Supplementary Material

Table S1. Race-specific multivariable adjusted hazard ratios and 95% confidence intervals for physical activity and stroke

	Poor Physical Activity	Intermediate Physical Activity	Ideal Physical Activity	P for trend
African-Americans				
Total stroke				
No. of cases	252	34	21	
Person-years	40,763.7	7,569.9	6,311.0	
Incidence rate [*]	6.18 (5.46,6.99)	4.49 (3.21,6.29)	3.33 (2.17,5.10)	
Model 1 [†#]	1	0.76 (0.53,1.10)	0.58 (0.37,0.90)	0.007
Model 2 [‡#]	1	0.84 (0.58,1.21)	0.64 (0.41,1.01)	0.042
Model 3 [§#]	1	0.89 (0.61,1.28)	0.71 (0.45,1.11)	0.114
Total ischemic stroke				
No. of cases	223	31	14	
Person-years	40,918.4	7,575.1	6,357.9	
Incidence rate [*]	5.45 (4.78,6.21)	4.09 (2.88,5.82)	2.20 (1.30,3.72)	
Model 1 [†#]	1	0.77 (0.53,1.13)	0.43 (0.25,0.74)	0.001
Model 2 [‡#]	1	0.86 (0.59,1.26)	0.49 (0.28,0.84)	0.010
Model 3 [§#]	1	0.91 (0.62,1.33)	0.53 (0.31,0.92)	0.030
Caucasians				
Total stroke				
No. of cases	244	113	76	
Person-years	86,499.8	50,034.1	34,392.2	
Incidence rate [*]	2.82 (2.49,3.20)	2.26 (1.88,2.72)	2.21 (1.76,2.77)	
Model 1 [†#]	1	0.79 (0.63,0.99)	0.77 (0.59,1.00)	0.022
Model 2 [‡#]	1	0.83 (0.66,1.04)	0.82 (0.63,1.06)	0.071
Model 3 [§#]	1	0.88 (0.70,1.11)	0.90 (0.69,1.18)	0.325
Total ischemic stroke				
No. of cases	207	104	69	
Person-years	86,645.2	50,078.8	34,415.4	
Incidence rate [*]	2.39 (2.08,2.74)	2.08 (1.71,2.52)	2.00 (1.58,2.54)	
Model 1 [†#]	1	0.85 (0.67,1.08)	0.81 (0.62,1.07)	0.099
Model 2 [‡#]	1	0.89 (0.70,1.13)	0.86 (0.65,1.13)	0.221
Model 3 [§#]	1	0.96 (0.75,1.21)	0.96 (0.73,1.28)	0.736

Table S2. Race-specific multivariable adjusted hazard ratios and 95% confidence intervals for physical activity and ischemic stroke subtypes.

	Poor Physical Activity	Intermediate Physical Activity	Ideal Physical Activity	P for trend
African-Americans				
Lacunar stroke				
No. of cases	67	6	8	
Model 1 *§	1	0.50 (0.21,1.16)	0.78 (0.37,1.64)	0.235
Model 2 †§	1	0.57 (0.25,1.34)	0.93 (0.44,1.96)	0.512
Model 3 ‡§	1	0.57 (0.25,1.34)	1.04 (0.49,2.21)	0.667
Cardioembolic stroke				
No. of cases	47	7	2	
Model 1 *§	1	0.95 (0.43,2.13)	0.32 (0.08,1.31)	0.137
Model 2 †§	1	1.07 (0.48,2.41)	0.36 (0.09,1.50)	0.234
Model 3 ‡§	1	1.11 (0.49,2.51)	0.36 (0.09,1.49)	0.242
Nonlacunar stroke				
No. of cases	109	18	4	
Model 1 *§	1	0.86 (0.51,1.42)	0.24 (0.09,0.65)	0.005
Model 2 †§	1	0.94 (0.57,1.57)	0.27 (0.10,0.73)	0.014
Model 3 ‡§	1	1.02 (0.61,1.71)	0.30 (0.11,0.81)	0.037
Caucasians				
Lacunar stroke				
No. of cases	34	18	11	
Model 1 *§	1	0.86 (0.48,1.53)	0.71 (0.36,1.42)	0.320
Model 2 †§	1	0.92 (0.52,1.64)	0.79 (0.39,1.58)	0.506
Model 3 ‡§	1	1.03 (0.57,1.84)	0.97 (0.48,1.97)	0.969
Cardioembolic stroke				
No. of cases	53	23	18	
Model 1 *§	1	0.75 (0.46,1.22)	0.84 (0.49,1.44)	0.378
Model 2 †§	1	0.77 (0.47,1.26)	0.88 (0.51,1.51)	0.480
Model 3 ‡§	1	0.83 (0.51,1.37)	0.96 (0.55,1.68)	0.758
Nonlacunar stroke				
No. of cases	120	63	40	
Model 1 *§	1	0.90 (0.66,1.22)	0.83 (0.58,1.19)	0.272
Model 2 †§	1	0.93 (0.68,1.26)	0.86 (0.60,1.24)	0.406
Model 3 ‡§	1	0.99 (0.73,1.35)	0.94 (0.65,1.37)	0.779

