

Research Design, Methods, and Supplementary Analyses

Health and Retirement Study (HRS)

Panel data from the 2004-2012 waves of the (HRS) were used (Health and Retirement Study, 2014). The HRS is sponsored by the National Institute on Aging and conducted by the University of Michigan. Multistage stratified panel data on individuals over 50 years of age are collected, with oversamples of Black adults, Hispanic adults, and Floridians. By 2004, the HRS was comprised of five cohorts (e.g., War Babies Cohort, Early Baby Boomers Cohort). Core interviews take place every two years via in-person interviews, telephone calls, self-administered mail-back questionnaires, and Internet surveys. The core survey includes data on health, health services, economic status, and family structure. The HRS also collects data on physical measures, genetics, and psychosocial factors. Beginning in 1994, response rates for all waves have been at least 85%.

Childhood Misfortune Variables

The five domains of misfortune were composed of twenty-seven dichotomous indicators. Infectious disease included measles, mumps, and chicken pox (3 indicators). Chronic disease was comprised of 11 indicators: asthma, diabetes, respiratory disorder, allergies, heart trouble, ear problems, seizures, migraines, stomach problems, high blood pressure, and self-rated health. Childhood impairment included childhood disability, head injury, speech impairment, vision impairment, and learning problems (5 indicators). SES was also built with 5 indicators of paternal education, maternal education, whether or not the child's family ever moved due to finances before 16, paternal occupation, and perception of family SES before 16. Finally, risky parental behavior included whether parent/guardian smoked, parent substance abuse, and parent physical abuse (3 indicators).

Adult Covariates

Adult SES was represented by wealth (cube root transformation of sum of wealth less total debt) and educational attainment (years of schooling). Adult psychosocial factors included marital status (1, married)

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and depressive symptoms (Center for Epidemiologic Studies Depression Scale). Physical activity (1, exercise at least once a week), smoking status (never, former, current smoker), body mass index (BMI; kg/m²), and a sum of seven comorbid chronic conditions were included to adjust for adult health and lifestyle. We also examined intermediate variables of occupation (manual, service, or professional work) and alcohol use (drinks per week), but they were removed for parsimony after being non-significant in early analyses. Correlations between covariates were modest, the largest being between variables of education and wealth ($r=0.36$) and marital status and wealth ($r=0.30$).

Supplementary Analyses

Additional analyses were completed. First, corresponding male and female coefficients were tested using adjusted Wald tests for each model and time period using Holm's adjustment for multiple comparisons. These tests determine whether the associations of independent variables and HGS are significantly different between men and women ($H_0: \beta_{\text{women}} = \beta_{\text{men}}$). Significant gender differences are indicated by italicized coefficients in Tables S3 and S4. Coefficients differed by gender for Black Americans at T1 (Models 1 and 2) and for Hispanic Americans at T2 (Models 1 and 2). Over both time periods, the linear effect of age differed by gender. These effects were all negative and had greater magnitude in men than women.

We also estimated models using each domain of misfortune to independently predict HGS with age, age², race/ethnicity, and immigration status. The findings confirmed the results presented herein.

Finally, given attrition over the study period, selection bias models were estimated using unique predictors of selective survival (Heckman, 1979). We estimated a probit model predicting survival until the 2012 interview using variables from 2004 and 2006 that are not in our substantive models (change in self-rated health, change in activities of daily living, onset of a memory related disease in the previous two years, change in the number of health conditions, hospital stay in the last two years, receiving home health care in the last two years, subjective probability of living to an age of 80 to 100, medical expenses, and difficulties with activities of daily living and instrumental activities of daily living). Variables known to predict survival were also included (age, race and ethnicity, BMI, smoking, wealth, and depression). We then used the results from

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the probit model to create a variable to express mortality risk (λ) based on the inverse Mills ratio. When added to T2, Model 3 in Table 2, the mortality λ was nonsignificant, indicating parameter estimates were not biased by nonrandom mortality.

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Table S1. Descriptive Statistics for Men from the Health and Retirement Study (2004-2012)

