

Supplemental Materials for:

Deaths, Disparities, and Cumulative (Dis)Advantage: How Social Inequities Produce an Impairment Paradox in Later Life

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Table A1: Social Characteristics by Race and Gender

	White Women N=3,662	White Men N=3,317	Black Women N=887	Black Men N=598
Less than HS Diploma	0.251	0.247	0.453	0.455
Completed HS	0.396	0.298	0.281	0.279
Some College	0.205	0.208	0.157	0.177
Completed College Degree	0.148	0.247	0.109	0.088
Respondent Married at Round 2	0.721	0.811	0.424	0.672
Respondent Ever Smoked at Round 2	0.547	0.743	0.559	0.736
1st Wealth Quintile (Lowest Wealth)	0.149	0.128	0.411	0.321
2nd Wealth Quintile	0.167	0.153	0.271	0.262
3rd Wealth Quintile	0.196	0.209	0.183	0.188
4th Wealth Quintile	0.228	0.237	0.091	0.171
5th Wealth Quintile (Highest Wealth)	0.260	0.273	0.043	0.057
No Longest Occupation Reported	0.143	0.091	0.135	0.118
Longest Occupation Professional, Managerial, Clerical or Sales	0.601	0.474	0.337	0.239
Longest Occupation Production, Service, Operations or Farming	0.257	0.436	0.528	0.643

Table A2: Predicted Probabilities from Multinomial Logistic Regression for Average Person of Each Race Gender Group

	Predicted Probabilities for Average Person of Each Race Gender											
	White Women			White Men			Black Women			Black Men		
P(Same or Better Functional Status)	0.168	(0.154	0.183)	0.156	(0.141	0.170)	0.132	(0.104	0.162)	0.120	(0.085	0.155)
P(Increased Functional Impairment)	0.335	(0.317	0.352)	0.243	(0.225	0.258)	0.302	(0.262	0.342)	0.194	(0.153	0.238)
P(Increased Functional Impairment Conditional on Being In-Sample)	0.666	(0.641	0.690)	0.609	(0.579	0.639)	0.695	(0.635	0.753)	0.617	(0.520	0.712)
P(Death)	0.295	(0.276	0.312)	0.403	(0.382	0.426)	0.411	(0.373	0.455)	0.582	(0.525	0.638)
P(Lost to Follow Up)	0.203	(0.188	0.218)	0.198	(0.183	0.214)	0.153	(0.127	0.184)	0.104	(0.070	0.140)
P(Death Conditional on Non-Response)	0.593	(0.564	0.618)	0.670	(0.645	0.696)	0.728	(0.681	0.773)	0.849	(0.797	0.894)

Table A2 cont.: Predicted Probabilities from Multinomial Logistic Regression for Advantaged Person of Each Race Gender Group

	Predicted Probabilities for Advantaged Health and Social Characteristics											
	White Women			White Men			Black Women			Black Men		
P(Same or Better Functional Status)	0.293	(0.241	0.351)	0.295	(0.243	0.348)	0.113	(0.033	0.247)	0.140	(0.028	0.353)
P(Increased Functional Impairment)	0.425	(0.368	0.488)	0.336	(0.285	0.390)	0.448	(0.241	0.683)	0.257	(0.060	0.518)
P(Increased Functional Impairment Conditional on Being In-Sample)	0.591	(0.522	0.665)	0.534	(0.457	0.604)	0.798	(0.552	0.944)	0.650	(0.237	0.921)
P(Death)	0.090	(0.066	0.115)	0.155	(0.125	0.191)	0.194	(0.070	0.399)	0.193	(0.057	0.426)
P(Lost to Follow Up)	0.189	(0.148	0.232)	0.212	(0.173	0.256)	0.219	(0.068	0.406)	0.368	(0.137	0.674)
P(Death Conditional on Non-Response)	0.322	(0.241	0.404)	0.423	(0.350	0.500)	0.466	(0.209	0.786)	0.343	(0.101	0.700)

Table A2 cont.: Predicted Probabilities from Multinomial Logistic Regression for Disadvantaged Person of Each Race Gender Group

