Supplementary Online Content

Desai P, Dhana K, DeCarli C, et al. Examination of neurofilament light chain serum concentrations, physical activity, and cognitive decline in older adults. *JAMA Netw Open*. 2022;5(3):e223596. doi:10.1001/jamanetworkopen.2022.3596

eTable. Association of PA With the Rate of Decline in Individual Tests of Cognition, Stratified by Concentration of NfL

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable. Association of PA with the Rate of Decline in Individual Tests of Cognition, Stratified by Concentration of NfL

Episodic Memory					
	Estimate (95% CI)		Difference (95% CI)		% Difference
Low NfL					
Low PA	-0.02	(-0.047, 0.007)	Ref		Ref
Medium PA	-0.007	(-0.03, 0.016)	0.013	(-0.012, 0.038)	65%
High PA	-0.013	(-0.035, 0.009)	0.007	(-0.018, 0.033)	35%
High NfL					
Low PA	-0.044	(-0.083, -0.005)	Ref		Ref
Medium PA	-0.046	(-0.085, -0.008)	-0.002	(-0.036, 0.031)	5%
High PA	-0.005	(-0.042, 0.032)	0.039	(0.004, 0.074)	89%
Perceptual Speed					
	Estimate (95% CI)		Difference (95% CI)		% Difference
Low NfL					
Low PA	-0.073	(-0.097, -0.049)	Ref		Ref
Medium PA	-0.049	(-0.07, -0.029)	0.024	(0.002, 0.045)	33%
High PA	-0.051	(-0.07, -0.032)	0.022	(0, 0.044)	30%
High NfL					
Low PA	-0.091	(-0.121, -0.06)	Ref		Ref
Medium PA	-0.074	(-0.104, -0.044)	0.017	(-0.009, 0.043)	19%
High PA	-0.064	(-0.093, -0.035)	0.027	(-0.001, 0.054)	30%
MMSE					
	E	Estimate (95% CI)	Dit	fference (95% CI)	% Difference
Low NfL					
Low PA	-0.055	(-0.078, -0.031)	Ref		Ref
Medium PA	-0.028	(-0.048, -0.007)	0.027	(0.005, 0.048)	49%
High PA	-0.034	(-0.054, -0.015)	0.02	(-0.002, 0.042)	36%
High NfL					
Low PA	-0.108	(-0.151, -0.064)	Ref		Ref
Medium PA	-0.081	(-0.125, -0.038)	0.026	(-0.009, 0.062)	24%
High PA	-0.093	(-0.135, -0.051)	0.015	(-0.023, 0.053)	14%

*PA: Low activity (responded to at least four items and reported no activity for all responses), Medium activity (< 150 mins/ wk), High activity ($\geq 150 \text{ mins/ wk}$)

Serum NfL: Low ($\leq 25.5 \text{ pg/mL}$), High (> 25.5 pg/mL)

All models adjusted for age, race, sex, education, chronic conditions, and APOE-ε4 allele.