

**Table S1: The association of physical activity and social network in relation to cognitive function at follow-up: Model 3 with all control variables shown**

VARIABLES		R <sup>2</sup>
Baseline measures		
Cognition		0.44 <sup>***</sup>
Moderate physical activity		0.02 <sup>*</sup>
High physical activity		0.03 <sup>***</sup>
Social network size		0.03 <sup>***</sup>
Age		-0.17 <sup>***</sup>
Gender <sup>a</sup>		0.03 <sup>***</sup>
Marital status <sup>a</sup>		-0.01
Education level <sup>a</sup>	Secondary	0.04 <sup>***</sup>
	Post secondary	0.09 <sup>***</sup>
Financial adequacy <sup>a</sup>	With some difficulty	0.02 <sup>*</sup>
	Fairly easily	0.04 <sup>**</sup>
	Easily	0.04 <sup>***</sup>
Chronic diseases		0.02 <sup>**</sup>
ADL		0.01
IADL limitations		-0.09 <sup>***</sup>
Perceived health		0.05 <sup>***</sup>
Country <sup>a</sup>	Germany	0.01
	Sweden	0.01
	Spain	-0.05 <sup>**</sup>
	Italy	-0.06 <sup>***</sup>
	France	-0.04 <sup>***</sup>
	Denmark	0.01
	Switzerland	0.01
	Belgium	-0.02 <sup>*</sup>
	Czech Republic	0.05 <sup>***</sup>
	Poland	-0.03 <sup>***</sup>
	Portugal	-0.07
	Slovenia	-0.02 <sup>**</sup>
	Estonia	-0.04 <sup>***</sup>
Observations		16,496
R-squared		0.443

a Reference categories: gender (male); marital status (not married or partnered); education level (primary education or less); financial adequacy (with great difficulty), country (Austria) .