

APPENDIX K-1.

Dependent Variable-Covariate Associations for the Cardiovascular Assessment

Appendix K-1-1 contains results of tests of associations between each dependent variable and candidate covariates for the adjusted analysis of each dependent variable. Pearson's chi-square test (continuity-adjusted for 2×2 tables) is used for significance testing of the associations between each discrete dependent variable and the candidate covariate. When a candidate covariate is continuous in nature (e.g., age), the covariate is discretized prior to the analysis of the discrete dependent variable. Pearson's correlation coefficient is used for significance testing of the associations between each continuous dependent variable and a continuous candidate covariate. When a candidate covariate is discrete in nature and the dependent variable is continuous, means (transformed back to the original scale, if necessary) are presented and an analysis of variance is used to investigate the difference between the means.

Associations Between the Cardiovascular Physical Examination Findings and Verified Essential Hypertension, Verified Heart Disease, and Verified Myocardial Infarction

Appendix Table K-1-2 contains the results of associations between the central and peripheral physical examination findings and the verified cardiovascular disease endpoints. Pearson's continuity-adjusted chi-square test is used for significance testing of the associations between each discrete variable and the verified cardiovascular history endpoints. When a physical examination endpoint is continuous in nature (e.g., systolic blood pressure), the means are presented and an analysis of variance is used to investigate the difference between the means.

Table K-1-1.
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Age			Race		
		Born ≥ 1942	Born < 1942	p-Value	Black	Non-Black	p-Value
Essential Hypertension	Yes	(n=942) 30.1%	(n=1,236) 44.7%	<0.001	(n=125) 44.0%	(n=2,053) 38.1%	0.221
Heart Disease (Excluding Essential Hypertension)	Yes	(n=948) 39.7%	(n=1,254) 55.5%	<0.001	(n=126) 49.2%	(n=2,076) 48.8%	0.999
Myocardial Infarction	Yes	(n=948) 2.5%	(n=1,254) 10.0%	<0.001	(n=126) 3.2%	(n=2,076) 7.0%	0.137
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=948) $r=0.215$ 9.8%	(n=1,253) 19.7%	<0.001 <0.001	(n=126) $\bar{x}=123.93$ 15.9%	(n=2,075) $\bar{x}=121.84$ 15.4%	0.217 0.993
Heart Sounds	Abnormal	(n=945) 20.0%	(n=1,250) 20.6%	0.788	(n=126) 26.2%	(n=2,069) 20.0%	0.116
Overall Electrocardiograph (ECG)	Abnormal	(n=947) 12.5%	(n=1,253) 29.7%	<0.001	(n=126) 28.6%	(n=2,074) 21.9%	0.101
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=948) 0.7%	(n=1,252) 1.9%	0.032	(n=126) 3.2%	(n=2,074) 1.3%	0.179
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=948) 0.3%	(n=1,252) 0.6%	0.449	(n=126) 0.0%	(n=2,074) 0.5%	0.866
ECG: Non-specific ST-and T-Wave Changes	Abnormal	(n=948) 7.7%	(n=1,252) 19.4%	<0.001	(n=126) 23.8%	(n=2,074) 13.8%	0.003
ECG: Bradycardia	Abnormal	(n=948) 3.0%	(n=1,254) 2.5%	0.576	(n=126) 2.4%	(n=2,076) 2.7%	0.999
ECG: Tachycardia	Abnormal	(n=948) 0.2%	(n=1,254) 0.2%	0.999	(n=126) 0.0%	(n=2,076) 0.2%	0.999
ECG: Arrhythmia	Abnormal	(n=948) 2.4%	(n=1,253) 6.2%	<0.001	(n=126) 3.2%	(n=2,075) 4.7%	.574
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=946) 1.2%	(n=1,250) 5.1%	<0.001	(n=126) 0.8%	(n=2,070) 3.6%	0.157
ECG: Other Diagnoses	Abnormal	(n=948) 0.5%	(n=1,254) 0.8%	0.616	(n=126) 0.8%	(n=2,076) 0.7%	0.999

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Occupation			p-Value
		Officer	Enlisted Flyer	Enlisted Groundcrew	
Essential Hypertension	Yes	(n=843) 38.8%	(n=358) 41.3%	(n=977) 37.1%	0.348
Heart Disease (Excluding Essential Hypertension)	Yes	(n=853) 54.2%	(n=362) 49.7%	(n=987) 44.0%	<0.001
Myocardial Infarction	Yes	(n=853) 6.3%	(n=362) 9.1%	(n=987) 6.4%	0.163
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=853) $\bar{x}=123.46$ 17.5%	(n=361) $\bar{x}=122.00$ 15.8%	(n=987) $\bar{x}=120.65$ 13.6%	0.005 0.069
Heart Sounds	Abnormal	(n=852) 22.7%	(n=360) 18.1%	(n=983) 19.1%	0.088
Overall Electrocardiograph (ECG)	Abnormal	(n=852) 24.9%	(n=362) 25.7%	(n=986) 18.8%	0.002
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=852) 1.1%	(n=361) 1.9%	(n=987) 1.5%	0.454
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=852) 0.9%	(n=361) 0.3%	(n=987) 0.2%	0.067
ECG: Non-specific ST-and T-Wave Changes	Abnormal	(n=852) 14.8%	(n=361) 19.1%	(n=987) 12.3%	0.006
ECG: Bradycardia	Abnormal	(n=853) 3.6%	(n=362) 2.2%	(n=987) 2.0%	0.086
ECG: Tachycardia	Abnormal	(n=853) 0.2%	(n=362) 0.0%	(n=987) 0.3%	0.582
ECG: Arrhythmia	Abnormal	(n=852) 5.2%	(n=362) 5.0%	(n=987) 4.0%	0.431
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=849) 4.0%	(n=362) 4.1%	(n=985) 2.6%	0.195
ECG: Other Diagnoses	Abnormal	(n=853) 0.6%	(n=362) 0.8%	(n=987) 0.7%	0.886

