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Eating 'green' and being 'green': A cross-sectional study among Italian adults through Mediterranean diet adherence

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Electronic supplementary material (ESM)

Supplementary Table S1

Supplementary Table S2

Supplementary Table S3

Supplementary Table S4

Supplementary Table S5

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Table S1. Variables' description

Variable	Type
<i>Mediterranean diet adherence^a</i>	score – discrete [4;32]
<i>Gender</i>	0 (male); 1 (female)
<i>Age</i>	1 (18 to 24); 2 (25 to 34); 3 (35 to 44); 4 (45 to 54); 5 (55 to 64); 6 (older than 65)
<i>Education level</i>	1 (primary school/no school); 2 (secondary school); 3 (high school diploma); 4 (degree and post-degree)
<i>Economic situation</i>	1 (poor); 2 (somewhat insufficient); 3 (somewhat sufficient); 4 (optimal)
<i>Family type</i>	1 (alone); 2 (couple with children); 3 (couple without children); 4 (single father); 5 (single mother)
<i>Region</i>	1 (South); 2 (Central); 3 (North)
<i>Environmental concerns</i>	score-continuous
<i>Pro-environmental behaviours</i>	score-continuous

^atransformed into a categorical variable, following its quartiles

Source: Own elaboration based on ISTAT (2021) data

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Table S2. Robustness check

Variable	(1)	(2)	
	Coefficient	Coefficient	Odds ratio
Gender			
male	–	–	–
female	0.761***	0.339***	1.401***
Age	0.409***	0.189***	1.208***
Education level	0.147***	0.072***	1.074***
Economic situation	0.245***	0.124***	1.132***
Family type			
alone	–	–	–
couple with children	0.024	0.009	1.01
couple without children	0.216***	0.107***	1.113***
single father	–0.268*	–0.127*	0.880*
single mother	–0.114	–0.026	0.974
Region			
South	–	–	–
Central	0.118**	0.078***	1.08***
North	–0.312***	–0.115***	0.892
Environmental concerns	0.087***		
^a Climate change concerns	–	0.028***	1.028***
^b Biodiversity concerns	–	0.005	1.005
^c Environmental pollution concerns	–	0.035***	1.036***
^d Human impact concerns	–	0.036***	1.037***
Pro-environmental behaviours	0.529***		
^e Sustainable purchasing behaviours	–	0.123***	1.131***
^f Environmental and energy-saving behaviours	–	0.094***	1.098***
^g Environmental and social behaviours	–	0.036***	1.037***
cons	10.343***		
R ²	0.079		
F-test	243.88***		
/cut 1			2.638
/cut 1			3.953
/cut 1			4.849
LR chi ²			2 630.85***
Model fit			0.028 1
Observations	34 151	34 151	

***, ** and *significance levels at 0.01, 0.05 and 0.1, respectively; ^aC1, C3, C9; ^bC2, C11; ^cC4, C5, C6, C7, C8; ^dC10, C12, C13, C14; ^eB2, B3, B10; ^fB5, B6, B9; ^gB4, B7, B8

It presents the multiple linear regression with aggregated (Model 1) and decomposed EC, PEB (Model 2).

Source: Own elaboration based on ISTAT (2021) data

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Table S3. Correlation/association test among covariates

	Age	Gender	Education level	Economic situation	Family type	Region	Environmental concerns score	Pro-environmental behaviours score
Age	1.00							
Gender	0.05	1.00						
Education level	-0.46	-0.03	1.00					
Economic situation	0.06	-0.02	0.16	1.00				
Family type	-0.04	0.00	0.02	0.01	1.00			
Region	0.02	0.01	0.06	0.08	-0.01	1.00		
Environmental concerns score	-0.07	-0.00	0.19	0.03	0.01	0.03	1.00	
Pro-environmental behaviours Score	-0.09	0.08	0.28	0.09	0.02	0.13	0.24	1.00

Polyserial correlation coefficients are reported (covariates are continuous and categorical); all coefficients are significant at 1%

Source: Own elaboration based on ISTAT (2021) data

Table S4. Multicollinearity test on multiple linear regression

MD	VIF	1/VIF
Gender		
male	–	–
female	1.04	0.96
Age	1.50	0.67
Education level	1.33	0.75
Economic situation	1.04	0.96
Family type		
alone	–	–
couple with children	2.08	0.48
couple without children	1.72	0.58
single father	1.11	0.89
single mother	1.39	0.72
Region		
South	–	–
Central	1.24	0.81
North	1.26	0.79
Environmental concerns score	1.08	0.92
Environmental behaviours score	1.14	0.88
Mean VIF	1.33	

Since VIF cannot be performed directly after an ordinal logistic model, the multiple linear regression was used as a representative model (and as a robustness check previously)

VIF – variance inflation factor

Source: Own elaboration based on ISTAT (2021) data

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Table S5. Sample descriptive statistics (%)

Variables	All (<i>n</i> = 34 151)	Male (<i>n</i> = 16 331)	Female (<i>n</i> = 17 820)
MD adherence score ^a	20.891	20.938	20.847
Low (4–15)	27.08	26.60	27.51
Medium-low (16–18)	28.47	28.34	28.59
Medium-high (19–20)	26.27	26.28	26.26
High (21–32)	18.18	18.77	17.64
Age (years)			
18 to 24	7.53	8.11	7.01
25 to 34	10.26	11.08	9.51
35 to 44	13.14	13.02	13.24
45 to 54	19.14	19.75	18.57
55 to 64	18.76	18.81	18.71
older than 65	31.17	29.22	32.96
Education level			
primary school / no school	16.11	12.60	19.32
secondary school	25.49	28.44	22.78
high school diploma	40.69	42.84	38.72
degree and post-degree	17.71	16.11	19.18
Economic situation			
poor	3.20	3.33	3.08
somewhat insufficient	26.75	25.98	27.46
somewhat sufficient	68.54	69.10	68.03
optimal	1.51	1.59	1.44
Family type			
alone	19.89	16.93	22.61
couple with children	44.82	48.53	41.43
couple without children	24.59	25.91	23.38
single father	2.11	3.56	0.77
single mother	8.58	5.06	11.81
Region			
South	37.19	37.44	36.96
Central	19.63	19.51	19.74
North	43.18	43.05	43.29

^aThe transformation of the Mediterranean diet (MD) adherence into an ordinal variable was done following the quartiles of its distribution. For all the covariates and their categories, the percentage out of the sample is presented, for MD, the score is provided as the mean

Source: Own elaboration based on ISTAT (2021) data