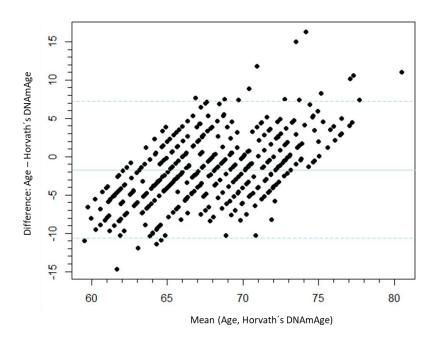
Supplementary material

Standardized laboratory measurements of physical functioning

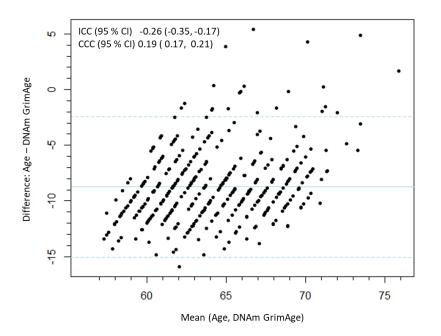
During the walk tests, the participants wore walking shoes or sneakers, and use of walking aids that they would normally require was allowed. The Timed Up and Go (TUG) test was used to assess the participants' mobility, balance, and walking ability.¹⁻³ The participants were verbally and visually instructed to rise from a chair, walk three meters, turn around, walk back to the chair, and sit down. The test was done twice, and the faster performance was documented as the result. In the 10-meter walk test, three meters were allowed for acceleration, and walking time over 10 meters was recorded in the laboratory corridor using photocells for timing.^{4, 5} The participants were instructed to walk as fast as possible without compromising their safety. The test was conducted twice, and the faster performance was assessed using a validated six-minute walk test.⁶ The participants were instructed to walk as fast as possible up and down a straight 50-m indoor track for six minutes without compromising their safety. The distance (m) covered in that time was recorded.

Maximal isometric muscle strength measurements were performed on the dominant side, in a sitting position, using an adjustable dynamometer chair (Good Strength, Metitur, Palokka, Finland). *Grip strength* was measured with a dynamometer fixed to the arm of the chair, with the elbow flexed at 90°. *Ankle plantar flexion strength* measured the ankle at an angle of 90°, fastened by a belt to a strain-gauge system. The leg was elevated to a horizontal position, and the knee was set at an angle of 20° from full extension. *Knee extension strength* was measured at a knee angle of 60° from full extension, with the ankle fastened by a belt to a strain-gauge system. After familiarization, three to five maximal efforts, separated by a one-minute rest, were conducted. For each subject and strength test, the best performance with the highest value was used in the analysis.

Supplemental figure 1 shows the Bland-Altman plot for agreement between chronological age and Horvath's DNAmAge. Average age measure difference was -1.71 years (std. err. 0.22, P < 0.001). The Spearman correlation between mean and difference of the measurements was 0.53, P < 0.001. The figure shows that greater discrepancies between chronological and Horvath's DNAmAge are observed both for low and high measurement averages. For lower averages, Horvath's DNAmAge is higher than chronological age leading to negative differences, while for higher average values Horvath's DNAmAge is lower than chronological age (positive differences). The intraclass and concordance correlation coefficient estimates were moderate suggesting greater similarity between chronological and Horvath's DNAmAge.



Supplement Figure 1. Bland-Altman plot for mean of chronological age and Horvath's DNAmAge against difference between chronological age and Horvath's DNAmAge (ICC = intraclass correlation coefficient for chronological age and Horvath's DNAmAge, CCC = concordance correlation coefficient for chronological age and Horvath's DNAmAge).



Supplement Figure 2. Bland-Altman plot for mean of chronological age and DNAm GrimAge against difference between chronological age and DNAm GrimAge (ICC = intraclass correlation coefficient for chronological age and DNAm GrimAge, CCC = concordance correlation coefficient for chronological age and DNAm GrimAge).

Supplemental figure 2 shows the Bland-Altman plot for agreement between chronological age and DNAm GrimAge. Average difference of the age measures was -8.75 years (std. err. 0.16, P < 0.001). The Spearman correlation between mean and difference of the measurements was 0.27, P < 0.001. The figure shows that greater discrepancies between chronological and DNAm GrimAge are observed for higher average measurements. For higher age averages chronological age was markedly higher than DNAm GrimAge. The intraclass and concordance correlation coefficient estimates were low suggesting greater average difference for the chronological and DNAm GrimAge measures.

