

S1 Table. Adjusted hazard ratios for incident cardiovascular disease by quarters of average accelerometer-measured total volume (mg), moderate, and vigorous physical activity after removal of incident CVD occurring within one and two years of follow-up

Total volume (mg)	≤22.67	22.68 – 27.28	27.29-32.71	>32.71
Model 1				
Incident CVD, n (%)	1,151 (5.2)	763 (3.4)	625 (2.8)	471 (2.1)
No CVD, n (%)	21,181 (94.9)	21,635 (96.6)	21,774 (97.3)	22,001 (97.9)
Hazard ratio (95% CI)	1.00 (Ref.)	0.73 (0.68, 0.78)	0.64 (0.59, 0.69)	0.50 (0.46, 0.54)
Model 2				
Incident CVD, n (%)	897 (4.1)	579 (2.6)	509 (2.3)	388 (1.7)
No CVD, n (%)	21,161 (95.9)	21,626 (97.4)	21,770 (97.8)	21,996 (98.3)
Hazard ratio (95% CI)	1.00 (Ref.)	0.67 (0.60, 0.74)	0.60 (0.53, 0.67)	0.46 (0.40, 0.52)
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Moderate intensity physical activity (minutes/week)	≤524.16	524.17-705.60	705.61-927.36	>927.36
Model 1				
Incident CVD, n (%)	1,146 (5.3)	804 (3.5)	620 (2.7)	440 (2.0)
No CVD, n (%)	20,607 (94.7)	22,442 (96.5)	22,239 (97.3)	21,203 (98.0)
Hazard ratio (95% CI)	1.00 (Ref.)	0.72 (0.67, 0.78)	0.60 (0.56, 0.65)	0.47 (0.43, 0.52)
Model 2				
Incident CVD, n (%)	895 (4.2)	619 (2.7)	499 (2.2)	360 (1.7)
No CVD, n (%)	20,590 (95.8)	22,429 (97.3)	22,235 (97.8)	21,299 (98.3)
Hazard ratio (95% CI)	1.00 (Ref.)	0.66 (0.60, 0.73)	0.55 (0.50, 0.62)	0.43 (0.38, 0.48)
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Vigorous intensity physical activity (minutes/week)	≤10.08	10.09-20.16	20.17 -40.32	>40.32
Model 1				
Incident CVD, n (%)	685 (5.3)	968 (3.9)	773 (2.9)	584 (2.3)
No CVD, n (%)	12,295 (94.7)	23,940 (96.1)	25,428 (97.1)	24,928 (97.7)
Hazard ratio (95% CI)	1.00 (Ref.)	0.75 (0.69, 0.81)	0.55 (0.51, 0.60)	0.45 (0.41, 0.49)
Model 2				
Incident CVD, n (%)	540 (4.2)	739 (3.0)	617 (2.4)	477 (1.9)
No CVD, n (%)	12,282 (95.8)	23,925 (97.0)	25,421 (97.6)	24,925 (98.1)
Hazard ratio (95% CI)	1.00 (Ref.)	0.65 (0.59, 0.73)	0.49 (0.43, 0.55)	0.38 (0.34, 0.43)

Note: Abbreviations: CVD =cardiovascular disease.

All models adjusted for age, sex, ethnicity, education, Townsend Deprivation Index, smoking, and alcohol consumption

Model 1: After removal of CVD cases within first year of follow-up (Sample size: CVD= 3,010 and non-CVD=86,591)

Model 2: After removal of CVD cases within first two years of follow-up (Sample size: CVD=2,373 and non-CVD=88,926)