

# **SUPPLEMENTAL MATERIAL**

**Table S1. Race interaction in association of global ECG measures with SCD in Cox models.**

Predictor, per 1 SD		All (n=14,408; 522 SCDs)			
	HR(95%CI)	P-value	RHR for black vs. white pts (95%CI)	P <sub>interaction</sub>	
Model 1	Peak QRS-T angle	<b>1.34(1.22-1.47)</b>	<b>&lt;0.0001</b>	<b>0.86(0.75-0.98)</b>	<b>0.026</b>
	Area QRS-T angle	<b>1.35(1.21-1.51)</b>	<b>&lt;0.0001</b>	<b>0.78(0.67-0.90)</b>	<b>0.001</b>
	Peak SVG elevation	<b>1.13(1.01-1.26)</b>	<b>0.027</b>	0.92(0.78-1.09)	0.348
	Area SVG elevation	<b>1.16(1.06-1.28)</b>	<b>0.002</b>	0.88(0.75-1.04)	0.136
	Peak SVG azimuth	<b>1.11(1.01-1.21)</b>	<b>0.026</b>	1.01(0.88-1.15)	0.940
	Area SVG azimuth	0.99(0.90-1.09)	0.878	1.07(0.92-1.25)	0.389
	Peak SVG magnitude	0.89(0.79-1.01)	0.083	1.17(0.98-1.40)	0.083
	Area SVG magnitude	0.98(0.86-1.11)	0.753	1.09(0.92-1.29)	0.314
	SAI QRST	<b>1.21(1.08-1.35)</b>	<b>0.001</b>	0.89(0.79-1.01)	0.078
	Heart rate	1.11(0.99-1.24)	0.081	1.01(0.86-1.19)	0.907
	Bazett's QTc	<b>1.12(1.01-1.24)</b>	<b>0.032</b>	1.01(0.89-1.14)	0.924
	QRS duration	1.07(0.98-1.18)	0.128	0.93(0.81-1.07)	0.304
	Cornell voltage	1.10(0.98-1.24)	0.104	1.01(0.87-1.18)	0.893
	Model 2	Peak QRS-T angle	<b>1.24(1.12-1.36)</b>	<b>&lt;0.0001</b>	0.89(0.77-1.03)
Area QRS-T angle		<b>1.27(1.15-1.40)</b>	<b>&lt;0.0001</b>	<b>0.83(0.72-0.97)</b>	<b>0.020</b>
Peak SVG elevation		<b>1.14(1.03-1.27)</b>	<b>0.011</b>	0.96(0.81-1.15)	0.675
Area SVG elevation		<b>1.12(1.01-1.23)</b>	<b>0.035</b>	0.97(0.81-1.16)	0.726
Peak SVG azimuth		<b>1.12(1.02-1.22)#</b>	<b>0.015</b>	1.04(0.90-1.21)	0.602
Area SVG azimuth		1.04(0.95-1.15)	0.387	1.11(0.93-1.32)	0.246
Peak SVG magnitude		0.98(0.86-1.11)	0.720	<b>1.19(1.001-1.41)</b>	<b>0.048</b>
Area SVG magnitude		0.93(0.82-1.07)	0.310	<b>1.24(1.04-1.66)</b>	<b>0.018</b>
SAI QRST		<b>1.10(1.02-1.19)</b>	<b>0.013</b>	1.01(0.91-1.12)	0.865
Heart rate		1.11(0.99-1.24)	0.078	1.04(0.89-1.23)	0.600
Bazett's QTc		<b>1.16(1.06-1.27)#</b>	<b>0.002</b>	1.01(0.88-1.15)	0.916
QRS duration		<b>1.18(1.09-1.29)</b>	<b>&lt;0.0001</b>	0.96(0.84-1.10)	0.575
Cornell voltage		1.06(0.97-1.16)	0.187	1.09(0.97-1.23)	0.135

#Proportionality hazards assumption not met; SVG=spatial ventricular gradient; RHR=relative hazard ratio.

**Table S2. Association of GEH with SCD in Cox models for white and black.**

Predictor, per 1 SD	White (n=10,669; 309 SCDs)		Black (n=3,739; 213 SCDs)		
	HR(95%CI)	P-value	HR(95%CI)	P-value	
Model 1	Peak QRS-T angle	<b>1.34(1.21-1.48)</b>	<b>&lt;0.0001</b>	<b>1.15(1.02-1.30)</b>	<b>0.018</b>
	Area QRS-T angle	<b>1.38(1.22-1.55)</b>	<b>&lt;0.0001</b>	1.05(0.91-1.22)	0.467
	Peak SVG elevation	<b>1.13(1.01-1.27)</b>	<b>0.032</b>	1.05(0.90-1.23)	0.523
	Area SVG elevation	<b>1.17(1.06-1.30)</b>	<b>0.002</b>	1.05(0.90-1.21)	0.555
	Peak SVG azimuth	<b>1.10(1.003-1.21)</b>	<b>0.044</b>	1.10(0.97-1.26)	0.129
	Area SVG azimuth	0.99(0.90-1.10)	0.901	1.05(0.91-1.22)	0.471
	Peak SVG magnitude	0.92(0.81-1.04)	0.198	1.01(0.88-1.15)	0.915
	Area SVG magnitude	1.01(0.88-1.15)	0.935	1.03(0.90-1.18)	0.625
	SAI QRST	<b>1.23(1.08-1.39)</b>	<b>0.001</b>	1.07(0.95-1.21)	0.270
	Heart rate	1.11(0.98-1.26)	0.090	<b>1.16(1.02-1.32)</b>	<b>0.029</b>
	Bazett's QTc	<b>1.18(1.03-1.29)</b>	<b>0.010</b>	<b>1.11(1.002-1.23)</b>	<b>0.046</b>
	QRS duration	1.06(0.95-1.18)	0.272	1.04(0.92-1.18)	0.510
	Cornell voltage	1.07(0.95-1.22)	0.256	<b>1.15(1.02-1.30)</b>	<b>0.018</b>
	Model 2	Peak QRS-T angle	<b>1.23(1.12-1.36)</b>	<b>&lt;0.0001</b>	1.09(0.96-1.24)
Area QRS-T angle		<b>1.27(1.15-1.41)</b>	<b>&lt;0.0001</b>	1.06(0.93-1.22)	0.373
Peak SVG elevation		<b>1.16(1.04-1.29)</b>	<b>0.006</b>	1.12(0.96-1.30)	0.147
Area SVG elevation		<b>1.13(1.02-1.25)</b>	<b>0.021</b>	1.09(0.94-1.28)	0.251
Peak SVG azimuth		<b>1.11(1.01-1.21)</b>	<b>0.022</b>	<b>1.16(1.02-1.32)</b>	<b>0.023</b>
Area SVG azimuth		<b>1.05(0.95-1.16)</b>	<b>0.359</b>	1.15(0.99-1.34) #	0.074
Peak SVG magnitude		0.96(0.84-1.10)	0.595	1.08(0.95-1.23)	0.236
Area SVG magnitude		1.00(0.88-1.14)	0.964	1.09(0.96-1.24)	0.183
SAI QRST		<b>1.13(1.04-1.22)</b>	<b>0.004</b>	<b>1.11(1.01-1.21)</b>	<b>0.023</b>
Heart rate		1.09(0.97-1.23)	0.134	<b>1.20(1.06-1.36)</b>	<b>0.005</b>
Bazett's QTc		<b>1.19(1.09-1.30)</b>	<b>&lt;0.0001</b>	<b>1.16(1.05-1.29)</b>	<b>0.004</b>
QRS duration		<b>1.18(1.08-1.29)</b>	<b>&lt;0.0001</b>	<b>1.15(1.03-1.30)</b>	<b>0.015</b>
Cornell voltage		1.08(0.99-1.19)	0.082	<b>1.16(1.06-1.27)</b>	<b>0.001</b>

#Proportionality hazards assumption not met; SVG=spatial ventricular gradient.