Supplementary Table 1. Unadjusted regression coefficient estimates, standard errors and uncorrected pvalues for linear associations between PhenoAge and Hannum age acceleration and chronological age and body mass index and physical functioning phenotypes at baseline (N = 413) and at three-year follow-up (N = 298) among older women.

Outcome	AgeAccel	Time point	Multiplier	Est.	SE	р
Body mass index	PhenoAge	baseline		0.072	0.036	0.043
(kg/m²)		follow-up		0.060	0.039	0.124
	Hannum	baseline		0.050	0.053	0.344
		follow-up		0.070	0.054	0.198
	Age	baseline		0.003	0.082	0.975
		follow-up		0.043	0.092	0.641
Timed up and go	PhenoAge	baseline	10	0.001	0.001	0.188
(s)		follow-up	10	0.001	0.001	0.119
	Hannum	baseline	10	0.001	0.001	0.274
		follow-up	10	0.001	0.001	0.239
	Age	baseline	10	0.006	0.002	0.001
		follow-up	10	0.007	0.002	<0.001
10-meter walking	PhenoAge	baseline		0.000	0.000	0.412
test (s)		follow-up		0.001	0.000	0.120
	Hannum	baseline		0.000	0.000	0.364
		follow-up		0.001	0.001	0.073
	Age	baseline		0.003	0.001	<0.001
		follow-up		0.004	0.001	<0.001
Six-minute walking	PhenoAge	baseline	1/1000	-0.001	0.001	0.368
test (m)		follow-up	1/1000	-0.001	0.001	0.082
	Hannum	baseline	1/1000	-0.001	0.001	0.371
		follow-up	1/1000	-0.002	0.001	0.096
	Age	baseline	1/1000	-0.007	0.002	<0.001
		follow-up	1/1000	-0.010	0.002	<0.001
Grip strength (N)	PhenoAge	baseline	1/100	-0.007	0.006	0.182
		follow-up	1/100	-0.001	0.007	0.919
	Hannum	baseline	1 / 100	-0.002	0.007	0.793
		follow-up	1/100	0.013	0.007	0.051
	Age	baseline	1/100	-0.019	0.009	0.044
		follow-up	1/100	-0.039	0.012	0.001
Ankle plantar	PhenoAge	baseline		-0.016	0.038	0.662
flexion strength		follow-up		-0.015	0.040	0.697
(N)	Hannum	baseline		-0.054	0.056	0.339
		follow-up		-0.021	0.056	0.707
	Age	baseline		-0.199	0.076	0.009
		follow-up		-0.146	0.078	0.062

Knee extension strength (N)	PhenoAge	baseline follow-up	1 / 100 1 / 100	0.002 -0.003	0.009 0.009	0.843 0.714
	Hannum	baseline	1/100	0.000	0.014	0.975
		follow-up	1/100	-0.005	0.013	0.690
	Age	baseline	1/100	-0.070	0.017	<0.001
		follow-up	1/100	-0.062	0.016	<0.001

Note. Outcome values were scaled with the multiplier value. AgeAccel: DNA methylation age acceleration, Est: unadjusted regression coefficient, SE: standard error based on 10 000 bootstrap draws, *p*: expected false positive rate for a single test.

Supplementary Table 2. Adjusted regression coefficient estimates, standard errors and uncorrected p-values for linear associations between Grimage and Horvath age acceleration and chronological age and body mass index and physical functioning phenotypes at baseline (N = 413) and at three-year follow-up (N = 298) among older women.