Variable	Range	Non-Hispanic White (n=3,713)		Non-Hispanic Black (n=438)		Hispanic (n=308)	
		Mean	SD	Mean	SD	Mean	SD
<i>Dependent Variables</i>							
Time 1 HGS (kg)	0.50 – 74.75	<i>37.71^a</i>	9.19	<i>37.25</i>	9.67	<i>34.92</i>	8.63
Time 2 HGS (kg) ^b	6.5 – 70.25	<i>35.41</i>	9.13	<i>35.81</i>	8.54	<i>32.55</i>	8.35
<i>Demographics</i>							
Age (Time 1)	52 – 97	<i>69.14</i>	9.46	<i>66.76</i>	8.75	<i>65.85</i>	8.52
Age (Time 2) ^c	56 – 99	<i>72.18</i>	8.95	<i>69.79</i>	8.24	<i>69.71</i>	8.19
Immigrant	0,1	<i>0.05</i>	^d	<i>0.07</i>		<i>0.54</i>	
<i>Childhood Misfortune</i>							
Infectious Disease (= 0) ^e	0,1	<i>0.07</i>		<i>0.14</i>		<i>0.28</i>	
Infectious Disease (=1)	0,1	<i>0.13</i>		<i>0.16</i>		<i>0.23</i>	
Infectious Disease (=2+)	0,1	<i>0.80</i>		<i>0.70</i>		<i>0.49</i>	
Chronic Disease (=0) ^e	0,1	<i>0.70</i>		<i>0.74</i>		<i>0.69</i>	
Chronic Disease (=1)	0,1	<i>0.21</i>		<i>0.17</i>		<i>0.24</i>	
Chronic Disease (=2+)	0,1	<i>0.09</i>		<i>0.09</i>		<i>0.07</i>	
Impairment (=0) ^e	0,1	<i>0.77</i>		<i>0.81</i>		<i>0.87</i>	
Impairment (=1)	0,1	<i>0.19</i>		<i>0.16</i>		<i>0.11</i>	
Impairment (=2+)	0,1	<i>0.04</i>		<i>0.03</i>		<i>0.02</i>	
SES (=0) ^e	0,1	<i>0.24</i>		<i>0.14</i>		<i>0.11</i>	
SES (=1)	0,1	<i>0.21</i>		<i>0.18</i>		<i>0.13</i>	
SES (=2+)	0,1	<i>0.55</i>		<i>0.68</i>		<i>0.76</i>	
Parental Behavior (=0) ^e	0,1	<i>0.27</i>		<i>0.38</i>		<i>0.32</i>	
Parental Behavior (=1)	0,1	<i>0.59</i>		<i>0.51</i>		<i>0.57</i>	
Parental Behavior (=2+)	0,1	<i>0.14</i>		<i>0.11</i>		<i>0.11</i>	
<i>Adult Characteristics</i>							
<i>Socioeconomic Status</i>							
Education (years)	0 – 17	<i>13.54</i>	2.70	<i>12.15</i>	3.00	<i>10.12</i>	4.31
Wealth	-12.60 – 31.58	<i>6.87</i>	3.48	<i>4.00</i>	3.23	<i>4.21</i>	3.06
<i>Psychosocial Factors</i>							
Depressive Symptoms	0 – 8	<i>0.93</i>	1.55	<i>1.42</i>	1.85	<i>1.39</i>	1.85
Married	0,1	<i>0.84</i>		<i>0.68</i>		<i>0.82</i>	
<i>Health Factors</i>							
BMI	16.4 – 57.4	<i>27.80</i>	4.63	<i>28.45</i>	5.12	<i>28.50</i>	4.70
Never Smoker ^e	0,1	<i>0.33</i>		<i>0.31</i>		<i>0.30</i>	
Former Smoker	0,1	<i>0.54</i>		<i>0.46</i>		<i>0.53</i>	
Current Smoker	0,1	<i>0.13</i>		<i>0.23</i>		<i>0.17</i>	
Physical Activity	0,1	<i>0.37</i>		<i>0.26</i>		<i>0.32</i>	
Chronic Conditions	0 – 7	<i>1.66</i>	1.29	<i>1.68</i>	1.26	<i>1.30</i>	1.13

Notes: SD=standard deviation.

^a Italicized coefficients indicate significant differences in means or proportions at the 0.05 level.

^b N of cases = 2,801; 311; and 210 at Time 2 measurements due to attrition

^c Centered around mean age of the sample (68.67 and 71.57 years at Time 1 and Time 2, respectively).

^d SD of dichotomous variables omitted.

^e Reference group.

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Table S2. Descriptive Statistics for Women from the Health and Retirement Study (2004-2012)