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Lifetime Cigarette Smoking History (pack-years)			p-Value
		0	>0-10	>10	
Essential Hypertension	Yes	(n=600) 38.5%	(n=665) 35.2%	(n=910) 40.9%	0.072
Heart Disease (Excluding Essential Hypertension)	Yes	(n=604) 47.4%	(n=671) 46.3%	(n=924) 51.7%	0.071
Myocardial Infarction	Yes	(n=604) 3.3%	(n=671) 6.1%	(n=924) 9.6%	<0.001
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=604) 16.9%	(n=671) r=0.001 13.9%	(n=923) 15.7%	0.999 0.317
Heart Sounds	Abnormal	(n=604) 25.3%	(n=668) 19.2%	(n=920) 17.8%	0.001
Overall Electrocardiograph (ECG)	Abnormal	(n=603) 21.2%	(n=671) 18.0%	(n=923) 26.0%	0.001
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=603) 1.2%	(n=671) 1.0%	(n=923) 1.8%	0.340
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=603) 0.7%	(n=671) 0.6%	(n=923) 0.3%	0.602
ECG: Non-specific ST- and T-Wave Changes	Abnormal	(n=603) 13.3%	(n=671) 10.6%	(n=923) 17.9%	<0.001
ECG: Bradycardia	Abnormal	(n=604) 3.0%	(n=671) 2.8%	(n=924) 2.4%	0.747
ECG: Tachycardia	Abnormal	(n=604) 0.2%	(n=671) 0.3%	(n=924) 0.2%	0.881
ECG: Arrhythmia	Abnormal	(n=603) 4.6%	(n=671) 4.2%	(n=924) 4.9%	0.804
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=601) 1.7%	(n=671) 2.7%	(n=921) 5.1%	0.001
ECG: Other Diagnoses	Abnormal	(n=604) 0.8%	(n=671) 0.0%	(n=924) 1.1%	0.030

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Current Cigarette Smoking (cigarettes/day)					p-Value
		0-Never Smoked	0-Fomer Smoker	>0-20	>20		
Essential Hypertension	Yes	--	--	--	--	--	--
Heart Disease (Excluding Essential Hypertension)	Yes	--	--	--	--	--	--
Myocardial Infarction	Yes	--	--	--	--	--	--
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=604) 16.9%	(n=1,042) 17.2%	(n=342) <i>r</i> =-0.122 11.4%	(n=211) 9.5%		<0.001 0.004
Heart Sounds	Abnormal	(n=604) 25.3%	(n=1,038) 19.7%	(n=340) 17.4%	(n=211) 13.3%		<0.001
Overall Electrocardiograph (ECG)	Abnormal	(n=603) 21.2%	(n=1,042) 23.1%	(n=342) 22.2%	(n=211) 20.9%		0.785
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=603) 1.2%	(n=1,043) 1.7%	(n=341) 0.9%	(n=211) 1.4%		0.635
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=603) 0.7%	(n=1,043) 0.7%	(n=341) 0.0%	(n=211) 0.0%		0.295
ECG: Non-specific ST-and T-Wave Changes	Abnormal	(n=603) 13.3%	(n=1,043) 15.6%	(n=341) 13.5%	(n=211) 12.8%		0.462
ECG: Bradycardia	Abnormal	(n=604) 3.0%	(n=1,043) 2.5%	(n=342) 3.2%	(n=211) 1.9%		0.748
ECG: Tachycardia	Abnormal	(n=604) 0.2%	(n=1,043) 0.3%	(n=342) 0.0%	(n=211) 0.5%		0.656
ECG: Arrhythmia	Abnormal	(n=603) 4.6%	(n=1,043) 4.4%	(n=342) 4.4%	(n=211) 5.7%		0.875
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=601) 1.7%	(n=1,040) 3.7%	(n=342) 5.3%	(n=211) 4.3%		0.021
ECG: Other Diagnoses	Abnormal	(n=604) 0.8%	(n=1,043) 0.4%	(n=342) 1.5%	(n=211) 0.5%		0.189

--: Covariate not applicable for dependent variable.

Note: Correlations (*r*) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Lifetime Alcohol History (drink-years)			p-Value
		0	>0-40	>40	
Essential Hypertension	Yes	(n=134) 38.8%	(n=1,458) 34.5%	(n=544) 48.5%	<0.001
Heart Disease (Excluding Essential Hypertension)	Yes	(n=134) 47.0%	(n=1,473) 48.3%	(n=553) 50.3%	0.679
Myocardial Infarction	Yes	(n=134) 10.4%	(n=1,473) 6.1%	(n=553) 7.8%	0.093
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=134) 17.2%	(n=1,472) r=0.048 15.3%	(n=553) 15.6%	0.027 0.846
Heart Sounds	Abnormal	(n=134) 16.4%	(n=1,468) 20.5%	(n=552) 20.1%	0.529
Overall Electrocardiograph (ECG)	Abnormal	(n=134) 23.9%	(n=1,471) 21.7%	(n=553) 23.1%	0.694
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=134) 0.7%	(n=1,471) 1.4%	(n=553) 1.6%	0.725
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=134) 0.0%	(n=1,471) 0.7%	(n=553) 0.2%	0.259
ECG: Non-specific ST- and T-Wave Changes	Abnormal	(n=134) 16.4%	(n=1,471) 13.9%	(n=553) 15.0%	0.625
ECG: Bradycardia	Abnormal	(n=134) 2.2%	(n=1,473) 2.9%	(n=553) 2.2%	0.615
ECG: Tachycardia	Abnormal	(n=134) 0.7%	(n=1,473) 0.2%	(n=553) 0.2%	0.439
ECG: Arrhythmia	Abnormal	(n=134) 6.7%	(n=1,472) 4.6%	(n=553) 4.2%	0.444
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=134) 4.5%	(n=1,470) 3.4%	(n=551) 3.3%	0.782
ECG: Other Diagnoses	Abnormal	(n=134) 1.5%	(n=1,473) 0.7%	(n=553) 0.5%	0.490