[*] Adjusted for age, sex and race-center.

[†] Adjusted for age, sex, race-center, cigarette-years and education.

[‡] Adjusted for age, sex, race-field center, cigarette-years, educational level, waist-to-hip ratio, systolic blood pressure, antihypertensive medication use, diabetes, left ventricular hypertrophy, HDL cholesterol, LDL cholesterol, lipoprotein(a),fibrinogen, van Willebrand Factor and white blood cell count.

[§] Not adjusted for race.

Table S3. Multivariate adjusted Hazard ratios and 95% confidence intervals for quartiles* of physical activity and total and ischemic stroke

	Sport Score					Leisure Score				
	Q1	Q2	Q3	Q4	P for trend	Q1	Q2	Q3	Q4	P for trend
Total stroke										
No. of cases	247	173	197	123		304	122	200	114	
Person-years	62,091.9	52,870.8	64,135.0	46,473.1		74,553.7	38,938.4	69,255.0	42,823.6	
Incidence rate[†]	3.98 (3.51,4.51)	3.27 (2.82,3.80)	3.07 (2.67,3.53)	2.65 (2.22,3.16)		4.08 (3.64,4.56)	3.13 (2.62,3.74)	2.89 (2.51,3.32)	2.66 (2.22,3.20)	
Model 1[‡]	1	0.81 (0.67,0.99)	0.84 (0.70,1.02)	0.76 (0.61,0.96)	0.021	1	0.94 (0.76,1.17)	0.90 (0.75,1.08)	0.86 (0.69,1.07)	0.134
Model 2[§]	1	0.81 (0.67,0.98)	0.89 (0.73,1.08)	0.82 (0.66,1.03)	0.117	1	0.99 (0.80,1.23)	0.95 (0.79,1.14)	0.93 (0.75,1.17)	0.479
Model 3[#]	1	0.85 (0.70,1.04)	0.93 (0.77,1.13)	0.93 (0.74,1.17)	0.540	1	1.02 (0.82,1.26)	1.00 (0.83,1.21)	1.04 (0.83,1.31)	0.789
Total ischemic stroke										
No. of cases	211	155	167	115		267	107	171	103	
Person-years	62,263.8	52,961.2	64,244.3	46,521.5		74,736.3	39,012.2	69,375.2	42,867.1	
Incidence rate[†]	3.39 (2.96,3.88)	2.93 (2.50,3.43)	2.60 (2.23,3.03)	2.47 (2.06,2.97)		3.57 (3.17,4.03)	2.74 (2.27,3.31)	2.46 (2.12,2.86)	2.40 (1.98,2.91)	
Model 1[‡]	1	0.85 (0.69,1.04)	0.83 (0.67,1.02)	0.82 (0.65,1.04)	0.065	1	0.93 (0.74,1.17)	0.87 (0.71,1.06)	0.88 (0.69,1.11)	0.152
Model 2[§]	1	0.85 (0.69,1.04)	0.87 (0.71,1.07)	0.89 (0.70,1.12)	0.261	1	0.99 (0.78,1.24)	0.92 (0.75,1.12)	0.95 (0.75,1.21)	0.483
Model 3[#]	1	0.89 (0.72,1.10)	0.91 (0.74,1.12)	1.01 (0.79,1.28)	0.848	1	1.01 (0.80,1.27)	0.97 (0.80,1.19)	1.07 (0.85,1.36)	0.762

