

Supporting Information

Supplementary materials

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

Appendix to: Woelk V, Speck P, Kaambwa B, et al. Incidence and causes of early unplanned readmission after hospitalisation with peripheral arterial disease in Australia and New Zealand. *Med J Aust* 2021; doi: 10.5694/mja2.51329.

Table 1. ICD-10-AM codes used to identify patients with peripheral arterial disease (PAD)

ICD10-AM code	Diagnosis
PAD diagnosis:	
- 170.20	Atherosclerosis of arteries of extremities, unspecified
- I70.21	Atherosclerosis of arteries of extremities with intermittent claudication
- 170.22	Atherosclerosis of arteries of extremities with rest pain
- 170.23	Atherosclerosis of arteries of extremities with ulceration
- 170.24	Atherosclerosis of arteries of extremities with gangrene
Primary diagnoses given secondary diagnosis of PAD:	
- 174.3	Embolism and thrombosis of arteries of lower extremities
- 174.4	Embolism and thrombosis of arteries of extremities, unspecified
- 173	Other peripheral vascular diseases
- E10.51	Type 1 diabetes mellitus with peripheral angiopathy, without gangrene
- E10.52	Type 1 diabetes mellitus with peripheral angiopathy, with gangrene
- E11.51	Type 2 diabetes mellitus with peripheral angiopathy, without gangrene
- E11.52	Type 2 diabetes mellitus with peripheral angiopathy, with gangrene
- L03.01	Cellulitis of finger
- L03.02	Cellulitis of toe
- L03.11	Cellulitis of lower limb
- L98.4	Chronic ulcer of skin, not elsewhere classified
- R02	Gangrene, not elsewhere classified

Table 2. Twenty most frequent primary diagnoses among 4830 unplanned readmissions within 30 days of peripheral arterial disease hospitalisation (acute)

ICD-10-AM Code	Readmission Diagnosis	
170	Atherosclerosis	931 (19.3%)
E11	Type 2 diabetes mellitus	735 (15.2%)
T81	Complications of procedures, not elsewhere classified	299 (6.2%)
150	Heart failure	189 (3.9%)
L03	Cellulitis	155 (3.2%)
T82	Complications of cardiac and vascular prosthetic devices, implants and grafts	131 (2.7%)
T87	Complications peculiar to reattachment and amputation	117 (2.4%)
M86	Osteomyelitis	110 (2.3%)
J18	Pneumonia, organism unspecified	107 (2.2%)
A41	Other sepsis	98 (2.0%)
l21	Acute myocardial infarction	95 (2.0%)
L97	Ulcer of lower limb, not elsewhere classified	83 (1.7%)
E10	Type 1 diabetes mellitus	59 (1.2%)
J44	Other chronic obstructive pulmonary disease	59 (1.2%)
174	Arterial embolism and thrombosis	50 (1.0%)
N39	Other disorders of urinary system	48 (1.0%)
R07	Pain in throat and chest	44 (0.9%)
S72	Fracture of femur	43 (0.9%)
163	Cerebral infarction	41 (0.8%)
120	Angina pectoris	34 (0.7%)

Table 3. Twenty most frequent primary diagnoses among 4935 unplanned readmissions within 30 days of peripheral arterial disease hospitalisation (elective)

ICD-10-AM Code	Readmission Diagnosis	
T81	Complications of procedures, not elsewhere classified	664 (13.4%)
170	Atherosclerosis	546 (11.1%)
E11	Type 2 diabetes mellitus	322 (6.5%)
T82	Complications of cardiac and vascular prosthetic devices, implants and grafts	276 (5.6%)
l21	Acute myocardial infarction	157 (3.2%)
150	Heart failure	148 (3.0%)
L03	Cellulitis	147 (3.0%)
J18	Pneumonia, organism unspecified	97 (2.0%)
A41	Other sepsis	79 (1.6%)
J44	Other chronic obstructive pulmonary disease	78 (1.6%)
R07	Pain in throat and chest	74 (1.5%)
120	Angina pectoris	71 (1.4%)
N17	Acute kidney failure	57 (1.2%)
I63	Cerebral infarction	56 (1.1%)
197	Postprocedural disorders of circulatory system, not elsewhere classified	55 (1.1%)
N39	Other disorders of urinary system	55 (1.1%)
148	Atrial fibrillation and flutter	48 (1.0%)
L97	Ulcer of lower limb, not elsewhere classified	48 (1.0%)
M79	Other soft tissue disorders, not elsewhere classified	48 (1.0%)
K92	Other diseases of digestive system	47 (1.0%)