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Cholesterol (mg/dl)			p-Value
		0-200	>200-239	>239	
Essential Hypertension	Yes	(n=710) 34.8%	(n=868) 38.0%	(n=599) 43.4%	0.006
Heart Disease (Excluding Essential Hypertension)	Yes	(n=715) 50.2%	(n=880) 50.5%	(n=606) 45.1%	0.085
Myocardial Infarction	Yes	(n=715) 6.7%	(n=880) 7.0%	(n=606) 6.6%	0.937
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=715) 14.4%	(n=879) r=0.076 14.4%	(n=606) 18.2%	<0.001 0.097
Heart Sounds	Abnormal	(n=714) 21.7%	(n=875) 20.1%	(n=605) 19.0%	0.469
Overall Electrocardiograph (ECG)	Abnormal	(n=715) 21.7%	(n=880) 22.7%	(n=604) 22.4%	0.881
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=715) 1.5%	(n=879) 1.1%	(n=605) 1.7%	0.667
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=715) 0.4%	(n=879) 0.6%	(n=605) 0.5%	0.915
ECG: Non-specific ST-and T-Wave Changes	Abnormal	(n=715) 12.7%	(n=879) 15.0%	(n=605) 15.4%	0.307
ECG: Bradycardia	Abnormal	(n=715) 3.5%	(n=880) 2.7%	(n=606) 1.7%	0.117
ECG: Tachycardia	Abnormal	(n=715) 0.1%	(n=880) 0.3%	(n=606) 0.2%	0.655
ECG: Arrhythmia	Abnormal	(n=715) 4.9%	(n=880) 4.7%	(n=605) 4.1%	0.798
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=714) 3.4%	(n=879) 3.4%	(n=602) 3.5%	0.992
ECG: Other Diagnoses	Abnormal	(n=715) 0.6%	(n=880) 0.7%	(n=606) 0.8%	0.843

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	HDL (mg/dl)			Body Fat		
		Normal: >35	Low: 0-35	p-Value	Obese: >25%	Lean or Normal: ≤25%	p-Value
Essential Hypertension	Yes	(n=1,598) 36.5%	(n=555) 43.1%	0.006	(n=549) 57.0%	(n=1,629) 32.2%	<0.001
Heart Disease (Excluding Essential Hypertension)	Yes	(n=1,615) 48.9%	(n=561) 49.0%	0.985	(n=561) 50.1%	(n=1,641) 48.4%	0.533
Myocardial Infarction	Yes	(n=1,615) 5.5%	(n=561) 10.5%	<0.001	(n=561) 8.0%	(n=1,641) 6.4%	0.222
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=1,614) $r=-0.016$	(n=561)	0.443	(n=561) $r=0.273$	(n=1,640)	<0.001
Heart Sounds	Abnormal	(n=1,609) 20.1%	(n=560) 20.9%	0.724	(n=560) 24.6%	(n=1,635) 18.8%	0.004
Overall Electrocardiograph (ECG)	Abnormal	(n=1,613) 21.5%	(n=561) 24.4%	0.172	(n=561) 25.0%	(n=1,639) 21.4%	0.087
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=1,613) 1.4%	(n=561) 1.6%	0.836	(n=561) 1.4%	(n=1,639) 1.4%	0.999
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=1,613) 0.7%	(n=561) 0.0%	0.106	(n=561) 0.7%	(n=1,639) 0.4%	0.630
ECG: Non-specific ST-and T-Wave Changes	Abnormal	(n=1,613) 13.6%	(n=561) 16.4%	0.115	(n=561) 18.4%	(n=1,639) 13.0%	0.002
ECG: Bradycardia	Abnormal	(n=1,615) 3.0%	(n=561) 1.8%	0.155	(n=561) 0.7%	(n=1,641) 3.4%	0.001
ECG: Tachycardia	Abnormal	(n=1,615) 0.2%	(n=561) 0.4%	0.829	(n=561) 0.2%	(n=1,641) 0.2%	0.999
ECG: Arrhythmia	Abnormal	(n=1,614) 4.2%	(n=561) 5.7%	0.161	(n=561) 4.1%	(n=1,640) 4.8%	0.600
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=1,611) 2.5%	(n=559) 5.9%	<0.001	(n=559) 3.6%	(n=1,637) 3.4%	0.912
ECG: Other Diagnoses	Abnormal	(n=1,615) 0.6%	(n=561) 1.1%	0.333	(n=561) 0.2%	(n=1,641) 0.9%	0.167

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Diabetic Class			p-Value
		Normal	Impaired	Diabetic	
Essential Hypertension	Yes	(n=1,622) 32.2%	(n=242) 54.1%	(n=311) 58.8%	<0.001
Heart Disease (Excluding Essential Hypertension)	Yes	(n=1,632) 47.5%	(n=247) 53.0%	(n=320) 52.8%	0.084
Myocardial Infarction	Yes	(n=1,632) 5.3%	(n=247) 10.5%	(n=320) 11.9%	<0.001
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=1,631) $\bar{x}=119.49$ 11.8%	(n=247) $\bar{x}=126.39$ 22.7%	(n=320) $\bar{x}=131.11$ 28.4%	<0.001 <0.001
Heart Sounds	Abnormal	(n=1,627) 19.7%	(n=246) 18.3%	(n=319) 24.5%	0.114
Overall Electrocardiograph (ECG)	Abnormal	(n=1,631) 19.1%	(n=247) 26.7%	(n=319) 35.1%	<0.001
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=1,631) 1.1%	(n=247) 1.2%	(n=319) 3.1%	0.018
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=1,631) 0.5%	(n=247) 0.4%	(n=319) 0.6%	0.927
ECG: Non-specific ST-and T-Wave Changes	Abnormal	(n=1,631) 12.0%	(n=247) 16.6%	(n=319) 24.5%	<0.001
ECG: Bradycardia	Abnormal	(n=1,632) 3.2%	(n=247) 1.2%	(n=320) 0.9%	0.021
ECG: Tachycardia	Abnormal	(n=1,632) 0.2%	(n=247) 0.4%	(n=320) 0.0%	0.578
ECG: Arrhythmia	Abnormal	(n=1,631) 3.7%	(n=247) 6.9%	(n=320) 7.2%	0.005
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=1,628) 2.6%	(n=247) 4.5%	(n=318) 6.6%	0.001
ECG: Other Diagnoses	Abnormal	(n=1,632) 0.7%	(n=247) 0.4%	(n=320) 0.9%	0.745

