

Table SDC 1 Characteristics of participants excluded from the study

Variables	Included participants		Excluded participants		P for difference	Cohen's D
	Mean (SD)	n	Mean/SD	n		
*Age (years)	9.75 (0.33)	5566	9.83 (0.42)	2140	< 0.0001	0.24
Somatic maturation (puberty) by time to aPHV (n, %)	22 (0.5)	4203	15 (0.01)	1189	0.015	NA
Social-economic status based on Mother's occupation						
I – Professional (%)	5.1	127	4.4	36	0.091	NA
II - Managerial and Technical (%)	36.3	910	36.7	304		
IIIa - Skilled non-manual (%)	39.1	981	36.1	299		
IIIb - Skilled manual (%)	1.7	43	2.2	18		
IV - Partly skilled (%)	14.7	370	16.3	135		
V - Unskilled (%)	3.1	78	4.3	36		
Anthropometry and Fat measure						
Body height (m)	1.40 (0.06)	5510	1.40 (0.07)	2120	0.059	0
*Weight (kg)	33.0 (8.6)	5555	33.60 (10.0)	2134	< 0.0001	0.13
*Body mass index (kg/m ²)	16.95 (3.32)	5506	17.21 (3.69)	2119	< 0.0001	0.14
Lean mass (kg)	24.52 (3.19)	5304	24.71 (3.35)	2016	0.026	0.06
Lean mass indexed for squared height (kg/m ²)	12.56 (0.99)	5255	12.60 (1.02)	2000	0.197	NA
*Total fat mass (kg)	7.14 (6.06)	5304	7.49 (7.0)	2016	< 0.0001	0.14
*Total fat mass indexed for squared height (kg/m ²)	3.67 (2.94)	5255	3.87 (3.38)	2000	< 0.0001	0.13
*Trunk fat mass (kg)	2.65 (2.68)	5304	2.81 (3.24)	2016	< 0.0001	0.14
*Trunk fat mass indexed for squared height (kg/m ²)	1.37 (1.34)	5255	1.46 (1.56)	2000	< 0.0001	0.14
Metabolic profile						
High-density lipoprotein (mmol/L)	1.40 (0.31)	3769	1.40 (0.31)	1307	0.945	NA
Low-density lipoprotein (mmol/L)	2.35 (0.60)	3769	2.34 (0.62)	1307	0.494	NA
*Triglyceride (mmol/L)	1.00 (0.60)	3769	1.01 (0.64)	1307	0.934	NA
*Adiponectin (µg/ml)	12.35 (7.02)	3767	12.43 (7.30)	1306	0.718	NA
Fitness measure						
CRF (W)	63.92 (9.07)	2813	64.44 (9.15)	1034	0.125	NA
CRF/BM (W·kg BM ⁻¹)	1.92 (0.38)	2810	1.90 (0.42)	1031	0.166	NA
CRF/BM ^{-0.21} (W·kg BM ^{-0.21})	31.31 (4.31)	2810	31.42 (4.39)	1031	0.489	NA
CRF/LM ^{-0.54} (W·kg LM ^{-0.54})	11.51 (1.46)	2683	11.51 (1.47)	982	0.870	NA
Vascular measure						
Pulse rate (beats/min)	79 (11)	5512	79 (11)	2081	0.107	NA
Systolic blood pressure (mmHg)	103 (9)	5511	103 (10)	2080	< 0.0001	0.10
Diastolic blood pressure (mmHg)	57 (6)	5512	58 (7)	2082	0.002	0.15
Brachial artery diameter (mm)	2.67 (0.30)	5566	2.69 (0.32)	555	0.083	NA
Flow-mediated dilation (%)	8.07 (3.37)	5566	7.93 (3.17)	555	0.368	NA
Flow-mediated dilation absolute (mm)	0.21 (0.08)	5566	0.21 (0.08)	555	0.653	NA
Carotid-radial PWV (m/s)	7.54 (1.22)	5566	7.48 (1.18)	1042	0.106	NA
*Distensibility coefficient (% per mmHg)	11.51 (6.91)	5566	11.57 (6.88)	733	0.268	NA

The values are means (standard deviations) and *median (interquartile range) except for maturation status and social economic status in percentage. Differences between participants were tested using Student's t-test for normally distributed continuous variables, Mann–Whitney U test for skewed continuous variables, Chi-square test for dichotomous variable, and one-way analysis of variance for multi-categorical variable. A 2-sided P-value <0.05 is considered statistically significant. Cohen's D effect size was calculated for statistically significant differences.

aPHV, age at peak height velocity; BM, body mass; CRF, cardiorespiratory fitness; LM, lean mass; NA, not applicable; PWV, pulse wave velocity; W, watt.