

Supplementary Table S1

Associations between ABO blood type and ABO allele counts and Exam 1 ABI by race/ethnicity.^{a,b,c}

<i>ABO Blood Type</i>	Pooled Race/Ethnicity^d			African American		Chinese American		Hispanic American		Non-Hispanic White American	
	Beta (SE)	p-value	Interaction p-value	Beta (SE)	p-value	Beta (SE)	p-value	Beta (SE)	p-value	Beta (SE)	p-value
O (Ref.)	-	-	0.48	-	-	-	-	-	-	-	-
A	-0.003 (0.003)	0.36	-	-0.017 (0.007)	0.020	-0.006 (0.008)	0.46	0.006 (0.006)	0.30	0.000 (0.005)	0.95
B	-0.004 (0.007)	0.85	-	-0.005 (0.009)	0.57	0.000 (0.008)	0.97	0.007 (0.009)	0.43	-0.004 (0.001)	0.58
AB	0.000 (0.004)	0.52	-	-0.005 (0.014)	0.75	0.008 (0.012)	0.48	-0.010 (0.017)	0.57	-0.009 (0.011)	0.40
<i>ABO Allele Count</i>	Beta (SE)	p-value	Interaction p-value	Beta (SE)	p-value	Beta (SE)	p-value	Beta (SE)	p-value	Beta (SE)	p-value
O (Ref.)	-	-	0.20	-	-	-	-	-	-	-	-
A	-0.003 (0.002)	0.14	-	-0.016 (0.006)	0.007	-0.004 (0.006)	0.45	0.006 (0.005)	0.22	-0.002 (0.003)	0.59
B	-0.001 (0.003)	0.65	-	-0.001 (0.007)	0.84	0.003 (0.006)	0.58	0.002 (0.007)	0.77	0.006 (0.006)	0.27

ABI: ankle brachial index, SE: standard error.

^a ABI at Exam 1 excluding ABI > 1.4.

^b ABI = ankle brachial index; SE = standard error

^c Adjusted for age, sex, BMI, smoking status, diabetes, hypertension, total cholesterol, HDL, SBP, and leading ancestry informative PCs.

^d Pooled analyses adjusted for race/ethnicity using PCs; Interaction tests based on self-reported race/ethnicity.

Supplementary Table S2

Associations between ABO Blood Group and ABO allele counts and prevalent Peripheral Artery Disease by race/ethnicity.^{a,b,c}

<i>ABO Blood Type</i>	Pooled Race/Ethnicity^d			African American		Chinese American		Hispanic American		Non-Hispanic White American	
	OR (95% CI)	p-value	Interaction P-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value
O (Ref.)	-	-	0.15	-	-	-	-	-	-	-	-
A	1.14 (0.83,1.56)	0.41	-	1.72 (1.06,2.78)	0.027	7.07 (1.15,70.1)	0.05	0.48 (0.17,1.21)	0.14	0.86 (0.51,1.44)	0.57
B	0.67 (0.40,1.06)	0.40	-	0.62 (0.28,1.23)	0.19	2.94 (0.38,31.8)	0.32	0.26 (0.14,1.33)	0.19	0.89 (0.35,1.96)	0.78
AB	1.32 (0.66,2.45)	0.10	-	1.72 (0.56,4.38)	0.30	3.72 (0.14,59.1)	0.35	0.46 (0.13,4.94)	0.60	1.19 (0.38,3.07)	0.73
<i>ABO Allele Count</i>	OR (95% CI)	p-value	Interaction P-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value
O (Ref.)	-	-	0.058	-	-	-	-	-	-	-	-
A	1.24 (0.97,1.56)	0.076	-	1.70 (1.18,2.44)	0.0042	2.26 (0.84,6.33)	0.11	0.51 (0.19,1.17)	0.14	1.01 (0.69,1.47)	0.94
B	0.81 (0.56,1.15)	0.26	-	0.74 (0.42,1.23)	0.27	1.27 (0.29,4.78)	0.73	0.36 (0.05,1.28)	0.19	1.09 (0.57,1.91)	0.78

CI: confidence interval, OR: odds ratio.

