S1 File. Supplementary tables

Table A. Three models on gait speed in later life (fully adjusted).

Predictors	Uncorrected	Bias-corrected	Error-corrected
Constant	$0.716 \pm 0.264^{\dagger}$	$0.803 \pm 0.264^{\dagger}$	$0.745 \pm 0.264^{\dagger}$
Sex, Female	$-0.048 \pm 0.008^{\dagger}$	$-0.049 \pm 0.008^{\dagger}$	$-0.050 \pm 0.008^{\dagger}$
Age	0.006 ± 0.007	0.006 ± 0.007	0.006 ± 0.007
Age^2	$0.000 \pm 0.000^{*}$	$0.000 \pm 0.000^{*}$	$0.000 \pm 0.000^{*}$
Household size	0.007 ± 0.006	0.007 ± 0.006	0.007 ± 0.006
Routine manual	$-0.041 \pm 0.009^{\dagger}$	$-0.039 \pm 0.009^{\dagger}$	$-0.038 \pm 0.009^{\dagger}$
Wealth mid-tertile	$0.043 \pm 0.01^{\dagger}$	$0.041 \pm 0.010^{\dagger}$	$0.041 \pm 0.010^{\dagger}$
Wealth top-tertile	$0.088 \pm 0.011^{\dagger}$	$0.086 \pm 0.011^{\dagger}$	$0.086 \pm 0.011^{\dagger}$
Age left education	$0.006 \pm 0.002^{\dagger}$	$0.005 \pm 0.002^{\dagger}$	$0.005 \pm 0.002^{\dagger}$
Married-cohab.	0.038 ± 0.020	0.038 ± 0.020	0.038 ± 0.020
Separated-div.	0.038 ± 0.023	0.037 ± 0.023	0.038 ± 0.023
Widow	0.034 ± 0.021	0.034 ± 0.021	0.034 ± 0.021
Social support	-0.018 ± 0.037	-0.018 ± 0.037	-0.019 ± 0.037
Social connection	$0.005 \pm 0.001^{\dagger}$	$0.005 \pm 0.001^{\dagger}$	$0.005 \pm 0.001^{\dagger}$
CVD	$-0.024 \pm 0.010^{*}$	$-0.024 \pm 0.010^{*}$	$-0.024 \pm 0.010^{*}$
COPD	$-0.039 \pm 0.011^{\dagger}$	$-0.039 \pm 0.011^{\dagger}$	$-0.039 \pm 0.011^{\dagger}$
Cancer	-0.006 ± 0.015	-0.007 ± 0.015	-0.007 ± 0.015
Smoking	$-0.027 \pm 0.013^{*}$	$-0.026 \pm 0.013^{*}$	$-0.026 \pm 0.013^{*}$
Drinking	$0.020 \pm 0.009^{*}$	$0.020 \pm 0.009^{*}$	$0.019 \pm 0.009^{*}$
Exercise, vigorous	$0.046 \pm 0.011^{\dagger}$	$0.046 \pm 0.011^{\dagger}$	$0.046 \pm 0.011^{\dagger}$
Exercise, moderate	$0.107 \pm 0.008^{\dagger}$	$0.107 \pm 0.008^{\dagger}$	$0.107 \pm 0.008^{\dagger}$
Childhood lack facility	-0.005 ± 0.003	$-0.031 \pm 0.003^{\dagger}$	$-0.035 \pm 0.011^{\dagger}$
RMSE	0.0038	0.0025	0.0037

Source: The English Longitudinal Study of Ageing.

* $p < 0.05$.
† $p < 0.01$.

Table B. Three models on episodic memory in later life (fully adjusted).

