Supplementary Table 1: Comparison of anthropometry and body composition by age group

	10-14 years old			15-18 years old		
	Development (n=76)	Validation (n=66)	p value	Development (n=17)	Validation (n=27)	p value
Weight (kg)	38.4±7.62	38.0±8.60	0.738	49.3±9.70	50.9±8.00	0.561
Height (cm)	147.2±8.35	146.1±10.17	0.494	156.8±7.86	157.9±6.01	0.614
BMI (kg/m2)	17.6±2.01	17.5±2.21	0.983	19.9±3.35	20.3±2.51	0.692
BMI-for-age z-score	-0.68±0.96	-0.61±1.05	0.677	-0.58±1.19	-0.36±1.07	0.530
BIA						
TBW	24.4±5.10	23.7±5.34	0.418	29.6±6.29	29.3±6.05	0.845
FFM	31.3±7.08	30.2±0.79	0.350	37.5±8.84	39.4±7.69	0.458
%BF	17.4±5.56	18.7±6.08	0.190	18.9±7.54	20.5±7.60	0.499
DDM						
TBW	23.8±4.31	23.5±5.26	0.699	30.5±5.17	30.5±5.33	0.978
FFM	31.5±5.75	31.1±7.02	0.699	40.8±7.03	40.7±7.21	0.971
%BF	7.1±4.11	6.8±3.90	0.615	16.6±7.94	20.2±8.49	0.171

Supplementary Table 2: Comparison of anthropometry and body composition by sex

	Female			Male		
	Development (n=54)	Validation (n=53)	p value	Development (n=39)	Validation (n=40)	p value
Weight (kg)	40.6±9.15	42.5±9.99	0.308	40.1±8.96	40.6±10.61	0.813
Height (cm)	148.3±7.66	149.4±9.48	0.497	149.9±10.70	149.7±12.05	0.949
BMI (kg/m2)	18.2±2.72	18.8±2.72	0.331	17.6±2.06	17.8±2.37	0.756
BMI-for-age z-score	-0.57±1.06	-0.39±0.91	0.371	-0.79±0.92	-0.72±1.12	0.779
BIA						
TBW	25.1±5.30	25.2±5.84	0.869	25.9±6.19	25.5±6.44	0.787
FFM	31.2±7.78	33.2±6.83	0.177	34.0±7.54	32.5±9.34	0.416
%BF	20.3±5.57	21.3±6.63	0.417	15.3±4.2	16.5±5.48	0.924
DDM						
TBW	24.1±4.4	24.9±5.21	0.354	26±5.82	26.3±7.19	0.983
FFM	31.9±5.96	33.1±7.00	0.357	35.0±7.88	35.0±9.72	0.982
%BF	20.6±6.51	21.2±7.09	0.668	12.6±4.76	14.2±7.26	0.265