**Table S3. Race interaction in association of GEH with SCD and nonSCD in competing risk models.**

Predictor, per 1 SD	SCD (n=14,408; 522 SCDs)				nonSCD (n=14,408; 2,147 nonSCDs)			
	SHR(95% CI)	P-value	RSHR for black vs.white (95% CI)	P <sub>interaction</sub>	SHR(95% CI)	P-value	RSHR for black vs.white (95% CI)	P <sub>interaction</sub>
Model 1								
Peak QRS-T angle	<b>1.28(1.16-1.40)</b>	<b>&lt;0.0001</b>	<b>0.85(0.75-0.98)</b>	<b>0.022</b>	<b>1.11(1.05-1.17)</b>	<b>&lt;0.0001</b>	1.01(0.93-1.09)	0.979
Area QRS-T angle	<b>1.25(1.13-1.39)</b>	<b>&lt;0.0001</b>	<b>0.79(0.69-0.92)</b>	<b>0.002</b>	<b>1.15(1.08-1.22)</b>	<b>&lt;0.0001</b>	1.00(0.91-1.09)	0.914
Peak SVG elevation	1.11(0.99-1.25)	0.075	0.96(0.80-1.14)	0.630	1.00(0.95-1.06)	0.869	0.930(0.84-1.03)	0.148
Area SVG elevation	<b>1.14(1.03-1.25)</b>	<b>0.010</b>	0.94(0.80-1.11)	0.471	1.00(0.94-1.05)	0.904	0.96(0.87-1.05)	0.398
Peak SVG azimuth	1.09(0.99-1.19)	0.071	1.02(0.89-1.18)	0.755	1.04(0.99-1.09)	0.168	0.99(0.91-1.09)	0.890
Area SVG azimuth	0.98(0.88-1.08)	0.640	1.07(0.91-1.64)	0.426	<b>1.07(1.01-1.13)</b>	<b>0.017</b>	0.99(0.90-1.09)	0.837
Peak SVG magnitude	0.90(0.79-1.02)	0.096	1.10(0.93-1.31)	0.263	0.96(0.90-1.02)	0.170	1.10(0.99-1.21)	0.073
Area SVG magnitude	0.98(0.87-1.11)	0.727	1.02(0.87-1.21)	0.792	0.98(0.92-1.05)	0.608	1.08(0.98-1.19)	0.114
SAI QRST	<b>1.13(1.02-1.26)</b>	<b>0.019</b>	0.88(0.77-1.01)	0.076	1.05(0.98-1.13)	0.192	1.01(0.93-1.10)	0.751
Heart rate.	1.03(0.92-1.16)	0.576	0.99(0.84-1.17)	0.918	<b>1.13(1.07-1.20)</b>	<b>&lt;0.0001</b>	1.07(0.98-1.17)	0.128
Bazett's QTc	1.09(0.98-1.21)	0.124	1.02(0.90-1.17)	0.737	1.05(0.996-1.11)	0.071	1.02(0.94-1.09)	0.673
QRS duration	1.06(0.95-1.17)	0.293	0.92(0.78-1.07)	0.267	1.05(0.996-1.11)	0.069	0.98(0.90-1.06)	0.608
Cornell voltage	1.08(0.96-1.22)	0.185	0.98(0.84-1.15)	0.815	<b>1.12(1.05-1.20)</b>	<b>0.001</b>	0.97(0.89-1.07)	0.543
Model 2								
Peak QRS-T angle	<b>1.21(1.10-1.33)</b>	<b>&lt;0.0001</b>	0.89(0.76-1.04)	0.130	<b>0.93(0.87-0.98)</b>	<b>0.010</b>	1.02(0.93-1.12)	0.706
Area QRS-T angle	<b>1.26(1.13-1.41)</b>	<b>&lt;0.0001</b>	<b>0.82(0.69-0.96)</b>	<b>0.017</b>	<b>0.92(0.87-0.97)</b>	<b>0.004</b>	1.02(0.92-1.13)	0.656
Peak SVG elevation	<b>1.16(1.04-1.29)</b>	<b>0.007</b>	0.96(0.80-1.15)	0.649	<b>0.92(0.86-0.98)</b>	<b>0.006</b>	1.07(0.95-1.21)	0.281
Area SVG elevation	<b>1.11(1.005-1.24)</b>	<b>0.041</b>	0.98(0.82-1.17)	0.849	<b>0.93(0.88-0.99)</b>	<b>0.031</b>	1.05(0.93-1.18)	0.418
Peak SVG azimuth	<b>1.11(1.01-1.22)</b>	<b>0.033</b>	1.04(0.88-1.23)	0.651	<b>0.95(0.90-0.999)</b>	<b>0.044</b>	1.01(0.91-1.12)	0.887
Area SVG azimuth	1.04(0.93-1.16)	0.458	1.10(0.89-1.81)	0.360	0.96(0.91-1.02)	0.171	0.97(0.87-1.07)	0.549
Peak SVG magnitude	0.91(0.79-1.04)	0.180	1.20(0.99-1.44)	0.058	1.04(0.97-1.12)	0.273	0.94(0.84-1.05)	0.248
Area SVG magnitude	0.99(0.83-1.08)	0.425	1.14(0.96-1.37)	0.144	1.04(0.97-1.12)	0.273	0.93(0.83-1.03)	0.179
SAI QRST	<b>1.10(1.02-1.19)</b>	<b>0.011</b>	0.99(0.87-1.12)	0.831	0.95(0.90-1.01)	0.083	0.97(0.89-1.05)	0.447
Heart rate.	1.03(0.92-1.15)	0.589	1.05(0.88-1.25)	0.583	<b>1.11(1.04-1.18)</b>	<b>0.001</b>	0.97(0.88-1.08)	0.590
Bazett's QTc	<b>1.13(1.03-1.24)</b>	<b>0.009</b>	1.02(0.89-1.16)	0.792	1.02(0.97-1.09)	0.413	0.96(0.88-1.06)	0.418
QRS duration	<b>1.20(1.10-1.30)</b>	<b>&lt;0.0001</b>	0.96(0.83-1.10)	0.530	<b>0.92(0.87-0.97)</b>	<b>0.002</b>	0.98(0.89-1.08)	0.713
Cornell voltage	1.05(0.96-1.15)	0.257	1.09(0.96-1.24)	0.204	0.97(0.92-1.02)	0.187	1.00(0.92-1.08)	0.937

RSHR=relative sub-hazard ratio

**Table S4. Competing risks of sudden cardiac death and non-sudden cardiovascular death for white and black.**

Predictor, per 1 SD	Sudden cardiac death				Non-sudden cardiac death				
	White (n=10,669;309 SCDs)		Black (n=3,739; 213 SCDs)		White (n=10,669;309 SCDs)		Black (n=3,739; 213 SCDs)		
	SHR(95%CI)	P-value	SHR(95%CI)	P-value	SHR(95%CI)	P-value	SHR(95%CI)	P-value	
Model 1	Peak QRS-T angle	<b>1.27(1.15-1.40)</b>	<b>&lt;0.0001</b>	1.09(0.96-1.24)	0.167	<b>1.10(1.04-1.16)</b>	<b>0.002</b>	<b>1.15(1.07-1.23)</b>	<b>&lt;0.0001</b>
	Area QRS-T angle	<b>1.26(1.12-1.42)</b>	<b>&lt;0.0001</b>	1.00(0.87-1.15)	0.975	<b>1.14(1.07-1.21)</b>	<b>&lt;0.0001</b>	<b>1.19(1.09-1.29)</b>	<b>&lt;0.0001</b>
	Peak SVG elevation	1.10(0.97-1.26)	0.130	1.09(0.93-1.29)	0.293	0.99(0.93-1.05)	0.783	0.96(0.87-1.06)	0.403
	Area SVG elevation	<b>1.15(1.04-1.27)</b>	<b>0.008</b>	1.09(0.94-1.27)	0.257	0.98(0.93-1.04)	0.559	1.00(0.92-1.09)	0.959
	Peak SVG azimuth	1.08(0.98-1.19)	0.116	1.12(0.98-1.28)	0.095	1.04(0.99-1.10)	0.137	1.01(0.93-1.11)	0.746
	Area SVG azimuth	0.97(0.87-1.08)	0.594	1.04(0.89-1.22)	0.625	<b>1.08(1.02-1.14)</b>	<b>0.013</b>	1.05(0.97-1.15)	0.220
	Peak SVG magnitude	0.92(0.81-1.05)	0.229	0.97(0.85-1.11)	0.636	0.97(0.91-1.04)	0.362	1.03(0.96-1.12)	0.344
	Area SVG magnitude	1.01(0.89-1.14)	0.933	0.98(0.86-1.13)	0.823	0.99(0.93-1.07)	0.885	1.06(0.98-1.15)	0.122
	SAI QRST	<b>1.16(1.03-1.31)</b>	<b>0.012</b>	1.00(0.88-1.15)	0.953	1.04(0.96-1.12)	0.325	<b>1.11(1.03-1.20)</b>	<b>0.010</b>
	Heart rate.	1.05(0.93-1.19)	0.450	1.04(0.91-1.19)	0.526	<b>1.14(1.08-1.21)</b>	<b>&lt;0.0001</b>	<b>1.19(1.10-1.28)</b>	<b>&lt;0.0001</b>
	Bazett's QTc	1.11(0.99-1.25)	0.069	1.10(0.99-1.22)	0.066	<b>1.06(1.00-1.12)</b>	<b>0.037</b>	1.05(0.98-1.12)	0.180
	QRS duration	1.05(0.94-1.17)	0.420	1.01(0.88-1.16)	0.880	1.03(0.97-1.09)	0.371	1.07(0.99-1.16)	0.085
	Cornell voltage	1.05(0.93-1.19)	0.460	1.09(0.97-1.23)	0.140	<b>1.12(1.04-1.20)</b>	<b>0.002</b>	<b>1.11(1.03-1.06)</b>	<b>0.006</b>
	Model 2	Peak QRS-T angle	<b>1.21(1.09-1.33)</b>	<b>&lt;0.0001</b>	1.07(0.93-1.24)	0.340	<b>0.93(0.87-0.98)</b>	<b>0.014</b>	0.94(0.86-1.02)
Area QRS-T angle		<b>1.26(1.13-1.41)</b>	<b>&lt;0.0001</b>	1.04(0.89-1.20)	0.644	<b>0.92(0.87-0.98)</b>	<b>0.008</b>	0.92(0.84-1.02)	0.115
Peak SVG elevation		<b>1.17(1.05-1.30)</b>	<b>0.005</b>	1.12(0.95-1.32)	0.195	<b>0.91(0.85-0.97)</b>	<b>0.003</b>	1.01(0.91-1.13)	0.793
Area SVG elevation		<b>1.13(1.02-1.26)</b>	<b>0.020</b>	1.10(0.94-1.30)	0.243	<b>0.93(0.87-0.99)</b>	<b>0.032</b>	1.01(0.91-1.12)	0.812
Peak SVG azimuth		<b>1.10(1.004-1.22)</b>	<b>0.042</b>	1.16(0.99-1.35)	0.068	0.95(0.90-1.00)	0.061	0.94(0.85-1.04)	0.254
Area SVG azimuth		1.04(0.93-1.16)	0.453	1.14(0.95-1.38)	0.169	0.97(0.92-1.02)	0.229	<b>0.91(0.82-0.998)</b>	<b>0.046</b>
Peak SVG magnitude		0.95(0.83-1.09)	0.455	1.04(0.91-1.19)	0.541	1.04(0.97-1.23)	0.262	0.96(0.88-1.04)	0.336
Area SVG magnitude		0.98(0.86-1.12)	0.791	1.05(0.91-1.21)	0.530	1.04(0.97-1.12)	0.245	0.95(0.87-1.03)	0.222
SAI QRST		<b>1.11(1.03-1.20)</b>	<b>0.007</b>	1.09(0.97-1.23)	0.148	0.95(0.90-1.01)	0.079	<b>0.92(0.86-0.99)</b>	<b>0.018</b>
Heart rate		1.03(0.92-1.16)	0.630	1.12(0.97-1.30)	0.114	<b>1.12(1.06-1.19)</b>	<b>&lt;0.0001</b>	1.06(0.98-1.16)	0.158
Bazett's QTc		<b>1.15(1.05-1.27)</b>	<b>0.003</b>	<b>1.15(1.03-1.28)</b>	<b>0.011</b>	1.02(0.97-1.08)	0.439	1.02(0.93-1.08)	0.953
QRS duration		<b>1.19(1.09-1.30)</b>	<b>&lt;0.0001</b>	<b>1.16(1.02-1.31)</b>	<b>0.019</b>	<b>0.91(0.86-0.96)</b>	<b>0.001</b>	0.92(0.84-1.002)	0.056
Cornell voltage		1.07(0.97-1.17)	0.159	<b>1.14(1.03-1.27)</b>	<b>0.015</b>	0.97(0.92-1.02)	0.182	0.96(0.89-1.03)	0.224