^a Prevalent PAD defined as ABI \leq 0.9, excluding ABI $>$ 1.4.

^b CI = confidence interval; OR = odds ratio.

^c Adjusted for age, sex, BMI, smoking status, diabetes, hypertension, total cholesterol, HDL, SBP, and leading ancestry informative PCs.

^d Pooled analyses adjusted for race/ethnicity using PCs; Interaction tests based on self-reported race/ethnicity.

Supplementary Table S3

Associations between ABO Blood Group and ABO allele counts and incident peripheral artery disease by race/ethnicity.^{a,b,c}

<i>ABO Blood Type</i>	Pooled Race/Ethnicity^d			African American		Chinese American		Hispanic American		Non-Hispanic White American	
	HR (95% CI)	p-value	Interaction p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
O (Ref.)	-	-	0.41	-	-	-	-	-	-	-	-
A	1.04 (0.77,1.40)	0.80	-	1.38 (0.84,2.25)	0.20	0.98 (0.24,4.03)	0.98	1.24 (0.62,2.46)	0.54	0.75 (0.47,1.20)	0.23
B	1.17 (0.82,1.69)	0.39	-	1.41 (0.48,3.12)	0.21	0.65 (0.16,2.66)	0.55	1.43 (0.60,3.41)	0.42	0.98 (0.47,2.02)	0.95
AB	1.03 (0.54,1.98)	0.92	-	1.22 (4.78,3.12)	0.68	0.85 (0.09,7.73)	0.89	3.65 (1.06,12.6)	0.041	0.23 (0.03,1.75)	0.15
<i>ABO Allele Count</i>	HR (95% CI)	p-value	Interaction p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
O (Ref.)	-	-	0.61	-	-	-	-	-	-	-	-
A	1.02 (0.81,1.28)	0.88	-	1.17 (0.80,1.72)	0.41	1.30 (0.45,3.73)	0.63	1.22 (0.69,2.15)	0.49	0.82 (0.57,1.18)	0.28
B	1.13 (0.86,1.50)	0.38	-	1.22 (0.82,1.81)	0.33	0.68 (0.22,2.13)	0.51	1.61 (0.85,3.05)	0.14	0.87 (0.47,1.63)	0.67

CI: confidence interval, HR: hazard ratio.

^a Incident PAD is defined as ABI \leq 0.9 at Exam 3 or Exam 5, excluding ABI $>$ 1.4 and prevalent PAD cases.

^b CI = confidence interval; HR = hazard ratio.

^c Adjusted for age, sex, BMI, smoking status, diabetes, hypertension, total cholesterol, HDL, SBP, and leading ancestry informative PCs.

^d Pooled analyses adjusted for race/ethnicity using PCs; Interaction tests based on self-reported race/ethnicity.

Supplementary Table S4

Characteristics of prevalent and incident peripheral arterial disease (PAD) for African Americans (standard deviation) or N (percentage).

Characteristics	Prevalent PAD	Incident PAD	p-value
n	101	95	
Age, years	71 (8.2)	66 (8.9)	< 0.0001
Sex (Female)	53 (52)	50 (53)	0.99
Body mass index, kg/m ²	28 (5.7)	30 (5.5)	0.13
Hypertension (Yes)	80 (79)	62 (65)	0.02
Systolic blood pressure, mmHg	143 (27)	134 (21)	0.01
Diabetes mellitus (Yes)	24 (24)	22 (23)	0.98
Total cholesterol, mg/dL	192 (38)	192 (37)	0.77
HDL cholesterol, mg/dL	51 (15)	51 (15)	0.91
Smoking status			0.96
Never	41 (41)	37 (39)	
Former	35 (35)	36 (38)	
Current	25 (25)	22 (23)	

HDL: high-density lipoprotein, PAD: peripheral arterial disease.