

## SUPPLEMENTARY DATA

Table S1. Spearman's rank correlation coefficient for male population at the age of 15/16.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	1	-0.05	0.004	-0.07	0.02
WHR	-0.05	1	0.39	0.31	0.03
BMI	0.004	0.39	1	0.77	0.03
S4SF	-0.07	0.31	0.77	1	-0.09
AEE <sub>sd</sub>	0.02	0.03	0.03	-0.09	1

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

Table S2. Spearman's rank correlation coefficient for male population at the age of 18/19.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	1	-0.06	-0.11	-0.11	-0.07
WHR	-0.06	1	0.37	0.27	0.08
BMI	-0.11	0.37	1	0.69	0.17
S4SF	-0.11	0.27	0.69	1	-0.02
AEE <sub>sd</sub>	-0.07	0.08	0.17	-0.02	1

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

Table S3. Spearman's rank correlation coefficient for female population at the age of 15/16.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	1	-0.17	-0.04	-0.05	-0.01
WHR	-0.17	1	0.19	0.24	-0.04
BMI	-0.04	0.19	1	0.83	0.03
S4SF	-0.05	0.24	0.83	1	-0.03
AEE <sub>sd</sub>	-0.01	-0.04	0.03	-0.03	1

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

Table S4. Spearman's rank correlation coefficient for female population at the age of 18/19.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	1	0.02	-0.01	-0.05	-0.004
WHR	0.02	1	0.23	0.20	-0.04
BMI	-0.01	0.23	1	0.79	-0.003
S4SF	-0.05	0.20	0.79	1	-0.04
AEE <sub>sd</sub>	-0.004	-0.04	-0.003	-0.04	1

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

**Table S5.** Statistical significance of correlation (p-values) between variables in male population at the age of 15/16.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	/	0.37	0.94	0.23	0.77
WHR	0.37	/	$3.21 \times 10^{-12}$	$4.72 \times 10^{-8}$	0.65
BMI	0.94	$3.21 \times 10^{-12}$	/	0	0.56
S4SF	0.23	$4.72 \times 10^{-8}$	0	/	0.12
AEE <sub>sd</sub>	0.77	0.65	0.56	0.12	/

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

**Table S6.** Statistical significance of correlation (p-values) between variables in male population at the age of 18/19.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	/	0.29	0.06	0.05	0.25
WHR	0.29	/	$1.93 \times 10^{-11}$	$2.09 \times 10^{-6}$	0.17
BMI	0.06	$1.93 \times 10^{-11}$	/	0	0.002
S4SF	0.05	$2.09 \times 10^{-6}$	0	/	0.73
AEE <sub>sd</sub>	0.25	0.17	0.002	0.73	/

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

**Table S7.** Statistical significance of correlation (p-values) between variables in female population at the age of 15/16.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	/	0.002	0.53	0.37	0.83
WHR	0.002	/	$7.02 \times 10^{-4}$	$3.34 \times 10^{-5}$	0.45
BMI	0.53	$7.02 \times 10^{-4}$	/	0	0.54
S4SF	0.37	$3.34 \times 10^{-5}$	0	/	0.55
AEE <sub>sd</sub>	0.83	0.45	0.54	0.55	/

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

**Table S8.** Statistical significance of correlation (p-values) between variables in female population at the age of 18/19.

Variables	EV	WHR	BMI	S4SF	AEE <sub>sd</sub>
EV	/	0.76	0.81	0.36	0.94
WHR	0.76	/	$4.37 \times 10^{-5}$	$5.44 \times 10^{-4}$	0.46
BMI	0.81	$4.37 \times 10^{-5}$	/	0	0.97
S4SF	0.36	$5.44 \times 10^{-4}$	0	/	0.49
AEE <sub>sd</sub>	0.94	0.46	0.97	0.49	/

EV = eveningness in energy intake. WHR = waist to hip ratio. BMI = body mass index. S4SF = sum of 4 skinfolds. AEE<sub>sd</sub> = active energy expenditure during school days.

**Table S9.** Result of the GEE method which included socio-economic status (SES), total daily energy intake (TDEI), gender and age as covariates.

Source	Wald Chi-Square	Significance
Age	0.342	0.559
Gender	2.105	0.147
TDEI	0.071	0.790
SES	1.012	0.312
Age*Gender	1.340	0.247
Age * TDEI	0.425	0.809
Age * SES	1.012	0.315
Gender * TDEI	1.731	0.188
Gender * SES	0.599	0.439
Age * Gender * TDEI	0.849	0.654
Age* Gender * SES	2.069	0.150
Age * TDEI * SES	0.786	0.675
Gender * TDEI * SES	2.047	0.152
Age * Gender * TDEI * SES	1.365	0.505

Dependent Variable: eveningness (EV)

**Table S10.** Result of the GEE method which included the relation between covariates (socio-economic status (SES), total daily energy intake (TDEI), gender and age) and anthropometric characteristics (waist to hip ratio (WHR), body mass index (BMI) and sum of 4 skinfolds (S4SF)).

Source	Wald Chi-Square	Significance
WHR	4.933	0.026
BMI	4.078	0.043
S4SF	1.315	0.252
SES * WHR	11.681	0.020
SES * BMI	10.637	0.031
SES * S4SF	1.379	0.848
Gender * WHR	0.005	0.944
Gender * BMI	0.834	0.361
Gender * S4SF	0.023	0.880
Age * WHR	0.774	0.379
Age * BMI	1.951	0.162
Age * S4SF	1.092	0.296
TDEI * WHR	0.010	0.921
TDEI * BMI	0.776	0.378
TDEI * S4SF	0.003	0.956
TDEI * SES	7.111	0.213

Dependent Variable: eveningness (EV)