Appendix
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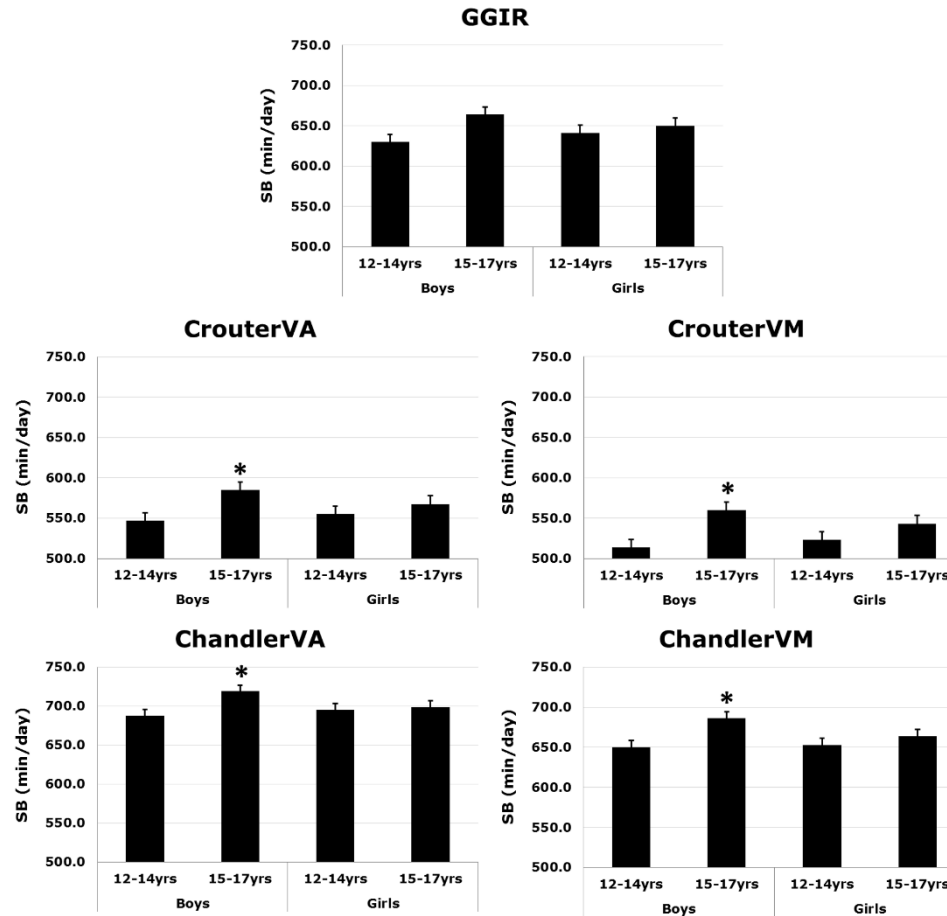
Appendix Table 1. Cutpoints of GGIR, Crouter, and Chandler Methods for Classifying Different Intensity Categories

Cutpoints	GGIR (mg)	CrouterVA	CrouterVM	ChandlerVA	ChandlerVM
Sedentary behavior	mg $\leq$ 32.9	Counts/5s $\leq$ 35	VM/5s $\leq$ 100	Counts/5s $\leq$ 161	VM/5s $\leq$ 305
Light	32.9 < mg $\leq$ 370	35 < Counts/5s $\leq$ 360	100 < VM /5s $\leq$ 609	162 $\leq$ Counts/5s $\leq$ 529	306 $\leq$ VM /5s $\leq$ 817
Moderate	370 < mg $\leq$ 707.0	360< Counts/5s$\leq$1129	609 < VM /5s $\leq$ 1809	530 $\leq$ Counts/5s $\leq$ 1461	818 $\leq$ VM /5s $\leq$ 1968
Vigorous	mg > 707.0	Counts/5s > 1129	VM /5s > 1809	Counts/5s $\geq$ 1462	VM /5s $\geq$ 1969

