

Supplemental Table 1. Age- and energy intake-adjusted hierarchical regression analysis on the association between cardiometabolic risk factors and PAEE, C-HEI and their interaction (PAEE x C-HEI).

Dependent variable	Step	Independent variable	Constant	Coefficient	Total R ²	P value
Total cholesterol			6.262			
		Age		0.004		0.820
		Energy intake		0.000		0.182
	1.	Total fat mass		-0.019	0.068	0.013
HDL-C			1.463			
		Age		0.007		0.286
		Energy intake		1.117 X 10 ⁻⁵		0.841
	1.	VAT		-0.002		0.001
	2.	PAEE x C-HEI		2.361 X 10 ⁻⁶	0.137	0.030
LDL-C			3.167			
		Age		0.006		0.672
		Energy intake		0.000	0.018	0.151
Triglycerides			2.100			
		Age		-0.009		0.572
		Energy intake		1.763 X 10 ⁻⁵	0.003	0.898

Total		3.865			
cholesterol/HDL-C	Age		-0.005		0.754
	Energy intake		0.000		0.228
1.	VAT		0.003	0.051	0.031
Non HDL-C		3.962			
	Age		0.005		0.742
	Energy intake		0.000	0.015	0.197
apoB		0.995			
	Age		0.001		0.752
	Energy intake		-3.737×10^{-5}		0.289
1.	PAEE x C-HEI		-1.988×10^{-6}	0.075	0.004
LDL-C/apoB		3.558			
	Age		-0.003		0.751
	Energy intake		-8.143×10^{-5}		0.393
1.	PAEE x C-HEI		6.590×10^{-6}	0.106	0.001
apoA1		1.688			
	Age		0.003		0.963
	Energy intake		-2.720×10^{-5}		0.488
1.	VAT		-0.001	0.050	0.017
apoA1/apoB		1.621			

	Age	-0.003		0.680
	Energy intake	4.194×10^{-5}		0.506
1.	PAEE x C-HEI	4.268×10^{-6}	0.075	0.004
Systolic BP		89.196		
	Age	0.289		0.261
	Energy intake	0.003		0.245
1.	VAT	0.061	0.070	0.011
Diastolic BP		69.315		
	Age	-0.032		0.839
	Energy intake	0.002		0.248
1.	Total fat mass	0.157	0.049	0.039
Fasting glycemia		5.740		
	Age	-0.002		0.835
	Energy intake	0.000		0.128
1.	VAT	0.004		<0.001
2.	BMI	-0.026	0.123	0.032
Fasting insulinemia		5.715		
	Age	-0.088		0.470
	Energy intake	0.001		0.348
1.	VAT	0.067	0.251	<0.001

LogHOMA-IR		0.303			
	Age		-0.002		0.502
	Energy intake		9.339×10^{-6}		0.771
1.	VAT		0.002	0.233	<0.001
Glucose disposal rate		17.299			
	Age		-0.033		0.628
	Energy intake		0.000		0.653
1.	VAT		-0.017	0.063	0.007
LogIL-6		-0.244			
	Age		-0.007		0.135
	Energy intake		1.855×10^{-5}		0.628
1.	BMI		0.021	0.194	<0.001
LoghsCRP		0.044			
	Age		-0.010		0.063
	Energy intake		-6.630×10^{-5}		0.184
1.	BMI		0.026		<0.001
2.	VAT		0.001		0.049
3.	PAEE x C-HEI		-2.215×10^{-6}	0.276	0.025
Orosomucoid		1.021			
	Age		-0.005		0.133

		Energy intake	8.386 X 10 ⁻⁶		0.796
	1.	VAT	0.001	0.053	0.044
Haptoglobin					2.234
		Age	-0.014		0.113
		Energy intake	-3.489 X 10 ⁻⁵		0.697
	1.	PAEE	0.000	0.076	0.006
WBC					4.616
		Age	0.003		0.910
		Energy intake	0.000		0.496
	1.	VAT	0.007	0.081	0.002

Independent variables included in the model: Bloc 1: age, energy intake (entered), Bloc 2 (stepwise): BMI, total fat mass, VAT, Bloc 3 (stepwise): PAEE (adjusted to the mean), C-HEI (adjusted to the mean), PAEE x C-HEI (adjusted to the mean).