

## **Online Appendix to:**

### **Inequalities of Income and Inequalities of Longevity: a Cross-Country Study**

This online appendix reports full estimation results, a subset of which is reported in the published article. The appendix also lists the countries included in the cross-country study sample as well as the start year and end year for each country together with the values of the Gini coefficient of longevity inequality for all individuals, the Gini coefficient of longevity inequality for individuals that survived at least to the age of ten, the Gini coefficient of pre-tax income inequality, and the income redistribution measure for these start and end years. Lastly, the appendix shows two graphs plotting the mortality by age of Sweden and the USA in, respectively, 1975 and in 2010.

Online Appendix Table A1. Descriptive summary variable statistics.

	mean	std. dev.	min.	max.
Gini of longevity (entire life tables)	0.100	0.010	0.082	0.134
Gini of longevity (cond. on survival to 10)	0.094	0.008	0.079	0.121
Life expectancy	77.911	2.306	71.974	83.056
ln (GDP p.c.)	10.225	0.263	9.495	11.211
ln (Health expend. to GDP)	2.125	0.207	1.609	2.839
ln Alcohol p.c. consumption	2.207	0.347	0.405	2.701
Lung cancer mortality rate (per 1,000)	0.484	0.124	0.263	0.716
External cause mortality rate (per 1,000)	0.544	0.163	0.275	1.305
Pre-tax income inequality	0.451	0.041	0.345	0.580
Income redistribution	0.160	0.041	0.041	0.268

Statistics based on 476 observations. GDP = gross domestic product; p.c. = per capita.

Online Appendix Table A2. Estimation results for Gini coefficient of longevity (entire life tables).

	(1)		(2)		(3)		(4)	
	Coeff	95% CI	Coeff	95% CI	Coeff	95% CI	Coeff	95% CI
Lagged dependent variable	0.8523**	(0.7750, 0.9296)	0.8069**	(0.6873, 0.9265)	0.8526**	(0.7848, 0.9205)	0.8414**	(0.7606, 0.9221)
Life expectancy	-0.0004*	(-0.0007, -0.0000)	-0.0004	(-0.0009, 0.0001)	-0.0004*	(-0.0007, -0.0001)	-0.0004*	(-0.0007, -0.0000)
ln (GDP p.c.)	0.0231	(-0.0109, 0.0570)	0.0116	(-0.0328, 0.0559)	0.0397**	(0.0283, 0.0510)	0.0372**	(0.0226, 0.0518)
ln (GDP p.c.) squared	-0.0011	(-0.0027, 0.0005)	-0.0006	(-0.0027, 0.0015)	-0.0019**	(-0.0024, -0.0014)	-0.0018**	(-0.0025, -0.0011)
ln (Health expend. to GDP)	-0.0021	(-0.0095, 0.0052)	-0.0035	(-0.0196, 0.0126)	-0.0049	(-0.0111, 0.0012)	-0.0144*	(-0.0265, -0.0023)
ln (Health expend. to GDP) sq.	0.0006	(-0.0011, 0.0022)	0.0011	(-0.0027, 0.0049)	0.0012	(-0.0002, 0.0026)	0.0035*	(0.0004, 0.0066)
ln Alcohol p.c. consumption	0.0000	(-0.0002, 0.0003)	-0.0002	(-0.0007, 0.0004)	0.0003	(-0.0003, 0.0009)	0.0003	(-0.0003, 0.0009)
Lung cancer mortality rate	0.0010	(-0.0006, 0.0027)	0.0024	(-0.0005, 0.0054)	0.0007	(-0.0008, 0.0021)	0.0007	(-0.0008, 0.0022)
External cause mortality rate	0.0029**	(0.0017, 0.0042)	0.0038**	(0.0019, 0.0056)	0.0032**	(0.0019, 0.0044)	0.0035**	(0.0021, 0.0050)
Pre-tax income inequality	0.0069**	(0.0030, 0.0108)	0.0112*	(0.0026, 0.0198)	0.0069**	(0.0031, 0.0106)	0.0081**	(0.0034, 0.0127)
Income redistribution	-0.0065*	(-0.0115, -0.0015)	-0.0088	(-0.0177, 0.0001)	-0.0064*	(-0.0111, -0.0017)	-0.0072*	(-0.0125, -0.0019)
Observations		476		237		422		385
Countries		28		28		22		21

\*\* p<0.01, \* p<0.05. Year and healthcare system fixed effects included (coefficients not shown). GDP = gross domestic product; p.c. = per capita.

