Table S3. Sensitivity analyses: associations of any antihypertensive medication use with age acceleration and change rate of age acceleration for Hannum DNA methylation age and DNA methylation Phenotypic age.

Visit	Types of aging biomarkers	Use of any	Ν	Age acc	eleration	Change rate of age acceleration		
		antihypertension		Model 1 <sup>a</sup>	Model 2 <sup>b</sup>	Model 1	Model 2	
		medication		Coefficients (SE) p-value	Coefficients (SE) p-value	Coefficients (SE) p-value	Coefficients (SE) p-value	
First visit	DNA methylation age (Hannum)	No	233	Ref	Ref	Ref	Ref	
		Yes	313	0.899 (0.406) 0.014	2.150 (0.727) 0.003	0.050 (0.073) 0.489	0.137 (0.112) 0.383	
	DNA methylation Phenotypic age	No	233	Ref	Ref	Ref	Ref	
		Yes	313	1.406 (0.568) 0.0001	1.687 (0.999) 0.002	0.038 (0.108) 0.731	0.037 (0.198) 0.854	
Second visit DNA methylation age (Hannum)		No	163	Ref	Ref	Ref	Ref	
		Yes	383	0.925 (0.445) 0.113	1.801 (0.992) 0.153	0.016 (0.075) 0.832	0.015 (0.153) 0.920	
	DNA methylation Phenotypic age	No	163	Ref	Ref	Ref	Ref	
		Yes	383	1.732 (0.573) 0.003	1.692 (1.340) 0.087	0.091 (0.116) 0.435	0.221 (0.238) 0.355	

a: Model 1: Adjusted for covariates at each visit: age + leukocyte distribution (Houseman algorithm) + random effect (batch effect of DNA methylation measurement). Age acceleration was additionally adjusted for in the model for the change rate of age acceleration;

b: Model 2: Model 1 + BMI + smoking status + alcohol consumption + physical activity + years of education + total cholesterol + HDL + triglycerides + fasting glucose + SBP + hypertension + stroke + CHD + diabetes + cancer.

Types of aging biomarkers	Change of any antihypertension	N	Change rate of age acceleration			
	medication use		Model 1 <sup>a</sup>		Model 2 <sup>b</sup>	
		_	Coefficients (SE)	p-value	Coefficients (SE)	p-value
DNA methylation age (Hannum)	Never used	150	Ref		Ref	
	Stopped use after first visit	13	-0.789 (0.241)	0.001	-0.861 (0.287)	0.003
	Started use after first visit	83	0.055 (0.109)	0.614	0.039 (0.123)	0.753
	Continuous use	300	0.139 (0.112)	0.187	0.151 (0.148)	0.199
DNA methylation Phenotypic age	Never used	150	Ref		Ref	
	Stopped use after first visit	13	-0.516 (0.355)	0.147	-0.540 (0.412)	0.191
	Started use after first visit	83	0.159 (0.162)	0.325	0.116 (0.178)	0.517
	Continuous use	300	0.187 (0.124)	0.227	0.146 (0.215)	0.130

## b. Longitudinal associations with change rate of age acceleration.

a: Model 1: Adjusted for: age (first visit) + age acceleration (first visit) + leukocyte distribution (first visit, Houseman algorithm) + random effect (batch effect of methylation measurement at first visit);

b: Model 2: Model 1 + BMI (first visit) + smoking status (first visit) + alcohol consumption (first visit) + physical activity (first visit) + years of education (first visit) + total cholesterol (first visit) + HDL (first visit) + triglycerides (first visit) + fasting glucose (first visit) + SBP (first visit) + hypertension (first visit) + stroke (first visit) + CHD (first visit) + diabetes (first visit) + cancer (first visit).