ChandlerVA, Chandler method using vertical axis counts; ChandlerVM, Chandler method using vector magnitudes; CrouterVA, Crouter method using vertical axis counts; CrouterVM, Crouter method using vector magnitude; VM, Vector magnitude

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Appendix Figure 1. Comparisons of five different processing techniques for sedentary behavior (SB) by gender and age groups.
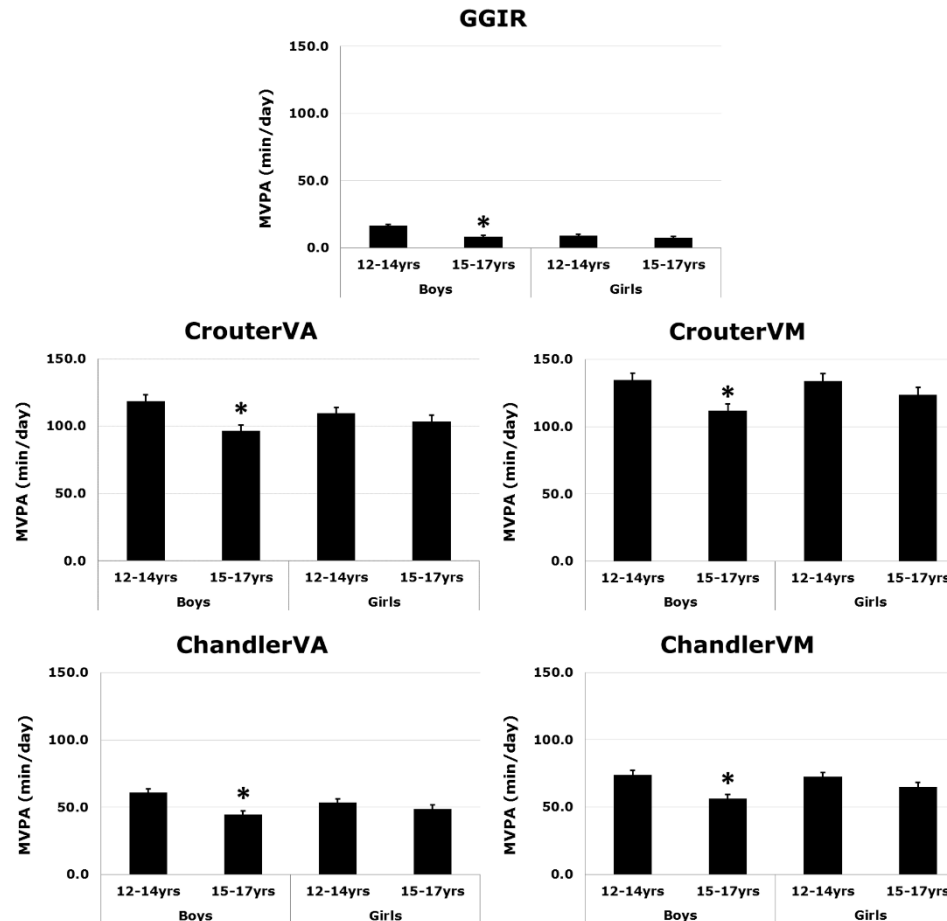

Note: An asterisk (*) indicates significant differences between younger (12-14 years) and older (15-17 years) boys.

ChandlerVA, Chandler method using vertical axis counts; ChandlerVM, Chandler method using vector magnitudes; CrouterVA, Crouter method using vertical axis counts; CrouterVM, Crouter method using vector magnitudes

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Appendix Figure 2. Comparisons of five different processing techniques for moderate-to-vigorous physical activity (MVPA) time by gender and age groups.

Note: An asterisk (*) indicates significant differences between younger (12-14 years) and older (15-17 years) boys.

ChandlerVA, Chandler method using vertical axis counts; ChandlerVM, Chandler method using vector magnitudes; CrouterVA, Crouter method using vertical axis counts; CrouterVM, Crouter method using vector magnitudes