

## Supplementary Materials

**Appendix Table 1. Baseline Characteristics of variables with missing data.**

Baseline characteristics	Missing data (%)	Before multiple imputation*	After multiple imputation (n=14708) *
Sitting height, cm	69 (0.47)	88.6 (4.8)	88.6 (5.6)
Body mass index, kg/m <sup>2</sup>	64 (0.44)	27.7 (5.4)	27.7 (5.4)
Systolic blood pressure, mmHg	59 (0.40)	121.3 (18.7)	121.2 (18.9)
Diastolic blood pressure, mmHg	60 (0.41)	73.6 (11.2)	73.6 (11.3)
Total cholesterol, mg/dL	266 (1.81)	215.2 (42.0)	215.2 (42.0)
LDL-cholesterol, mg/dl	482 (3.28)	138.0 (39.2)	137.9 (39.2)
HDL-cholesterol, mg/dl	264 (1.79)	51.4 (17.1)	51.3 (17.0)
Triglycerides, mg/dL	263 (1.79)	132.6 (91.2)	132.7 (90.9)
Fasting blood glucose, mg/dL	174 (1.18)	109.3 (40.8)	108.3 (41.6)
White blood count, ×10 <sup>3</sup> /mm <sup>3</sup>	209 (1.42)	6.1 (2.0)	6.1 (2.1)
Fibrinogen, mg/dL	233 (1.58)	304.0 (65.9)	302.2 (69.1)
Albumin, g/dL	160 (1.09)	3.9 (0.3)	3.9 (0.3)
Von Willebrand's factor,	230 (1.56)	118.8 (48.6)	118.0 (49.1)
Resting hear rate, bpm	170 (1.16)	66.3 (10.3)	66.3 (10.3)
QTc, ms	170 (1.16)	416.4 (19.8)	416.4 (20.4)

\* Expressed as mean and standard deviation (SD).

**Appendix Table 2. Association between individual clinical characteristics and SCD.**

Variable	Univariate analysis		Multivariate analysis	
	Hazard ratio (95% CI)	P value	Hazard ratio (95% CI) *	P value
Lung function parameters				
FEV1				
Quintile 1 (lowest)	2.05 (1.63-2.58)	<0.001	2.72 (2.03-3.64)	<0.001
Quintile 2	1.11 (0.86-1.43)	0.42	1.59 (1.19-2.12)	0.002
Quintile 3	1.05 (0.81-1.35)	0.72	1.35 (1.03-1.78)	0.03
Quintile 4	1.23 (0.96-1.58)	0.10	1.20 (0.93-1.54)	0.16
Quintile 5 (highest)	1.00 (reference)		1.00 (reference)	
FVC				
Quintile 1 (lowest)	1.74 (1.39-2.18)	<0.001	2.59 (1.87-3.58)	<0.001
Quintile 2	0.82 (0.63-1.07)	0.15	1.32 (0.97-1.79)	0.07
Quintile 3	1.06 (0.83-1.35)	0.64	1.33 (1.02-1.73)	0.04
Quintile 4	1.19 (0.94-1.51)	0.15	1.14 (0.82-1.34)	0.73
Quintile 5 (highest)	1.00 (reference)		1.00 (reference)	
Age, per 10 years	2.64 (2.31-3.03)	<0.001	2.35 (2.02-2.75)	<0.001
White vs. black	0.50 (0.43-0.59)	<0.001	0.82 (0.69-0.99)	0.04
Male vs. female	2.18 (1.87-2.54)	<0.001	3.47 (2.80-4.30)	<0.001
Education				
Less than high school	1.00 (reference)		1.00 (reference)	
High school	0.41 (0.35-0.49)	<0.001	0.65 (0.54-0.79)	<0.001
College	0.36 (0.30-0.44)	<0.001	0.60 (0.49-0.74)	<0.001
Sitting height , per 10 cm	1.01 (0.88-1.15)	0.93	-	
Body mass index, per kg/m <sup>2</sup>	1.05 (1.04-1.07)	<0.001	1.02 (1.00-1.04)	0.01
Systolic blood pressure, mmHg, per 10 mmHg	1.31 (1.27-1.36)	<0.001	1.11 (1.06-1.16)	<0.001
Diastolic blood pressure, mmHg, per 10 mmHg	1.30 (1.22-1.39)	<0.001	-	-
Smoking status				