**Table S5. Two-way interactions in association of global ECG measures with SCD in Cox models: race-hypertension; race-coronary heart disease, and race-BMI category.**

Predictor, per 1 SD	Subgroup	Cox model 1		Cox model 2	
		RHR(95% CI)	P <sub>interaction</sub>	RHR (95% CI)	P <sub>interaction</sub>
Peak QRS-T angle	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	0.87(0.66-1.14)	0.304	0.83(0.62-1.12)	0.229
	White HTN(148/2737)	0.94(0.79-1.12)	0.507	0.88(0.74-1.06)	0.170
	Black HTN(167/1910)	<b>0.82(0.70-0.97)</b>	<b>0.021</b>	<b>0.82(0.69-0.98)</b>	<b>0.029</b>
Area QRS-T angle	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	1.04(0.71-1.53)	0.681	0.93(0.68-1.26)	0.631
	White HTN(148/2737)	0.93(0.77-1.13)#	0.458	0.92(0.76-1.10)	0.359
	Black HTN(167/1910)	<b>0.71(0.59-0.86)</b>	<b>&lt;0.0001</b>	<b>0.76(0.62-0.91)</b>	<b>0.004</b>
Peak SVG magnitude	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	<b>1.44(1.04-2.01)</b>	<b>0.030</b>	<b>1.49(1.08-2.05)</b>	<b>0.014</b>
	White HTN(148/2737)	1.26(0.98-1.61)#	0.066	1.18(0.91-1.54)	0.203
	Black HTN(167/1910)	<b>1.32(1.05-1.65)</b>	<b>0.016</b>	<b>1.30(1.03-1.63)</b>	<b>0.026</b>
SVG magnitude	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	1.35(0.98-1.85)	0.070	<b>1.41(1.03-1.92)</b>	<b>0.031</b>
	White HTN(148/2737)	1.28(0.99-1.64)#	0.055	1.17(0.91-1.51)	0.218
	Black HTN(167/1910)	1.25(0.999-1.56)	0.051	1.25(0.999-1.56)	0.051
SAI QRST	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	1.19(0.88-1.61)	0.254	1.19(0.91-1.57)	0.204
	White HTN(148/2737)	1.16(0.95-1.41)	0.140	0.997(0.85-1.17)	0.996
	Black HTN(167/1910)	0.95(0.80-1.14)	0.580	0.98(0.85-1.14)	0.821
Cornell voltage	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	0.95(0.68-1.32)	0.748	0.95(0.69-1.33)	0.781
	White HTN(148/2737)	1.08(0.86-1.36)	0.514	1.02(0.85-1.22)	0.812
	Black HTN(167/1910)	1.04(0.84-1.28)	0.712	1.11(0.95-1.31)	0.200
Peak QRS-T angle	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	0.98(0.84-1.15)	0.823	0.96(0.82-1.13)	0.640
	White CHD(88/534)	1.18(0.97-1.43)	0.100	1.12(0.91-1.40)	0.286
	Black CHD(29/148)	0.98(0.84-1.15)	0.823	0.82(0.57-1.17)	0.270
Area QRS-T angle	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	0.89(0.75-1.07)	0.225	0.88(0.73-1.05)	0.159
	White CHD(88/534)	<b>1.24(1.01-1.52)</b>	<b>0.043</b>	1.09(0.88-4.35)	0.437
	Black CHD(29/148)	0.82(0.58-1.14)	0.237	0.87(0.62-1.23)	0.434
Peak SVG magnitude	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	<b>1.22(1.001-1.48)</b>	<b>0.049</b>	1.18(0.97-1.43)	0.100
	White CHD(88/534)	0.95(0.71-1.26)	0.706	0.88(0.63-1.21)	0.423
	Black CHD(29/148)	0.90(0.60-1.35)	0.603	1.36(0.88-2.09)	0.167
SVG magnitude	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	1.19(0.98-1.44)	0.080	1.16(0.96-1.40)	0.128
	White CHD(88/534)	1.06(0.80-1.41)	0.701	0.90(0.67-1.21)	0.501
	Black CHD(29/148)	0.83(0.57-1.22)	0.348	1.10(0.72-1.67)	0.664
SAI QRST	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	1.07(0.91-1.26)	0.404	1.08(0.95-1.23)	0.219
	White CHD(88/534)	<b>1.26(1.01-1.56)</b>	<b>0.038</b>	1.13(0.94-1.36)	0.207