Predicted Probabilities for Disadvantaged Health and Social Characteristics												
	White Women			White Men			Black Women			Black Men		
P(Same or Better Functional Status)	0.078	(0.053	0.107)	0.065	(0.040	0.099)	0.102	(0.064	0.154)	0.045	(0.019	0.087)
P(Increased Functional Impairment)	0.166	(0.133	0.206)	0.068	(0.046	0.099)	0.188	(0.137	0.256)	0.071	(0.038	0.123)
P(Increased Functional Impairment Conditional on Being In-Sample)	0.682	(0.586	0.772)	0.517	(0.374	0.646)	0.646	(0.520	0.763)	0.615	(0.387	0.815)
P(Death)	0.635	(0.571	0.688)	0.771	(0.713	0.824)	0.607	(0.520	0.689)	0.850	(0.782	0.907)
P(Lost to Follow Up)	0.120	(0.090	0.159)	0.093	(0.061	0.131)	0.096	(0.059	0.145)	0.029	(0.008	0.064)
P(Death Conditional on Non-Response)	0.840	(0.788	0.883)	0.892	(0.848	0.930)	0.863	(0.793	0.919)	0.968	(0.926	0.991)

Table A3: Multinomial Logistic Regression Results from Models Predicting Health Outcomes for White Men and Women at Wave 6 of the HRS

	White Women						White Men					
	Limitations Higher than First Observed		Died	Lost to Follow Up		Limitations Higher than First Observed		Died	Lost to Follow Up			
Functional Limitations Round 2	0.908***	(0.876-0.942)	1.152***	(1.091-1.216)	0.890***	(0.841-0.941)	0.925***	(0.884-0.968)	1.155***	(1.094-1.220)	0.947	(0.885-1.014)
Birth Year	0.975*	(0.951-1.000)	0.897***	(0.854-0.943)	0.999	(0.965-1.035)	0.969*	(0.942-0.996)	0.886***	(0.849-0.924)	1.000	(0.964-1.038)
Less than HS Diploma	1.419*	(1.054-1.911)	1.382	(0.714-2.672)	2.355***	(1.544-3.592)	1.393*	(1.045-1.857)	1.205	(0.743-1.952)	2.003***	(1.359-2.950)
Completed HS	1.178	(0.916-1.514)	1.247	(0.670-2.324)	1.824**	(1.263-2.636)	1.188	(0.923-1.530)	1.190	(0.763-1.854)	1.635**	(1.144-2.339)
Some College	0.994	(0.758-1.303)	1.191	(0.612-2.315)	1.264	(0.839-1.905)	1.124	(0.862-1.467)	1.568*	(1.009-2.435)	1.689**	(1.167-2.442)
Ever Smoked at Round 2	1.254**	(1.070-1.470)	2.612***	(1.861-3.666)	0.998	(0.799-1.245)	1.182	(0.972-1.438)	2.521***	(1.722-3.690)	1.325*	(1.003-1.749)
Married at Round 2	0.825*	(0.684-0.995)	0.945	(0.659-1.356)	0.899	(0.689-1.172)	0.941	(0.734-1.205)	0.642*	(0.455-0.906)	0.748	(0.546-1.025)
1st Wealth Quintile (Lowest Wealth)	1.382*	(1.031-1.853)	1.889*	(1.050-3.400)	1.460	(0.976-2.182)	1.229	(0.890-1.696)	1.723*	(1.059-2.805)	0.819	(0.527-1.271)
2nd Wealth Quintile	1.755***	(1.352-2.278)	1.748*	(1.006-3.037)	1.227	(0.848-1.776)	1.415*	(1.072-1.868)	1.609*	(1.026-2.523)	1.024	(0.701-1.495)
3rd Wealth Quintile	1.334*	(1.048-1.698)	2.148**	(1.274-3.622)	1.287	(0.922-1.797)	0.960	(0.744-1.238)	1.150	(0.751-1.760)	0.717	(0.510-1.008)
4th Wealth Quintile	1.137	(0.903-1.432)	1.545	(0.904-2.639)	1.183	(0.866-1.616)	0.934	(0.732-1.192)	1.200	(0.793-1.817)	1.046	(0.759-1.442)
No Longest Occupation	0.984	(0.757-1.279)	1.261	(0.812-1.957)	1.080	(0.758-1.537)	0.887	(0.639-1.231)	1.323	(0.841-2.080)	1.031	(0.677-1.568)
Longest Occupation Professional, Managerial, Clerical or Sales	0.958	(0.780-1.176)	0.692	(0.466-1.029)	0.928	(0.703-1.226)	0.832	(0.675-1.024)	0.905	(0.656-1.250)	0.781	(0.596-1.022)

