

Table SDC 3 Variables used in multivariable multiple imputation model.

| Variable | Missing values imputed in this variable | Imputed values | | Rounding | (n) imputed |
|--|---|----------------|---------|----------|-------------|
| | | Minimum | Maximum | | |
| Age (years) | NA, no missing | | | Integer | |
| Sex | NA, no missing | | | | |
| Somatic maturation (puberty) by time to aPHV (%) | Yes | 1 | 2 | | 1363 |
| Social-economic status based on Mother's occupation | Yes | 1 | 6 | | 3057 |
| <i>Anthropometry and Fat measure</i> | | | | | |
| Body height (m) | Yes | 1.18 | 1.65 | | 56 |
| Weight (kg) | Yes | 19.4 | 74.4 | | 11 |
| Lean mass (kg) | Yes | 15.64 | 42.70 | | 262 |
| Lean mass indexed for squared height (kg/m ²) | Yes | 9.74 | 16.95 | | 311 |
| Total fat mass (kg) | Yes | 1.27 | 36.03 | | 262 |
| Total fat mass indexed for squared height (kg/m ²) | Yes | 0.69 | 18.15 | | 311 |
| Trunk fat mass (kg) | Yes | 0.38 | 16.52 | | 262 |
| Trunk fat mass indexed for squared height (kg/m ²) | Yes | 0.20 | 8.28 | | 311 |
| <i>Metabolic profile</i> | | | | | |
| High-density lipoprotein (mmol/L) | Yes | 0.44 | 2.88 | | 1797 |
| Low-density lipoprotein (mmol/L) | Yes | -0.06 | 9.86 | | 1797 |
| Triglyceride (mmol/L) | Yes | 0.18 | 8.91 | | 1797 |
| Adiponectin (µg/ml) | Yes | 0.18 | 43.06 | | 1799 |
| <i>Fitness measure</i> | | | | | |
| CRF (W) | Yes | 35.83 | 87.80 | | 2753 |
| CRF/BM (W·kg BM ⁻¹) | Yes | 0.83 | 3.21 | | 2756 |
| CRF/BM ^{-0.21} (W·kg BM ^{-0.21}) | Yes | 17.20 | 41.70 | | 2756 |
| CRF/LM ^{-0.54} (W·kg LM ^{-0.54}) | Yes | 6.82 | 15.60 | | 2883 |
| <i>Vascular measure</i> | | | | | |
| Pulse rate (beats/mins) | Yes | 47.00 | 135.00 | | 54 |
| Systolic blood pressure (mmHg) | Yes | 65.50 | 144.50 | | 55 |
| Diastolic blood pressure (mmHg) | Yes | 37.00 | 81.50 | | 54 |
| Brachial artery diameter (mm) | NA, no missing | | | | |
| Flow-mediated dilation (%) | NA, no missing | | | | |
| Flow-mediated dilation absolute (mm) | NA, no missing | | | | |
| Carotid-radial PWV (m/s) | NA, no missing | | | | |
| Distensibility coefficient (% per mmHg) | NA, no missing | | | | |

NA, not applicable

aPHV, age at peak height velocity; BM, body mass; CRF, cardiorespiratory fitness; LM, lean mass; PWV, pulse wave velocity; W, watt