	Black CHD(29/148)	<b>0.71(0.51-0.99)</b>	<b>0.045</b>	0.95(0.76-1.19)	0.653
Cornell voltage	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	0.97(0.82-1.16)	0.763	1.09(0.96-1.24)	0.198
	White CHD(88/534)	0.79(0.62-1.003)	0.053	0.94(0.77-1.13)	0.491
	Black CHD(29/148)	0.78(0.57-1.08)	0.130	0.95(0.70-1.30)	0.757
Peak QRS-T angle	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.00(0.80-1.24)	0.979	0.93(0.74-1.17)	0.519
	White BMI-3(117/2426)	0.97(0.78-1.21)	0.785	0.88(0.69-1.10)	0.275
	Black BMI-1(46/832)	0.81(0.59-1.10)	0.169	0.83(0.61-1.14)	0.245
	Black BMI-2(82/1397)	0.77(0.60-0.97)	0.028	<b>0.70(0.54-0.90)</b>	<b>0.006</b>
	Black BMI-3(85/1510)	0.99(0.79-1.24)	0.920	1.02(0.79-1.33)	0.858
Area QRS-T angle	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	0.81(0.63-1.04)	0.098	0.90(0.71-1.14)	0.391
	White BMI-3(117/2426)	0.80(0.63-1.02)	0.077	0.88(0.69-1.12)	0.301
	Black BMI-1(46/832)	<b>0.57(0.41-0.81)</b>	<b>0.002</b>	<b>0.71(0.51-0.98)</b>	<b>0.040</b>
	Black BMI-2(82/1397)	<b>0.65(0.49-0.85)</b>	<b>0.002</b>	<b>0.67(0.51-0.87)</b>	<b>0.003</b>
	Black BMI-3(85/1510)	<b>0.73(0.56-0.95)</b>	<b>0.018</b>	0.95(0.72-1.25)	0.703
Peak SVG magnitude	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.10(0.80-1.50)	0.566	1.25(0.91-1.72)	0.177
	White BMI-3(117/2426)	1.08(0.79-1.47)	0.646	1.11(0.79-1.55)	0.555
	Black BMI-1(46/832)	1.18(0.85-1.64)	0.321	1.11(0.79-1.56)	0.545
	Black BMI-2(82/1397)	1.14(0.83-1.58)	0.414	<b>1.38(1.01-1.88)</b>	<b>0.043</b>
	Black BMI-3(85/1510)	1.38(0.995-1.90)	0.054	<b>1.51(1.10-2.07)</b>	<b>0.010</b>
SVG magnitude	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.03(0.74-1.42)	0.867	1.13(0.83-1.54)	0.431
	White BMI-3(117/2426)	1.00(0.72-1.37)	0.981	0.97(0.70-1.36)	0.872
	Black BMI-1(46/832)	1.07(0.78-1.47)	0.668	0.96(0.70-1.33)	0.822
	Black BMI-2(82/1397)	1.02(0.74-1.40)	0.918	1.22(0.90-1.65)	0.191
	Black BMI-3(85/1510)	1.32(0.95-1.84)	0.098	1.35(0.98-1.86)	0.062
SAI QRST	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.03(0.81-1.30)	0.825	0.97(0.80-1.18)	0.762
	White BMI-3(117/2426)	1.02(0.80-1.31)	0.864	1.06(0.84-1.33)	0.643
	Black BMI-1(46/832)	0.77(0.58-1.02)	0.069	0.88(0.68-1.15)	0.356
	Black BMI-2(82/1397)	<b>0.75(0.59-0.95)</b>	<b>0.019</b>	0.87(0.70-1.08)	0.194
	Black BMI-3(85/1510)	1.12(0.91-1.40)	0.288	<b>1.22(0.998-1.49)</b>	<b>0.052</b>
Cornell voltage	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.01(0.75-1.35)	0.968	0.95(0.78-1.17)	0.656
	White BMI-3(117/2426)	1.05(0.78-1.41)	0.749	0.91(0.71-1.15)	0.421
	Black BMI-1(46/832)	1.00(0.74-1.36)	0.995	1.01(0.811-1.27)	0.905
	Black BMI-2(82/1397)	0.96(0.73-1.27)	0.791	0.86(0.68-1.08)	0.200
	Black BMI-3(85/1510)	1.19(0.89-1.60)	0.246	<b>1.26(1.05-1.52)</b>	<b>0.015</b>

#Proportionality hazards assumption not met; SVG=spatial ventricular gradient; RHR=relative hazard ratio; HTN=hypertension; CHD=coronary heart disease; BMI-1=under- or normal-weight; BMI-2=overweight; BMI-3=obese.

**Table S6. Two-way interactions in association of global ECG measures with SCD in competing risk models: race-hypertension; race-coronary heart disease, and race-BMI category.**

Predictor, per 1 SD	Subgroup	Competing SCD risk model 1		Competing SCD risk model 2	
		RSHR(95%CI)	P <sub>interaction</sub>	RSHR (95%CI)	P <sub>interaction</sub>
Peak QRS-T angle	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	0.93(0.71-1.23)	0.611	0.87(0.64-1.17)	0.348
	White HTN(148/2737)	0.93(0.78-1.09)	0.368	0.87(0.72-1.04)	0.134
	Black HTN(167/1910)	<b>0.79(0.67-0.93)</b>	<b>0.005</b>	<b>0.80(0.67-0.96)</b>	<b>0.019</b>
Area QRS-T angle	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	1.04(0.74-1.44)	0.834	0.97(0.71-1.33)	0.850
	White HTN(148/2737)	0.93(0.77-1.12)	0.448	0.90(0.74-1.10)	0.320
	Black HTN(167/1910)	<b>0.71(0.59-0.86)</b>	<b>&lt;0.0001</b>	<b>0.72(0.59-0.89)</b>	<b>0.002</b>
Peak SVG magnitude	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	<b>1.42(1.07-1.89)</b>	<b>0.017</b>	<b>1.50(1.07-2.09)</b>	<b>0.018</b>
	White HTN(148/2737)	1.26(0.99-1.60)	0.063	1.15(0.87-1.51)	0.326
	Black HTN(167/1910)	1.19(0.96-1.48)	0.120	1.22(0.97-1.53)	0.090
SVG magnitude	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	<b>1.32(1.00-1.76)</b>	<b>0.050</b>	<b>1.44(1.05-1.96)</b>	<b>0.023</b>
	White HTN(148/2737)	<b>1.27(1.01-1.61)</b>	<b>0.043</b>	1.16(0.90-1.51)	0.255
	Black HTN(167/1910)	1.12(0.90-1.38)	0.314	1.18(0.94-1.48)	0.155
SAI QRST	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	1.22(0.94-1.59)	0.132	1.25(0.96-1.63)	0.102
	White HTN(148/2737)	1.11(0.93-1.33)	0.232	1.01(0.87-1.16)	0.921
	Black HTN(167/1910)	0.90(0.75-1.08)	0.256	0.96(0.82-1.12)	0.626
Cornell voltage	White HTN-free(161/7623)	Reference (1.00)		Reference (1.00)	
	Black HTN-free(46/1616)	1.00(0.73-1.36)	0.985	1.02(0.74-1.39)	0.922
	White HTN(148/2737)	1.09(0.87-1.36)	0.457	1.01(0.86-1.20)	0.864
	Black HTN(167/1910)	1.01(0.82-1.25)	0.899	1.11(0.94-1.32)	0.208
Peak QRS-T angle	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	0.94(0.80-1.09)	0.408	0.93(0.78-1.10)	0.402
	White CHD(88/534)	1.04(0.86-1.24)	0.708	1.04(0.83-1.30)	0.762
	Black CHD(29/148)	<b>0.71(0.52-0.96)</b>	<b>0.027</b>	0.80(0.54-1.20)	0.282
Area QRS-T angle	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	0.87(0.73-1.03)	0.108	0.85(0.70-1.02)	0.087
	White CHD(88/534)	1.09(0.89-1.33)	0.396	1.04(0.82-1.32)	0.745
	Black CHD(29/148)	0.77(0.56-1.09)	0.107	0.84(0.60-1.18)	0.321
Peak SVG magnitude	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	1.14(0.95-1.38)	0.160	1.17(0.95-1.43)	0.132
	White CHD(88/534)	0.94(0.70-1.26)	0.681	0.86(0.61-1.20)	0.366
	Black CHD(29/148)	0.76(0.51-1.14)	0.182	1.02(0.64-1.62)	0.926
SVG magnitude	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	1.12(0.93-1.35)	0.215	1.14(0.94-1.39)	0.197
	White CHD(88/534)	1.03(0.78-1.37)	0.815	0.89(0.65-1.21)	0.443
	Black CHD(29/148)	0.69(0.47-1.01)	0.059	0.88(0.54-1.42)	0.595
	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	