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Note. Relative Risk Ratios; Confidence interval in parentheses

* p<0.05" **p<.01 ***p<.0001

Table A3 cont.: Multinomial Logistic Regression Results from Models Predicting Health Outcomes for Black Men and Women at Wave 6 of the HRS

	Black Women					Black Men						
	Limitations Higher than First Observed		Died		Lost to Follow Up	Limitations Higher than First Observed		Died		Lost to Follow Up		
Functional Limitations Round 2	0.878***	(0.827- 0.933)	1.118**	(1.034- 1.209)	0.854***	(0.780- 0.935)	0.980	(0.897- 1.070)	1.182***	(1.075- 1.298)	1.100	(0.984- 1.230)
Birth Year	1.021	(0.969- 1.076)	0.871***	(0.804- 0.945)	0.975	(0.909- 1.046)	0.959	(0.894- 1.029)	0.947	(0.874- 1.025)	0.939	(0.854- 1.033)
Less than HS Diploma	0.812	(0.414- 1.593)	1.048	(0.342- 3.216)	1.780	(0.731- 4.337)	1.242	(0.497- 3.103)	0.602	(0.184- 1.973)	0.611	(0.212- 1.759)
Completed HS	0.655	(0.341- 1.255)	0.794	(0.279- 2.254)	1.125	(0.478- 2.646)	1.396	(0.567- 3.440)	0.908	(0.289- 2.854)	0.604	(0.215- 1.693)
Some College	0.592	(0.306- 1.146)	0.649	(0.223- 1.890)	0.653	(0.278- 1.533)	1.387	(0.545- 3.532)	0.852	(0.255- 2.848)	0.977	(0.351- 2.719)
Ever Smoked at Round 2	0.850	(0.613- 1.178)	1.511	(0.922- 2.476)	0.983	(0.626- 1.545)	0.983	(0.604- 1.599)	2.557**	(1.290- 5.068)	0.750	(0.420- 1.337)
Married at Round 2	0.972	(0.681- 1.388)	0.555*	(0.309- 0.998)	1.195	(0.729- 1.958)	0.821	(0.501- 1.345)	0.357***	(0.201- 0.635)	0.570	(0.293- 1.107)
1st Wealth Quintile (Lowest Wealth)	1.398	(0.610- 3.206)	1.489	(0.377- 5.887)	1.278	(0.412- 3.967)	1.206	(0.443- 3.285)	5.417	(0.624- 47.042)	0.532	(0.169- 1.679)
2nd Wealth Quintile	1.206	(0.534- 2.724)	1.076	(0.280- 4.139)	1.125	(0.368- 3.444)	1.066	(0.395- 2.879)	5.431	(0.635- 46.465)	0.750	(0.243- 2.316)
3rd Wealth Quintile	1.687	(0.733- 3.883)	0.787	(0.193- 3.212)	1.646	(0.518- 5.236)	1.044	(0.373- 2.919)	7.350	(0.876- 61.685)	0.666	(0.213- 2.084)
4th Wealth Quintile	1.178	(0.464- 2.991)	0.969	(0.220- 4.266)	1.084	(0.310- 3.790)	0.706	(0.243- 2.052)	4.272	(0.501- 36.461)	0.824	(0.262- 2.591)
No Longest Occupation	1.013	(0.606- 1.694)	2.073*	(1.073- 4.002)	1.709	(0.873- 3.345)	0.831	(0.408- 1.693)	0.671	(0.306- 1.469)	0.297	(0.081- 1.088)
Longest Occupation Professional, Managerial, Clerical or Sales	0.559*	(0.351- 0.893)	1.348	(0.662- 2.742)	1.465	(0.804- 2.670)	1.715	(0.939- 3.131)	0.770	(0.371- 1.597)	1.184	(0.550- 2.550)

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Note. Relative Risk Ratios; Confidence intervals in parentheses

* p<0.05" **p<.01 ***p<.0001

Table A4: Logistic Regression Results from Models Predicting Any Increase in Functional Limitations by Race and Gender

