue Disorders
CC 44, 46-47	Hematological Disorders
CC 45	Disorders of Immunity
CC 48	Delirium and Encephalopathy
CC 49, 50	Dementia
CC 51-53	Drug and Alcohol Abuse/Dependence

Variable	Variable description
CC 54-60	Psychiatric Disorders
CC 67-69, 100-103, 177-178	Hemiplegia, Paraplegia, Paralysis, Functional Disability
CC 70	Muscular Dystrophy
CC 71	Polyneuropathy
CC 72	Multiple Sclerosis
CC 73	Parkinson's and Huntington's Diseases
CC 74	Seizure Disorders and Convulsions
CC 75	Coma, Brain Compression/Anoxic Damage
CC 76	Mononeuropathy, Other Neurological Conditions/Injuries
CC 77-79	Cardiorespiratory Arrest, Failure and Respiratory Dependence
CC 80	Congestive Heart Failure
CC 81-82	Acute Coronary Syndrome (AMI and Unstable Angina)
CC 83-84	Ischemic Heart Disease
CC 85	Heart Infection/Inflammation, Except Rheumatic
CC 86	Valvular and Rheumatic Heart Disease
CC 87	Major Congenital Cardiac/Circulatory Defect
CC 88	Other Congenital Heart/Circulatory Disease
CC 89-91	Hypertension
CC 92-93	Arrhythmias and Conduction Disorders
CC 94	Other and Unspecified Heart Disease
CC 95-99	Cerebrovascular Disease
CC 104-105	Vascular Disease
CC 106	Other Circulatory Disease
CC 107	Cystic Fibrosis
CC 108- 109	Chronic Lung Disease (Obstructive Pulmonary Disease, Lung Fibrosis and other Chronic Lung Disorders)
CC 110	Asthma
CC 111-113	Pneumonia
CC 114	Pleural Effusion/Pneumothorax
CC 115	Other Lung Disorders
CC 116	Legally Blind
CC 117	Major Eye Infections/Inflammations
CC 118	Retinal Detachment
CC 121	Retinal Disorders, Except Detachment and Vascular Retinopathies
CC 122	Glaucoma
CC 123	Cataract
CC 124	Other Eye Disorders
CC 125	Significant Ear, Nose, and Throat Disorders
CC 126	Hearing Loss
CC 127	Other Ear, Nose, Throat, and Mouth Disorders
CC 128	Kidney Transplant Status
CC 129-131	Renal Failure and Dialysis
CC 132	Nephritis
CC 133	Urinary Obstruction and Retention
CC 134-136	Incontinence, UTI & Other Urinary Tract Disorders
CC 137	Female Infertility
CC 138-139	Pelvic Inflammatory Disease and Other Female Genital Disorders

Variable	Variable description
CC 140	Male Genital Disorders
CC 141	Ectopic Pregnancy
CC 142	Miscarriage/Abortion
CC 143-144	Completed Pregnancy With Complications
CC 145	Completed Pregnancy Without Complication
CC 146	Uncompleted Pregnancy With Complications
CC 147	Uncompleted Pregnancy With No or Minor Complications
CC 148-149	Chronic Ulcer of Skin
CC 150	Extensive Third-Degree Burns
CC 151	Other Third-Degree and Extensive Burns
CC 152	Cellulitis, Local Skin Infection
CC 153	Other Dermatological Disorders
CC 154-156	Head Injury
CC 157	Vertebral Fractures
CC 158	Hip Fracture/Dislocation
CC 159	Major Fracture, Except of Skull, Vertebrae, or Hip
CC 160	Internal Injuries
CC 161	Traumatic Amputation
CC 162	Other Injuries
CC 163	Poisonings and Allergic Reactions
CC 164	Major Complications of Medical Care and Trauma
CC 165	Other Complications of Medical Care
CC 166	Major Symptoms, Abnormalities
CC 167	Minor Symptoms, Signs, Findings
CC 168	Extremely Low Birthweight Neonates
CC 169	Very Low Birthweight Neonates
CC 170	Serious Perinatal Problem Affecting Newborn
CC 171	Other Perinatal Problems Affecting Newborn
CC 172	Normal, Single Birth
CC 173-175	Organ Transplant Status
CC 176	Artificial Openings for Feeding or Elimination
CC 177	Amputation Status, Lower Limb/Amputation
CC 178	Amputation Status, Upper Limb
CC 179	Post-Surgical States/Aftercare/Elective
Prior PCI	PCI in the preceding year
Prior CABG	CABG in the preceding year

CC = Condition Categories classification of comorbid conditions; AMI = acute myocardial infarction; STEMI = ST elevation myocardial infarction; NSTEMI = non-ST elevation myocardial infarction; PCI = percutaneous coronary intervention; CABG = coronary artery bypass grafting; HIV = human immunodeficiency virus; AIDS = acquired immunodeficiency syndrome; UTI = urinary tract infection

Table 2. Frequency of ICD10-AM AMI diagnosis codes

AMI Type	ICD10-AM Code	Code Description	Frequency	Proportion of all patients
STEMI	I21.0	Acute transmural myocardial infarction of anterior wall	23 340	9.8%
	I21.1	Acute transmural myocardial infarction of inferior wall	29 274	12.2%
	I21.2	Acute transmural myocardial infarction of other sites	3219	1.3%
	I21.3	Acute transmural myocardial infarction of unspecified site	8502	3.6%
NSTEMI	I21.4	Acute subendocardial myocardial infarction	175 067	73.1%

Table 3. Number at risk tables for Box 5

Box 5A

Group	Time in Years							
	0	1	2	3	4	5	6	7
Overall Cohort	239402	188152	151701	115569	82610	52646	25623	617
NSTEMI	175067	137522	109713	82841	58557	36867	17709	464
STEMI	64335	50630	41988	32728	24053	15779	7914	153

Box 5B

Group	Time in Years							
	0	1	2	3	4	5	6	7
STEMI No Revasc	17914	11209	9124	7089	5301	3470	1804	64
STEMI Revasc	46421	39421	32864	25639	18752	12309	6110	89
NSTEMI No Revasc	101333	73164	56190	41221	28535	17577	8450	296
NSTEMI Revasc	73734	64358	53523	41620	30022	19290	9259	168

Box 5C

Age Group	Time in Years							
	0	1	2	3	4	5	6	7
18-54y	42495	37901	32233	25781	19266	12830	6380	67
55-64y	48357	42037	35268	27867	20658	13629	6786	95
65-74y	53906	44469	36275	27953	20112	12833	6252	164
75-84y	56712	41807	32837	24274	16687	10217	4864	223
>85years	37932	21938	15088	9694	5887	3137	1341	68

Box 5D

Region	Time in Years							
	0	1	2	3	4	5	6	7
NSW/ACT	53547	45628	39063	29593	21163	13492	6483	40
QLD	39689	32894	25830	19573	13792	8547	4068	28
SA/NT	16354	12280	9684	7499	5418	3436	1765	122
TAS	4953	3737	2923	2243	1607	1027	464	7
VIC	54592	41280	32990	25247	18245	11772	5785	50
WA	21372	15818	12187	9153	6446	3959	1883	37
NZ	48895	36515	29024	22261	15939	10413	5175	333