SAI QRST	Black CHD-free(184/3591)	1.02(0.87-1.18)	0.842	1.06(0.92-1.22)	0.395
	White CHD(88/534)	1.07(0.87-1.31)	0.506	1.05(0.86-1.27)	0.631
	Black CHD(29/148)	<b>0.64(0.47-0.88)</b>	<b>0.007</b>	0.86(0.64-1.17)	0.337
Cornell voltage	White CHD-free(221/10135)	Reference (1.00)		Reference (1.00)	
	Black CHD-free(184/3591)	0.96(0.81-1.13)	0.052	1.09(0.95-1.25)	0.219
	White CHD(88/534)	<b>0.76(0.60-0.98)</b>	<b>0.037</b>	0.90(0.75-1.08)	0.256
	Black CHD(29/148)	0.72(0.81-1.13)	0.615	0.91(0.54-1.53)	0.729
Peak QRS-T angle	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	0.94(0.76-1.15)	0.546	0.87(0.69-1.09)	0.232
	White BMI-3(117/2426)	0.91(0.74-1.12)	0.362	0.83(0.65-1.05)	0.112
	Black BMI-1(46/832)	<b>0.73(0.54-0.99)</b>	<b>0.043</b>	0.78(0.57-1.07)	0.125
	Black BMI-2(82/1397)	<b>0.72(0.57-0.92)</b>	<b>0.008</b>	<b>0.68(0.52-0.88)</b>	<b>0.004</b>
	Black BMI-3(85/1510)	0.94(0.75-1.17)	0.562	0.96(0.73-1.26)	0.755
Area QRS-T angle	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	0.82(0.65-1.04)	0.098	0.86(0.67-1.11)	0.255
	White BMI-3(117/2426)	<b>0.78(0.62-0.97)</b>	<b>0.029</b>	0.82(0.63-1.06)	0.136
	Black BMI-1(46/832)	<b>0.57(0.41-0.78)</b>	<b>0.001</b>	<b>0.65(0.46-0.90)</b>	<b>0.009</b>
	Black BMI-2(82/1397)	<b>0.64(0.49-0.83)</b>	<b>0.001</b>	<b>0.65(0.49-0.87)</b>	<b>0.004</b>
	Black BMI-3(85/1510)	<b>0.75(0.58-0.96)</b>	<b>0.024</b>	0.86(0.64-1.17)	0.336
Peak SVG magnitude	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.16(0.86-1.57)	0.328	1.28(0.93-1.76)	0.132
	White BMI-3(117/2426)	1.13(0.85-1.49)	0.411	1.15(0.81-1.64)	0.438
	Black BMI-1(46/832)	1.14(0.87-1.51)	0.343	1.11(0.79-1.55)	0.555
	Black BMI-2(82/1397)	1.14(0.84-1.54)	0.403	<b>1.43(1.02-2.01)</b>	<b>0.036</b>
	Black BMI-3(85/1510)	1.25(0.94-1.67)	0.130	<b>1.44(1.07-1.94)</b>	<b>0.017</b>
SVG magnitude	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.13(0.84-1.52)	0.423	1.15(0.84-1.58)	0.377
	White BMI-3(117/2426)	1.10(0.82-1.47)	0.527	1.04(0.73-1.47)	0.847
	Black BMI-1(46/832)	0.99(0.74-1.32)	0.922	0.96(0.69-1.34)	0.800
	Black BMI-2(82/1397)	0.99(0.73-1.34)	0.956	1.27(0.90-1.79)	0.178
	Black BMI-3(85/1510)	1.16(0.86-1.57)	0.328	1.27(0.92-1.75)	0.152
SAI QRST	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.02(0.84-1.25)	0.813	0.99(0.83-1.19)	0.959
	White BMI-3(117/2426)	0.99(0.80-1.23)	0.923	1.04(0.83-1.29)	0.754
	Black BMI-1(46/832)	0.76(0.57-1.02)	0.070	0.86(0.62-1.20)	0.373
	Black BMI-2(82/1397)	<b>0.76(0.63-0.93)</b>	<b>0.006</b>	0.86(0.70-1.06)	0.148
	Black BMI-3(85/1510)	1.06(0.84-1.33)	0.637	<b>1.24(1.01-1.51)</b>	<b>0.037</b>
Cornell voltage	White BMI-1(75/3951)	Reference (1.00)		Reference (1.00)	
	White BMI-2(117/4292)	1.03(0.79-1.33)	0.643	0.95(0.78-1.15)	0.591
	White BMI-3(117/2426)	1.02(0.76-1.37)	0.897	0.87(0.68-1.12)	0.287
	Black BMI-1(46/832)	0.97(0.73-1.28)	0.812	1.00(0.78-1.27)	0.992
	Black BMI-2(82/1397)	0.96(0.74-1.24)	0.739	0.83(0.64-1.07)	0.150
	Black BMI-3(85/1510)	1.14(0.85-1.52)	0.375	<b>1.31(1.10-1.56)</b>	<b>0.003</b>

#Proportionality hazards assumption not met; SVG=spatial ventricular gradient; RHR=relative hazard ratio; HTN=hypertension; CHD=coronary heart disease; BMI-1=under- or normal-weight; BMI-2=overweight; BMI-3=obese.

**Table S7. Stratified association of global ECG measures with SCD in Cox models: race-hypertension; race-coronary heart disease, and race-BMI category subgroups.**

Predictor, per 1 SD	Subgroup	Cox model 1		Cox model 2	
		HR(95%CI)	P	HR (95%CI)	P
Peak QRS-T angle	White HTN-free(161/7623)	<b>1.34(1.17-1.54)</b>	<b>&lt;0.0001</b>	<b>1.30(1.13-1.49)</b>	<b>&lt;0.0001</b>
	Black HTN-free(46/1616)	1.30(0.97-1.73)	0.078	1.00(0.72-1.41)	0.974
	White HTN(148/2737)	<b>1.37(1.21-1.57)</b>	<b>&lt;0.0001</b>	<b>1.17(1.01-1.35)</b>	<b>0.031</b>
	Black HTN(167/1910)	<b>1.27(1.12-1.43)</b>	<b>&lt;0.0001</b>	1.13(0.98-1.30)	0.087
Area QRS-T angle	White HTN-free(161/7623)	<b>1.36(1.17-1.58)#</b>	<b>&lt;0.0001</b>	<b>1.32(1.14-1.54)</b>	<b>&lt;0.0001</b>
	Black HTN-free(46/1616)	<b>1.52(1.09-2.11)</b>	<b>0.013</b>	1.21(0.86-1.69)	0.276
	White HTN(148/2737)	<b>1.41(1.22-1.63)</b>	<b>&lt;0.0001</b>	<b>1.25(1.07-1.45)</b>	<b>0.004</b>
	Black HTN(167/1910)	1.15(0.99-1.32)	0.060	1.06(0.91-1.25)	0.430
Peak SVG magnitude	White HTN-free(161/7623)	<b>0.83(0.69-0.99)</b>	<b>0.041</b>	0.89(0.73-1.07)	0.203
	Black HTN-free(46/1616)	1.04(0.76-1.41)	0.826	1.14(0.85-1.51)	0.387
	White HTN(148/2737)	0.97(0.81-1.17)#	0.780	1.04(0.86-1.25)	0.703
	Black HTN(167/1910)	1.01(0.87-1.17)	0.882	1.06(0.91-1.22)	0.462
SVG magnitude	White HTN-free(161/7623)	0.90(0.75-1.08)	0.247	0.91(0.76-1.10)	0.342
	Black HTN-free(46/1616)	1.03(0.76-1.39)	0.863	1.14(0.86-1.52)	0.372
	White HTN(148/2737)	1.08(0.90-1.30)#	0.402	1.08(0.90-1.29)	0.420
	Black HTN(167/1910)	1.06(0.92-1.23)	0.422	1.08(0.94-1.26)	0.282
SAI QRST	White HTN-free(161/7623)	1.09(0.92-1.29)	0.312	1.10(0.95-1.27)	0.195
	Black HTN-free(46/1616)	1.27(0.93-1.75)	0.136	1.27(0.92-1.75)	0.153
	White HTN(148/2737)	<b>1.36(1.18-1.56)</b>	<b>&lt;0.0001</b>	<b>1.15(1.03-1.28)</b>	<b>0.010</b>
	Black HTN(167/1910)	<b>1.14(1.02-1.27)</b>	<b>0.020</b>	<b>1.12(1.02-1.23)</b>	<b>0.024</b>
Cornell voltage	White HTN-free(161/7623)	1.04(0.86-1.25)	0.707	1.07(0.93-1.24)	0.347
	Black HTN-free(46/1616)	1.02(0.72-1.44)	0.925	0.98(0.67-1.46)	0.944
	White HTN(148/2737)	<b>1.23(1.05-1.44)</b>	<b>0.012</b>	1.12(0.99-1.27)	0.065
	Black HTN(167/1910)	<b>1.22(1.08-1.39)</b>	<b>0.002</b>	<b>1.19(1.08-1.31)</b>	<b>&lt;0.0001</b>
Peak QRS-T angle	White CHD-free(221/10135)	<b>1.28(1.14-1.44)</b>	<b>&lt;0.0001</b>	<b>1.20(1.06-1.35)</b>	<b>0.004</b>
	Black CHD-free(184/3591)	<b>1.27(1.13-1.43)</b>	<b>&lt;0.0001</b>	1.10(0.96-1.26)	0.161
	White CHD(88/534)	<b>1.53(1.28-1.83)</b>	<b>&lt;0.0001</b>	<b>1.35(1.10-1.65)</b>	<b>0.004</b>
	Black CHD(29/148)	1.24(0.81-1.88)	0.323	1.00(0.64-1.54)	0.991
Area QRS-T angle	White CHD-free(221/10135)	<b>1.24(1.09-1.41)</b>	<b>0.001</b>	<b>1.24(1.09-1.40)</b>	<b>0.001</b>
	Black CHD-free(184/3591)	<b>1.18(1.03-1.36)</b>	<b>0.018</b>	1.05(0.90-1.22)	0.545
	White CHD(88/534)	<b>1.67(1.38-2.01)</b>	<b>&lt;0.0001</b>	<b>1.42(1.16-1.75)</b>	<b>0.001</b>
	Black CHD(29/148)	1.17(0.72-1.89)	0.535	1.53(0.97-2.44)	0.070
Peak SVG magnitude	White CHD-free(221/10135)	0.91(0.78-1.06)	0.222	0.99(0.85-1.15)	0.898
	Black CHD-free(184/3591)	1.07(0.93-1.23)	0.359	1.07(0.93-1.22)	0.353
	White CHD(88/534)	0.87(0.67-1.12)	0.279	0.90(0.66-1.23)	0.502
	Black CHD(29/148)	1.28(0.77-2.11)	0.345	1.40(0.83-1.36)	0.208
SVG magnitude	White CHD-free(221/10135)	0.98(0.84-1.15)	0.828	1.04(0.89-1.21)	0.623
	Black CHD-free(184/3591)	1.12(0.98-1.29)	0.107	1.10(0.96-1.25)	0.172
	White CHD(88/534)	1.01(0.79-1.29)	0.930	0.90(0.68-1.19)	0.467
	Black CHD(29/148)	0.99(0.59-1.65)	0.961	1.14(0.66-1.97)	0.650
SAI QRST	White CHD-free(221/10135)	1.13(0.98-1.30)	0.088	1.10(0.99-1.22)	0.064
	Black CHD-free(184/3591)	<b>1.23(1.11-1.37)</b>	<b>&lt;0.0001</b>	<b>1.13(1.03-1.25)</b>	<b>0.012</b>
	White CHD(88/534)	<b>1.43(1.17-1.74)</b>	<b>&lt;0.0001</b>	<b>1.30(1.07-1.59)</b>	<b>0.008</b>

