

Time trends in peripheral artery disease incidence, prevalence, and secondary preventive therapy: a cohort study in The Health Improvement Network in the UK

Lucía Cea Soriano et al.

Supplementary materials

Supplementary Table S1 Read codes indicative of a symptomatic PAD diagnosis and/or related surgical procedures

Read code	Descriptor
G700.11	Aorto-iliac disease
G702.00	Extremity artery atheroma
G702z00	Extremity artery atheroma NOS
G73..11	Peripheral ischaemic vascular disease
G73..12	Ischaemia of legs
G73..13	Peripheral ischaemia
G730100	Raynaud's phenomenon
G731000	Buerger's disease
G731100	Presenile gangrene
G732.00	Peripheral gangrene
G732000	Gangrene of toe
G732100	Gangrene of foot
G733.00	Ischaemic foot
G734.00	Peripheral arterial disease
G73y.00	Other specified peripheral vascular disease
G73y000	Diabetic peripheral angiopathy
G73y100	Peripheral angiopathic disease EC NOS
G73yz00	Other specified peripheral vascular disease NOS
G73z.00	Peripheral vascular disease NOS
G73z000	Intermittent claudication
G73z011	Claudication
G73z012	Vascular claudication

G73z100	Spasm of peripheral artery
G73zz00	Peripheral vascular disease NOS
G74..00	Arterial embolism and thrombosis
G74..11	Arterial embolus and thrombosis
G74..12	Thrombosis – arterial
G74..13	Arterial embolic and thrombotic occlusion
G740.12	Aortoiliac obstruction
G740.13	Leriche's syndrome
G742400	Embolism and thrombosis of the femoral artery
G742500	Embolism and thrombosis of the popliteal artery
G742600	Embolism and thrombosis of the anterior tibial artery
G742700	Embolism and thrombosis of the dorsalis pedis artery
G742800	Embolism and thrombosis of the posterior tibial artery
G742900	Embolism and thrombosis of a leg artery NOS
G742B00	Post radiological embolism of lower limb artery
G742z00	Peripheral arterial embolism and thrombosis NOS
G74y000	Embolism and/or thrombosis of the common iliac artery
G74y100	Embolism and/or thrombosis of the internal iliac artery
G74y200	Embolism and/or thrombosis of the external iliac artery
G74y300	Embolism and thrombosis of the iliac artery unspecified
G74z.00	Arterial embolism and thrombosis NOS
G761.00	Stricture of artery
G765.00	Necrosis of artery
G76A.00	Arterial insufficiency
G76z.00	Disorders of arteries and arterioles NOS
G76z000	Iliac artery occlusion
G76z100	Femoral artery occlusion
G76z200	Popliteal artery occlusion
G7y..00	Other specified arterial, arteriole or capillary disease
G7z..00	Arterial, arteriole and capillary diseases NOS
14NB.00	H/O: Peripheral vascular disease procedure
2I16.00	O/E - gangrene
R054.00	[D]Gangrene

R054200 [D]Gangrene of toe in diabetic
R054300 [D]Widespread diabetic foot gangrene
8HIP.00 Referred for peripheral artery disease assessment

D, diagnosis; EC, elsewhere classified; H/O, history of; O/E, on examination; NOS, not otherwise specified; PAD, peripheral artery disease.

Supplementary Table S2 Trends from 2000 to 2014 in peripheral artery disease incidence, overall and according to history of IHD at baseline

Year	Overall	IHD	No IHD
2000			
Population, n	540 918	67 713	473 205
Cases, n	1891	575	1316
Person-years	490 553	61 463	429 089
Incidence (95% CI)*	38.5 (36.8–40.3)	93.5 (86.2–101.5)	30.7 (29.0–32.4)
2005			
Population, n	1 008 929	121 781	887 148
Cases, n	2635	789	1846
Person-years	949 911	114 885	835 026
Incidence (95% CI)*	27.7 (26.7–28.8)	68.7 (64.0–73.6)	22.1(21.1–23.1)
2010			
Population, n	1 219 901	132 092	1 087 809
Cases, n	2211	592	1619
Person-years	1 135 809	122 635	1 013 174
Incidence (95% CI)*	19.5 (18.7–20.3)	48.3 (44.5–52.3)	16.0 (15.2–16.8)
2014			
Population, n	1 306 192	126 031	1 180 161
Cases, n	2050	499	1551
Person-years	1 182 588	114 760	1 067 828
Incidence (95% CI)*	17.3 (16.7–18.1)	43.5 (39.8–47.5)	14.5 (13.8–15.3)

*Incidence per 10 000 person–years.

