

**Supplementary Table 1 (online only).** Characteristics of participants with and without missing 1-year Peripheral Artery Questionnaire (PAQ) scores

	Missing	Total	12-month PAQ score	Missing 12-month PAQ score	SMD
<b>Demographic</b>					
Age, years <sup>a</sup>	0 (0.0)	67.58 (9.41)	67.65 (9.27)	67.20 (10.13)	0.046
Sex	0 (0.0)				
Male		793 (62.2)	676 (63.0)	117 (57.9)	0.104
Female		482 (37.8)	397 (37.0)	85 (42.1)	
Race	0 (0.0)				
Non-White		228 (17.9)	189 (17.6)	39 (19.3)	0.044
White		1047 (82.1)	884 (82.4)	163 (80.7)	
Married	7 (0.5)	753 (59.4)	636 (59.6)	117 (58.2)	0.028
Country	0 (0.0)				
Non-United States		478 (37.5)	407 (37.9)	71 (35.1)	0.058
United States		797 (62.5)	666 (62.1)	131 (64.9)	
<b>Socioeconomic</b>					
Education—high school or above	12 (0.9)	873 (69.1)	749 (70.3)	124 (62.9)	0.156
Insured	0 (0.0)	1265 (99.2)	1064 (99.2)	201 (99.5)	0.042
Working for pay	6 (0.5)	303 (23.9)	260 (24.3)	43 (21.4)	0.07
Avoidance of care due to cost	10 (0.8)	178 (14.1)	148 (13.9)	30 (14.9)	0.029
<b>Psychosocial</b>					
PHQ-8 depression score <sup>a</sup>	32 (2.5)	4.72 (5.03)	4.46 (4.80)	6.10 (5.95)	−0.303
PSS-4 stress score <sup>a</sup>	21 (1.6)	3.94 (3.40)	3.81 (3.30)	4.66 (3.82)	−0.239
GAD-2 anxiety score <sup>a</sup>	10 (0.8)	1.04 (1.58)	0.95 (1.51)	1.48 (1.87)	−0.311
Low social support (ESSI)	13 (1.0)	203 (16.1)	167 (15.7)	36 (18.1)	0.064
<b>Comorbidities</b>					
Alcohol abuse	0 (0.0)	78 (6.1)	63 (5.9)	15 (7.4)	0.062
Atrial fibrillation	0 (0.0)	143 (11.2)	125 (11.6)	18 (8.9)	0.09
Cancer	0 (0.0)	129 (10.1)	109 (10.2)	20 (9.9)	0.009
Chronic back pain	0 (0.0)	174 (13.6)	149 (13.9)	25 (12.4)	0.045
Chronic kidney disease	0 (0.0)	143 (11.2)	115 (10.7)	28 (13.9)	0.096
Chronic lung disease	0 (0.0)	220 (17.3)	176 (16.4)	44 (21.8)	0.137
Congestive heart failure	0 (0.0)	127 (10.0)	104 (9.7)	23 (11.4)	0.055
Depression, current	0 (0.0)	154 (12.1)	113 (10.5)	41 (20.3)	0.273
Diabetes	0 (0.0)	423 (33.2)	350 (32.6)	73 (36.1)	0.074
Dyslipidemia	0 (0.0)	1016 (79.7)	857 (79.9)	159 (78.7)	0.029
Hypertension	0 (0.0)	1018 (79.8)	865 (80.6)	153 (75.7)	0.118
Osteoarthritis (hip or knee)	0 (0.0)	118 (9.3)	98 (9.1)	20 (9.9)	0.026
PCI/CABG	0 (0.0)	447 (35.1)	382 (35.6)	65 (32.2)	0.072
Prior CVA	0 (0.0)	98 (7.7)	80 (7.5)	18 (8.9)	0.053
Prior TIA	0 (0.0)	69 (5.4)	55 (5.1)	14 (6.9)	0.076
Sleep apnea	0 (0.0)	103 (8.1)	90 (8.4)	13 (6.4)	0.075
Smoking status	3 (0.2)	1134 (89.2)	957 (89.4)	177 (88.1)	0.041
BMI, m <sup>2</sup> /kg <sup>a</sup>	273 (21.4)	28.96 (6.04)	29.10 (6.05)	28.20 (5.95)	0.15
<b>PAD characteristics</b>					
Duration of symptoms—>6 months	182 (14.3)	735 (67.2)	626 (67.8)	109 (64.1)	0.078
Symptomatic leg(s)—single	0 (0.0)	628 (49.3)	530 (49.4)	98 (48.5)	0.018
Prior surgical bypass	0 (0.0)	102 (8.0)	83 (7.7)	19 (9.4)	0.06
Prior endovascular intervention	0 (0.0)	351 (27.5)	291 (27.1)	60 (29.7)	0.057
Symptom presentation—new onset	0 (0.0)	667 (52.3)	560 (52.2)	107 (53.0)	0.016