Never	1.00 (reference)		1.00 (reference)	
Former	1.29 (1.07-1.54)	0.007	1.00 (0.82-1.22)	1.00
Current	2.00 (1.67-2.39)	<0.001	1.84 (1.50-2.26)	<0.001
Hypertension (yes/no)	3.34 (2.89-3.88)	<0.001	1.65 (1.36-2.01)	<0.001
Diabetes mellitus (yes/no)	4.25 (3.62-4.99)	<0.001	2.09 (1.66-2.64)	<0.001
Coronary heart disease (yes/no)	8.15 (6.81-9.74)	<0.001	-	-
Chronic heart failure (yes/no)	2.71 (2.11-3.47)	<0.001	1.39 (1.05-1.85)	0.02
Total cholesterol, per 10 mg/dL	1.05 (1.04-1.07)	<0.001	-	-
Triglycerides, per 10 mg/dL	1.02 (1.01-1.03)	<0.001	-	-
LDL-cholesterol, per 10 mg/dl	1.06 (1.04-1.08)	<0.001	1.05 (1.03-1.07)	<0.001
HDL-cholesterol, per 10 mg/dl	0.78 (0.74-0.82)	<0.001	-	-
Fasting blood glucose, per 10 mg/dL	1.09 (1.08-1.10)	<0.001	1.02 (1.00-1.04)	0.02
White blood count, per 10 <sup>3</sup> /mm <sup>3</sup>	1.08 (1.05-1.09)	<0.001	-	-
Fibrinogen, per 10 mg/dL	1.05 (1.04-1.06)	<0.001	1.02 (1.01-1.03)	0.003
Albumin, per g/dL	0.42 (0.32-0.56)	<0.001	0.67 (0.50-0.91)	0.01
Von Willebrand's factor, per 10 percent	1.07 (1.06-1.08)	<0.001	1.02 (1.01-1.04)	0.005
Resting hear rate, per 10 bpm	1.15 (1.07-1.24)	<0.001	-	-
QTc, per 10 ms	1.11 (1.09-1.14)	<0.001	1.06 (1.03-1.09)	<0.001
Left ventricular hypertrophy (yes/no)	3.59 (2.61-4.94)	<0.001	-	-
Use of bronchodilators (yes/no)	0.87 (0.48-1.57)	0.64	-	-
Use of inhaled corticosteroids (yes/no)	0.32 (0.05-2.28)	0.26	-	-

LDL, low density lipoprotein; HDL, high density lipoprotein; FEV1, forced expiratory volume in 1 second; FVC, forced vital capacity; and SCD, sudden cardiac death.

\* Variables included in the full model were FEV1/FVC, age (continuous), race, gender, education level, body mass index, systolic blood pressure, smoking status, hypertension, diabetes mellitus, history of heart failure, low-density lipoprotein cholesterol, fasting blood glucose, fibrinogen level, albumin level, von Willebrand factor and QTc duration.

**Appendix Table 3. Sensitivity analyses of race- and gender- specific hazard ratio (95% confidence intervals) of SCD according to quintiles of FEV1 \***

Excluding prevalent CHD or heart failure												
		Whites					Blacks					
		Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	
Males	Hazard Ratio	2.45	2.00	1.94	1.82	1.00	2.19	1.04	1.65	1.13	1.00	
	(95% CI)	(1.37-4.37)	(1.14-3.50)	(1.12-3.35)	(1.06-3.13)		(1.03-4.65)	(0.48-2.28)	(0.83-3.31)	(0.54-2.37)		
Females	Hazard Ratio	1.55	1.02	0.87	0.96	1.00	2.72	3.32	3.19	1.46	1.00	
	(95% CI)	(0.72-3.34)	(0.47-2.23)	(0.40-1.94)	(0.43-2.13)		(1.14-6.48)	(1.43-7.71)	(1.37-7.45)	(0.56-3.79)		
Excluding prevalent airflow obstruction												
		Whites					Blacks					
		Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	
Males	Hazard Ratio	3.65	2.07	1.65	1.91	1.00	2.00	1.29	1.66	1.00	1.00	
	(95% CI)	(2.03-6.55)	(1.20-3.57)	(0.96-2.83)	(1.14-3.19)		(1.07-3.74)	(0.62-2.70)	(0.86-3.21)	(0.48-2.05)		
Females	Hazard Ratio	1.87	1.27	0.81	0.96	1.00	3.09	3.31	3.13	1.58	1.00	
	(95% CI)	(1.03-3.40)	(0.60-2.66)	(0.37-1.78)	(0.44-2.06)		(1.33-7.15)	(1.49-7.35)	(1.40-6.97)	(0.65-3.86)		

SCD, sudden cardiac death; FEV1, forced expiratory volume in 1 second; and CI, confidence interval.

\* Adjusted for age (continuous), education level, body mass index, systolic blood pressure, smoking status, hypertension, diabetes mellitus, history of heart failure, low-density lipoprotein cholesterol, fasting blood glucose, fibrinogen level, albumin level, von Willebrand factor and QTc duration.

