

Supplemental Table 1. Mean values for cardiorespiratory and musculoskeletal fitness performance according to weight status categories

	n	UW	NW	OW	OB	p	Post hoc*
Cardiorespiratory fitness							
13 years							
Boys	8,217	45.50±0.45	48.32±0.08	45.16±0.12	41.38±0.21	<0.001	UW<NW; UW>OB; NW>OW; NW >OB; OW>OB
Girls	8,288	41.04±0.41	41.40±0.07	39.53±0.09	37.46±0.18	<0.001	UW<NW; UW>OW UW>OB; NW>OW; NW >OB; OW>OB
14 years							
Boys	20,280	45.91±0.20	47.04±0.05	43.93±0.09	40.11±0.17	<0.001	UW<NW; UW>OW UW>OB; NW>OW; NW >OB; OW>OB
Girls	18,792	39.17±0.19	39.43±0.04	37.39±0.07	35.58±0.14	<0.001	UW<NW; UW>OW UW>OB; NW>OW; NW >OB; OW>OB
15 years							
Boys	9,889	44.24±0.21	45.28±0.07	42.03±0.15	38.20±0.32	<0.001	UW<NW; UW>OW UW>OB; NW>OW; NW >OB; OW>OB
Girls	8,095	36.64±0.21	36.98±0.05	35.36±0.10	33.59±0.24	<0.001	UW<NW; UW>OW UW>OB; NW>OW; NW >OB; OW>OB
Musculoskeletal fitness							
13 years							
Boys	8,217	154.39±2.11	164.08±0.39	154.00±0.55	140.06±1.02	<0.001	UW<NW; UW>OB; NW>OW; NW >OB; OW>OB
Girls	8,288	133.19±1.89	130.76±0.35	122.43±0.45	116.44±0.85	<0.001	UW>OW; UW>OB; NW>OW; NW >OB; OW>OB
14 years							
Boys	20,280	163.47±0.96	170.19±0.23	159.19±0.42	145.19±0.81	<0.001	UW<NW; UW>OW UW>OB; NW>OW; NW >OB; OW>OB
Girls	18,792	132.57±0.92	130.68±0.21	122.59±0.33	113.47±0.71	<0.001	UW>OW UW>OB; NW>OW; NW >OB; OW>OB
15 years							
Boys	9,889	170.49±0.98	175.97±0.30	164.80±0.70	154.47±1.46	<0.001	UW<NW; UW>OW UW>OB; NW>OW; NW >OB; OW>OB
Girls	8,095	127.66±1.08	127.86±0.27	120.09±0.53	114.17±1.20	<0.001	UW>OW UW>OB; NW>OW; NW >OB; OW>OB

Data are mean ± SE

UW, underweight; NW, normal weight; OW, overweight; OB, obese.

* Post hoc hypothesis tests determined with the Bonferroni correction for multiple comparisons.

Analysis adjusted by country and socio-economic status.