Figure 1. Patient and hospitalisation characteristics associated with unplanned readmission after hospitalisation with peripheral arterial disease (PAD) (elective): multivariable logistic regression*

		OR	95%	6 CI
Sociodemographic and presentation characteristics				
Age (per 10-year increase)	•	1.11	1.08	1.1
Chronic limb-threatening ischaemia	•	1.69	1.58	1.8
Surgical PAD intervention	•	2.20	2.05	2.3
Private hospital PAD hospitalisation	•	0.60	0.56	0.6
New Zealand	•	1.28	1.17	1.3
ardiovascular conditions				
Congestive heart failure	•	1.36	1.23	1.5
Arrhythmias and conduction disorders	•	1.16	1.05	1.2
Hypertension	•	1.15	1.07	1.2
other conditions				
Seizure disorders and convulsions		1.61	1.13	2.3
Pancreatic disease		1.60	1.13	2.2
Rheumatoid arthritis and inflammatory connective tissue disease	-	1.54	1.25	1.8
Chronic hepatitis		1.53	1.08	2.
Disorders of the vertebrae and spinal discs	-	1.44	1.17	1.
Poisonings and allergic reactions		1.38	1.06	1.
Major and metastatic cancer	-	1.33	1.07	1.6
Drug and alcohol abuse without dependence	-	1.32	1.13	1.
Dialysis or renal failure	•	1.31	1.19	1.4
Chronic lung disease	-	1.27	1.12	1.4
Cellulitis with local skin infection	•	1.22	1.11	1.3
Haematological disorders	•	1.22	1.12	1.3
Diabetes	•	1.22	1.13	1.3
Incontinence, urinary tract infections and other uninary tract disorders	•	1.21	1.10	1.3
Hemiplegia, paraplegia, paralysis, or functional disability	•	1.18	1.07	1.3
Pneumonia	•	1.16	1.02	1.3

AIDS = acquired immunodeficiency disease; CI = confidence interval; HIV = human immunodeficiency virus; OR = odds ratio. * Number of PAD admissions: 78,675; *C*-statistic, 0.706.

Figure 2. Patient and hospitalisation characteristics associated with unplanned readmission after hospitalisation with peripheral arterial disease (PAD) (acute): multivariable logistic regression*

		OR	95%	6 C
Sociodemographic and presentation characteristics				
Chronic limb-threatening ischaemia	•	1.19	1.10	1.2
Surgical PAD intervention	+	1.22	1.10	1.3
Endovascular PAD intervention	•	0.90	0.84	0.9
Private hospital PAD hospitalisation	-	0.65	0.58	0.
New Zealand	•	1.28	1.18	1.
Cardiovascular conditions				
Congestive heart failure	*	1.30	1.19	1.
ther conditions				
Major eye infections and inflammations		3.07	1.35	7.
HIV or AIDS		2.70	1.22	5
Rheumatoid arthritis and inflammatory connective tissue disease		1.51	1.25	1
Osteoporosis and other bone/cartilage disorders	-	1.42	1.15	1
Drug and alcohol abuse without dependence	•	1.24	1.08	1
Dialysis or renal failure	+	1.22	1.12	1
Diabetes	•	1.21	1.13	1
Disorders of fluid, electrolyte and acid-base balance	•	1.18	1.08	1
Chronic lung disease	-	1.15	1.03	1
Other cancers and tumours	•	1.15	1.02	1
Polyneuropathy	•	1.15	1.04	1
Incontinence, urinary tract infections and other uninary tract disorders	s -	0.89	0.82	0
Bone, joint or muscle infections and necrosis	•	0.84	0.76	0
Hearing loss —		0.61	0.41	0

AIDS = acquired immunodeficiency disease; CI = confidence interval; HIV = human immunodeficiency virus; OR = odds ratio.
* Number of PAD admissions: 26,304; *C*-statistic, 0.599.