	White Women		White Men		Black Women		Black Men	
Functional Limitations Round 2	0.878***	(0.849- 0.909)	0.874***	(0.839-0.910)	0.848***	(0.803- 0.896)	0.890**	(0.825- 0.960)
Birth Year	0.928***	(0.906- 0.951)	0.944***	(0.920-0.967)	0.958	(0.913- 1.005)	0.907**	(0.855- 0.961)
Less than HS Diploma	1.218	(0.920- 1.613)	1.403*	(1.076-1.829)	0.586	(0.304- 1.129)	1.426	(0.609- 3.341)
Completed HS	1.225	(0.966- 1.553)	1.382**	(1.096-1.742)	0.663	(0.348- 1.264)	1.330	(0.579- 3.056)
Some College	1.139	(0.880- 1.474)	1.244	(0.983-1.574)	0.609	(0.323- 1.149)	1.190	(0.503- 2.819)
Ever Smoked at Round 2	1.296***	(1.114- 1.507)	1.194	(0.998-1.428)	1.222	(0.898- 1.662)	1.128	(0.740- 1.721)
Married at Round 2	0.881	(0.734- 1.056)	1.085	(0.872-1.351)	1.266	(0.903- 1.775)	0.854	(0.559- 1.305)
1st Wealth Quintile (Lowest Wealth)	1.532**	(1.155- 2.032)	1.603**	(1.189-2.160)	1.099	(0.473- 2.549)	2.002	(0.781- 5.132)
2nd Wealth Quintile	1.730***	(1.337- 2.238)	1.439**	(1.115-1.857)	0.822	(0.360- 1.876)	1.874	(0.746- 4.711)
3rd Wealth Quintile	1.254	(0.998- 1.576)	1.238	(0.982-1.561)	1.116	(0.483- 2.579)	1.633	(0.629- 4.241)
4th Wealth Quintile	1.037	(0.837- 1.285)	1.182	(0.951-1.468)	0.649	(0.263- 1.597)	1.718	(0.645- 4.576)
No Longest Occupation	1.003	(0.786- 1.280)	1.118	(0.831-1.505)	0.942	(0.596- 1.490)	1.771	(0.888- 3.530)
Longest Occupation Professional, Managerial, Clerical or Sales	1.211	(0.996- 1.471)	0.977	(0.809-1.180)	0.661*	(0.437- 1.000)	1.407	(0.824- 2.404)
Observations	3509		3142		835		559	

Captions and Illustrations for Appendix Figures

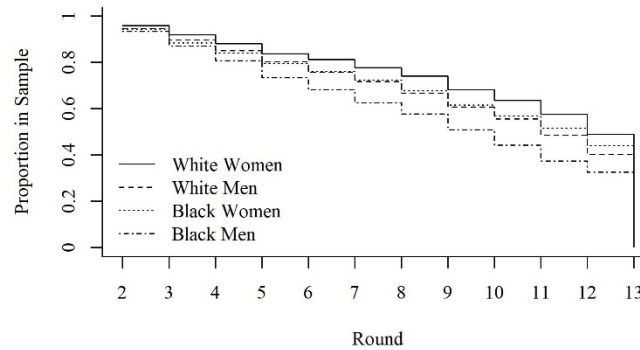


Figure A1. Proportion of starting cohort remaining in sample by race and gender at waves 2-13 of the HRS. The proportion remaining is on the y axis and the survey round is on the x axis. 4 line types are used corresponding to white women, white men, black women, and black men respectively.

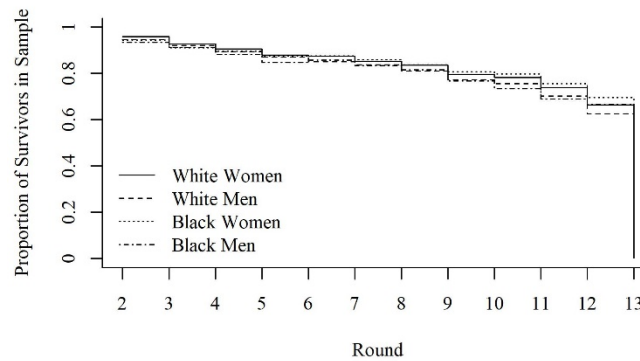


Figure A2. Proportion of surviving cohort members remaining in sample by race and gender at waves 2-13 of the HRS. The proportion of survivors remaining is on the y axis and the survey round is on the x axis. 4 line types are used corresponding to white women, white men, black women, and black men respectively.