Table S4. Multivariate adjusted Hazard ratios and 95% confidence intervals for quartiles* of physical activity and ischemic stroke subtypes

| | Sports | | | | | Leisure | | | | |
	Q1	Q2	Q3	Q4	P for trend	Q1	Q2	Q3	Q4	P for trend
Lacunar stroke										
No. of cases	42	41	41	20		70	25	30	19	
Model 1[†]	1	1.19 (0.77,1.83)	1.19 (0.76,1.84)	0.88 (0.51,1.53)	0.904	1	0.95 (0.60,1.52)	0.69 (0.44,1.07)	0.74 (0.44,1.25)	0.010
Model 2[‡]	1	1.17 (0.76,1.80)	1.28 (0.83,2.00)	1.00 (0.57,1.73)	0.672	1	1.03 (0.65,1.65)	0.75 (0.48,1.17)	0.83 (0.49,1.41)	0.254
Model 3[§]	1	1.21 (0.79,1.87)	1.33 (0.86,2.08)	1.16 (0.66,2.02)	0.365	1	1.04 (0.65,1.67)	0.78 (0.50,1.22)	0.93 (0.55,1.59)	0.452
Cardioembolic stroke										
No. of cases	47	41	33	29		60	29	37	24	
Model 1[†]	1	0.99 (0.65,1.51)	0.73 (0.46,1.14)	0.92 (0.57,1.48)	0.395	1	1.09 (0.69,1.72)	0.79 (0.52,1.21)	0.85 (0.52,1.39)	0.294
Model 2[‡]	1	0.99 (0.65,1.50)	0.76 (0.48,1.20)	0.98 (0.60,1.59)	0.594	1	1.14 (0.73,1.80)	0.83 (0.54,1.27)	0.92 (0.56,1.51)	0.478
Model 3[§]	1	1.04 (0.68,1.58)	0.78 (0.49,1.23)	1.11 (0.68,1.81)	0.882	1	1.16 (0.73,1.83)	0.86 (0.56,1.32)	1.05 (0.64,1.73)	0.789
Nonlacunar stroke										
No. of cases	122	73	93	66		137	53	104	60	
Model 1[†]	1	0.68 (0.51,0.91)	0.75 (0.57,0.99)	0.75 (0.55,1.02)	0.060	1	0.87 (0.63,1.20)	0.98 (0.75,1.28)	0.95 (0.69,1.30)	0.822
Model 2[‡]	1	0.69 (0.51,0.92)	0.79 (0.60,1.04)	0.80 (0.59,1.09)	0.151	1	0.91 (0.66,1.26)	1.03 (0.79,1.34)	1.02 (0.74,1.40)	0.792
Model 3[§]	1	0.72 (0.53,0.96)	0.82 (0.62,1.08)	0.91 (0.66,1.24)	0.458	1	0.93 (0.68,1.29)	1.10 (0.84,1.43)	1.14 (0.83,1.57)	0.325

* Cut-points for the approximated quartiles were 1.75/2.25/3.0 for the sport score and 2.0/2.25/2.75 for the leisure score.

† Adjusted for age, sex and race-center.

‡ Adjusted for age, sex, race-center, cigarette-years and education

§ Adjusted for age, sex, race-field center, cigarette-years, educational level, waist-to-hip ratio, systolic blood pressure, antihypertensive medication use, diabetes, left ventricular hypertrophy, HDL cholesterol, LDL cholesterol, lipoprotein(a),fibrinogen, van Willebrand Factor and white blood cell count.