	Black CHD(29/148)	0.78(0.49-1.24)	0.298	1.14(0.85-1.52)	0.370
Cornell voltage	White CHD-free(221/10135)	<b>1.20(1.04-1.39)</b>	<b>0.015</b>	<b>1.13(1.01-1.26)</b>	<b>0.032</b>
	Black CHD-free(184/3591)	<b>1.23(1.08-1.39)</b>	<b>0.001</b>	<b>1.17(1.07-1.29)</b>	<b>0.001</b>
	White CHD(88/534)	0.97(0.78-1.20)	0.756	1.05(0.87-1.27)	0.621
	Black CHD(29/148)	1.07(0.68-1.70)	0.767	1.34(0.96-1.87)	0.089
Peak QRS-T angle	White BMI-1(75/3951)	<b>1.24(1.01-1.51)</b>	<b>0.042</b>	<b>1.28(1.02-1.60)</b>	<b>0.029</b>
	White BMI-2(117/4292)	<b>1.40(1.20-1.64)</b>	<b>&lt;0.0001</b>	<b>1.25(1.06-1.47)</b>	<b>0.007</b>
	White BMI-3(117/2426)	<b>1.44(1.24-1.67)</b>	<b>&lt;0.0001</b>	<b>1.19(1.01-1.40)</b>	<b>0.038</b>
	Black BMI-1(46/832)	1.18(0.89-1.57)	0.242	1.05(0.78-1.42)	0.750
	Black BMI-2(82/1397)	1.12(0.93-1.34)	0.243	1.03(0.83-1.27)	0.812
	Black BMI-3(85/1510)	<b>1.43(1.20-1.69)</b>	<b>&lt;0.0001</b>	<b>1.35(1.09-1.68)</b>	<b>0.006</b>
Area QRS-T angle	White BMI-1(75/3951)	<b>1.52(1.23-1.89)</b>	<b>&lt;0.0001</b>	<b>1.41(1.12-1.77)#</b>	<b>0.004</b>
	White BMI-2(117/4292)	<b>1.31(1.10-1.56)</b>	<b>0.002</b>	<b>1.25(1.05-1.48)</b>	<b>0.012</b>
	White BMI-3(117/2426)	<b>1.39(1.17-1.65)</b>	<b>&lt;0.0001</b>	<b>1.27(1.07-1.51)</b>	<b>0.006</b>
	Black BMI-1(46/832)	0.99(0.73-1.36)	0.970	0.90(0.65-1.23)	0.500
	Black BMI-2(82/1397)	1.12(0.91-1.39)	0.288	1.08(0.86-1.36)	0.506
	Black BMI-3(85/1510)	<b>1.31(1.07-1.59)</b>	<b>0.008</b>	<b>1.38(1.09-1.74)</b>	<b>0.007</b>
Peak SVG magnitude	White BMI-1(75/3951)	0.88(0.68-1.14)	0.343	0.88(0.67-1.14)	0.327
	White BMI-2(117/4292)	0.95(0.77-1.17)	0.622	1.04(0.84-1.30)	0.712
	White BMI-3(117/2426)	0.88(0.71-1.08)	0.222	0.95(0.74-1.21)	0.658
	Black BMI-1(46/832)	0.87(0.67-1.12)	0.278	0.89(0.67-1.19)	0.436
	Black BMI-2(82/1397)	0.95(0.76-1.21)	0.697	1.18(0.96-1.47)	0.121
	Black BMI-3(85/1510)	1.18(0.94-1.48)	0.154	<b>1.28(1.01-1.62)</b>	<b>0.040</b>
SVG magnitude	White BMI-1(75/3951)	0.98(0.76-1.26)	0.860	0.99(0.77-1.27)	0.911
	White BMI-2(117/4292)	1.05(0.85-1.30)	0.656	1.06(0.86-1.31)	0.566
	White BMI-3(117/2426)	0.94(0.75-1.18)	0.606	0.94(0.73-1.19)	0.591
	Black BMI-1(46/832)	0.86(0.68-1.10)	0.231	0.87(0.66-1.14)	0.317
	Black BMI-2(82/1397)	0.96(0.76-1.22)	0.748	1.23(0.996-1.52)	0.055
	Black BMI-3(85/1510)	<b>1.36(1.07-1.72)</b>	<b>0.012</b>	<b>1.28(1.01-1.63)</b>	<b>0.041</b>
SAI QRST	White BMI-1(75/3951)	1.17(0.96-1.43)	0.109	1.15(0.95-1.38)	0.147
	White BMI-2(117/4292)	<b>1.24(1.05-1.47)#</b>	<b>0.013</b>	1.08(0.96-1.22)	0.201
	White BMI-3(117/2426)	<b>1.24(1.02-1.50)</b>	<b>0.027</b>	<b>1.23(1.03-1.47)</b>	<b>0.026</b>
	Black BMI-1(46/832)	0.89(0.68-1.18)	0.426	0.98(0.75-1.28)	0.875
	Black BMI-2(82/1397)	0.94(0.78-1.14)	0.537	1.04(0.89-1.21)	0.620
	Black BMI-3(85/1510)	<b>1.50(1.30-1.73)</b>	<b>&lt;0.0001</b>	<b>1.45(1.26-1.68)</b>	<b>&lt;0.0001</b>
Cornell voltage	White BMI-1(75/3951)	1.03(0.81-1.31)	0.807	1.12(0.94-1.34)	0.210
	White BMI-2(117/4292)	1.14(0.94-1.39)	0.195	1.04(0.90-1.20)	0.582
	White BMI-3(117/2426)	1.15(0.94-1.42)	0.184	1.10(0.91-1.32)	0.322
	Black BMI-1(46/832)	1.12(0.89-1.40)	0.334	1.13(0.92-1.38)	0.254
	Black BMI-2(82/1397)	1.09(0.90-1.31)	0.384	0.99(0.83-1.18)	0.889
	Black BMI-3(85/1510)	<b>1.37(1.10-1.70)</b>	<b>0.005</b>	<b>1.47(1.28-1.68)</b>	<b>&lt;0.0001</b>

#Proportionality hazards assumption not met; SVG=spatial ventricular gradient; RHR=relative hazard ratio; HTN=hypertension; CHD=coronary heart disease; BMI-1=under- or normal-weight; BMI-2=overweight; BMI-3=obese.

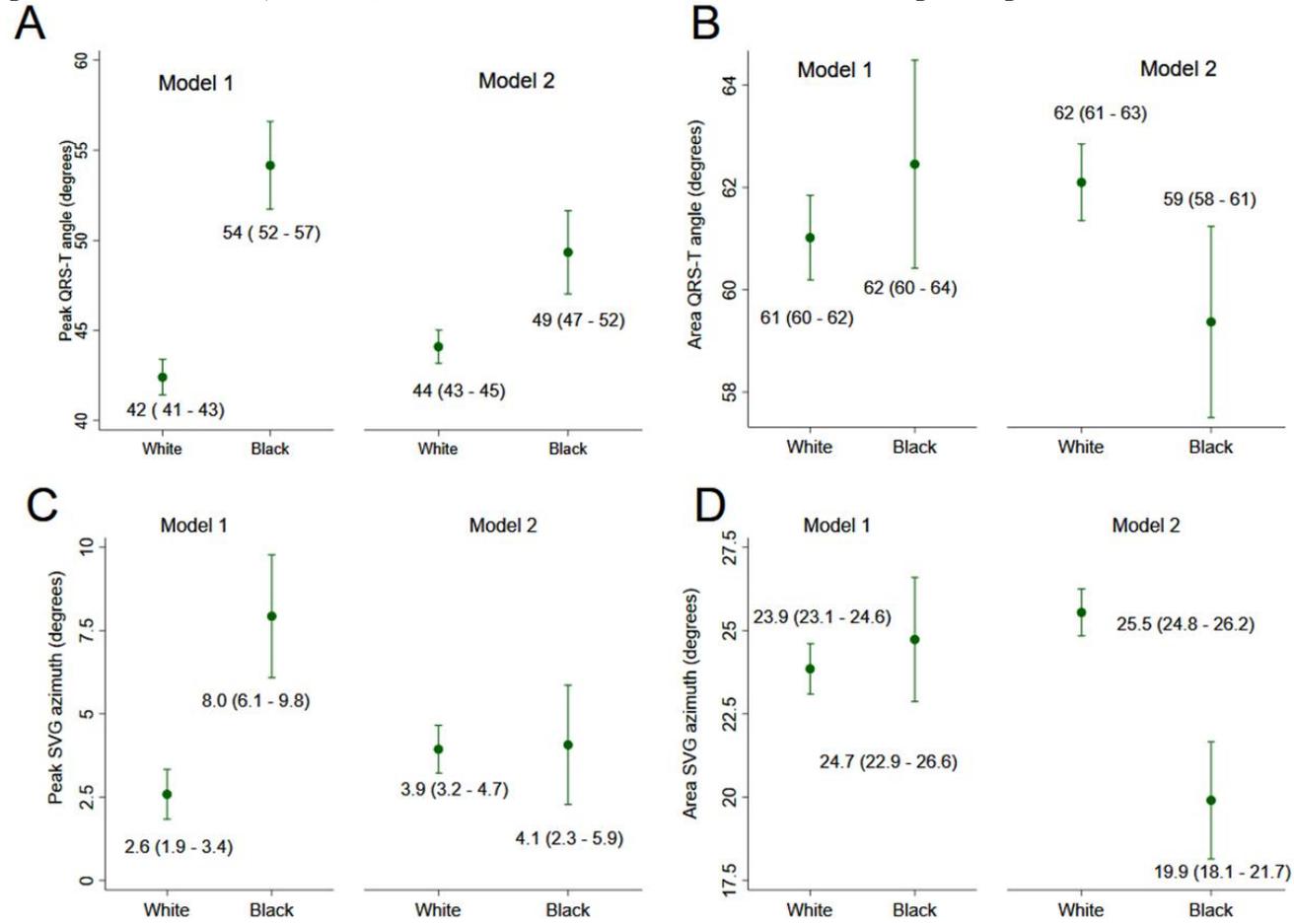
**Table S8. Competing risk of sudden cardiac death in race-hypertension, race-coronary heart disease, and race-BMI category subgroups.**