Predictors	Uncorrected	Bias-corrected	Error-corrected
Constant	$11.722 \pm 2.118^{\dagger}$	$12.140 \pm 2.118^{\dagger}$	$11.894 \pm 2.118^{\dagger}$
Sex, Female	$0.772 \pm 0.088^{\dagger}$	$0.768 \pm 0.088^{\dagger}$	$0.765 \pm 0.088^{\dagger}$
Age	-0.047 ± 0.058	-0.048 ± 0.058	-0.050 ± 0.058
Age^2	-0.001 ± 0.000	-0.001 ± 0.000	-0.001 ± 0.000
Household size	0.037 ± 0.052	0.036 ± 0.052	0.036 ± 0.052
Routine manual	$-0.632 \pm 0.095^{\dagger}$	$-0.622 \pm 0.095^{\dagger}$	$-0.618 \pm 0.095^{\dagger}$
Wealth mid-tertile	$0.308 \pm 0.109^{\dagger}$	$0.303 \pm 0.109^{\dagger}$	$0.299 \pm 0.109^{\dagger}$
Wealth top-tertile	$0.596 \pm 0.116^{\dagger}$	$0.585 \pm 0.116^{\dagger}$	$0.579 \pm 0.116^{\dagger}$
Age left education	$0.185 \pm 0.019^{\dagger}$	$0.180 \pm 0.019^{\dagger}$	$0.177 \pm 0.019^{\dagger}$
Married-cohab.	0.105 ± 0.203	0.106 ± 0.203	0.105 ± 0.203
Separated-div.	0.137 ± 0.230	0.135 ± 0.229	0.130 ± 0.229
Widow	0.156 ± 0.219	0.156 ± 0.219	0.156 ± 0.219
Social support	0.173 ± 0.399	0.176 ± 0.399	0.175 ± 0.399
Social connection	$0.064 \pm 0.012^{\dagger}$	$0.063 \pm 0.012^{\dagger}$	$0.063 \pm 0.012^{\dagger}$
CVD	-0.083 ± 0.108	-0.084 ± 0.108	-0.085 ± 0.108
COPD	0.170 ± 0.116	0.172 ± 0.116	0.174 ± 0.116
Cancer	0.333 ± 0.177	0.328 ± 0.177	0.323 ± 0.177
Smoking	$-0.351 \pm 0.129^{\dagger}$	$-0.346 \pm 0.129^{\dagger}$	$-0.342 \pm 0.129^{\dagger}$
Drinking	$0.477 \pm 0.091^{\dagger}$	$0.474 \pm 0.091^{\dagger}$	$0.474 \pm 0.091^{\dagger}$
Exercise, vigorous	0.085 ± 0.109	0.086 ± 0.109	0.087 ± 0.109
Exercise, moderate	$0.384 \pm 0.091^{\dagger}$	$0.384 \pm 0.091^{\dagger}$	$0.383 \pm 0.091^{\dagger}$
CESD	$-0.116 \pm 0.024^{\dagger}$	$-0.116 \pm 0.024^{\dagger}$	$-0.116 \pm 0.024^{\dagger}$
Childhood lack facility	-0.054 ± 0.029	$-0.191 \pm 0.029^{\dagger}$	$-0.273 \pm 0.118^{*}$
$RMSE$	0.0406	0.0092	0.0405

Source: The English Longitudinal Study of Ageing.

* $p < 0.05$.
† $p < 0.01$.

Table C. Three models on mental health in later life (fully adjusted).