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Personality Type			Family History of Heart Disease		
		A	B	p-Value	No	Yes	p-Value
Essential Hypertension	Yes	(n=932) 36.6%	(n=1,244) 39.8%	0.140	(n=918) 31.9%	(n=1,234) 43.4%	<0.001
Heart Disease (Excluding Essential Hypertension)	Yes	(n=942) 50.5%	(n=1,258) 47.6%	0.190	(n=926) 44.1%	(n=1,250) 52.6%	<0.001
Myocardial Infarction	Yes	(n=942) 6.6%	(n=1,258) 7.0%	0.768	(n=926) 4.4%	(n=1,250) 8.6%	<0.001
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=941) $\bar{x}=121.21$ 13.5%	(n=1,258) $\bar{x}=122.53$ 16.9%	0.097 0.032	(n=926) $\bar{x}=120.94$ 14.9%	(n=1,249) $\bar{x}=122.61$ 15.9%	0.037 0.585
Heart Sounds	Abnormal	(n=938) 21.0%	(n=1,255) 19.8%	0.508	(n=922) 20.0%	(n=1,247) 20.7%	0.715
Overall Electrocardiograph (ECG)	Abnormal	(n=940) 21.9%	(n=1,258) 22.6%	0.752	(n=925) 20.4%	(n=1,249) 23.5%	0.104
ECG: Right Bundle Branch Block (RBBB)	Abnormal	(n=941) 1.4%	(n=1,257) 1.4%	0.999	(n=926) 1.4%	(n=1,248) 1.4%	0.999
ECG: Left Bundle Branch Block (LBBB)	Abnormal	(n=941) 0.4%	(n=1,257) 0.6%	0.898	(n=926) 0.5%	(n=1,248) 0.5%	0.999
ECG: Non-specific ST-and T-Wave Changes	Abnormal	(n=941) 13.7%	(n=1,257) 14.9%	0.477	(n=926) 13.9%	(n=1,248) 14.7%	0.675
ECG: Bradycardia	Abnormal	(n=942) 3.1%	(n=1,258) 2.4%	0.388	(n=926) 2.4%	(n=1,250) 3.0%	0.486
ECG: Tachycardia	Abnormal	(n=942) 0.1%	(n=1,258) 0.3%	0.562	(n=926) 0.1%	(n=1,250) 0.3%	0.570
ECG: Arrhythmia	Abnormal	(n=941) 4.9%	(n=1,258) 4.4%	0.639	(n=926) 4.2%	(n=1,249) 4.9%	0.524
ECG: Evidence of Prior Myocardial Infarction	Abnormal	(n=938) 2.5%	(n=1,256) 4.1%	0.042	(n=923) 2.5%	(n=1,247) 4.1%	0.056
ECG: Other Diagnoses	Abnormal	(n=942) 0.5%	(n=1,258) 0.8%	0.629	(n=926) 0.5%	(n=1,250) 0.8%	0.643

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Age			Race		
		Born ≥ 1942	Born < 1942	p-Value	Black	Non-Black	p-Value
Diastolic Blood Pressure							
(continuous)	Abnormal	(n=948)	(n=1,253)		(n=126)	(n=2,075)	
		r=0.025		0.239	̄x=73.94	̄x=72.20	0.051
(discrete)	Abnormal	3.7%	2.6%	0.157	4.0%	3.0%	0.723
Funduscopic Examination	Abnormal	(n=945)	(n=1,245)		(n=126)	(n=2,064)	
		4.1%	7.9%	<0.001	7.9%	6.2%	0.540
Carotid Bruits	Abnormal	(n=948)	(n=1,253)		(n=126)	(n=2,075)	
		0.4%	2.3%	0.001	0.0%	1.6%	0.294
Radial Pulses	Abnormal	(n=948)	(n=1,254)		(n=126)	(n=2,076)	
		0.2%	0.6%	0.354	0.8%	0.4%	0.999
Femoral Pulses	Abnormal	(n=948)	(n=1,254)		(n=126)	(n=2,076)	
		0.2%	1.3%	0.012	0.8%	0.8%	0.999
Popliteal Pulses	Abnormal	(n=948)	(n=1,252)		(n=126)	(n=2,074)	
		0.3%	2.2%	<0.001	1.6%	1.4%	0.999
Dorsalis Pedis Pulses	Abnormal	(n=946)	(n=1,252)		(n=126)	(n=2,072)	
		5.3%	9.5%	<0.001	7.1%	7.7%	0.948
Posterior Tibial Pulses	Abnormal	(n=948)	(n=1,252)		(n=126)	(n=2,074)	
		1.1%	4.4%	<0.001	4.8%	2.8%	0.336
Leg Pulses	Abnormal	(n=946)	(n=1,253)		(n=126)	(n=2,073)	
		5.8%	10.5%	<0.001	9.5%	8.4%	0.796
Peripheral Pulses	Abnormal	(n=946)	(n=1,253)		(n=126)	(n=2,073)	
		5.9%	10.9%	<0.001	10.3%	8.7%	0.640
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=946)	(n=1,253)		(n=126)	(n=2,073)	
		19.6%	39.4%	<0.001	24.6%	31.2%	0.144
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=945)	(n=1,254)		(n=126)	(n=2,073)	
		1.1%	4.1%	<0.001	4.0%	2.7%	0.599