Predictor, per 1 SD	Subgroup	Competing risk model 1		Competing risk model 2	
		SHR (95% CI)	P	SHR (95% CI)	P
Peak QRS-T angle	White HTN-free(161/7784)	<b>1.30(1.13-1.50)</b>	<b>&lt;0.0001</b>	<b>1.26(1.10-1.44)</b>	<b>0.001</b>
	Black HTN-free(46/1662)	1.23(0.86-1.75)	0.258	1.14(0.77-1.68)	0.512
	White HTN(148/2885)	<b>1.25(1.08-1.44)</b>	<b>0.002</b>	<b>1.17(1.00-1.36)</b>	<b>0.045</b>
	Black HTN(167/2077)	1.10(0.96-1.27)	0.177	1.11(0.95-1.30)	0.200
Area QRS-T angle	White HTN-free(161/7784)	<b>1.31(1.09-1.56)</b>	<b>0.003</b>	<b>1.31(1.10-1.54)</b>	<b>0.002</b>
	Black HTN-free(46/1662)	<b>1.51(1.01-2.25)</b>	<b>0.044</b>	1.37(0.95-1.97)	0.092
	White HTN(148/2885)	<b>1.25(1.07-1.47)</b>	<b>0.005</b>	<b>1.25(1.08-1.47)</b>	<b>0.004</b>
	Black HTN(167/2077)	0.96(0.82-1.12)	0.595	1.03(0.87-1.23)	0.739
Peak SVG magnitude	White HTN-free(161/7784)	0.85(0.72-1.02)	0.078	0.89(0.74-1.08)	0.229
	Black HTN-free(46/1662)	1.09(0.79-1.50)	0.603	1.16(0.85-1.58)	0.347
	White HTN(148/2885)	0.97(0.81-1.18)	0.793	0.99(0.81-1.23)	0.991
	Black HTN(167/2077)	0.94(0.80-1.10)	0.410	1.01(0.87-1.18)	0.889
SVG magnitude	White HTN-free(161/7784)	0.92(0.77-1.09)	0.339	0.90(0.75-1.09)	0.282
	Black HTN-free(46/1662)	1.04(0.73-1.46)	0.837	1.15(0.82-1.61)	0.413
	White HTN(148/2885)	1.07(0.89-1.28)	0.476	1.05(0.87-1.27)	0.628
	Black HTN(167/2077)	0.97(0.82-1.15)	0.739	1.03(0.87-1.21)	0.753
SAI QRST	White HTN-free(161/7784)	1.10(0.91-1.33)	0.312	1.08(0.95-1.23)	0.232
	Black HTN-free(46/1662)	1.25(0.84-1.87)	0.270	1.33(0.92-1.92)	0.127
	White HTN(148/2885)	1.19(1.02-1.39)	0.030	<b>1.16(1.04-1.30)</b>	<b>0.008</b>
	Black HTN(167/2077)	0.99(0.85-1.16)	0.909	1.11(0.98-1.27)	0.110
Cornell voltage	White HTN-free(161/7784)	1.00(0.80-1.24)	0.976	1.06(0.92-1.23)	0.400
	Black HTN-free(46/1662)	1.00(0.71-1.40)	0.985	1.13(0.78-1.63)	0.520
	White HTN(148/2885)	1.11(0.96-1.29)	0.166	1.12(0.99-1.27)	0.065
	Black HTN(167/2077)	1.12(0.98-1.27)	0.095	<b>1.18(1.05-1.33)</b>	<b>0.005</b>
Peak QRS-T angle	White CHD-free(221/10135)	<b>1.21(1.07-1.38)</b>	<b>0.002</b>	<b>1.18(1.04-1.33)</b>	<b>0.009</b>
	Black CHD-free(184/3591)	1.11(0.97-1.28)	0.132	1.07(0.93-1.24)	0.344
	White CHD(88/534)	<b>1.28(1.09-1.52)</b>	<b>0.004</b>	<b>1.23(1.001-1.51)</b>	<b>0.048</b>
	Black CHD(29/148)	1.21(0.68-2.15)	0.516	<b>54.12(3.5-832.2)</b>	<b>0.004</b>
Area QRS-T angle	White CHD-free(221/10135)	1.16(0.996-1.34)	0.056	<b>1.23(1.07-1.41)</b>	<b>0.003</b>
	Black CHD-free(184/3591)	0.96(0.82-1.14)	0.672	1.02(0.87-1.20)	0.787
	White CHD(88/534)	<b>1.36(1.10-1.67)</b>	<b>0.004</b>	<b>1.36(1.09-1.69)</b>	<b>0.005</b>
	Black CHD(29/148)	1.05(0.55-2.01)	0.877	1.33(0.82-2.16)	0.244
Peak SVG magnitude	White CHD-free(221/10135)	0.93(0.80-1.08)	0.346	0.98(0.84-1.15)	0.824
	Black CHD-free(184/3591)	1.02(0.89-1.18)	0.770	1.06(0.92-1.21)	0.412
	White CHD(88/534)	0.89(0.69-1.16)	0.407	0.83(0.62-1.13)	0.240
	Black CHD(29/148)	0.97(0.50-1.88)	0.919	1.04(0.62-1.73)	0.895
SVG magnitude	White CHD-free(221/10135)	1.00(0.87-1.16)	0.963	1.00(0.87-1.16)	0.963
	Black CHD-free(184/3591)	1.08(0.93-1.25)	0.337	1.08(0.93-1.25)	0.337
	White CHD(88/534)	1.06(0.83-1.34)	0.659	1.06(0.83-1.34)	0.659
	Black CHD(29/148)	0.78(0.39-1.55)	0.473	0.78(0.39-1.55)	0.473
SAI QRST	White CHD-free(221/10135)	1.13(0.97-1.31)	0.116	1.10(0.999-1.21)	0.051
	Black CHD-free(184/3591)	1.14(0.99-1.32)	0.062	<b>1.14(1.01-1.29)</b>	<b>0.034</b>
	White CHD(88/534)	1.23(0.99-1.54)	0.067	1.22(0.99-1.51)	0.064

