

Supplementary Table 41. The wald-test for a square term of DNA methylation and clinical mediators prediction all-cause mortality outcome, NHANES 1999-2002 (n=2,402). Bold indicates statistical significance (p-value<0.05), and bold with two asterisks indicates significance passed Bonferroni adjustment (p-value<0.0021).

	Overall sample (N=2,042)	
	Beta	p-value
Chronological age clocks		
Hannum	-5.38E-04	0.174
Hovarth	9.51E-05	0.825
Weidner	2.75E-04	0.126
Lin	4.44E-05	0.737
Vidal-Bralo	3.97E-04	0.223
SkinBlood	2.79E-04	0.519
Zhang	2.85E-05	0.992
Physiological functioning clocks		
PhenoAge	4.09E-05	0.911
GrimAge	-7.31E-04	0.283
GrimAge2	-7.38E-04	0.305
Pace of aging clock		
DunedinPoAm	-3.21E+00	0.260
Clocks trained on other aging biomarkers		
Yang	5.17E+00	0.931
Telomere	-3.54E-01	0.317
Behavioral/Lifestyle measures		
Sedentary behavior	NA	NA
Healthy eating index	7.68E-05	0.629
Smoking pack years	-3.75E-05	0.149
Alcohol drinker	NA	NA
Anthropometric measures		
Waist to thigh ratio	1.57E-01	0.769
BMI	3.35E-03**	0.000
Clinical used blood Biomarkers		
Total cholesterol	6.61E-02**	0.001
HDL	2.24E-04	0.015
LDL	3.57E-05	0.057
Glucose	2.86E-06	0.523
C-reactive protein	-3.69E-02**	0.002