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Occupation			p-Value
		Officer	Enlisted Flyer	Enlisted Groundcrew	
Diastolic Blood Pressure (continuous)		(n=852) $\bar{x}=72.31$	(n=362) $\bar{x}=72.68$	(n=987) $\bar{x}=72.16$	0.680
(discrete)	Abnormal	3.1%	3.0%	3.0%	0.999
Funduscopic Examination	Abnormal	(n=848) 5.1%	(n=359) 8.1%	(n=983) 6.6%	0.118
Carotid Bruits	Abnormal	(n=853) 1.6%	(n=362) 1.7%	(n=986) 1.3%	0.820
Radial Pulses	Abnormal	(n=853) 0.4%	(n=362) 0.0%	(n=987) 0.6%	0.284
Femoral Pulses	Abnormal	(n=853) 0.7%	(n=362) 1.4%	(n=987) 0.7%	0.428
Popliteal Pulses	Abnormal	(n=852) 1.3%	(n=361) 1.9%	(n=987) 1.2%	0.582
Dorsalis Pedis Pulses	Abnormal	(n=851) 7.3%	(n=361) 8.9%	(n=986) 7.6%	0.635
Posterior Tibial Pulses	Abnormal	(n=852) 2.7%	(n=361) 3.9%	(n=987) 2.8%	0.518
Leg Pulses	Abnormal	(n=851) 7.5%	(n=362) 9.9%	(n=986) 8.8%	0.341
Peripheral Pulses	Abnormal	(n=851) 7.8%	(n=362) 9.9%	(n=986) 9.2%	0.372
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=853) 32.4%	(n=361) 33.2%	(n=985) 28.6%	0.125
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=852) 2.8%	(n=362) 3.6%	(n=985) 2.5%	0.585

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Lifetime Cigarette Smoking History (pack-years)			p-Value
		0	>0-10	>10	
Diastolic Blood Pressure (continuous) (discrete)	Abnormal	(n=604)	(n=671) r=-0.077	(n=923)	<0.001 0.019
		3.8%	4.0%	1.8%	
Funduscopic Examination	Abnormal	(n=599)	(n=668)	(n=920)	0.005
		3.8%	6.0%	7.9%	
Carotid Bruits	Abnormal	(n=604)	(n=671)	(n=923)	0.121
		0.7%	1.6%	2.0%	
Radial Pulses	Abnormal	(n=604)	(n=671)	(n=924)	0.285
		0.3%	0.1%	0.6%	
Femoral Pulses	Abnormal	(n=604)	(n=671)	(n=924)	0.031
		0.0%	1.0%	1.2%	
Popliteal Pulses	Abnormal	(n=604)	(n=669)	(n=924)	0.001
		0.0%	1.3%	2.3%	
Dorsalis Pedis Pulses	Abnormal	(n=604)	(n=667)	(n=924)	<0.001
		4.6%	5.8%	10.9%	
Posterior Tibial Pulses	Abnormal	(n=604)	(n=669)	(n=924)	<0.001
		0.7%	1.9%	5.2%	
Leg Pulses	Abnormal	(n=604)	(n=668)	(n=924)	<0.001
		4.8%	6.6%	12.2%	
Peripheral Pulses	Abnormal	(n=604)	(n=668)	(n=924)	<0.001
		5.1%	6.7%	12.6%	
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=602)	(n=671)	(n=923)	
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=603)	(n=671)	(n=924)	0.010
		1.3%	1.9%	4.4%	<0.001

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Current Cigarette Smoking (cigarettes/day)				p-Value
		0-Never Smoked	0-Former Smoker	>0-20	>20	
Diastolic Blood Pressure (continuous) (discrete)	Abnormal	(n=604)	(n=1,043) <i>r</i> =-0.113	(n=342)	(n=210)	<0.001 0.615
Funduscopic Examination	Abnormal	(n=599) 3.8%	(n=1,038) 2.9%	(n=342) 2.6%	(n=209) 2.4%	0.001
Carotid Bruits	Abnormal	(n=604) 0.7%	(n=1,042) 2.1%	(n=342) 1.5%	(n=211) 0.9%	0.115
Radial Pulses	Abnormal	(n=604) 0.3%	(n=1,043) 0.4%	(n=342) 0.3%	(n=211) 0.9%	0.631
Femoral Pulses	Abnormal	(n=604) 0.0%	(n=1,043) 0.6%	(n=342) 2.0%	(n=211) 2.4%	<0.001
Popliteal Pulses	Abnormal	(n=604) 0.0%	(n=1,041) 0.8%	(n=342) 3.5%	(n=211) 4.7%	<0.001
Dorsalis Pedis Pulses	Abnormal	(n=604) 4.6%	(n=1,040) 7.3%	(n=342) 11.4%	(n=210) 11.9%	<0.001
Posterior Tibial Pulses	Abnormal	(n=604) 0.7%	(n=1,041) 2.5%	(n=342) 5.3%	(n=211) 8.1%	<0.001
Leg Pulses	Abnormal	(n=604) 4.8%	(n=1,041) 8.3%	(n=342) 12.6%	(n=210) 13.3%	<0.001
Peripheral Pulses	Abnormal	(n=604) 5.1%	(n=1,041) 8.5%	(n=342) 12.9%	(n=210) 13.3%	<0.001
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=602) 28.4%	(n=1,042) 31.6%	(n=342) 33.6%	(n=211) 29.9%	0.351
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=603) 1.3%	(n=1,043) 2.5%	(n=342) 4.4%	(n=211) 6.2%	0.001