Model 2 does not use linearly interpolated variable values, model 3 restricts sample to Western developed countries, model 4 further excludes the USA.

Online Appendix Table A3. Estimation results for Gini coefficient of longevity (conditional on survival to age of 10).

	(5)		(6)		(7)		(8)	
	Coeff	95% CI	Coeff	95% CI	Coeff	95% CI	Coeff	95% CI
Lagged dependent variable	0.8299**	(0.7372, 0.9226)	0.7793**	(0.6461, 0.9126)	0.8322**	(0.7361, 0.9282)	0.8209**	(0.7085, 0.9334)
Life expectancy	-0.0003*	(-0.0007, -0.0000)	-0.0004	(-0.0009, 0.0000)	-0.0003*	(-0.0006, -0.0000)	-0.0003*	(-0.0006, -0.0000)
ln (GDP p.c.)	0.0204	(-0.0091, 0.0499)	0.0094	(-0.0286, 0.0473)	0.0319**	(0.0220, 0.0418)	0.0296**	(0.0154, 0.0437)
ln (GDP p.c.) squared	-0.0010	(-0.0024, 0.0004)	-0.0005	(-0.0022, 0.0013)	-0.0015**	(-0.0020, -0.0011)	-0.0014**	(-0.0021, -0.0007)
ln (Health expend. to GDP)	-0.0009	(-0.0074, 0.0057)	-0.0041	(-0.0169, 0.0088)	-0.0025	(-0.0085, 0.0036)	-0.0101	(-0.0214, 0.0012)
ln (Health expend. to GDP) sq.	0.0003	(-0.0012, 0.0018)	0.0012	(-0.0019, 0.0043)	0.0007	(-0.0007, 0.0020)	0.0026	(-0.0004, 0.0055)
ln Alcohol p.c. consumption	0.0001	(-0.0001, 0.0004)	-0.0001	(-0.0006, 0.0004)	0.0004	(-0.0001, 0.0009)	0.0004	(-0.0002, 0.0010)
Lung cancer mortality rate	0.0007	(-0.0007, 0.0022)	0.0018	(-0.0006, 0.0041)	0.0004	(-0.0009, 0.0017)	0.0004	(-0.0009, 0.0017)
External cause mortality rate	0.0037**	(0.0020, 0.0055)	0.0046**	(0.0026, 0.0067)	0.0037**	(0.0020, 0.0055)	0.0041**	(0.0020, 0.0062)
Pre-tax income inequality	0.0083**	(0.0042, 0.0125)	0.0123**	(0.0056, 0.0190)	0.0077**	(0.0041, 0.0114)	0.0088**	(0.0039, 0.0137)
Income redistribution	-0.0076**	(-0.0125, -0.0028)	-0.0095*	(-0.0168, -0.0023)	-0.0070**	(-0.0116, -0.0024)	-0.0077**	(-0.0130, -0.0023)
Observations		476		237		422		385
Countries		28		28		22		21

\*\* p<0.01, \* p<0.05. Year and healthcare system fixed effects included (coefficients not shown). GDP = gross domestic product; p.c. = per capita.

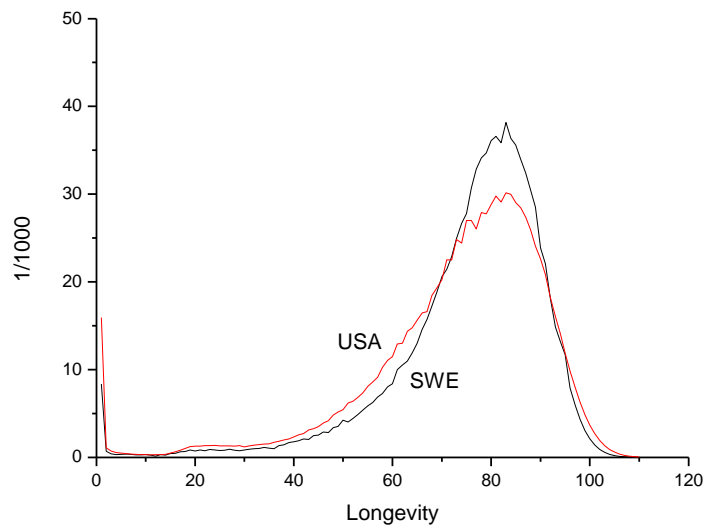
Model 6 does not use linearly interpolated variable values, model 7 restricts sample to Western developed countries, model 8 further excludes the USA.

