Table SDC 7 Associations of cardiorespiratory fitness, fat mass, lean mass and adiponectin categories with endothelial function, arterial elasticity, and arterial stiffness for observed (non-

Variable	Flow-mediated dilation (%) (n=5566)		*,†Distensibility co-efficient (% per mmHg) (n=5566)		Carotid-radial pulse wave velocity (m/s) (n=5566)	
	Estimated marginal means (95% CI)	*P*-value	Estimated marginal means (95% CI)	*P*-value	Estimated marginal means (95% CI)	*P*-value
CRF/BM$^{-0.21}$ (W·kg BM$^{-0.21}$) (n=2810)						
Low category	8.51 (8.06 to 8.97)	0.291	10.93 (10.20 to 11.68)	0.130	7.59 (7.44 to 7.75)	0.540
Moderate category	8.20 (7.77 to 8.64)		10.80 (10.08 to 11.68)		7.57 (7.42 to 7.72)	
High category	7.98 (7.53 to 8.44)		11.94 (11.05 to 12.74)		7.47 (7.32 to 7.63)	
CRF/LM$^{-0.54}$ (W·kg LM$^{-0.54}$) (n=2683)						
Low category	8.56 (8.12 to 9.00)	0.151	11.05 (10.32 to 11.81)	0.318	7.61 (7.47 to 7.76)	0.400
Moderate category	7.94 (7.50 to 8.38)		10.93 (10.20 to 11.68)		7.57 (7.42 to 7.72)	
High category	8.18 (7.73 to 8.63)		11.81 (10.93 to 12.60)		7.46 (7.31 to 7.61)	
***Adiponectin (µg/ml) (n=3767)**						
Low category	8.20 (7.89 to 8.50)	0.236	11.05 (10.56 to 11.68)	0.567	7.53 (7.42 to 7.65)	0.738
Moderate category	8.14 (7.84 to 8.44)		11.05 (10.56 to 11.68)		7.56 (7.45 to 7.67)	
High category	7.85 (7.54 to 8.15)		11.43 (10.93 to 12.07)		7.60 (7.49 to 7.71)	
***Total fat mass indexed for squared height (kg/m^2) (n=5255)**						
Low category	7.53 (6.96 to 8.11)	**0.022**	11.94 (10.93 to 13.01)	0.115	7.83 (7.63 to 8.03)	**0.003**
Moderate category	8.48 (8.13 to 8.82)		10.80 (10.20 to 11.43)		7.54 (7.42 to 7.66)	
High category	8.43 (7.85 to 9.01)		11.55 (10.55 to 12.74)		7.30 (7.10 to 7.50)	
***Trunk mass indexed for squared height (kg/m^2) (n=5255)**						
Low category	7.56 (6.70 to 8.12)	**0.024**	11.55 (16.91 to 12.60)	0.680	7.84 (7.65 to 8.04)	**0.001**
Moderate category	8.42 (8.08 to 8.77)		11.05 (10.44 to 11.68)		7.54 (7.42 to 7.65)	
High category	8.59 (7.99 to 9.19)		10.80 (10.32 to 11.05)		7.27 (7.06 to 7.47)	
Lean mass indexed for squared height (kg/m^2) (n=5255)						
Low category	7.96 (7.56 to 8.36)	0.500	10.32 (9.74 to 11.05)	**0.005**	7.71 (7.56 to 7.85)	**0.042**
Moderate category	8.01 (7.77 to 8.26)		11.17 (10.80 to 11.68)		7.58 (7.49 to 7.67)	
High category	8.27 (7.89 to 8.66)		12.20 (11.43 to 12.87)		7.42 (7.28 to 7.56)	

imputed) data set

BM, body mass; CI, confidence interval; CRF, cardiorespiratory fitness; LM, lean mass; W, watt. P-value <0.05 were considered statistically significant and are bolded. Estimated marginal means were computed from general linear models of exposure categories in relation to outcome variables with Sidak correction. Associations were adjusted for age, sex, puberty, systolic blood pressure, mother's socio-economic status, total fat mass or cardiorespiratory fitness scaled by lean mass, low-density lipoprotein, diameter of the brachial artery and time between measures of exposure and outcome variable.

*These variables were log-transformed by using natural log.
†This logged variable was back-transformed by exponentiation and presented as geometric mean