(Continued on next page)

**Supplementary Table I (online only).** Continued.

	Missing	Total	12-month PAQ score	Missing 12-month PAQ score	SMD
Rutherford symptom classification	20 (1.6)				
Mild/moderate		906 (72.2)	758 (71.5)	148 (75.9)	0.1
Severe		349 (27.8)	302 (28.5)	47 (24.1)	
ABI <sup>a</sup>	7 (0.5)	0.67 (0.19)	0.67 (0.19)	0.66 (0.19)	0.016
Symptom type—typical	372 (29.2)	757 (83.8)	643 (84.9)	114 (78.1)	0.177
Initial invasive treatment	0 (0.0)	316 (24.8)	281 (26.2)	35 (17.2)	0.216
PAD care metrics					
Referral to SET	71 (5.6)	280 (23.3)	229 (22.7)	51 (26.0)	0.077
Statin prescribed	6 (0.5)	1023 (80.6)	864 (81.0)	159 (78.7)	0.056
Antiplatelet prescribed	6 (0.5)	978 (77.1)	824 (77.2)	154 (76.2)	0.023
Cilostazol prescribed	6 (0.5)	151 (11.9)	129 (12.1)	22 (10.9)	0.038
Physical activity level—sedentary	21 (1.6)	514 (41.0)	414 (39.2)	100 (50.5)	0.229
Baseline health status					
EQ-5D-VAS score <sup>a</sup>	74 (5.8)	66.23 (19.26)	66.66 (19.00)	63.92 (20.48)	0.139
PAQ summary score <sup>a</sup>	1 (0.08)	49.14 (21.84)	49.75 (21.68)	45.89 (22.49)	0.175
<i>ABI</i> , Ankle brachial index; <i>BMI</i> , body mass index; <i>CABG</i> , coronary artery bypass graft; <i>CVA</i> , cerebrovascular accident; <i>EQ-5D-VAS</i> , EuroQoL Five Dimensions Questionnaire visual analog scale; <i>ESSI</i> , ENRICH Social Support Inventory; <i>GAD-2</i> , Generalized Anxiety Disorder-2 Item; <i>PAD</i> , peripheral artery disease; <i>PCI</i> , percutaneous coronary intervention; <i>PHQ-8</i> , Patient Health Questionnaire-8 Item; <i>PSS-4</i> , Perceived Stress Scale-4 Item; <i>SET</i> , supervised exercise therapy; <i>SMD</i> , standardized mean difference; <i>TIA</i> , transient ischemic attack.					
<sup>a</sup> Analyzed continuously as mean (standard deviation); all other variables shown as number (%).					

**Supplementary Table II (online only).** Correlation matrix for variables of importance in the random forest model

	PAQ summary score (baseline)	PHQ-8 depression	GAD-2 anxiety	Symptom presentation	Insurance	History of depression	Low social support	Invasive treatment	Symptom duration	Race
PAQ summary score (baseline)	1.00									
PHQ-8 depression	-0.53	1.00								
GAD-2 anxiety	-0.36	0.59	1.00							
Symptom presentation	-0.04	-0.04	-0.03	1.00						
Insurance	0.03	-0.07	-0.01	0.01	1.00					
History of depression	-0.12	0.18	0.17	0.06	-0.08	1.00				
Low social support	-0.19	0.25	0.16	0.02	-0.05	0.07	1.00			
Invasive treatment	-0.14	-0.01	0.01	0.04	-0.03	-0.03	-0.10	1.00		
Symptom duration	-0.02	0.05	-0.01	0.34	-0.03	0.03	0.08	-0.12	1.00	
Race	0.08	-0.04	-0.01	-0.16	0.10	-0.11	-0.05	-0.01	-0.07	1.00

GAD-2, Generalized Anxiety Disorder-2 Item; PAQ, Peripheral Artery Questionnaire; PHQ-8, Patient Health Questionnaire-8 Item. Values shown are the Pearson correlation coefficient.