Predictors	Uncorrected	Bias-corrected	Error-corrected
Constant	2.185 ± 1.229	$2.450 \pm 1.229^{*}$	2.183 ± 1.230
Sex, Female	$-0.318 \pm 0.051^{\dagger}$	$-0.320 \pm 0.051^{\dagger}$	$-0.317 \pm 0.051^{\dagger}$
Age	0.063 ± 0.034	0.062 ± 0.034	0.063 ± 0.034
Age^2	0.000 ± 0.000	0.000 ± 0.000	0.000 ± 0.000
Household size	$0.060 \pm 0.030^{*}$	0.060 ± 0.030	$0.060 \pm 0.030^{*}$
Routine manual	-0.097 ± 0.055	-0.091 ± 0.055	-0.097 ± 0.055
Wealth mid-tertile	$0.287 \pm 0.063^{\dagger}$	$0.283 \pm 0.063^{\dagger}$	$0.287 \pm 0.063^{\dagger}$
Wealth top-tertile	$0.517 \pm 0.067^{\dagger}$	$0.510 \pm 0.067^{\dagger}$	$0.517 \pm 0.067^{\dagger}$
Age left education	0.009 ± 0.011	0.006 ± 0.011	0.009 ± 0.011
Married-cohab.	0.115 ± 0.118	0.116 ± 0.118	0.115 ± 0.118
Separated-div.	-0.211 ± 0.133	-0.213 ± 0.133	-0.212 ± 0.133
Widow	$-0.502 \pm 0.127^{\dagger}$	$-0.502 \pm 0.127^{\dagger}$	$-0.502 \pm 0.127^{\dagger}$
Social support	$1.107 \pm 0.232^{\dagger}$	$1.109 \pm 0.232^{\dagger}$	$1.108 \pm 0.232^{\dagger}$
Social connection	$0.030 \pm 0.007^{\dagger}$	$0.030 \pm 0.007^{\dagger}$	$0.030 \pm 0.007^{\dagger}$
CVD	-0.104 ± 0.063	-0.105 ± 0.063	-0.104 ± 0.063
COPD	$-0.474 \pm 0.067^{\dagger}$	$-0.473 \pm 0.067^{\dagger}$	$-0.474 \pm 0.067^{\dagger}$
Cancer	-0.115 ± 0.103	-0.118 ± 0.103	-0.115 ± 0.103
Smoking	$-0.255 \pm 0.075^{\dagger}$	$-0.252 \pm 0.075^{\dagger}$	$-0.255 \pm 0.075^{\dagger}$
Drinking	$0.132 \pm 0.053^{*}$	$0.130 \pm 0.053^{*}$	$0.132 \pm 0.053^{*}$
Exercise, vigorous	$0.134 \pm 0.064^{*}$	$0.134 \pm 0.064^{*}$	$0.134 \pm 0.064^{*}$
Exercise, moderate	$0.504 \pm 0.053^{\dagger}$	$0.504 \pm 0.053^{\dagger}$	$0.504 \pm 0.053^{\dagger}$
Childhood lack facility	-0.005 ± 0.017	$-0.091 \pm 0.017^{\dagger}$	-0.003 ± 0.017
RMSE	0.0236	0.0206	0.0236

Source: The English Longitudinal Study of Ageing.

* $p < 0.05$.
† $p < 0.01$.

Table D. Three models on gait speed in later life, with adult health (fully adjusted).

Predictors	Uncorrected	Bias-corrected	Error-corrected
Constant	$0.667 \pm 0.262^{*}$	$0.746 \pm 0.262^{\dagger}$	$0.697 \pm 0.262^{\dagger}$
Sex, Female	$-0.049 \pm 0.008^{\dagger}$	$-0.050 \pm 0.008^{\dagger}$	$-0.050 \pm 0.008^{\dagger}$
Age	0.009 ± 0.007	0.009 ± 0.007	0.008 ± 0.007
Age^{2}	$0.000 \pm 0.000^{\dagger}$	$0.000 \pm 0.000^{\dagger}$	$0.000 \pm 0.000^{\dagger}$
Household size	0.004 ± 0.006	0.004 ± 0.006	0.004 ± 0.006
Routine manual	$-0.039 \pm 0.009^{\dagger}$	$-0.037 \pm 0.009^{\dagger}$	$-0.037 \pm 0.009^{\dagger}$
Wealth mid-tertile	$0.039 \pm 0.010^{\dagger}$	$0.037 \pm 0.010^{\dagger}$	$0.037 \pm 0.010^{\dagger}$
Wealth top-tertile	$0.081 \pm 0.011^{\dagger}$	$0.080 \pm 0.011^{\dagger}$	$0.079 \pm 0.011^{\dagger}$
Age left edu	$0.006 \pm 0.002^{\dagger}$	$0.005 \pm 0.002^{\dagger}$	$0.005 \pm 0.002^{\dagger}$
Married-cohab.	$0.040 \pm 0.020^{*}$	$0.040 \pm 0.020^{*}$	$0.040 \pm 0.020^{*}$
Separated-div.	0.040 ± 0.023	0.040 ± 0.023	0.040 ± 0.023
Widow	0.033 ± 0.021	0.033 ± 0.021	0.033 ± 0.021
Social support	-0.023 ± 0.036	-0.023 ± 0.036	-0.023 ± 0.036
Social connection	$0.005 \pm 0.001^{\dagger}$	$0.005 \pm 0.001^{\dagger}$	$0.005 \pm 0.001^{\dagger}$
CVD	$-0.021 \pm 0.010^{*}$	$-0.021 \pm 0.010^{*}$	$-0.021 \pm 0.010^{*}$
COPD	$-0.028 \pm 0.011^{\dagger}$	$-0.027 \pm 0.011^{*}$	$-0.027 \pm 0.011^{*}$
Cancer	0.004 ± 0.015	0.003 ± 0.015	0.003 ± 0.015
Smoking	$-0.027 \pm 0.013^{*}$	$-0.027 \pm 0.013^{*}$	$-0.026 \pm 0.013^{*}$
Drinking	$0.018 \pm 0.009^{*}$	$0.017 \pm 0.009^{*}$	$0.017 \pm 0.009^{*}$
Exercise, vigorous	$0.041 \pm 0.011^{\dagger}$	$0.041 \pm 0.011^{\dagger}$	$0.041 \pm 0.011^{\dagger}$
Exercise, moderate	$0.101 \pm 0.008^{\dagger}$	$0.101 \pm 0.008^{\dagger}$	$0.101 \pm 0.008^{\dagger}$
Childhood lack facility	-0.005 ± 0.003	$-0.029 \pm 0.003^{\dagger}$	$-0.035 \pm 0.011^{\dagger}$
Adult illness episodes	$-0.032 \pm 0.004^{\dagger}$	$-0.032 \pm 0.004^{\dagger}$	$-0.032 \pm 0.004^{\dagger}$
$RMSE$	0.0038	0.0006	0.0037

