

Table 6 Liner Regression Analysis with Compositional Data for zBFP of the Time Spent in Physical Activity, Sedentary Behavior and Sleep

Category	Model	β	<i>P</i>	SE	Model <i>P</i> -value	Model R ²
Overall	ilr ₁ -MVPA/(SP*SB*LPA)	-0.114	<0.05*	0.049	<0.01**	0.228
	ilr ₁ -LPA/(MVPA*SP*SB)	-0.382	<0.01**	0.087		
	ilr ₁ -SB/(LPA*MVPA*SP)	0.681	<0.01**	0.083		
	ilr ₁ -SP/(SB*MVPA*LPA)	0.158	0.123	0.101		
Non-overweight/Non-obese	ilr ₁ -MVPA/(SP*SB*LPA)	-0.064	0.173	0.047	<0.01**	0.271
	ilr ₁ -LPA/(MVPA*SP*SB)	-0.177	<0.05*	0.084		
	ilr ₁ -SB/(LPA*MVPA*SP)	0.322	<0.01**	0.079		
	ilr ₁ -SP/(SB*MVPA*LPA)	0.082	0.378	0.093		
Overweight	ilr ₁ -MVPA/(SP*SB*LPA)	-0.239	<0.01*	0.071	<0.01**	0.443
	ilr ₁ -LPA/(MVPA*SP*SB)	-0.181	0.208	0.142		
	ilr ₁ -SB/(LPA*MVPA*SP)	0.612	<0.01*	0.149		
	ilr ₁ -SP/(SB*MVPA*LPA)	0.446	<0.05*	0.191		
Obese	ilr ₁ -MVPA/(SP*SB*LPA)	-0.061	0.611	0.120	<0.01**	0.519
	ilr ₁ -LPA/(MVPA*SP*SB)	-0.768	<0.01**	0.185		
	ilr ₁ -SB/(LPA*MVPA*SP)	1.194	<0.01**	0.170		
	ilr ₁ -SP/(SB*MVPA*LPA)	0.408	0.100	0.244		
Boys	ilr ₁ -MVPA/(SP*SB*LPA)	-0.155	<0.05*	0.077	<0.01**	0.143
	ilr ₁ -LPA/(MVPA*SP*SB)	-0.394	<0.01**	0.136		
	ilr ₁ -SB/(LPA*MVPA*SP)	0.734	<0.01**	0.122		
	ilr ₁ -SP/(SB*MVPA*LPA)	0.238	0.135	0.159		
Girls	ilr ₁ -MVPA/(SP*SB*LPA)	-0.057	0.33	0.059	<0.01**	0.161
	ilr ₁ -LPA/(MVPA*SP*SB)	-0.398	<0.01**	0.109		
	ilr ₁ -SB/(LPA*MVPA*SP)	0.636	<0.01**	0.109		
	ilr ₁ -SP/(SB*MVPA*LPA)	0.080	0.653	0.122		

Note: The β value refers to the strength of the association between the change in a given behavior relative to other behaviors and zBFP. For example, ilr₁-MVPA/(SP*SB*LPA) refers to the strength of the association between zBFP and the time spent in moderate-to-vigorous physical activity (MVPA) as the first coordinate, relative to the time spent in sleep (SP), sedentary behavior (SB), and light physical activity (LPA). SE refers to the standard deviation. All models have been adjusted for factors such as toddler gender, age, and urban or rural areas.