

Additional File 4. Associations between absolute movement behaviors and cognitive/social-emotional health outcomes with linear regression models.

	Sedentary time	Light PA	MVPA	24-hr sleep
Outcomes	Coef. (95% CI)	Coef. (95% CI)	Coef. (95% CI)	Coef. (95% CI)
Vocabulary	-.27 (-.55 to .02)	.71* (.25 to 1.18)	.07 (-.40 to .54)	-.01 (-.08 to .05)
Internalizing behavior	-.01 (-.09 to .06)	.02 (-.11 to .14)	.02 (-.11 to .14)	-.002 (-.02 to .01)
Externalizing behavior	-.02 (-.12 to .08)	.0009 (-.16 to .17)	.04 (-.12 to .21)	.005 (-.02 to .03)
Surgency	.003 (-.008 to .013)	-.01 (-.03 to .006)	.004 (-.01 to .02)	-.0004 (.002 to .002)
Negative affectivity	-.0009 (-.01 to .01)	.00005 (-.02 to .02)	.003 (-.02 to .02)	.0002 (-.0008 to .001)
Effortful control	.0003 (-.01 to .01)	.003 (-.01 to .02)	-.004 (-.02 to .01)	-.002 (-.003 to .0004)
Visuospatial memory	-.08 (-.62 to .46)	-.32 (-1.2 to .60)	.54 (-.36 to 1.42)	-.13* (-.24 to -.02)
Executive attention	-.16 (-.52 to .19)	.32 (-.32 to .95)	.14 (-.41 to .68)	.03 (-.05 to .11)
Procedural memory	-.0001 (-.001 to .002)	.0005 (-.002 to .003)	-.0004 (-.003 to .06)	.0003* (.00002 to .00006)

* $p < .05$ (Coef = regression coefficient; CI = confidence interval; PA = physical activity; MVPA = moderate to vigorous intensity physical activity) Note: All models were adjusted for age and sex. Models for vocabulary were also adjusted for grid size and timing.