Source: The English Longitudinal Study of Ageing 2006.

* $p < 0.05$.
† $p < 0.01$.

Table E. Three models on episodic memory in later life, with adult health (fully adjusted).

Predictors	Uncorrected	Bias-corrected	Error-corrected
Constant	$11.750 \pm 2.120^{\dagger}$	$12.174 \pm 2.120^{\dagger}$	$11.927 \pm 2.120^{\dagger}$
Sex, Female	$0.772 \pm 0.088^{\dagger}$	$0.769 \pm 0.088^{\dagger}$	$0.766 \pm 0.088^{\dagger}$
Age	-0.048 ± 0.058	-0.050 ± 0.058	-0.052 ± 0.058
Age^2	-0.001 ± 0.000	-0.001 ± 0.000	-0.001 ± 0.000
Household size	0.037 ± 0.052	0.037 ± 0.052	0.037 ± 0.052
Routine manual	$-0.633 \pm 0.095^{\dagger}$	$-0.623 \pm 0.095^{\dagger}$	$-0.618 \pm 0.095^{\dagger}$
Wealth mid-tertile	$0.310 \pm 0.109^{\dagger}$	$0.305 \pm 0.109^{\dagger}$	$0.301 \pm 0.109^{\dagger}$
Wealth top-tertile	$0.598 \pm 0.116^{\dagger}$	$0.587 \pm 0.116^{\dagger}$	$0.582 \pm 0.116^{\dagger}$
Age left edu	$0.184 \pm 0.019^{\dagger}$	$0.18 \pm 0.0190^{\dagger}$	$0.177 \pm 0.019^{\dagger}$
Married-cohab.	0.105 ± 0.203	0.106 ± 0.203	0.105 ± 0.203
Separated-div.	0.137 ± 0.229	0.135 ± 0.229	0.130 ± 0.229
Widow	0.158 ± 0.219	0.158 ± 0.219	0.158 ± 0.219
Social support	0.175 ± 0.399	0.177 ± 0.399	0.177 ± 0.399
Social connection	$0.064 \pm 0.012^{\dagger}$	$0.063 \pm 0.012^{\dagger}$	$0.063 \pm 0.012^{\dagger}$
CVD	-0.084 ± 0.108	-0.086 ± 0.108	-0.086 ± 0.108
COPD	0.166 ± 0.117	0.168 ± 0.117	0.169 ± 0.116
Cancer	0.329 ± 0.178	0.323 ± 0.178	0.319 ± 0.178
Smoking	$-0.351 \pm 0.129^{\dagger}$	$-0.346 \pm 0.129^{\dagger}$	$-0.341 \pm 0.129^{\dagger}$
Drinking	$0.478 \pm 0.091^{\dagger}$	$0.475 \pm 0.091^{\dagger}$	$0.475 \pm 0.091^{\dagger}$
Exercise, vigorous	0.087 ± 0.110	0.088 ± 0.110	0.089 ± 0.110
Exercise, moderate	$0.386 \pm 0.091^{\dagger}$	$0.386 \pm 0.091^{\dagger}$	$0.385 \pm 0.091^{\dagger}$
Childhood lack facility	$-0.118 \pm 0.024^{\dagger}$	$-0.117 \pm 0.024^{\dagger}$	$-0.117 \pm 0.024^{\dagger}$
Adult illness episodes	-0.054 ± 0.029	$-0.192 \pm 0.029^{\dagger}$	$-0.273 \pm 0.118^{*}$
RMSE	0.0406	0.0189	0.0405

Source: The English Longitudinal Study of Ageing.