Variable	Range	Non-Hispanic White (n=5,046)		Non-Hispanic Black (n=855)		Hispanic (n=502)	
		Mean	SD	Mean	SD	Mean	SD
<i>Dependent Variables</i>							
Time 1 HGS (kg)	0.38 – 45.38	22.13 ^a	5.82	24.09	6.27	20.78	5.55
Time 2 HGS (kg) ^b	0.5 – 44.13	21.20	5.69	23.30	5.85	19.41	5.67
<i>Demographics</i>							
Age (Time 1)	52 – 100	69.31	9.69	66.91	9.02	66.55	9.00
Age (Time 2) ^c	56 – 100	72.13	8.87	69.90	8.20	69.90	8.57
Immigrant	0,1	0.05	^d	0.05		0.53	
<i>Childhood Misfortune</i>							
Infectious Disease (= 0) ^e	0,1	0.05		0.09		0.17	
Infectious Disease (=1)	0,1	0.12		0.18		0.25	
Infectious Disease (=2+)	0,1	0.83		0.73		0.58	
Chronic Disease (=0) ^e	0,1	0.65		0.72		0.72	
Chronic Disease (=1)	0,1	0.22		0.16		0.17	
Chronic Disease (=2+)	0,1	0.13		0.12		0.11	
Impairment (=0) ^e	0,1	0.83		0.85		0.90	
Impairment (=1)	0,1	0.15		0.13		0.09	
Impairment (=2+)	0,1	0.02		0.02		0.01	
SES (=0) ^e	0,1	0.21		0.14		0.09	
SES (=1)	0,1	0.20		0.21		0.15	
SES (=2+)	0,1	0.59		0.65		0.76	
Parental Behavior (=0) ^e	0,1	0.29		0.45		0.40	
Parental Behavior (=1)	0,1	0.55		0.47		0.51	
Parental Behavior (=2+)	0,1	0.16		0.08		0.09	
<i>Adult Characteristics</i>							
<i>Socioeconomic Status</i>							
Education (years)	0 – 17	13.04	2.37	12.28	2.70	9.05	4.38
Wealth	-8.20 – 31.57	6.40	3.41	3.27	2.68	3.69	2.89
<i>Psychosocial Factors</i>							
Depressive Symptoms	0-8	1.32	1.85	1.79	2.12	2.31	2.52
Married	0,1	0.64		0.40		0.60	
<i>Health Factors</i>							
BMI	9.6 – 61.3	27.05	5.74	30.47	6.66	28.90	5.93
Never Smoker ^e	0,1	0.51		0.51		0.60	
Former Smoker	0,1	0.36		0.33		0.29	
Current Smoker	0,1	0.13		0.16		0.11	
Physical Activity	0,1	0.29		0.18		0.20	
Chronic Conditions	0 – 7	1.62	1.19	1.92	1.21	1.53	1.18

Notes: SD=standard deviation.

^a Italicized coefficients indicate significant differences in means or proportions at the 0.05 level.

^b N of cases = 3,634; 595; and 343 at Time 2 measurements due to attrition

^c Centered around mean age of the sample (68.77 and 71.67 years at Time 1 and Time 2, respectively).

^d SD of dichotomous variables omitted.

^e Reference group.

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Table S3. OLS Regression Analysis of Hand-Grip Strength in Men

Independent Variables	Time 1 (n=4,459)						Time 2 (n=3,322)					
	Model 1		Model 2		Model 3		Model 1		Model 2		Model 3	
	b	SE	b	SE	b	SE	b	SE	b	SE	b	SE
Black	<i>-1.788**</i> ^{a,b}	0.532 ^c	<i>-1.526*</i>	0.548	-0.418	0.494	0.252	0.377	0.394	0.381	0.786	0.410
Hispanic	<i>-3.981***</i>	0.812	<i>-3.614***</i>	0.788	<i>-3.281***</i>	0.722	<i>-2.401***</i>	0.476	<i>-2.274***</i>	0.445	<i>-1.921***</i>	0.470
Immigrant	<i>-1.810**</i>	0.650	<i>-1.548*</i>	0.642	<i>-1.880**</i>	0.622	0.528	0.400	0.680	0.400	0.506	0.396
Age	<i>-0.524***</i>	0.015	<i>-0.508***</i>	0.017	<i>-0.457***</i>	0.021	<i>-0.216***</i>	0.017	<i>-0.207***</i>	0.018	<i>-0.219***</i>	0.020
Age ²	<i>-0.005**</i>	0.002	<i>-0.005**</i>	0.002	<i>-0.003*</i>	0.002	<i>-0.003</i>	0.001	<i>-0.003*</i>	0.001	<i>-0.003</i>	0.001
Time 1 HGS							<i>0.687***</i>	0.020	<i>0.685***</i>	0.020	<i>0.667***</i>	0.019
Infectious Disease (=1) ^d			0.859	0.771	0.623	0.741			-0.178	0.393	-0.401	0.397
Infectious Disease (=2+)			1.493*	0.648	1.056	0.616			0.473	0.377	0.245	0.392
Chronic Disease (=1) ^d			-0.532	0.452	-0.476	0.420			-0.133	0.227	-0.076	0.225
Chronic Disease (=2+)			-1.618*	0.682	-1.237	0.648			0.331	0.439	0.335	0.432
Impairment (=1) ^d			-0.408	0.375	-0.094	0.367			-0.709*	0.288	-0.600*	0.277
Impairment (=2+)			-1.266	1.034	-0.395	0.891			-0.210	1.047	0.213	1.064
SES (=1) ^d			-0.394	0.441	-0.190	0.436			-0.499	0.437	-0.304	0.424
SES (=2+)			-0.829*	0.369	-0.382	0.325			-0.624*	0.311	-0.279	0.327
Parental Behavior (=1) ^d			0.074	0.357	0.266	0.324			-0.083	0.268	0.003	0.265
Parental Behavior (=2+)			0.501	0.424	0.908*	0.396			0.147	0.364	0.357	0.372
Education					-0.059	0.065					0.067	0.052
Wealth					0.206***	0.043					0.094*	0.038
BMI					0.209***	0.035					0.002	0.032
Former Smoker ^e					0.341	0.279					0.427	0.267
Current Smoker ^e					-0.445	0.381					-0.474	0.368
Physical Activity					1.317***	0.342					0.572*	0.227
Depressive Symptoms					-0.358**	0.121					-0.174*	0.085
Married					1.162**	0.440					-0.508	0.355
Chronic Conditions					<i>-1.072***</i>	0.136					-0.235	0.128
Constant	38.847***	0.228	38.336	0.818	32.063***	1.697	9.165***	0.833	9.508***	0.867	8.952***	1.367
R ²	0.2831		0.2899		0.3379		0.6421		0.6445		0.6518	