**Appendix Table 4. Race- and gender- specific hazard ratio (95% confidence intervals) of SCD according to continuous FEV1, FVC, FEV1 over FVC, FEV1%, predicted and FVC%, predicted\*.**

	Whites			Blacks			
	SD (liters)	Hazard ratio (95% CI)	P value <sup>†</sup>	Males	SD (liters)	Hazard ratio (95% CI)	P value <sup>†</sup>
Males							
FEV1	0.74	1.34 (1.17-1.54)	<0.001		0.65	1.26 (1.01-1.57)	0.04
FVC	0.83	1.39 (1.20-1.60)	<0.001		0.74	1.26 (1.01-1.57)	0.04
FEV1 over FVC	8.66	1.12 (1.01-1.24)	0.04		8.82	1.21 (1.02-1.44)	0.03
FEV1%, predicted	17.20	1.21 (1.10-1.33)	<0.001		17.38	1.24 (1.03-1.49)	0.03
FVC%, predicted	14.11	1.36 (1.22-1.52)	<0.001		15.14	1.25 (1.05-1.49)	0.009
Females							
FEV1	0.51	1.42 (1.09-1.85)	0.009		0.46	1.37 (1.12-1.67)	0.002
FVC	0.59	1.28 (1.04-1.58)	0.02		0.55	1.30 (1.06-1.60)	<0.001
FEV1/ FVC ratio	7.19	1.26 (1.09-1.46)	0.002		7.84	1.13 (1.01-1.26)	0.03
FEV1%, predicted	16.91	1.30 (1.10-1.54)	0.001		17.35	1.34 (1.13-1.59)	<0.001
FVC%, predicted	15.02	1.34 (1.14-1.58)	<0.001		16.69	1.37 (1.15-1.63)	<0.001

SCD, sudden cardiac death; FEV1, Forced expiratory volume in 1 second; FVC, Forced vital capacity; CI, confidence intervals; and SD, standard deviations.

\* Adjusted for age (continuous), education level, body mass index, systolic blood pressure, smoking status, hypertension, diabetes mellitus, history of heart failure, low-density lipoprotein cholesterol, fasting blood glucose, fibrinogen level, albumin level, von Willebrand factor and QTc duration.

<sup>†</sup> Linear test 1 standard deviations reduction of FEV1, FVC, FEV1/ FVC ratio, FEV1%, predicted and FVC%, predicted.

**Appendix Table 5. Race- and gender-specific hazard ratios (95% confidence intervals) of SCD according to quintiles of FVC, FEV1%, predicted, FVC%, predicted, and FEV1/FVC ratio\*.**

	FVC												
	Whites						Blacks						P for Trend <sup>†</sup>
	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	P for Trend <sup>†</sup>	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	P for Trend <sup>†</sup>	
Males, n	1048	1049	1049	1049	1048		293	293	294	293	293		
Range of FVC (mean)	1.48-4.00 (3.54)	4.00-4.47 (4.24)	4.47-4.88 (4.67)	4.88-5.36 (5.10)	5.36-8.25 (5.84)		1.03-3.36 (2.95)	3.37-3.75 (3.56)	3.75-4.10 (3.93)	4.10-4.51 (4.30)	4.52-6.8 (5.01)		
SCD events, n	94	73	54	49	30		41	33	27	18	22		
Hazard ratio (95% CI)	2.47 (1.57-3.91)	1.83 (1.17-2.88)	1.43 (0.90-2.27)	1.50 (0.95-2.37)	1 (1.00)	<0.001	1.34 (0.71-2.53)	1.25 (0.69-2.27)	1.02 (0.56-1.87)	0.63 (0.32-1.24)	1 (1.00)	0.03	
Females, n	1151	1151	1151	1151	1151		448	449	449	449	449		
Range of FVC (mean)	0.97-2.85 (2.51)	2.85-3.19 (3.02)	3.19-3.48 (3.33)	3.148-3.81 (3.63)	3.81-5.60 (4.14)		0.77-2.37 (2.08)	2.38-2.68 (2.53)	2.68-2.97 (2.82)	2.98-3.29 (3.12)	3.29-4.9 (3.61)		
SCD events, n	54	33	17	10	19		45	25	28	16	18		
Hazard ratio (95% CI)	1.10 (0.62-1.98)	0.77 (0.42-1.42)	0.57 (0.29-1.11)	0.34 (0.15-0.76)	1.00 (1.00)	0.04	1.70 (0.92-3.17)	1.18 (0.62-2.25)	1.47 (0.79-2.77)	0.91 (0.45-1.85)	1.00 (1.00)	0.04	
	FEV1%, predicted												
	Whites						Blacks						
	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	P for Trend <sup>†</sup>	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	P for Trend <sup>†</sup>	
Males, n	1048	1049	1048	1049	1048		293	294	293	294	293		
Range of FEV1%, predicted (mean)	12.68-77.80 (64.41)	77.81-87.83 (83.14)	87.83-95.79 (91.91)	95.79-103.7 (99.56)	103.70-140.46 (111.56)		21.36-76.01 (63.57)	76.02-86.38 (81.57)	86.40-93.78 (89.89)	93.80-102.4 (97.75)	102.49-145.07 (111.10)		

