

Supplementary data

Table S1. Association of urban green space coverage with the risk of CVD incidence and CVD mortality in a sensitivity analysis including various exposure data

	Urban green space coverage				<i>P</i> for trend
	First quartile (low)	Second quartile	Third quartile	Fourth quartile (high)	
2011					
<i>Number of people</i>	20 769	21 057	21 741	21 172	
<i>Cardiovascular disease</i>					
Events	1311	1036	990	1002	
aHR ^a	1.00 (Reference)	0.83 (0.77-0.90)	0.76 (0.70-0.83)	0.85 (0.79-0.93)	< .001
aHR ^b	1.00 (Reference)	0.83 (0.76-0.90)	0.76 (0.70-0.82)	0.84 (0.77-0.91)	< .001
<i>CVD mortality</i>					
Events	135	77	115	75	
aHR ^a	1.00 (Reference)	0.63 (0.48-0.84)	0.90 (0.70-1.15)	0.67 (0.50-0.89)	.041
aHR ^b	1.00 (Reference)	0.63 (0.47-0.83)	0.89 (0.69-1.14)	0.66 (0.50-0.88)	.033
2010-2011					
<i>Number of people</i>	20 927	20 714	20 641	20 687	
<i>Cardiovascular disease</i>					
Events	1307	1039	930	973	
aHR ^a	1.00 (Reference)	0.82 (0.76-0.89)	0.75 (0.69-0.82)	0.83 (0.77-0.91)	< .001
aHR ^b	1.00 (Reference)	0.83 (0.77-0.90)	0.75 (0.69-0.81)	0.83 (0.77-0.91)	< .001
<i>CVD mortality</i>					
Events	128	93	99	71	
aHR ^a	1.00 (Reference)	0.77 (0.59-1.01)	0.84 (0.65-1.10)	0.66 (0.49-0.88)	.012
aHR ^b	1.00 (Reference)	0.78 (0.60-1.02)	0.84 (0.65-1.10)	0.67 (0.50-0.90)	.014

CVD, cardiovascular disease; N, number of people; aHR, adjusted hazard ratio; CI, confidence interval.

Counts are presented as number. Hazard ratios are shown as aHR with 95% confidence intervals.

Urban green space coverage was defined as the area of parks and artificially designed green space divided by the area of residential districts.

Adjusted hazard ratio calculated by Cox proportional hazards regression analysis.

^aModel 1 adjusted for age, sex, household income and Charlson comorbidity index.

^bModel 2 adjusted for age, sex, household income, Charlson comorbidity index, body mass index, systolic blood pressure, triglycerides, low-density lipoprotein cholesterol, fasting serum glucose, smoking status, physical activity, and alcohol consumption.

Table S2. Descriptive characteristics of physical activity by sex

Urban green space coverage	Men				Women			
	First quartile (low)	Second quartile	Third quartile	Fourth quartile (high)	First quartile (low)	Second quartile	Third quartile	Fourth quartile (high)
Number of people	8871	9552	8497	9966	9277	10 181	9198	9383
<i>Physical activity, times per week</i>								
None	3641 (41.04)	3871 (40.53)	3410 (40.13)	3799 (38.12)	4816 (51.91)	5353 (52.58)	4945 (53.76)	4833 (51.51)
1-2	1800 (20.29)	2080 (21.78)	1868 (21.98)	2192 (21.99)	1476 (15.91)	1676 (16.46)	1573 (17.10)	1590 (16.95)
3-4	1348 (15.20)	1472 (15.41)	1330 (15.65)	1663 (16.69)	1156 (12.46)	1343 (13.19)	1073 (11.67)	1223 (13.03)
5-6	958 (10.80)	979 (10.25)	914 (10.76)	1071 (10.75)	810 (8.73)	895 (8.79)	820 (8.91)	795 (8.47)
7	1124 (12.67)	1150 (12.04)	975 (11.47)	1241 (12.45)	1019 (10.98)	914 (8.98)	787 (8.56)	942 (10.04)

The data are presented as No. (%).

Urban green space coverage was defined as the area of parks and artificially designed green space divided by the area of residential districts.

Table S3. Association between urban green space coverage and the risk of CVD mortality according to physical activity in women.

aHR (95% CI)	N	Event	Urban green space coverage				P for trend
			First quartile (low)	Second quartile	Third quartile	Fourth quartile (high)	
CVD Mortality							
Women							
Physical activity							
No	19,947	110	1.00 (Reference)	0.92 (0.53-1.62)	1.11 (0.64-1.94)	1.57 (0.93-2.66)	0.061
Yes	18,092	56	1.00 (Reference)	0.79 (0.40-1.53)	0.82 (0.41-1.64)	0.41 (0.17-0.98)	0.063

Urban green space coverage was defined as the area of parks and artificially designed green space divided by the area of residential districts.

Hazard ratio calculated by Cox proportional hazards regression analysis after adjustments for age, sex, household income, Charlson comorbidity index, body mass index, systolic blood pressure, triglyceride, low-density lipoprotein cholesterol, fasting serum glucose, smoking status, and alcohol consumption.

Acronyms: N, number of people; aHR, adjusted hazard ratio; CI, confidence interval; CCI, Charlson comorbidity index; BMI; body mass index; SBP, systolic blood pressure; LDL, low density lipoprotein; FSG, fasting serum glucose.