Outcome				Adj	justed for set	1	Adjusted for set 2			
	AgeAccel	Time point	Multiplier	Est.	SE	p	Est.	SE	p	
Body mass index	GrimAge	baseline		0.088	0.086	0.305	0.065	0.086	0.447	
(kg/m²)		follow-up		0.083	0.091	0.358	0.058	0.090	0.518	
	Horvath	baseline		0.103	0.049	0.037	0.102	0.050	0.039	
		follow-up		0.087	0.053	0.096	0.088	0.053	0.098	
	Age	baseline		-0.003	0.082	0.970	-0.024	0.084	0.777	
		follow-up		0.036	0.092	0.692	0.017	0.095	0.855	
Timed up and go	GrimAge	baseline	10	0.005	0.002	0.004	0.004	0.002	0.011	
(s)	-	follow-up	10	0.006	0.002	0.001	0.005	0.002	0.003	
	Horvath	baseline	10	0.000	0.001	0.764	0.001	0.001	0.549	
		follow-up	10	0.000	0.001	0.995	0.000	0.001	0.777	
	Age	baseline	10	0.006	0.002	0.001	0.004	0.002	0.013	
		follow-up	10	0.007	0.002	<0.001	-0.001	0.006	0.893	
10-meter	GrimAge	baseline		0.002	0.001	0.024	0.001	0.001	0.050	
walking test (s)		follow-up		0.003	0.001	<0.001	0.003	0.001	0.001	
	Horvath	baseline		-0.004	0.005	0.440	0.000	0.000	0.882	
		follow-up		0.001	0.000	0.235	0.001	0.000	0.174	
	Age	baseline		0.003	0.001	<0.001	0.002	0.001	0.002	
		follow-up		0.004	0.001	<0.001	0.003	0.002	0.129	
Six-minute walking test	GrimAge	baseline	1/1000	-0.005	0.002	0.005	-0.004	0.002	0.010	
(m)		follow-up	1/1000	-0.007	0.002	<0.001	-0.006	0.002	<0.001	
	Horvath	baseline	1/1000	0.000	0.001	0.957	0.000	0.001	0.828	

		c							
		follow-up	1/1000	-0.001	0.001	0.362	-0.001	0.001	0.258
	Age	baseline	1/1000	-0.007	0.002	<0.001	-0.006	0.003	0.047
		follow-up	1/1000	-0.010	0.002	<0.001	-0.010	0.004	0.013
Grip strength (N)	GrimAge	baseline	1/100	-0.012	0.010	0.226	-0.009	0.009	0.331
		follow-up	1/100	-0.016	0.012	0.181	-0.012	0.012	0.317
	Horvath	baseline	1 / 100	-0.002	0.007	0.793	-0.002	0.006	0.736
		follow-up	1 / 100	0.013	0.007	0.051	0.013	0.007	0.061
	Age	baseline	1 / 100	-0.019	0.009	0.042	-0.016	0.009	0.087
		follow-up	1 / 100	-0.039	0.012	0.001	-0.036	0.012	0.002
Ankle plantar	GrimAge	baseline		-0.145	0.074	0.051	-0.135	0.074	0.068
flexion strength		follow-up		-0.193	0.088	0.028	-0.168	0.087	0.052
(N)	Horvath	baseline		-0.044	0.056	0.433	-0.039	0.055	0.477
		follow-up		0.037	0.059	0.537	0.036	0.059	0.548
	Age	baseline		-0.199	0.076	0.009	-0.195	0.150	0.194
		follow-up		-0.149	0.078	0.054	-0.235	0.260	0.366
Knee extension	GrimAge	baseline	1/100	-0.033	0.019	0.076	-0.028	0.018	0.115
strength (N)	-	follow-up	1/100	-0.066	0.019	<0.001	-0.056	0.018	0.002
	Horvath	baseline	1 / 100	0.024	0.013	0.075	0.017	0.012	0.155
		follow-up	1 / 100	0.012	0.012	0.319	0.005	0.011	0.619
	Age	baseline	1 / 100	-0.072	0.017	<0.001	-0.057	0.018	0.001
		follow-up	1 / 100	-0.063	0.016	<0.001	-0.048	0.036	0.183

Note. Covariate set 1 included smoking status, covariate set 2 included smoking status, alcohol consumption and number of chronic conditions. Outcome values were scaled with the multiplier value. Est: adjusted regression coefficient, SE: standard error based on 10 000 bootstrap draws, *p*: expected false positive rate for a single test.

Supplementary Table 3. Adjusted regression coefficient estimates, standard errors and uncorrected p-values for linear associations between PhenoAge and Hannum age acceleration and chronological age and body mass index and physical functioning phenotypes at baseline (N = 413) and at three-year follow-up (N = 298) among older women.