Notes ^a Unstandardized coefficient. ^b Italicized coefficient denotes significant gender differences (p<0.05) compared to Table 3. ^c Standard error. ^d Reference group for each domain is no misfortune. ^e Reference group is never smoker. * p<0.05; ** p<0.01; *** p<0.001

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Table S4. OLS Regression Analysis of Hand-Grip Strength in Women

Independent Variables	Time 1 (n=6,403)						Time 2 (n=4,572)					
	Model 1		Model 2		Model 3		Model 1		Model 2		Model 3	
	b	SE	b	SE	b	SE	b	SE	b	SE	b	SE
Black	<i>0.616^{a,b}</i>	0.309 ^c	<i>0.574</i>	0.315	<i>1.248***</i>	0.277	0.383	0.212	0.402	0.211	0.502*	0.230
Hispanic	<i>-2.655***</i>	0.357	<i>-2.701***</i>	0.361	<i>-1.889***</i>	0.340	<i>-0.669*</i>	0.313	<i>-0.695*</i>	0.312	<i>-0.697*</i>	0.304
Immigrant	-0.147	0.340	-0.155	0.339	-0.151	0.332	-0.177	0.213	-0.154	0.212	-0.184	0.210
Age	<i>-0.307***</i>	0.008	<i>-0.312***</i>	0.009	<i>-0.279***</i>	0.009	<i>-0.139***</i>	0.008	<i>-0.140***</i>	0.008	<i>-0.140***</i>	0.009
Age ²	<i>-0.002*</i>	0.001	<i>-0.002*</i>	0.001	<i>-0.001</i>	0.001	<i>-0.001</i>	0.001	<i>-0.001</i>	0.001	<i>-0.001*</i>	0.001
Time 1 HGS							<i>0.676***</i>	0.015	<i>0.674***</i>	0.015	<i>0.665***</i>	0.015
Infectious Disease (=1) ^d			0.171	0.403	-0.092	0.398			-0.270	0.304	-0.299	0.300
Infectious Disease (=2+)			0.221	0.321	-0.042	0.329			-0.119	0.266	-0.137	0.260
Chronic Disease (=1) ^d			-0.234	0.231	-0.123	0.218			-0.174	0.177	-0.144	0.179
Chronic Disease (=2+)			<i>-0.566**</i>	0.212	-0.269	0.226			-0.404	0.241	-0.348	0.237
Impairment (=1) ^d			-0.259	0.212	-0.193	0.214			0.043	0.180	0.048	0.173
Impairment (=2+)			-0.649	0.742	-0.253	0.745			-0.774	0.474	-0.676	0.485
SES (=1) ^d			0.075	0.219	0.414	0.229			-0.081	0.234	-0.020	0.227
SES (=2+)			0.091	0.194	<i>0.634**</i>	0.206			-0.060	0.209	0.030	0.201
Parental Behavior (=1) ^d			-0.054	0.171	-0.066	0.166			0.105	0.125	0.107	0.130
Parental Behavior (=2+)			-0.180	0.230	-0.016	0.245			0.126	0.181	0.143	0.180
Education					<i>0.094**</i>	0.029					-0.013	0.028
Wealth					<i>0.111***</i>	0.028					0.019	0.027
BMI					<i>0.072***</i>	0.016					0.006	0.012
Former Smoker ^e					0.076	0.177					0.115	0.129
Current Smoker ^e					0.285	0.250					-0.332	0.231
Physical Activity					<i>1.035***</i>	0.182					<i>0.307*</i>	0.134
Depressive Symptoms					<i>-0.198***</i>	0.049					-0.003	0.030
Married					-0.009	0.161					-0.207	0.119
Chronic Conditions					<i>-0.534***</i>	0.079					<i>-0.155*</i>	0.071
Constant	<i>22.856***</i>	0.144	<i>22.819***</i>	0.401	<i>19.425***</i>	0.658	<i>6.076***</i>	0.385	<i>6.326***</i>	0.537	<i>6.641***</i>	0.820
R ²	0.2785		0.2805		0.3148		0.6418		0.6430		0.6453	