* $p < 0.05$.
† $p < 0.01$.

Table F. Three models on mental health in later life, with adult health (fully adjusted)

Predictors	Uncorrected	Bias-corrected	Error-corrected
Constant	1.676 ± 1.209	1.871 ± 1.209	1.664 ± 1.210
Sex, Female	$-0.317 \pm 0.050^{\dagger}$	$-0.318 \pm 0.050^{\dagger}$	$-0.316 \pm 0.050^{\dagger}$
Age	$0.089 \pm 0.033^{\dagger}$	$0.088 \pm 0.033^{\dagger}$	$0.089 \pm 0.033^{\dagger}$
Age^2	$-0.001 \pm 0.000^{*}$	$-0.001 \pm 0.000^{*}$	$-0.001 \pm 0.000^{*}$
Household size	0.042 ± 0.030	0.042 ± 0.030	0.042 ± 0.030
Routine manual	-0.084 ± 0.054	-0.079 ± 0.054	-0.084 ± 0.054
Wealth mid-tertile	$0.236 \pm 0.062^{\dagger}$	$0.233 \pm 0.062^{\dagger}$	$0.236 \pm 0.062^{\dagger}$
Wealth top-tertile	$0.442 \pm 0.066^{\dagger}$	$0.437 \pm 0.066^{\dagger}$	$0.442 \pm 0.066^{\dagger}$
Age left edu	0.010 ± 0.011	0.008 ± 0.011	0.010 ± 0.011
Married-cohab.	0.109 ± 0.116	0.109 ± 0.116	0.108 ± 0.116
Separated-div.	-0.205 ± 0.131	-0.206 ± 0.131	-0.205 ± 0.131
Widow	$-0.528 \pm 0.125^{\dagger}$	$-0.528 \pm 0.125^{\dagger}$	$-0.529 \pm 0.125^{\dagger}$
Social support	$1.037 \pm 0.228^{\dagger}$	$1.038 \pm 0.228^{\dagger}$	$1.037 \pm 0.228^{\dagger}$
Social connection	$0.030 \pm 0.007^{\dagger}$	$0.030 \pm 0.007^{\dagger}$	$0.030 \pm 0.007^{\dagger}$
CVD	-0.071 ± 0.062	-0.072 ± 0.062	-0.071 ± 0.062
COPD	$-0.359 \pm 0.066^{\dagger}$	$-0.358 \pm 0.066^{\dagger}$	$-0.359 \pm 0.066^{\dagger}$
Cancer	-0.005 ± 0.102	-0.008 ± 0.102	-0.005 ± 0.102
Smoking	$-0.262 \pm 0.074^{\dagger}$	$-0.260 \pm 0.074^{\dagger}$	$-0.262 \pm 0.074^{\dagger}$
Drinking	0.099 ± 0.052	0.098 ± 0.052	0.100 ± 0.052
Exercise, vigorous	0.079 ± 0.063	0.080 ± 0.063	0.079 ± 0.063
Exercise, moderate	$0.443 \pm 0.052^{\dagger}$	$0.443 \pm 0.052^{\dagger}$	$0.443 \pm 0.052^{\dagger}$
Childhood lack facility	-0.011 ± 0.016	$-0.074 \pm 0.016^{\dagger}$	-0.008 ± 0.017
Adult illness episodes	$-0.318 \pm 0.024^{\dagger}$	$-0.317 \pm 0.024^{\dagger}$	$-0.318 \pm 0.024^{\dagger}$
$RMSE$	0.0232	0.0107	0.0232

Source: The English Longitudinal Study of Ageing.

* $p < 0.05$.
† $p < 0.01$.