Note: Correlations (*r*) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Lifetime Alcohol History (drink-years)			p-Value
		0	>0-40	>40	
Diastolic Blood Pressure (continuous) (discrete)	Abnormal	(n=134)	(n=1,473) r=0.019	(n=552)	0.382 0.784
		3.7%	3.2%	2.7%	
Funduscopic Examination	Abnormal	(n=132)	(n=1,466)	(n=550)	0.007
		9.8%	5.2%	8.4%	
Carotid Bruits	Abnormal	(n=134)	(n=1,472)	(n=553)	0.221
		0.0%	1.4%	2.0%	
Radial Pulses	Abnormal	(n=134)	(n=1,473)	(n=553)	0.758
		0.0%	0.4%	0.4%	
Femoral Pulses	Abnormal	(n=134)	(n=1,473)	(n=553)	0.027
		0.0%	0.5%	1.6%	
Popliteal Pulses	Abnormal	(n=134)	(n=1,471)	(n=553)	0.518
		1.5%	1.2%	1.8%	
Dorsalis Pedis Pulses	Abnormal	(n=134)	(n=1,469)	(n=553)	0.106
		6.7%	7.0%	9.8%	
Posterior Tibial Pulses	Abnormal	(n=134)	(n=1,471)	(n=553)	0.006
		2.2%	2.2%	4.9%	
Leg Pulses	Abnormal	(n=134)	(n=1,470)	(n=553)	0.027
		6.7%	7.6%	11.2%	
Peripheral Pulses	Abnormal	(n=134)	(n=1,470)	(n=553)	0.054
		6.7%	8.0%	11.2%	
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=134)	(n=1,470)	(n=553)	0.006
		31.3%	28.9%	36.3%	
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=134)	(n=1,472)	(n=553)	0.040
		3.0%	2.2%	4.3%	

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Cholesterol (mg/dl)			p-Value
		0-200	>200-239	>239	
Diastolic Blood Pressure (continuous) (discrete)	Abnormal	(n=714)	(n=880) r=0.090	(n=606)	<0.001 0.136
		2.2%	3.0%	4.1%	
Funduscopic Examination	Abnormal	(n=713)	(n=876)	(n=600)	0.180
		5.2%	6.2%	7.7%	
Carotid Bruits	Abnormal	(n=714)	(n=880)	(n=606)	0.864
		1.7%	1.5%	1.3%	
Radial Pulses	Abnormal	(n=715)	(n=880)	(n=606)	0.899
		0.4%	0.3%	0.5%	
Femoral Pulses	Abnormal	(n=715)	(n=880)	(n=606)	0.354
		0.4%	1.0%	1.0%	
Popliteal Pulses	Abnormal	(n=715)	(n=878)	(n=606)	0.205
		0.8%	1.4%	2.0%	
Dorsalis Pedis Pulses	Abnormal	(n=714)	(n=878)	(n=605)	0.726
		7.4%	7.4%	8.4%	
Posterior Tibial Pulses	Abnormal	(n=715)	(n=878)	(n=606)	0.338
		2.8%	2.5%	3.8%	
Leg Pulses	Abnormal	(n=714)	(n=879)	(n=605)	0.882
		8.5%	8.2%	8.9%	
Peripheral Pulses	Abnormal	(n=714)	(n=879)	(n=605)	0.756
		8.8%	8.3%	9.4%	
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=713)	(n=879)	(n=606)	0.100
		33.1%	28.3%	31.8%	
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=712)	(n=880)	(n=606)	0.002
		1.1%	3.2%	4.3%	

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	HDL (mg/dl)			Body Fat		
		Normal: >35	Low: 0-35	p-Value	Obese: >25%	Lean or Normal: ≤25%	p-Value
Diastolic Blood Pressure (continuous) (discrete)	Abnormal	(n=1,614) r=-0.040	(n=561) 3.0%	0.061 0.999	(n=561) 5.2%	(n=1,640) 2.3%	<0.001 0.001
Funduscopic Examination	Abnormal	(n=1,606) 5.9%	(n=558) 7.5%	0.193	(n=556) 7.0%	(n=1,634) 6.0%	0.451
Carotid Bruits	Abnormal	(n=1,615) 1.7%	(n=560) 1.1%	0.423	(n=561) 1.8%	(n=1,640) 1.4%	0.661
Radial Pulses	Abnormal	(n=1,615) 0.4%	(n=561) 0.4%	0.999	(n=561) 0.5%	(n=1,641) 0.4%	0.874
Femoral Pulses	Abnormal	(n=1,615) 0.6%	(n=561) 1.4%	0.122	(n=561) 0.9%	(n=1,641) 0.8%	0.999
Popliteal Pulses	Abnormal	(n=1,614) 1.0%	(n=560) 2.3%	0.032	(n=561) 1.4%	(n=1,639) 1.3%	0.999
Dorsalis Pedis Pulses	Abnormal	(n=1,613) 7.6%	(n=559) 8.1%	0.817	(n=561) 6.6%	(n=1,637) 8.1%	0.301
Posterior Tibial Pulses	Abnormal	(n=1,614) 2.5%	(n=560) 4.1%	0.081	(n=561) 2.0%	(n=1,639) 3.3%	0.143
Leg Pulses	Abnormal	(n=1,613) 8.4%	(n=560) 8.9%	0.784	(n=561) 7.1%	(n=1,638) 9.0%	0.206
Peripheral Pulses	Abnormal	(n=1,613) 8.8%	(n=560) 8.9%	0.997	(n=561) 7.3%	(n=1,638) 9.3%	0.181
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=1,613) 30.6%	(n=560) 31.6%	0.704	(n=560) 32.9%	(n=1,639) 30.1%	0.251
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=1,612) 2.4%	(n=561) 3.9%	0.088	(n=561) 3.4%	(n=1,638) 2.6%	0.428