Notes ^a Unstandardized coefficient. ^b Italicized coefficient denotes significant gender differences (p<0.05) compared to Table 3. ^c Standard error. ^d Reference group for each domain is no misfortune. ^e Reference group is never smoker. * p<0.05; ** p<0.01; *** p<0.001

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Table S5: OLS Regression Analysis of Baseline HGS in Men Including Interaction Terms (n=4,459)

Misfortune Interacted:	Infectious Disease		Chronic Disease		Impairment		SES		Parental Behavior	
Independent Variables	b	SE	b	SE	b	SE	b	SE	b	SE
Black	0.059 ^a	1.759 ^b	-0.239	0.696	-0.265	0.585	-2.344	1.179	-1.678	0.855
Hispanic	-3.186	1.366	-3.425	0.948	-3.349	0.810	-2.633	1.211	-3.585	0.987
Immigrant	-1.850	0.600	-1.867	0.623	-1.874	0.654	-1.863	0.615	-1.857	0.618
Age	-0.457	0.021	-0.457	0.021	-0.457	0.021	-0.457	0.021	-0.457	0.021
Age ²	-0.003	0.002	-0.003	0.002	-0.003	0.001	-0.003	0.002	-0.003	0.002
<i>Childhood Misfortune^c</i>										
Infectious Disease (=1)	1.036	0.838	0.637	0.746	0.602	0.743	0.588	0.735	0.582	0.734
Infectious Disease (=2+)	1.100	0.723	1.053	0.613	1.030	0.625	1.022	0.618	1.029	0.618
Chronic Disease (=1)	-0.481	0.423	-0.510	0.453	-0.470	0.422	-0.473	0.419	-0.474	0.419
Chronic Disease (=2+)	-1.188	0.646	-1.109	0.712	-1.244	0.652	-1.234	0.650	-1.238	0.649
Impairment (=1)	-0.093	0.367	-0.097	0.366	-0.027	0.392	-0.104	0.364	-0.065	0.366
Impairment (=2+)	-0.412	0.903	-0.373	0.897	-0.537	0.969	-0.411	0.894	-0.390	0.890
SES (=1)	-0.190	0.436	-0.188	0.436	-0.198	0.434	-0.294	0.449	-0.206	0.434
SES (=2+)	-0.384	0.330	-0.375	0.324	-0.384	0.325	-0.480	0.350	-0.391	0.326
Parental Behavior (=1)	0.271	0.323	0.272	0.323	0.259	0.325	0.257	.0329	0.118	0.362
Parental Behavior (=2+)	0.929	0.396	0.903	0.399	0.900	0.392	0.907	0.399	0.587	0.436
<i>Adult Covariates</i>										
Education	-0.062	0.066	-0.057	0.065	-0.060	0.066	-0.059	0.066	-0.063	0.065
Wealth	0.208	0.043	0.207	0.043	0.208	0.044	0.204	0.043	0.205	0.043
BMI	0.207	0.035	0.211	0.035	0.209	0.035	0.208	0.035	0.209	0.035
Former Smoker ^d	0.319	0.279	0.330	0.278	0.344	0.279	0.331	0.278	0.329	0.280
Current Smoker ^d	-0.461	0.380	-0.441	0.384	-0.450	0.375	-0.439	0.388	-0.477	0.387
Physical Activity	1.314	0.342	1.324	0.340	1.307	0.340	1.316	0.342	1.308	0.341
Depressive Symptoms	-0.354	0.120	-0.359	0.122	-0.361	0.121	-0.365	0.121	-0.364	0.120
Married	1.173	0.439	1.156	0.441	1.152	0.443	1.135	0.439	1.180	0.444
Chronic Conditions	-1.072	0.135	-1.071	0.136	-1.070	0.135	-1.074	0.136	-1.078	0.138
<i>Interaction Terms^e</i>										
Black*CM ^f (=1)	-3.543	2.348	0.328	1.957	-1.639	1.459	2.535	1.436	1.458	1.171
Hispanic*CM (=1)	-0.780	1.601	0.287	1.508	0.810	2.353	-0.828	1.588	0.271	1.191
Black*CM (=2+)	0.121	1.828	-2.857	2.247	2.750	2.208	2.318	1.229	3.909	1.490
Hispanic*CM (=2+)	0.057	1.567	1.606	1.978	-1.625	2.644	-0.728	1.375	0.861	2.052
Constant	32.025	1.743	31.972	1.713	32.100	1.695	32.237	1.697	32.286	1.678
R ²	0.3392		0.3385		0.3385		0.3386		0.3390	

Notes: ^a Unstandardized coefficient. ^b Standard error. ^c Reference group is no misfortune. ^d Reference group is never smoker.

^e The joint significance of the four product term interactions was assessed in each of the 5 models. Due to the high number of related hypothesis tests being conducted (20 total: 5 per gender and time period), the critical value for significance was adjusted to control for the family-wise error rate using a step-down procedure (Benjamini and Liu, 1999). None of the product-term groups contributed significantly to the model (adjusted significance cutoff: 0.00256). ^f CM – childhood misfortune.