AgeAccel			-	usted for set 1			djusted for set 2	-
0	Time point	Multiplier	Est.	SE	p	Est.	SE	р
PhenoAge	baseline		0.071	0.036	0.047	0.068	0.035	0.054
	follow-up		0.059	0.039	0.129	0.054	0.038	0.154
Hannum	baseline		0.050	0.053	0.350	0.040	0.053	0.454
	follow-up		0.070	0.054	0.201	0.060	0.055	0.275
Age	baseline		-0.003	0.082	0.970	-0.024	0.084	0.777
	follow-up		0.036	0.092	0.692	0.017	0.095	0.855
PhenoAge	baseline	10	0.001	0.001	0.203	0.001	0.001	0.165
	follow-up	10	0.001	0.001	0.129	0.001	0.001	0.116
Hannum	baseline	10	0.001	0.001	0.290	0.001	0.001	0.307
	follow-up	10	0.001	0.001	0.259	0.001	0.001	0.291
Age	baseline	10	0.006	0.002	0.001	0.004	0.002	0.013
	follow-up	10	0.007	0.002	<0.001	-0.001	0.006	0.893
PhenoAge	baseline		0.000	0.000	0.449	0.000	0.000	0.408
	follow-up		0.001	0.000	0.125	0.001	0.000	0.126
Hannum	baseline		0.000	0.000	0.384	0.000	0.000	0.487
	follow-up		0.001	0.001	0.072	0.001	0.000	0.131
Age	baseline		0.003	0.001	<0.001	0.002	0.001	0.002
	follow-up		0.004	0.001	<0.001	0.003	0.002	0.129
PhenoAge	baseline	1/1000	-0.001	0.001	0.376	-0.001	0.001	0.408
	follow-up	1/1000	-0.002	0.001	0.085	-0.001	0.001	0.082
Hannum	baseline	1/1000	-0.001	0.001	0.377	-0.001	0.001	0.569
	Hannum Age PhenoAge Hannum Age Hannum Age PhenoAge PhenoAge	PhenoAge baseline follow-up Hannum baseline follow-up Age baseline follow-up PhenoAge baseline follow-up Hannum baseline follow-up Age baseline follow-up PhenoAge baseline follow-up Hannum baseline follow-up PhenoAge baseline follow-up Hannum baseline follow-up	PhenoAgebaseline follow-up follow-upHannumbaseline follow-upAgebaseline follow-upAgebaseline10 follow-up10PhenoAgebaseline10 follow-up10Hannumbaseline10 follow-up10Hannumbaseline10 follow-up10Agebaseline10 follow-up10Agebaseline10 follow-up10PhenoAgebaseline follow-upHannumbaseline follow-upAgebaseline follow-upAgebaseline follow-upAgebaseline follow-upPhenoAgebaseline follow-upAgebaseline follow-upPhenoAgebaseline follow-upFollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-upfollow-up <td>PhenoAge baseline follow-up 0.071 0.059 Hannum baseline 0.050 follow-up 0.070 Age baseline 0.036 follow-up 0.036 PhenoAge baseline 10 0.001 follow-up 10 0.001 Hannum baseline 10 0.001 Age baseline 10 0.007 PhenoAge baseline 0.000 follow-up 0.000 0.001 Hannum baseline 0.000 Hannum baseline 0.000 follow-up 0.001 0.003 follow-up 0.003</td> <td>PhenoAge baseline follow-up 0.071 0.059 0.036 0.039 Hannum baseline 0.050 0.053 follow-up 0.070 0.054 Age baseline -0.003 0.082 follow-up 0.036 0.092 PhenoAge baseline 10 0.001 0.001 follow-up 0.036 0.092 PhenoAge baseline 10 0.001 0.001 follow-up 10 0.001 0.001 0.001 Hannum baseline 10 0.001 0.001 Age baseline 10 0.001 0.002 follow-up 10 0.007 0.002 Age baseline 0.000 0.000 Age baseline 0.001 0.000 Age baseline 0.001 0.000 Hannum baseline - 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		follow-up	1/1000	-0.002	0.001	0.099	-0.002	0.001	0.165
	Age	baseline	1/1000	-0.007	0.002	<0.001	-0.006	0.003	0.047
		follow-up	1/1000	-0.010	0.002	<0.001	-0.010	0.004	0.013
Grip strength	PhenoAge	baseline	1 / 100	-0.006	0.005	0.171	-0.006	0.005	0.192
(N)		follow-up	1/100	0.005	0.005	0.314	0.007	0.005	0.184
	Hannum	baseline	1 / 100	-0.008	0.006	0.183	-0.007	0.006	0.230
		follow-up	1 / 100	-0.001	0.007	0.915	0.000	0.007	0.952
	Age	baseline	1 / 100	-0.019	0.009	0.042	-0.016	0.009	0.087
		follow-up	1 / 100	-0.039	0.012	0.001	-0.036	0.012	0.002
Ankle plantar	PhenoAge	baseline		-0.017	0.038	0.651	-0.018	0.037	0.629
flexion strength		follow-up		-0.014	0.039	0.715	-0.010	0.039	0.798
(N)	Hannum	baseline		-0.053	0.056	0.338	-0.042	0.054	0.436
		follow-up		-0.021	0.056	0.700	-0.018	0.055	0.741
	Age	baseline		-0.199	0.076	0.009	-0.195	0.150	0.194
		follow-up		-0.149	0.078	0.054	-0.235	0.260	0.366
Knee extension	PhenoAge	baseline	1/100	0.002	0.009	0.792	-0.001	0.008	0.928
strength (N)		follow-up	1/100	-0.003	0.009	0.748	-0.005	0.008	0.587
	Hannum	baseline	1 / 100	0.000	0.014	0.986	-0.003	0.012	0.834
		follow-up	1 / 100	-0.005	0.013	0.698	-0.007	0.012	0.561
	Age	baseline	1/100	-0.072	0.017	<0.001	-0.057	0.018	0.001
		follow-up	1 / 100	-0.063	0.016	<0.001	-0.048	0.036	0.183

