

Supplementary Table S1. Chemical composition of extra virgin olive oil used in the study [1].

Fatty Acids (%)	EVOO
C16:0	10.4
C18:0	2.76
C18:1 n-9	71.0
C18:2 n-6	12.9
C18:3 n-3	1.04
Sterols (mg/100g oil)	319
Schottenol	0
Spinasterol	0
Stigmasta-8,22-dien-3 β -ol	0
β -Sitostérol	156
Campesterol	12
Others	151
Tocopherols (mg/Kg oil)	257
α	190
δ	42
γ	26
Phenolic Compounds (μg/Kg oil)	792 983
Vanillic acid	359
Syringic acid	0
Ferulic acid	51
Tyrosol	19 573
Others	773 000

Supplementary Table S2. Anthropometric and biochemical characteristics of the participants at baseline.

	Total (n = 84)	Young (n = 27)	Elderly (n = 57)	
Age (years)	58.21 \pm 19.22	31.81 \pm 6.79	70.72 \pm 5.6	<0.001
Male	35	15	20	
Female	49	12	37	
BMI	25.83 \pm 4.24	24.37 \pm 3.16	26.51 \pm 4.53	0.033
Systolique pressure	127.32 \pm 18.48	113.56 \pm 8.43	133.72 \pm 18.42	<0.001
Diastolique pressure	77.37 \pm 9.55	70.52 \pm 7.84	80.54 \pm 8.6	<0.001
Total cholesterol (mmol/l)	5.23 \pm 0.99	4.63 \pm 0.95	5.52 \pm 0.88	<0.001
Triglycerides (mmol/l)	1.31 \pm 0.83	1.19 \pm 0.99	1.37 \pm 0.74	0.032
HDL-C (mmol/l)	1.46 \pm 0.38	1.38 \pm 0.33	1.5 \pm 0.4	0.289
LDL-C (mmol/l)	3.16 \pm 0.83	2.7 \pm 0.76	3.4 \pm 0.78	<0.001
CT/HDL-C	3.81 \pm 1.25	3.62 \pm 1.4	3.92 \pm 1.16	0.113
Glucose (mmol/l)	4.56 \pm 0.57	4.18 \pm 0.46	4.73 \pm 0.56	<0.001

Results are presented as MEAN SD, *p*: comparison between young and elderly Mann-Whitney test, α = 0.05.

References

1. Helal, O.; Berrougui, H.; Loued, S.; Khalil, A. Extra-virgin olive oil consumption improves the capacity of HDL to mediate cholesterol efflux and increases ABCA1 and ABCG1 expression in human macrophages. *Br. J. Nutr.* **2013**, *109*, 1844–1855.