SCD events, n	82	78	49	56	35		40	24	33	27	17																																																																																																																																																																										
Hazard ratio	2.08	1.94	1.30	1.55	1.00	<0.00	2.21	1.22	1.74	1.45	1.00	0.04																																																																																																																																																																									
(95% CI)	(1.36-3.17)	(1.28-2.93)	(0.84-2.03)	(1.01-2.37)		1	(1.20-4.06)	(0.64-2.34)	(0.96-3.17)	(0.77-2.71)																																																																																																																																																																											
Females, n	1151	1151	1151	1151	1151		448	449	449	449	449																																																																																																																																																																										
Range of	16.49-84.02	84.03-94.03	94.05-101.7	101.80-109.	109.75-14		19.29-80.85	80.85-91.15	91.17-99.13	99.17-108.4	108.48-1																																																																																																																																																																										
FEV1%,predicted (mean)	(71.59)	(89.36)	9 (98.00)	75 (105.65)	5.28		(69.23)	(86.25)	(95.26)	2 (103.74)	69.96	(117.19)																																																																																																																																																																									
SCD events, n	47	25	23	20	18		34	36	32	13	17																																																																																																																																																																										
Hazard ratio	1.82	1.15	1.18	1.07	1.00	0.04	2.03	2.05	2.13	0.90	1.00	0.004																																																																																																																																																																									
(95% CI)	(1.01-3.29)	(0.61-2.17)	(0.63-2.22)	(0.56-2.05)			(1.06-3.90)	(1.08-3.87)	(1.13-34.01)	(0.42-1.92)																																																																																																																																																																											
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(95% CI)	(1.03-3.31)	(0.58-2.07)	(0.50-1.87)	(0.60-2.15)			(1.08-3.96)	(1.04-3.75)	(0.83-3.13)	(0.70-2.74)		
FEV1/ FVC ratio												
Whites						Blacks						
Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	P for Trend <sup>†</sup>	Quintile 1 (lowest)	Quintile 2	Quintile 3	Quintile 4	Quintile 5 (highest)	P for Trend <sup>†</sup>	
Males, n	1049	1050	1050	1050	1049		293	293	294	293	293	
Range of FEV1 over FVC (mean)	21.41-66.99 (59.01)	67.00-72.15 (69.82)	72.16-75.72 (73.97)	75.72-79.13 (77.36)	79.13-100 (81.82)		30.69-69.12 (61.41)	69.16-74.35 (71.91)	74.36-77.93 (76.27)	77.93-81.43 (79.65)	81.46-100 (84.76)	
SCD events, n	59	70	54	58	59		29	27	29	26	30	
Hazard ratio (95% CI)	1.50 (1.04-2.16)	1.45 (1.02-2.06)	0.99 (0.68-1.44)	1.04 (0.72-1.50)	1.00 (0.72-1.50)	0.007	1.40 (0.80-2.46)	1.06 (0.60-1.86)	1.17 (0.69-1.99)	0.82 (0.47-1.44)	1.00 (0.47-1.44)	0.04
Females, n	1151	1151	1151	1151	1151		448	449	449	449	449	
Range of FEV1 over FVC (mean)	23.05-70.15 (63.95)	70.15-74.24 (72.40)	74.25-77.15 (75.72)	77.15-80.06 (78.57)	80.07-100 (82.93)		33.75-72.33 (65.50)	72.34-76.67 (74.66)	76.68-79.84 (78.34)	79.85-82.77 (81.31)	82.79-100 (86.14)	
SCD events, n	35	32	24	22	20		31	32	21	27	21	
Hazard ratio (95% CI)	2.71 (1.50-4.93)	2.01 (1.10-3.65)	1.50 (0.80-2.79)	1.31 (0.70-2.47)	1.00 (0.70-2.47)	<0.001	1.84 (1.01-3.36)	1.84 (1.02-3.32)	1.19 (0.63-2.26)	1.36 (0.74-2.50)	1.00 (0.74-2.50)	0.02

SCD, sudden cardiac death; FEV1, Forced expiratory volume in 1 second; FVC, Forced vital capacity; CI, confidence intervals.

\* Adjusted for age (continuous), education level, body mass index, systolic blood pressure, smoking status, hypertension, diabetes mellitus, history of heart failure, low-density lipoprotein cholesterol, fasting blood glucose, fibrinogen level, albumin level, von Willebrand factor and QTc duration.

<sup>†</sup>The median values in each quintile were used as continuous variables for trend estimation.