**Supplementary Table III (online only).** Model estimates and confidence intervals (CIs) for variables in the base and extended models predicting the 1-year mean Peripheral Artery Questionnaire (PAQ) score

Variable	Base model		Extended model	
	Estimate (95% CI)	P value	Estimate (95% CI)	P value
Baseline PAQ summary score (per 10 points)	4.74 (3.93, 5.54)	<.001	4.32 (3.48, 5.16)	<.001
PHQ-8 depression	-0.39 (-0.81, 0.25)	.066	-0.37 (-0.80, 0.06)	.089
GAD-2 anxiety	-0.31 (-1.4, 0.86)	.603	-0.25 (-1.45, 0.95)	.682
Symptom presentation	-4.51 (-7.71, 1.31)	.006	-3.66 (-7.11, -0.21)	.038
Insurance	-18.24 (-43.02, 6.54)	.149	-17.71 (-42.29, 6.87)	.158
History of depression	-6.77 (-11.75, -1.77)	.008	-5.09 (-10.10, -0.08)	.047
Low social support	-5.77 (-9.79, -1.76)	.005	-6.40 (-10.44, -2.36)	.002
Invasive treatment	12.93 (8.75, 19.11)	<.001	12.29 (7.11, 17.48)	<.001
Symptom duration	-3.23 (-6.37, -0.09)	.044	-2.69 (-5.88, 0.049)	.097
Race	31.29 (14.45, 48.12)	<.001	31.30 (14.56, 48.04)	<.001
Age (per 10 years)	—	—	-2.66 (-0.44, -0.09)	.003
Sex (female)	—	—	-2.02 (-5.25, 1.20)	.219
>High school education	—	—	0.85 (-2.54, 4.24)	.624
Cancer	—	—	1.28 (-3.61, 6.18)	.606
Lung disease	—	—	-3.71 (-7.62, 0.19)	.062
Diabetes	—	—	-2.69 (-6.01, 0.62)	.112
PCI/CABG	—	—	1.71 (-1.54, 4.96)	.303
Sleep apnea	—	—	-2.95 (-8.59, 2.70)	.306
Back pain	—	—	0.61 (-3.53, 4.75)	.772
ABI	—	—	0.04 (-7.93, 8.02)	.992
CVA	—	—	-5.38 (-10.68, -0.08)	.047
Osteoarthritis	—	—	0.30 (-5.08, 5.68)	.912
CKD	—	—	-5.43 (-10.36, -0.52)	.030
Smoking	—	—	-1.80 (-6.81, 3.20)	.480
BMI	—	—	-0.22 (-0.50, 0.53)	.113
Prior PVI	—	—	-0.05 (-3.65, 3.54)	.977
Atypical symptoms	—	—	-0.16 (-4.23, 3.90)	.937
Activity level (nonsedentary)	—	—	1.01 (-2.13, 4.15)	.528
Avoidance of care due to cost	—	—	-8.41 (-12.68, -4.14)	<.001

ABI, Ankle brachial index; BMI, body mass index; CABG, coronary artery bypass graft; CKD, chronic kidney disease; CVA, cerebrovascular accident; GAD-2, Generalized Anxiety Disorder-2 Item; PCI, percutaneous coronary intervention; PHQ-8, Patient Health Questionnaire-8 Item; PVI, peripheral vascular intervention.

**Supplementary Table IV (online only).** Model estimates and confidence intervals (CIs) for variables in the base predicting the 1-year mean Peripheral Artery Questionnaire (PAQ) score stratified by country (United States vs non-United States)

Variable	United States		Non-United States	
	Estimate (95% CI)	P value	Estimate (95% CI)	P value
PAQ summary score (baseline, per 10 points)	4.66 (3.79, 5.59)	<.001	4.49 (3.33, 5.65)	<.001
PHQ-8 depression	-0.15 (-0.63, 0.33)	.541	-0.5 (-1.17, 0.04)	.068
GAD-2 anxiety	-1.91 (-3.30, -0.52)	.007	0.87 (-0.78, 2.52)	.300
Symptom presentation	-2.74 (-6.27, 0.79)	.127	-8.32 (-13.13, -3.50)	.001
Insurance	16.26 (0.90, 31.61)	.038	0 (omitted)	N/A
History of depression	-5.58 (-10.55, -0.62)	.028	-6.75 (-15.65, 2.14)	.136
Low social support	-4.06 (-8.83, 0.71)	.095	-10.34 (-15.91, -4.77)	<.001
Invasive treatment	7.52 (3.84, 11.20)	<.001	13.43 (8.29, 18.59)	<.001
Symptom duration	-5.04 (-8.87, -1.22)	.010	-0.63 (-4.99, 3.72)	.774
Race	3.74 (0.02, 7.47)	.049	30.35 (13.64, 47.07)	<.001

*GAD-2*, Generalized Anxiety Disorder-2 Item; N/A, not applicable; *PHQ-8*, Patient Health Questionnaire-8 Item.