

Supplementary Material

Article Title: Mental Health and Extracurricular Education in Korean First Graders: A School-Based Cross-Sectional Study

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eTable 1. Multiple regression analyses associating scores on the BASC-2 hyperactivity subscale with tutoring and putative protective factors

Unadjusted				Adjus	Adjusted for family Adjusted for play				lay	Adjusted for play			
Variables				time			time ar	nd family	time	time, family time, and			
										time a	sleep		
	\mathbb{R}^2	beta	p	R^2	beta	p	\mathbb{R}^2	beta	p	R ²	beta	p	
	0.029			0.027			0.026			0.027			
Sex													
Female		-0.109	0.009		-0.109	0.010		-0.108	0.010		-0.111	0.009	
Family structure													
^a Single or other		-0.085	0.045		-0.085	0.045		-0.085	0.046		-0.088	0.039	
Educational													
level of parents													
^b One parent		-0.019	0.655		-0.019	0.658		-0.021	0.632		-0.022	0.611	
^c Neither		-0.046	0.299		-0.046	0.301		-0.048	0.279		-0.052	0.237	
Job status of													
father													
^d Temporary or		0.021	0.631		0.020	0.636		0.019	0.650		0.019	0.656	
unemployed													
Dual income		-0.105	0.013		-0.104	0.014		-0.114	0.015		-0.120	0.011	
Time in tutoring		0.089	0.035		0.090	0.035		0.087	0.042		0.083	0.056	
Play time					0.008	0.845		0.009	0.835		0.007	0.871	
Family time								-0.024	0.613		-0.029	0.544	
Time asleep											-0.054	0.201	

^a Single or other; living with single parents and others ^bOne parent; one parent college-educated ^cNeither; neither parent college-educated ^dTemporary or no; temporary or no job, Time in tutoring; time spent in extracurricular education per day (minutes), Play time: time spent with friend per day(minutes); Family time: time spent with parents per day (minutes), Time asleep per day(minutes)

eTable 2. Multiple regression analyses associating scores on the BASC-2 aggression subscale with tutoring and putative protective factors

Unadjusted			Adjusted for family			Adjusted for play			Adjusted for play			
Variables				time			time an	d family	time	time,	family ti	me, and
										time a	sleep	
	R^2	beta	p	R ²	beta	p	\mathbb{R}^2	beta	p	\mathbb{R}^2	beta	p
	0.013			0.012			0.011			0.009		
Sex												
Female		-0.081	0.055		-0.079	0.061		-0.079	0.063		-0.080	0.063
Family structure												
^a Single or other		-0.039	0.358		-0.039	0.354		-0.039	0.360		-0.040	0.350
Educational												
level of parents												
^b One parent		-0.065	0.136		-0.086	0.053		-0.067	0.127		-0.040	0.350
^c Neither		-0.086	0.052		-0.086	0.053		-0.089	0.046		-0.090	0.044
Job status of												
father												
^d Temporary or		0.009	0.843		0.008	0.856		0.007	0.875		0.007	0.877
unemployed												
Dual income		-0.061	0.150		-0.059	0.168		-0.072	0.126		-0.074	0.120
Time in tutoring		0.070	0.100		0.073	0.089		0.069	0.109		0.068	0.118
Play time					0.022	0.613		0.022	0.602		0.022	0.611
Family time								-0.032	0.507		-0.033	0.490
Time asleep											-0.017	0.693

^a Single or other; living with single parents and others ^bOne parent; one parent college-educated ^cNeither; neither parent college-educated ^dTemporary or no; temporary or no job, Time in tutoring; time spent in extracurricular education per day (minutes), Play time: time spent with friend per day(minutes); Family time: time spent with parents per day (minutes), Time asleep per day(minutes)

eTable 3. Multiple regression analyses associating scores on the BASC-2 conduct problem subscale with tutoring and putative protective factors

Unadjusted				Adjusted for family			Adjusted for play			Adjusted for play			
Variables				time			time an	d family	time	time,	family ti	me, and	
										time a	sleep		
	R^2	beta	p	\mathbb{R}^2	beta	p	\mathbb{R}^2	beta	p	\mathbb{R}^2	beta	p	
	0.016			0.027			0.027			0.034			
Sex													
Female		-0.115	0.007		-0.106	0.012		-0.105	0.013		-0.110	0.009	
Family structure													
^a Single or other		-0.052	0.218		-0.055	0.196		-0.054	0.203		-0.059	0.162	
Educational													
level of parents													
^b One parent		0.038	0.380		0.040	0.349		0.037	0.390		0.035	0.419	
^c Neither		0.061	0.171		0.062	0.157		0.069	0.194		0.050	0.262	
Job status of													
father													
^d Temporary or		-0.030	0.491		-0.033	0.437		-0.035	0.416		-0.036	0.405	
unemployed													
Dual income		-0.037	0.379		-0.025	0.552		-0.045	0.334		-0.056	0.237	
Time in tutoring		0.086	0.053		0.102	0.017		0.097	0.024		0.089	0.038	
Play time					0.114	0.008		0.115	0.007		0.111	0.009	
Family time								-0.047	0.322		-0.055	0.243	
Time asleep											-0.093	0.028	

^a Single or other; living with single parents and others ^bOne parent; one parent college-educated ^cNeither; neither parent college-educated ^dTemporary or no; temporary or no job, Time in tutoring; time spent in extracurricular education per day (minutes), Play time: time spent with friend per day(minutes); Family time: time spent with parents per day (minutes), Time asleep per day(minutes)

eTable 4. Multiple regression analyses associating scores on the BASC-2 depression subscale with tutoring and putative protective factors

Unadjusted			Adjusted for family			Adjusted for play			Adjusted for play			
Variables				time			time an	d family	time	time,	family ti	me, and
										time a	sleep	
	R^2	beta	p	R ²	beta	p	R ²	beta	p	\mathbb{R}^2	beta	p
	0.026			0.025			0.023			0.022		
Sex												
Female		0.094	0.025		0.093	0.027		0.093	0.027		0.092	0.029
Family structure												
^a Single or other		-0.070	0.099		-0.069	0.101		-0.069	0.101		-0.070	0.098
Educational												
level of parents												
^b One parent		-0.004	0.922		-0.005	0.915		-0.006	0.893		-0.006	0.887
^c Neither		0.008	0.864		0.007	0.869		0.006	0.901		0.004	0.923
Job status of												
father												
^d Temporary or		0.027	0.521		0.028	0.513		0.027	0.522		0.027	0.524
unemployed												
Dual income		-0.053	0.206		-0.063	0.183		-0.063	0.183		-0.064	0.524
Time in tutoring		0.149	0.000		0.147	0.001		0.145	0.001		0.144	0.001
Play time					-0.018	0.673		-0.018	0.710		-0.018	0.671
Family time								-0.018	0.710		-0.019	0.690
Time asleep											-0.015	0.729

^a Single or other; living with single parents and others ^bOne parent; one parent college-educated ^cNeither; neither parent college-educated ^dTemporary or no; temporary or no job, Time in tutoring; time spent in extracurricular education per day (minutes), Play time: time spent with friend per day(minutes); Family time: time spent with parents per day (minutes), Time asleep per day(minutes)