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Diabetic Class			p-Value
		Normal	Impaired	Diabetic	
Diastolic Blood Pressure (continuous) (discrete)	Abnormal	(n = 1,631) $\bar{x} = 71.63$	(n = 247) $\bar{x} = 72.98$	(n = 320) $\bar{x} = 75.15$	<0.001
		2.8%	3.2%	4.4%	0.301
Funduscopic Examination	Abnormal	(n = 1,625) 5.2%	(n = 244) 9.8%	(n = 318) 9.1%	0.001
Carotid Bruits	Abnormal	(n = 1,631) 1.2%	(n = 247) 3.2%	(n = 320) 1.9%	0.037
Radial Pulses	Abnormal	(n = 1,632) 0.3%	(n = 247) 0.4%	(n = 320) 0.9%	0.271
Femoral Pulses	Abnormal	(n = 1,632) 0.4%	(n = 247) 1.2%	(n = 320) 2.8%	<0.001
Popliteal Pulses	Abnormal	(n = 1,631) 0.6%	(n = 246) 3.3%	(n = 320) 3.8%	<0.001
Dorsalis Pedis Pulses	Abnormal	(n = 1,629) 6.0%	(n = 246) 11.4%	(n = 320) 13.8%	<0.001
Posterior Tibial Pulses	Abnormal	(n = 1,631) 1.7%	(n = 246) 5.3%	(n = 320) 7.5%	<0.001
Leg Pulses	Abnormal	(n = 1,629) 6.5%	(n = 247) 13.0%	(n = 320) 15.3%	<0.001
Peripheral Pulses	Abnormal	(n = 1,629) 6.7%	(n = 247) 13.4%	(n = 320) 15.9%	<0.001
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n = 1,629) 28.5%	(n = 247) 30.8%	(n = 320) 42.5%	<0.001
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n = 1,630) 1.8%	(n = 246) 4.1%	(n = 320) 6.9%	<0.001

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Personality Type			Family History of Heart Disease		
		A	B	p-Value	No	Yes	p-Value
Diastolic Blood Pressure							
(continuous)	Abnormal	(n=942) $\bar{x}=72.10$	(n=1,257) $\bar{x}=72.46$	0.389	(n=925) $\bar{x}=71.85$	(n=1,250) $\bar{x}=72.57$	0.089
(discrete)	Abnormal	2.3%	3.6%	0.120	3.6%	2.6%	0.263
Funduscopic Examination	Abnormal	(n=934) 6.0%	(n=1,254) 6.5%	0.724	(n=921) 4.5%	(n=1,243) 7.6%	0.004
Carotid Bruits	Abnormal	(n=942) 1.4%	(n=1,257) 1.6%	0.822	(n=926) 1.1%	(n=1,249) 1.8%	0.208
Radial Pulses	Abnormal	(n=942) 0.4%	(n=1,258) 0.4%	0.999	(n=926) 0.5%	(n=1,250) 0.3%	0.651
Femoral Pulses	Abnormal	(n=942) 1.1%	(n=1,258) 0.6%	0.391	(n=926) 0.8%	(n=1,250) 0.8%	0.999
Popliteal Pulses	Abnormal	(n=940) 1.6%	(n=1,258) 1.2%	0.535	(n=926) 1.2%	(n=1,248) 1.4%	0.747
Dorsalis Pedis Pulses	Abnormal	(n=938) 6.8%	(n=1,258) 8.3%	0.213	(n=925) 6.9%	(n=1,247) 8.3%	0.281
Posterior Tibial Pulses	Abnormal	(n=940) 3.2%	(n=1,258) 2.8%	0.665	(n=926) 2.9%	(n=1,248) 2.9%	0.999
Leg Pulses	Abnormal	(n=939) 8.0%	(n=1,258) 8.9%	0.494	(n=925) 7.8%	(n=1,248) 9.0%	0.364
Peripheral Pulses	Abnormal	(n=939) 8.1%	(n=1,258) 9.3%	0.362	(n=925) 8.1%	(n=1,248) 9.2%	0.409
Kidney, Urethra, and Bladder (KUB) X Ray Excluding Kidney Stones	Abnormal	(n=940) 28.1%	(n=1,257) 32.9%	0.017	(n=924) 28.9%	(n=1,249) 32.3%	0.102
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Abnormal	(n=941) 2.7%	(n=1,256) 2.9%	0.784	(n=926) 1.9%	(n=1,249) 3.4%	0.050

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-1. (Continued)
Dependent Variable-Covariate Associations for Cardiovascular Assessment

Dependent Variable	Level	Blood Pressure Medication			p-Value
		Yes	No		
Systolic Blood Pressure (continuous) (discrete)	Abnormal	(n=434) $\bar{x}=131.68$	(n=1,767) $\bar{x}=119.57$		<0.001
		28.8%	12.2%		<0.001
Diastolic Blood Pressure (continuous) (discrete)	Abnormal	(n=435) $\bar{x}=75.81$	(n=1,766) $\bar{x}=71.44$		<0.001
		4.8%	2.6%		0.024

Note: Correlations (r) are based on total sample and are not category-specific.

Table K-1-2.
**Association Between Cardiovascular Findings and Verified Essential Hypertension, Verified Heart Disease,
 and Verified Myocardial Infarction**