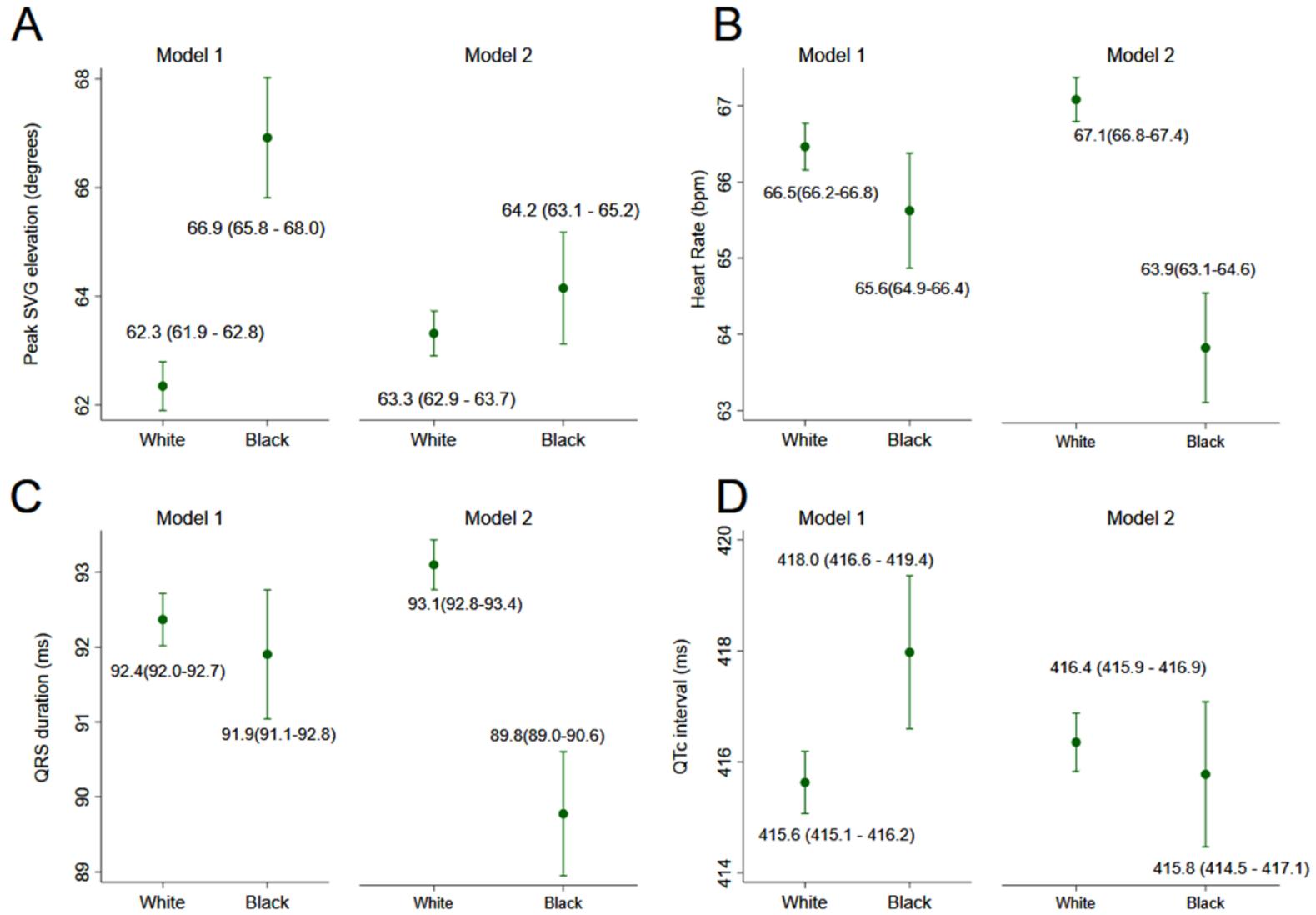
	Black CHD(29/148)	0.59(0.32-1.10)	0.095	2.61(0.20-33.58)	0.461
Cornell voltage	White CHD-free(221/10135)	<b>1.21(1.04-1.42)</b>	<b>0.014</b>	<b>1.12(1.00-1.24)</b>	<b>0.043</b>
	Black CHD-free(184/3591)	<b>1.14(1.01-1.29)</b>	<b>0.034</b>	<b>1.16(1.04-1.29)</b>	<b>0.007</b>
	White CHD(88/534)	0.81(0.63-1.04)	0.094	0.97(0.82-1.16)	0.755
	Black CHD(29/148)	1.06(0.53-2.13)	0.873	1.30(0.79-2.14)	0.298
Peak QRS-T angle	White BMI-1(75/3951)	<b>1.27(1.01-1.60)</b>	<b>0.039</b>	<b>1.35(1.08-1.67)</b>	<b>0.007</b>
	White BMI-2(117/4292)	<b>1.30(0.11-1.51)</b>	<b>0.001</b>	<b>1.21(1.02-1.43)</b>	<b>0.026</b>
	White BMI-3(117/2426)	<b>1.25(1.05-1.49)</b>	<b>0.011</b>	1.13(0.95-1.33)	0.161
	Black BMI-1(46/832)	0.89(0.60-1.33)	0.581	1.04(0.76-1.43)	0.792
	Black BMI-2(82/1397)	1.02(0.83-1.27)	0.833	1.03(0.81-1.31)	0.829
	Black BMI-3(85/1510)	<b>1.24(1.02-1.51)</b>	<b>0.031</b>	1.27(0.99-1.63)	0.064
Area QRS-T angle	White BMI-1(75/3951)	<b>1.65(1.26-2.15)</b>	<b>&lt;0.0001</b>	<b>1.48(1.16-1.90)</b>	<b>0.002</b>
	White BMI-2(117/4292)	<b>1.22(1.01-1.48)</b>	<b>0.043</b>	<b>1.24(1.03-1.50)</b>	<b>0.024</b>
	White BMI-3(117/2426)	1.18(0.96-1.44)	0.112	<b>1.23(1.01-1.48)</b>	<b>0.036</b>
	Black BMI-1(46/832)	0.74(0.51-1.09)	0.128	0.87(0.64-1.19)	0.383
	Black BMI-2(82/1397)	1.01(0.80-1.28)	0.917	1.10(0.85-1.43)	0.476
	Black BMI-3(85/1510)	1.10(0.88-1.37)	0.403	1.25(0.97-1.61)	0.090
Peak SVG magnitude	White BMI-1(75/3951)	0.87(0.69-1.09)	0.216	0.84(0.64-1.12)	0.234
	White BMI-2(117/4292)	0.96(0.76-1.20)	0.697	1.04(0.83-1.29)	0.740
	White BMI-3(117/2426)	0.92(0.75-1.14)	0.464	0.93(0.72-1.21)	0.601
	Black BMI-1(46/832)	0.90(0.70-1.15)	0.411	0.87(0.61-1.22)	0.414
	Black BMI-2(82/1397)	0.94(0.72-1.22)	0.637	1.18(0.90-1.55)	0.226
	Black BMI-3(85/1510)	0.97(0.76-1.24)	0.812	1.13(0.90-1.41)	0.295
SVG magnitude	White BMI-1(75/3951)	0.96(0.76-1.21)	0.708	0.94(0.72-1.24)	0.668
	White BMI-2(117/4292)	1.05(0.85-1.30)	0.654	1.04(0.85-1.28)	0.684
	White BMI-3(117/2426)	0.99(0.80-1.23)	0.946	0.92(0.72-1.18)	0.512
	Black BMI-1(46/832)	0.87(0.68-1.11)	0.263	0.84(0.61-1.15)	0.270
	Black BMI-2(82/1397)	0.95(0.72-1.24)	0.689	1.21(0.92-1.59)	0.183
	Black BMI-3(85/1510)	1.07(0.83-1.38)	0.623	1.14(0.88-1.48)	0.323
SAI QRST	White BMI-1(75/3951)	1.16(0.88-1.52)	0.286	1.14(0.96-1.37)	0.139
	White BMI-2(117/4292)	1.17(0.97-1.40)	0.101	1.09(0.97-1.22)	0.139
	White BMI-3(117/2426)	1.09(0.89-1.34)	0.410	<b>1.19(1.01-1.43)</b>	<b>0.041</b>
	Black BMI-1(46/832)	0.81(0.54-1.21)	0.305	0.97(0.65-1.46)	0.891
	Black BMI-2(82/1397)	0.89(0.72-1.09)	0.255	1.03(0.88-1.21)	0.693
	Black BMI-3(85/1510)	<b>1.23(1.01-1.50)</b>	<b>0.038</b>	<b>1.47(1.22-1.77)</b>	<b>&lt;0.0001</b>
Cornell voltage	White BMI-1(75/3951)	0.99(0.78-1.26)	0.937	1.16(0.98-1.37)	0.083
	White BMI-2(117/4292)	1.07(0.88-1.30)	0.505	1.05(0.92-1.21)	0.474
	White BMI-3(117/2426)	1.03(0.81-1.30)	0.809	1.02(0.85-1.23)	0.815
	Black BMI-1(46/832)	1.07(0.80-1.43)	0.642	1.12(0.89-1.40)	0.353
	Black BMI-2(82/1397)	1.07(0.89-1.29)	0.477	0.97(0.80-1.18)	0.769
	Black BMI-3(85/1510)	1.15(0.90-1.47)	0.268	<b>1.51(1.31-1.75)</b>	<b>&lt;0.0001</b>

#Proportionality hazards assumption not met; SVG=spatial ventricular gradient; RHR=relative hazard ratio; HTN=hypertension; CHD=coronary heart disease; BMI-1=under- or normal-weight; BMI-2=overweight; BMI-3=obese.

**Figure S1. Estimated adjusted marginal (least-squares) means and 95% CI of (A) peak QRS-T angle, (B) area QRS-T angle, (C) peak SVG azimuth, and (D) area SVG azimuth for white and black participants.**



**Figure S2. Estimated adjusted marginal (least-squares) means and 95% CI of (A) peak SVG elevation, (B) heart rate, (C) QRS duration, and (D) QTc for white and black participants.**



**Figure S3. Adjusted (model 1) risk of SCD associated with an area and peak SVG magnitude in black and white participants. Restricted cubic spline with 95% CI shows change in hazard ratio (Y-axis) in response to SVG magnitude change (X-axis). 50th percentile of SVG magnitude is selected as reference. Knots of area SVG magnitude in black participants are at 1.2 – 1.7 – 2.1 – 2.9 mV, and in white participants are at 1.0 – 1.4 – 1.8 – 2.4 mV. Knots of peak SVG magnitude in black participants are at 1.1 – 1.6 – 2.0 – 2.6 mV, and in white participants are at 0.9 – 1.4 – 1.7 – 2.2 mV.**