CI, confidence interval; IHD, ischaemic heart disease.

Supplementary Table S3 Characteristics of patients with incident peripheral artery disease diagnosed in the years 2000, 2005, 2010, and 2014

Characteristic	Year 2000	Year 2005	Year 2010	Year 2014
	(n=1891)	(n=2635)	(n=2211)	(n=2050)
	n (%)	n (%)	n (%)	n (%)
Sex				
Male	1106 (58.5)	1542 (58.5)	1393 (63.0)	1267 (61.8)
Female	785 (41.5)	1093 (41.5)	818 (37.0)	783 (38.2)
Age, years				
50–59	260 (13.7)	412 (15.6)	368 (16.6)	361 (17.6)
60–69	537 (28.4)	762 (28.9)	708 (32.0)	636 (31.0)
70–79	745 (39.4)	950 (36.1)	688 (31.1)	631 (30.8)
80–89	349 (18.5)	511 (19.4)	447 (20.2)	422 (20.6)
Body mass index,* kg/m²				
15–19	87 (5.8)	150 (6.5)	142 (6.8)	132 (6.7)
20–24	539 (36.1)	718 (31.0)	626 (30.2)	559 (28.5)
25–29	581 (38.9)	919 (39.7)	761 (36.7)	705 (35.9)
≥30	286 (19.2)	527 (22.8)	546 (26.3)	567 (28.9)
Smoking status*				
Current smoker	672 (39.5)	922 (35.4)	771 (35.0)	731 (35.7)
Former smoker	454 (26.7)	1095 (42.0)	1033 (46.8)	930 (45.4)
Never smoked	575 (33.8)	588 (22.6)	402 (18.2)	388 (18.9)
Alcohol use, units/week*				
None	310 (20.7)	490 (21.7)	403 (20.7)	344 (18.7)
1–4	799 (53.3)	1113 (49.2)	913 (46.8)	895 (48.7)
5–9	243 (16.2)	401 (17.7)	385 (19.7)	329 (17.9)
10–15	95 (6.3)	159 (7.0)	143 (7.3)	177 (9.6)
≥20	53 (3.5)	98 (4.3)	107 (5.5)	94 (5.1)
Number of prescription medications				
≤1	773 (40.9)	910 (34.5)	711 (32.2)	624 (30.4)

Characteristic	Year 2000	Year 2005	Year 2010	Year 2014
	(n=1891)	(n=2635)	(n=2211)	(n=2050)
	n (%)	n (%)	n (%)	n (%)
2–4	635 (33.6)	746 (28.3)	568 (25.7)	520 (25.4)
≥5	483 (25.5)	979 (37.2)	932 (42.2)	906 (44.2)
Comorbidities				
MI	261 (13.8)	375 (14.2)	281 (12.7)	262 (12.8)
IHD without MI	483 (25.5)	638 (24.1)	470 (21.3)	386 (18.8)
Heart failure	204 (10.8)	243 (9.2)	161 (7.3)	178 (8.7)
Atrial fibrillation	175 (9.3)	276 (10.5)	297 (13.4)	250 (12.2)
Ischaemic stroke	145 (7.7)	182 (6.9)	177 (8.0)	184 (9.0)
TIA	173 (9.1)	190 (7.2)	158 (7.1)	147 (7.2)
Hyperlipidaemia	204 (10.8)	243 (9.2)	161 (7.3)	178 (8.7)
Diabetes mellitus	383 (20.3)	677 (25.7)	593 (26.8)	589 (28.7)
COPD	193 (10.2)	300 (11.4)	318 (14.4)	352 (17.2)
Asthma	237 (12.5)	400 (15.2)	422 (19.1)	424 (20.7)
Cancer	199 (10.5)	343 (13.0)	349 (15.8)	370 (18.0)
Depression	366 (19.4)	602 (22.8)	563 (25.5)	582 (28.4)
Dementia	256 (13.5)	439 (16.7)	464 (21.0)	495 (24.1)

*Excluding patients for whom this information was not known (overall, data on smoking status and alcohol use were missing for 2.6% and 14.1% of patients, respectively).

COPD, chronic obstructive pulmonary disease; IHD, ischaemic heart disease; MI, myocardial infarction; TIA, transient ischaemic attack.

Figure legend

Supplementary Figure S1 Time trends in the proportions of patients prescribed statin therapy in the 12 months before and 12 months after an incident diagnosis of PAD, with data for 2012–2014 restricted to primary care practices with at least 1 year of follow-up from the start date

Shaded area highlights the 2 months before and after the PAD diagnosis.

PAD, peripheral artery disease.