Variable	Level	Essential Hypertension			Heart Disease*			Myocardial Infarction		
		Total	Percent Yes	p-Value	Total	Percent Yes	p-Value	Total	Percent Yes	p-Value
Central Cardiac Function										
Systolic Blood Pressure (D)	Normal	1,844	31.3		1,861	47.8		1,861	6.6	
	Abnormal	333	77.8	<0.001	340	54.4	0.030	340	8.2	0.311
Heart Sounds	Normal	1,730	36.8		1,749	46.7		1,749	6.8	
	Abnormal	441	44.7	0.003	446	57.2	<0.001	446	7.0	0.996
Overall Electrocardiograph (ECG)	Normal	1,693	34.0		1,710	41.6		1,710	2.3	
	Abnormal	483	54.0	<0.001	490	74.5	<0.001	490	22.4	<0.001
ECG: Right Bundle Branch Block (RBBB)	Normal	2,145	38.1		2,169	48.3		2,169	6.6	
	Abnormal	31	61.3	0.014	31	90.3	<0.001	31	22.6	0.002
ECG: Left Bundle Branch Block (LBBB)	Normal	2,165	38.5		2,189	48.6		2,189	6.8	
	Abnormal	11	27.3	0.652	11	100.0	0.002	11	9.1	0.999
ECG: Non-specific ST- and T-Wave Changes	Normal	1,865	35.5		1,884	45.6		1,884	4.1	
	Abnormal	311	55.9	<0.001	316	68.0	<0.001	316	23.1	<0.001
ECG: Bradycardia	Normal	2,119	39.0		2,143	47.8		2,143	6.8	
	Abnormal	59	18.6	0.002	59	88.1	<0.001	59	8.5	0.801
ECG: Tachycardia	Normal	2,173	38.4		2,197	48.7		2,197	6.8	
	Abnormal	5	60.0	0.594	5	100.0	0.065	5	0.0	0.999
ECG: Arrhythmia	Normal	2,076	37.6		2,100	47.2		2,100	6.2	
	Abnormal	101	56.4	<0.001	101	83.2	<0.001	101	19.8	<0.001

* Excluding essential hypertension.

Table K-1-2. (Continued)
Association Between Cardiovascular Findings and Verified Essential Hypertension, Verified Heart Disease,
and Verified Myocardial Infarction

Variable	Level	Essential Hypertension			Heart Disease*			Myocardial Infarction		
		Total	Percent Yes	p-Value	Total	Percent Yes	p-Value	Total	Percent Yes	p-Value
ECG: Evidence of Prior Myocardial Infarction	Normal	2,097	37.3		2,121	47.1		2,121	3.5	
	Abnormal	75	68.0	<0.001	75	100.0	<0.001	75	100.0	<0.001
ECG: Other Diagnoses	Normal	2,163	38.2		2,187	48.7		2,187	6.4	
	Abnormal	15	66.7	0.047	15	73.3	0.100	15	60.0	<0.001
Peripheral Vascular Function										
Diastolic Blood Pressure (D)	Normal	2,111	36.7		2,134	48.8		2,134	6.8	
	Abnormal	66	95.5	<0.001	67	50.7	0.847	67	6.0	0.974
Funduscopic Examination	Normal	2,031	36.8		2,053	48.1		2,053	6.4	
	Abnormal	135	63.7	<0.001	137	61.3	0.004	137	12.4	0.012
Carotid Bruits	Normal	2,144	38.1		2,168	48.2		2,168	6.5	
	Abnormal	33	60.6	0.014	33	87.9	<0.001	33	24.2	<0.001
Radial Pulses	Normal	2,169	38.4		2,193	48.8		2,193	6.7	
	Abnormal	9	55.6	0.475	9	66.7	0.461	9	22.2	0.240
Femoral Pulses	Normal	2,161	38.3		2,184	48.8		2,184	6.7	
	Abnormal	17	58.8	0.138	18	61.1	0.420	18	16.7	0.231
Popliteal Pulses	Normal	2,147	38.1		2,170	48.7		2,170	6.6	
	Abnormal	29	62.1	0.014	30	63.3	0.158	30	20.0	0.011
Dorsalis Pedis Pulses	Normal	2,008	37.8		2,029	47.9		2,029	6.2	
	Abnormal	166	45.2	0.074	169	60.4	0.002	169	13.6	<0.001
Posterior Tibial Pulses	Normal	2,113	37.8		2,135	48.5		2,135	6.4	
	Abnormal	63	58.7	0.001	65	61.5	0.051	65	18.5	<0.001
Leg Pulse Index	Normal	1,991	38.0		2,012	47.9		2,012	6.1	
	Abnormal	184	43.5	0.164	187	59.4	0.004	187	13.9	<0.001

* Excluding essential hypertension.

Table K-1-2. (Continued)
**Association Between Cardiovascular Findings and Verified Essential Hypertension, Verified Heart Disease,
 and Verified Myocardial Infarction**

Variable	Level	Essential Hypertension			Heart Disease*			Myocardial Infarction		
		Total	Percent Yes	p-Value	Total	Percent Yes	p-Value	Total	Percent Yes	p-Value
Peripheral Pulse Index	Normal	1,985	37.9		2,006	47.9		2,006	6.0	
	Abnormal	190	43.7	0.139	193	59.6	0.002	193	14.5	<0.001
Kidney, Urethra, and Bladder (KUB) X-Ray Excluding Kidney Stones	Normal	1,504	35.0		1,521	45.6		1,521	4.8	
	Abnormal	671	46.1	<0.001	678	56.2	<0.001	678	11.4	<0.001
Intermittent Claudication and Vascular Insufficiency (ICVI) Index	Normal	2,117	38.0		2,137	48.5		2,137	6.4	
	Abnormal	58	55.2	0.012	62	61.3	0.063	62	21.0	<0.001

Variable	Level	Systolic Blood Pressure (C)			Diastolic Blood Pressure (C)		
		Total	Mean (95% C.I.)	p-Value	Total	Mean (95% C.I.)	p-Value
Essential Hypertension	No	1,341	115.55 (114.78,116.32)		1,340	69.31 (68.87,69.75)	
	Yes	836	132.00 (130.67,133.33)	<0.001	837	76.95 (76.28,77.62)	<0.001
Heart Disease*	No	1,126	121.03 (120.00,122.06)		1,126	72.60 (72.04,73.16)	
	Yes	1,075	122.93 (121.79,124.08)	0.016	1,075	71.99 (71.41,72.58)	0.144
Myocardial Infarction	No	2,051	121.75 (120.96,122.54)		2,051	72.33 (71.91,72.75)	
	Yes	150	124.79 (121.61,127.98)	0.051	150	71.91 (70.44,73.38)	0.610

C: Continuous analysis.

D: Discrete analysis.

* Excluding essential hypertension.