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Table S6: OLS Regression Analysis of Longitudinal HGS in Men Including Interaction Terms (n=3,322)

Misfortune Interacted:	Infectious Disease		Chronic Disease		Impairment		SES		Parental Behavior	
Independent Variables	b	SE	b	SE	b	SE	b	SE	b	SE
Black	0.485 ^a	0.784 ^b	0.566	0.380	0.915	0.446	0.083	1.146	0.926	0.624
Hispanic	-0.416	0.849	-1.583	0.559	-1.771	0.530	-1.582	1.166	-1.778	0.813
Immigrant	0.507	0.403	0.477	0.379	0.478	0.393	0.518	0.400	0.478	0.391
Age	-0.218	0.020	-0.219	0.020	-0.219	0.020	-0.219	0.020	-0.219	0.020
Age ²	-0.003	0.001	-0.003	0.001	-0.003	0.001	-0.003	0.001	-0.003	0.001
Time 1 HGS	0.667	0.019	0.668	0.019	0.667	0.019	0.667	0.019	0.668	0.019
<i>Childhood Misfortune^c</i>										
Infectious Disease (=1)	-0.225	0.505	-0.411	0.396	-0.393	0.401	-0.414	0.393	-0.420	0.401
Infectious Disease (=2+)	0.502	0.480	0.230	0.389	0.245	0.393	0.231	0.387	0.226	0.391
Chronic Disease (=1)	-0.085	0.225	-0.065	0.249	-0.071	0.226	-0.072	0.226	-0.069	0.226
Chronic Disease (=2+)	0.315	0.428	0.337	0.469	0.343	0.438	0.348	0.431	0.345	0.433
Impairment (=1)	-0.607	0.278	-0.597	0.274	-0.560	0.291	-0.593	0.279	-0.608	0.277
Impairment (=2+)	0.225	1.067	0.214	1.065	0.324	1.114	0.197	1.063	0.208	1.067
SES (=1)	-0.313	0.425	-0.302	0.423	-0.308	0.415	-0.386	0.438	-0.294	0.423
SES (=2+)	-0.283	0.327	-0.275	0.328	-0.280	0.327	-0.253	0.356	-0.272	0.327
Parental Behavior (=1)	0.008	0.267	-0.006	0.265	0.003	0.265	-0.001	0.265	0.007	0.283
Parental Behavior (=2+)	0.359	0.374	0.361	0.375	0.353	0.374	0.353	0.374	0.449	0.404
<i>Adult Covariates</i>										
Education	0.069	0.052	0.067	0.052	0.067	0.052	0.068	0.052	0.071	0.053
Wealth	0.094	0.038	0.094	0.038	0.095	0.038	0.094	0.038	0.095	0.038
BMI	0.003	0.032	0.001	0.032	0.003	0.032	0.002	0.032	0.001	0.032
Former Smoker ^d	0.434	0.265	0.438	0.266	0.426	0.267	0.426	0.266	0.418	0.271
Current Smoker ^d	-0.470	0.362	-0.479	0.369	-0.479	0.367	-0.479	0.368	-0.483	0.372
Physical Activity	0.573	0.227	0.568	0.228	0.571	0.227	0.580	0.226	0.570	0.228
Depressive Symptoms	-0.177	0.082	-0.173	0.084	-0.174	0.085	-0.170	0.084	-0.171	0.085
Married	-0.509	0.356	-0.510	0.351	-0.514	0.353	-0.497	0.354	-0.521	0.353
Chronic Conditions	-0.235	0.129	-0.237	0.128	-0.233	0.129	-0.232	0.128	-0.231	0.129
<i>Interaction Terms^e</i>										
Black*CM ^f (=1)	0.819	1.771	0.159	0.775	-0.432	1.056	1.907	1.478	-0.158	1.049
Hispanic*CM (=1)	-1.110	1.269	-0.472	1.196	-0.732	1.194	0.196	1.519	0.308	1.128
Black*CM (=2+)	0.275	0.848	1.850	2.523	-1.328	2.380	0.429	1.422	-0.428	0.897
Hispanic*CM (=2+)	-2.272	1.102	-3.629	1.799	-3.592	1.609	-0.534	1.325	-1.745	1.729
Constant	8.690	1.405	8.982	1.374	8.934	1.375	8.957	1.364	8.899	1.377
R ²	0.6522		0.6523		0.6519		0.6521		0.6520	

Notes: ^a Unstandardized coefficient. ^b Standard error. ^c Reference group is no misfortune. ^d Reference group is never smoker.

^e The joint significance of the four product term interactions was assessed in each of the 5 models. Due to the high number of related hypothesis tests being conducted (20 total: 5 per gender and time period), the critical value for significance was adjusted to control for the family-wise error rate using a step-down procedure (Benjamini and Liu, 1999). None of the product-term groups contributed significantly to the model (adjusted significance cutoff: 0.00256). ^f CM – Childhood misfortune.