Online Appendix Table A4. Countries and their start and end years in the sample together with values of main variables.

Country	Start and end year	Gini of longevity		Pre-tax income inequality	Income redistribution
		Entire life tables	From age 10 on		
Australia	1995	0.0998	0.0929	0.4672	0.1581
	2008	0.0886	0.0836	0.4676	0.1317
Austria	2004	0.0945	0.0893	0.4612	0.1919
	2010	0.0909	0.0863	0.4827	0.2136
Belgium	2004	0.0954	0.0908	0.5034	0.2164
	2010	0.0932	0.0889	0.4833	0.2190
Canada	1976	0.1223	0.1068	0.3850	0.0814
	2009	0.0944	0.0889	0.4437	0.1237
Czech Republic	1996	0.1068	0.0995	0.4420	0.1847
	2011	0.0950	0.0918	0.4602	0.2042
Denmark	1985	0.1126	0.1030	0.3729	0.1520
	2011	0.0912	0.0872	0.4307	0.1780
Estonia	2004	0.1289	0.1212	0.5056	0.1594
	2011	0.1117	0.1086	0.4827	0.1601
Finland	1986	0.1086	0.1021	0.3867	0.1779
	2009	0.0957	0.0927	0.4768	0.2166
France	1996	0.1061	0.1002	0.4730	0.1960
	2011	0.0945	0.0906	0.5120	0.2030
Germany	1991	0.1061	0.0981	0.4349	0.1755
	2011	0.0899	0.0857	0.5056	0.2125
Iceland	2004	0.0870	0.0840	0.3704	0.1090
	2009	0.0821	0.0798	0.3829	0.1173
Ireland	2004	0.0941	0.0886	0.5105	0.1873
	2009	0.0933	0.0892	0.5805	0.2684
Israel	1995	0.0990	0.0909	0.4940	0.1560
	2009	0.0879	0.0831	0.4988	0.1261

Italy	1988	0.1037	0.0934	0.3954	0.1115
	2009	0.0846	0.0806	0.4956	0.1810
Japan	1985	0.0967	0.0892	0.3454	0.0409
	2009	0.0886	0.0853	0.4883	0.1525
Luxembourg	2004	0.0950	0.0907	0.4556	0.1929
	2009	0.0879	0.0843	0.4797	0.2016
Netherlands	1977	0.1086	0.0969	0.4260	0.1630
	2009	0.0871	0.0826	0.4170	0.1340
New Zealand	1985	0.1155	0.1026	0.4080	0.1370
	2008	0.0937	0.0878	0.4550	0.1250
Norway	1986	0.1070	0.0974	0.3510	0.1290
	2009	0.0875	0.0837	0.4168	0.1719
Poland	2004	0.1133	0.1057	0.5702	0.1897
	2009	0.1110	0.1047	0.4693	0.1638
Portugal	2004	0.1000	0.0948	0.5042	0.1223
	2010	0.0920	0.0886	0.5239	0.1791
Slovak Republic	2005	0.1090	0.1005	0.4574	0.1693
	2009	0.1063	0.0992	0.4370	0.1713
Slovenia	2004	0.1026	0.0979	0.4542	0.2072
	2009	0.0940	0.0908	0.4515	0.2043
Spain	2004	0.0923	0.0875	0.4567	0.1255
	2010	0.0862	0.0824	0.5061	0.1720
Sweden	1975	0.1071	0.0969	0.3890	0.1766
	2011	0.0823	0.0795	0.4348	0.1613
Switzerland	2009	0.0847	0.0798	0.3722	0.0740
	2010	0.0831	0.0788	0.3701	0.0766
United Kingdom	1975	0.1173	0.1001	0.3781	0.1096
	2010	0.0924	0.0874	0.5229	0.1819
United States	1974	0.1339	0.1153	0.4057	0.0892
	2010	0.1074	0.1005	0.4989	0.1187

Online Appendix Figure A1: Mortality by Age, Sweden and USA 1975



Online Appendix Figure A2: Mortality by Age, Sweden and USA 2010

