

Table S1. Association¹ of dietary saturated fatty acid (SFA) in childhood with puberty timing.

Dietary SFA at baseline				<i>p</i> _{trend} ³
T1 ²	T2 ²	T3 ²		
Girls				
Age at Tanner stage B2 (n=2185)				
Unadjusted model:	1	1.04 (0.86, 1.16)	1.05 (0.97, 1.21)	0.07
Model 2 ⁴ :	1	1.02 (0.82, 1.17)	1.03 (0.95, 1.23)	0.06
Final model ⁵ :	1	1.05 (0.98, 1.21)	1.07 (0.98, 1.19)	0.06
Age at menarche (n=3425)				
Unadjusted model:	1	0.95 (0.79, 1.15)	0.99 (0.87, 1.19)	0.06
Model 2 ⁶ :	1	0.99 (0.80, 1.19)	1.04 (0.91, 1.22)	0.053
Final model ⁵ :	1	1.04 (0.92, 1.25)	1.08 (0.95, 1.25)	0.07
Boys				
	T1 ⁷	T2 ⁷	T3 ⁷	<i>p</i> _{trend} ³
Age at Tanner stage G2 (n=2495)				
Unadjusted model:	1	0.92 (0.75, 1.13)	0.98 (0.85, 1.17)	0.08
Model 2 ⁶ :	1	0.96 (0.78, 1.17)	1.02 (0.93, 1.21)	0.06
Final model ⁵ :	1	1.01 (0.91, 1.23)	1.05 (0.94, 1.26)	0.06
Age at voice break (n=2495)				
Unadjusted model:	1	0.94 (0.76, 1.17)	0.99 (0.89, 1.21)	0.08
Model 2 ⁶ :	1	0.97 (0.77, 1.18)	1.03 (0.95, 1.27)	0.07
Final model ⁵ :	1	1.03 (0.93, 1.26)	1.06 (0.93, 1.23)	0.06

¹ Values are models adjusted hazard ratios (95% CI), HR= hazard ratio; ² Values are min-max in tertiles in girls for age at Tanner stage B2: T1 (8.1-12.3), T2 (12.4-17.8), and T3 (17.9-23.1); values are min-max in tertiles in girls for age at menarche: T1 (7.8-10.9), T2 (11.0-15.2), and T3 (15.3-21.6); ³ P for trend across tertiles were performed by including dietary fat intake at baseline as continuous variables; ⁴ Adjusted for birth year, family income level and energy intake at baseline; ⁵ Additionally adjusted for Z-scores of BMI at baseline and dietary protein intake (residual) at baseline; ⁶ Adjusted for birth year, family income level, energy intake at baseline and mother's age at menarche; ⁷ Values are min-max in tertiles in boys: T1 (8.4-14.5), T2 (14.6-20.7), and T3 (20.8-27.2).

Table S2. Association¹ of dietary monounsaturated fatty acid (MUFA) in childhood with puberty timing.

Dietary MUFA at baseline				
	T1 ²	T2 ²	T3 ²	<i>p</i> _{trend} ³
Girls				
Age at Tanner stage B2 (n=2185)				
Unadjusted model:	1	1.07 (1.01 1.13)	1.09 (1.02, 1.17)	0.04
Model 2 ⁴ :	1	1.06 (1.02, 1.11)	1.10 (1.04, 1.18)	0.04
Final model ⁵ :	1	1.04 (0.97, 1.13)	1.07 (0.98, 1.20)	0.06
Age at menarche (n=3425)				
Unadjusted model:	1	1.05 (0.99 1.16)	1.09 (1.01, 1.19)	0.06
Model 2 ⁶ :	1	1.06 (1.01, 1.12)	1.11 (1.06, 1.17)	0.047
Final model ⁵ :	1	0.99 (0.87, 1.16)	1.06 (0.93, 1.21)	0.07
Boys				
	T1 ⁷	T2 ⁷	T3 ⁷	<i>p</i> _{trend} ³
Age at Tanner stage G2 (n=2495)				
Unadjusted model:	1	0.93 (0.81, 1.10)	0.97 (0.89, 1.18)	0.07
Model 2 ⁶ :	1	0.99 (0.89, 1.19)	1.03 (0.95, 1.16)	0.06
Final model ⁵ :	1	1.03 (0.96, 1.12)	1.04 (0.95, 1.21)	0.07
Age at voice break (n=2495)				
Unadjusted model:	1	1.02 (0.95, 1.18)	1.03 (0.96, 1.22)	0.07
Model 2 ⁶ :	1	1.01 (0.92, 1.10)	1.05 (0.98, 1.25)	0.06
Final model ⁵ :	1	1.02 (0.95, 1.16)	1.04 (0.96, 1.23)	0.06

¹ Values are models adjusted hazard ratios (95% CI), HR= hazard ratio; ² Values are min-max in tertiles in girls for age at Tanner stage B2: T1 (8.5-14.8), T2 (14.9-19.3), and T3 (19.4-25.2); values are min-max in tertiles in girls for age at menarche: T1 (8.1-13.9), T2 (14.0-18.9), and T3 (19.0-24.5); ³ P for trend across tertiles were performed by including dietary fat intake at baseline as continuous variables; ⁴ Adjusted for birth year, family income level and energy intake at baseline; ⁵ Additionally adjusted for Z-scores of BMI at baseline and dietary protein intake (residual) at baseline; ⁶ Adjusted for birth year, family income level, energy intake at baseline and mother's age at menarche; ⁷ Values are min-max in tertiles in boys: T1 (8.7-15.1), T2 (15.2-22.6), and T3 (22.7-31.6).