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Table S7: OLS Regression Analysis of Baseline HGS in Women Including Interaction Terms (n=6,403)

Misfortune Interacted:	Infectious Disease		Chronic Disease		Impairment		SES		Parental Behavior	
Independent Variables	b	SE	b	SE	b	SE	b	SE	b	SE
Black	1.635 ^a	0.712 ^b	1.354	0.322	1.260	0.294	0.583	0.824	1.305	0.468
Hispanic	-0.383	0.790	-2.175	0.318	-1.956	0.334	-2.109	0.836	-2.586	0.421
Immigrant	-0.138	0.334	-0.158	0.334	-0.147	0.332	-0.135	0.336	-0.161	0.325
Age	-0.278	0.009	-0.279	0.009	-0.279	0.009	-0.278	0.009	-0.279	0.009
Age ²	-0.001	0.001	-0.001	0.001	-0.001	0.001	-0.001	0.001	-0.001	0.001
<i>Childhood Misfortune^c</i>										
Infectious Disease (=1)	0.343	0.491	-0.093	0.398	-0.082	0.399	-0.078	0.399	-0.110	0.399
Infectious Disease (=2+)	0.300	0.415	-0.058	0.330	-0.033	0.329	-0.034	0.331	-0.057	0.330
Chronic Disease (=1)	-0.126	0.218	-0.090	0.217	-0.127	0.219	-0.128	0.219	-0.125	0.218
Chronic Disease (=2+)	-0.267	0.226	-0.377	0.254	-0.251	0.227	-0.283	0.227	-0.269	0.228
Impairment (=1)	-0.196	0.213	-0.182	0.216	-0.259	0.229	-0.185	0.215	-0.196	0.215
Impairment (=2+)	-0.231	0.744	-0.252	0.741	0.030	0.835	-0.240	0.747	-0.264	0.747
SES (=1)	0.418	0.228	0.404	0.228	0.419	0.230	0.408	0.257	0.418	0.228
SES (=2+)	0.633	0.207	0.631	0.207	0.637	0.209	0.535	0.219	0.639	0.207
Parental Behavior (=1)	-0.064	0.167	-0.064	0.167	-0.066	0.166	-0.067	0.166	-0.160	0.179
Parental Behavior (=2+)	-0.009	0.245	-0.016	0.248	-0.014	0.245	-0.017	0.243	-0.014	0.257
<i>Adult Covariates</i>										
Education	0.096	0.029	0.090	0.029	0.093	0.029	0.094	0.030	0.098	0.029
Wealth	0.111	0.028	0.113	0.028	0.112	0.028	0.110	0.028	0.110	0.028
BMI	0.071	0.016	0.072	0.015	0.072	0.015	0.072	0.015	0.073	0.015
Former Smoker ^d	0.079	0.177	0.074	0.176	0.079	0.177	0.072	0.175	0.070	0.174
Current Smoker ^d	0.286	0.251	0.284	0.249	0.288	0.251	0.288	0.248	0.289	0.249
Physical Activity	1.043	0.184	1.026	0.181	1.034	0.182	1.032	0.183	1.039	0.182
Depressive Symptoms	-0.199	0.049	-0.200	0.049	-0.198	0.050	-0.199	0.049	-0.197	0.049
Married	-0.009	0.162	-0.000	0.162	-0.016	0.161	-0.014	0.161	-0.006	0.161
Chronic Conditions	-0.535	0.079	0.533	0.079	-0.538	0.079	-0.532	0.079	-0.538	0.079
<i>Interaction Terms^e</i>										
Black*CM ^f (=1)	-0.693	0.985	-0.678	0.720	0.429	0.648	0.124	0.866	-0.019	0.484
Hispanic*CM (=1)	-2.031	0.651	0.186	0.891	0.701	0.731	0.319	1.023	1.394	0.548
Black*CM (=2+)	-0.333	0.825	0.015	0.633	-2.479	2.243	1.078	0.891	-0.581	1.039
Hispanic*CM (=2+)	-1.654	0.651	1.863	0.820	0.365	1.784	0.240	0.853	0.207	0.976
Constant	19.064	0.697	19.493	0.657	19.437	0.657	19.469	0.665	19.417	0.658
R ²	0.3155		0.3156		0.3153		0.3154		0.3156	

Notes: ^a Unstandardized coefficient. ^b Standard error. ^c Reference group is no misfortune. ^d Reference group is never smoker.

^e The joint significance of the four product term interactions was assessed in each of the 5 models. Due to the high number of related hypothesis tests being conducted (20 total: 5 per gender and time period), the critical value for significance was adjusted to control for the family-wise error rate using a step-down procedure (Benjamini and Liu, 1999). None of the product-term groups contributed significantly to the model (adjusted significance cutoff: 0.00256). ^f CM - Childhood misfortune.