Note. Covariate set 1 included smoking status, covariate set 2 included smoking status, alcohol consumption and number of chronic conditions. Outcome values were scaled with the multiplier value. Est: adjusted regression coefficient, SE: standard error based on 10 000 bootstrap draws, *p*: expected false positive rate for a single test.

	Eff		Unadjusted			Adjusted for set 1			Adjusted for set 2		
AgeAccel	Time point	Component ^a	Est.	SE	р	Est.	SE	p	Est.	SE	p
GrimAge	baseline	Linear Quadratic	0.164 -0.033	0.084 0.014	0.052 0.018	0.187 -0.029	0.088 0.014	0.034 0.042	0.161 -0.028	0.088 0.014	0.066 0.041
	follow-up	Linear	0.163	0.089	0.067	0.189	0.093	0.042	0.161	0.092	0.082
		Quadratic	-0.036	0.014	0.009	-0.032	0.014	0.026	-0.031	0.014	0.026
Horvath	baseline	Linear	0.109	0.051	0.033	0.114	0.052	0.028	0.111	0.052	0.033
		Quadratic	-0.005	0.007	0.449	-0.005	0.007	0.446	-0.004	0.007	0.542
	follow-up	Linear	0.093	0.055	0.091	0.098	0.055	0.076	0.096	0.055	0.083
		Quadratic	-0.004	0.007	0.561	-0.005	0.007	0.545	-0.003	0.008	0.650
PhenoAge	baseline	Linear	0.087	0.038	0.022	0.085	0.037	0.023	0.083	0.037	0.028
		Quadratic	-0.008	0.004	0.036	-0.008	0.004	0.040	-0.009	0.004	0.029
	follow-up	Linear	0.075	0.041	0.070	0.073	0.041	0.073	0.069	0.040	0.089
		Quadratic	-0.008	0.008	0.072	-0.008	0.004	0.081	-0.008	0.004	0.063
Hannum	baseline	Linear	0.056	0.053	0.288	0.056	0.053	0.294	0.047	0.053	0.376
		Quadratic	-0.006	0.008	0.459	-0.006	0.008	0.475	-0.008	0.008	0.337
	follow-up	Linear	0.076	0.055	0.167	0.075	0.055	0.170	0.067	0.055	0.228
		Quadratic	-0.008	0.008	0.367	-0.007	0.008	0.378	-0.009	0.008	0.274
Age ^b	baseline	Linear	-0.009	0.086	0.922	0.002	0.086	0.981	-0.016	0.087	0.855
		Quadratic	-0.011	0.027	0.702	-0.009	0.027	0.744	-0.014	0.028	0.612
	follow-up	Linear	0.049	0.096	0.606	0.042	0.095	0.662	0.025	0.097	0.793
		Quadratic	-0.012	0.031	0.706	-0.010	0.031	0.746	-0.015	0.031	0.641

Supplementary Table 4. Unadjusted estimates, standard errors, and uncorrected p-values for linear and quadratic effects of four age-acceleration measures and age on body mass index at baseline (N = 413) and at three-year follow-up (N = 298) among older women.

Note. ^aCurvilinear age-acceleration and age associations modelled using second-degree polynomial: $h + h^2$, where h is the linear component and h^2 is the quadratic component. ^bAge was centered. Covariate set 1 included smoking status, covariate set 2 included smoking status, alcohol consumption and number of chronic conditions. Est: adjusted regression coefficient, SE: standard error based on 10 000 bootstrap draws, p: expected false positive rate for a single test.

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