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Table S8: OLS Regression Analysis of Longitudinal HGS in Women Including Interaction Terms (n=4,572)

Misfortune Interacted:	Infectious Disease		Chronic Disease		Impairment		SES		Parental Behavior	
Independent Variables	b	SE	b	SE	b	SE	b	SE	b	SE
Black	1.121 ^a	0.671 ^b	0.437	0.245	0.527	0.233	0.489	0.581	0.446	0.343
Hispanic	-0.779	0.814	-0.841	0.325	-0.730	0.332	-0.129	0.821	-1.044	0.480
Immigrant	-0.177	0.207	-0.179	0.211	-0.177	0.214	-0.196	0.212	-0.154	0.218
Age	-0.140	0.009	-0.140	0.009	-0.140	0.009	-0.141	0.009	-0.140	0.009
Age ²	-0.001	0.001	-0.001	0.001	-0.001	0.001	-0.001	0.001	-0.001	0.001
Time 1 HGS	0.665	0.015	0.666	0.015	0.665	0.015	0.665	0.015	0.665	0.015
<i>Childhood Misfortune^c</i>										
Infectious Disease (=1)	-0.163	0.351	-0.287	0.303	-0.294	0.302	-0.310	0.297	-0.323	0.301
Infectious Disease (=2+)	-0.072	0.298	-0.132	0.261	-0.129	0.263	-0.147	0.259	-0.164	0.259
Chronic Disease (=1)	-0.145	0.180	-0.220	0.198	-0.144	0.178	-0.143	0.179	-0.142	0.179
Chronic Disease (=2+)	-0.348	0.236	-0.327	0.263	-0.333	0.236	-0.348	0.237	-0.344	0.236
Impairment (=1)	0.049	0.174	0.051	0.173	0.026	0.178	0.049	0.173	0.054	0.174
Impairment (=2+)	-0.669	0.484	-0.643	0.485	-0.521	0.503	-0.678	0.488	-0.674	0.485
SES (=1)	-0.021	0.228	-0.024	0.228	-0.020	0.226	-0.027	0.243	-0.022	0.226
SES (=2+)	0.023	0.202	0.028	0.200	0.036	0.200	0.051	0.218	0.028	0.200
Parental Behavior (=1)	0.104	0.130	0.104	0.129	0.101	0.131	0.109	0.130	0.080	0.144
Parental Behavior (=2+)	0.143	0.180	0.141	0.179	0.136	0.179	0.143	0.181	0.064	0.196
<i>Adult Covariates</i>										
Education	-0.014	0.028	-0.012	0.028	-0.013	0.028	-0.014	0.028	-0.013	0.028
Wealth	0.018	0.027	0.018	0.027	0.019	0.027	0.019	0.027	0.018	0.027
BMI	0.006	0.012	0.006	0.012	0.007	0.012	0.006	0.012	0.007	0.012
Former Smoker ^d	0.111	0.128	0.112	0.129	0.121	0.130	0.117	0.129	0.115	0.128
Current Smoker ^d	-0.338	0.231	-0.332	0.229	-0.326	0.230	-0.332	0.232	-0.332	0.231
Physical Activity	0.308	0.133	0.308	0.134	0.308	0.134	0.308	0.134	0.310	0.132
Depressive Symptoms	-0.003	0.030	-0.004	0.030	-0.003	0.029	-0.004	0.030	-0.006	0.030
Married	-0.206	0.118	-0.209	0.119	-0.208	0.119	-0.207	0.119	-0.199	0.120
Chronic Conditions	-0.156	0.071	-0.155	0.070	-0.158	0.071	-0.156	0.071	-0.153	0.070
<i>Interaction Terms^e</i>										
Black*CM ^f (=1)	-0.768	0.825	0.694	0.731	0.181	0.778	0.107	0.707	-0.027	0.453
Hispanic*CM (=1)	-0.456	0.901	0.941	0.471	0.212	0.655	-0.303	1.179	0.375	0.483
Black*CM (=2+)	-0.658	0.720	-0.384	0.750	-1.894	1.753	-0.020	0.678	0.449	0.725
Hispanic*CM (=2+)	0.272	0.860	-0.065	0.843	2.104	0.688	-0.689	0.929	1.294	1.066
Constant	6.602	0.833	6.639	0.813	6.627	0.827	6.648	0.817	6.682	0.820
R ²	0.6455		0.6457		0.6456		0.6454		0.6456	

Notes: ^a Unstandardized coefficient. ^b Standard error. ^c Reference group is no misfortune. ^d Reference group is never smoker.

^e The joint significance of the four product term interactions was assessed in each of the 5 models. Due to the high number of related hypothesis tests being conducted (20 total: 5 per gender and time period), the critical value for significance was adjusted to control for the family-wise error rate using a step-down procedure (Benjamini and Liu, 1999). None of the product-term groups contributed significantly to the model (adjusted significance cutoff: 0.00256). ^f CM – Childhood misfortune.

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