

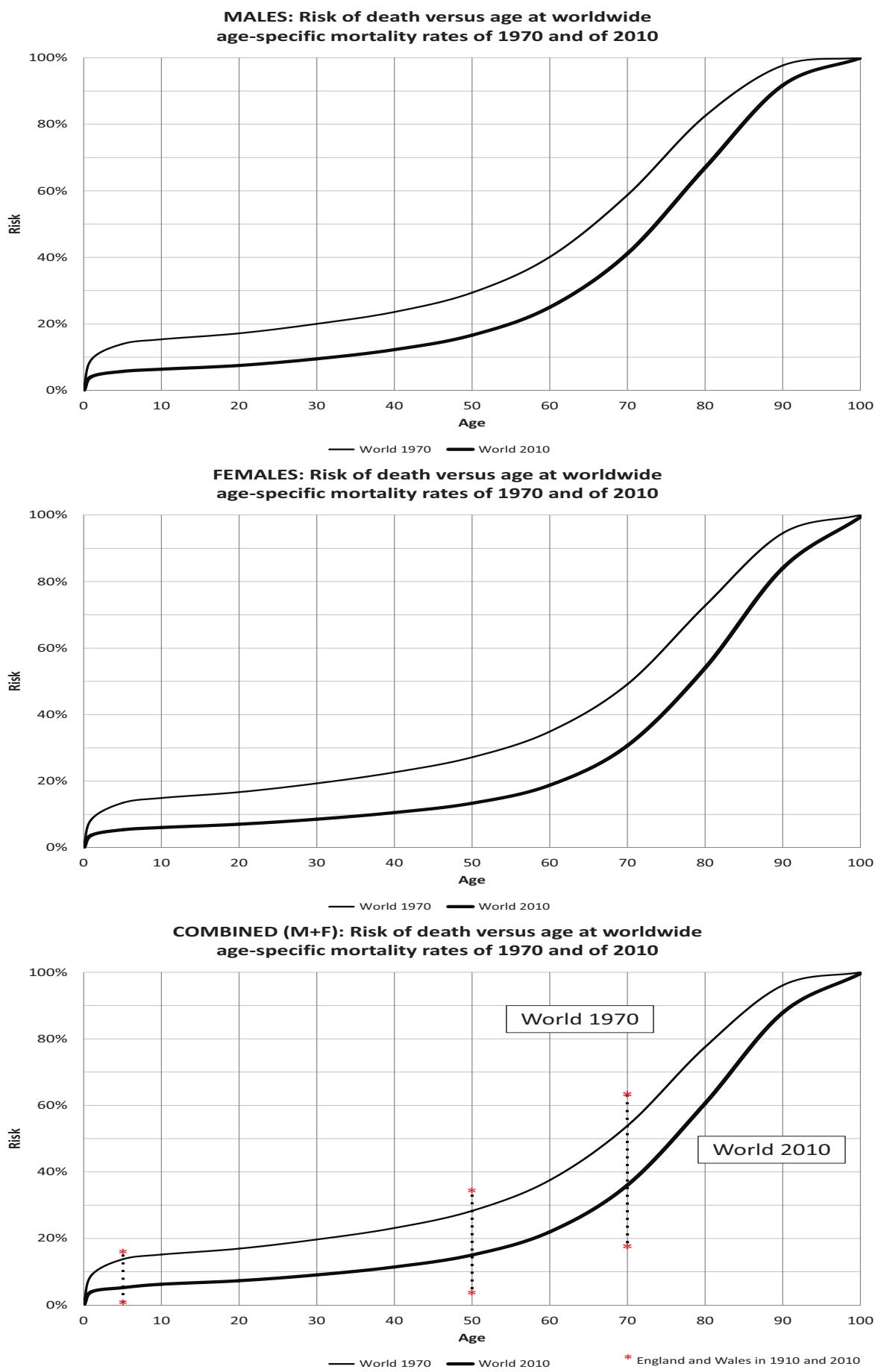
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**Appendix to:
Quantifying the over-arching 2030 Sustainable Development Goal
for health: avoiding 40% of the premature deaths in each country**

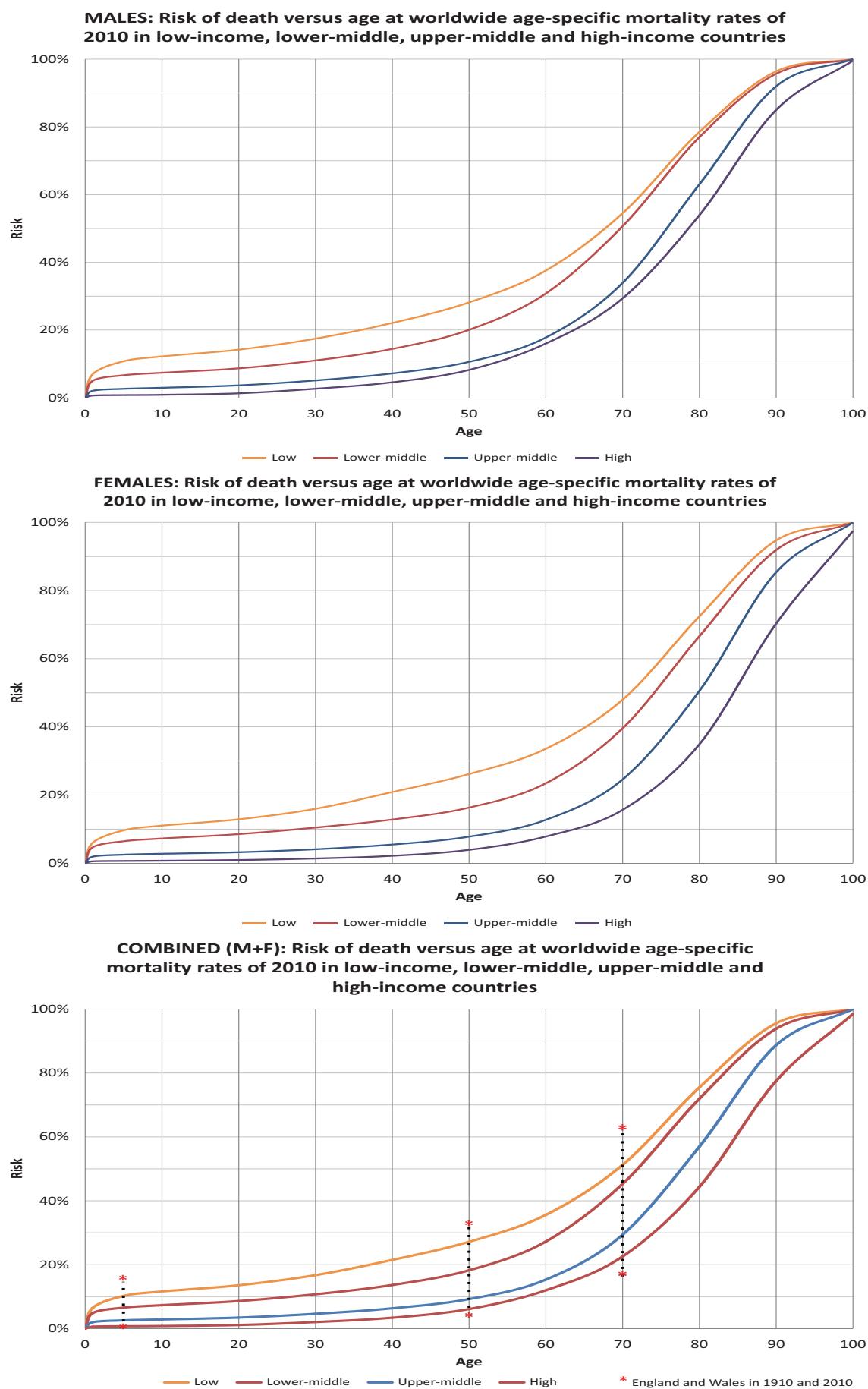
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Web Figure 1a: Risk of death versus age at worldwide age-specific mortality rates of 1970 and of 2010 – males, females and combined
 1970 risk is mean of 1965-70 and 1970-75 risks, and 2010 risk is mean of 2005-10 risk and UNPD projection for the 2010-15 risk.

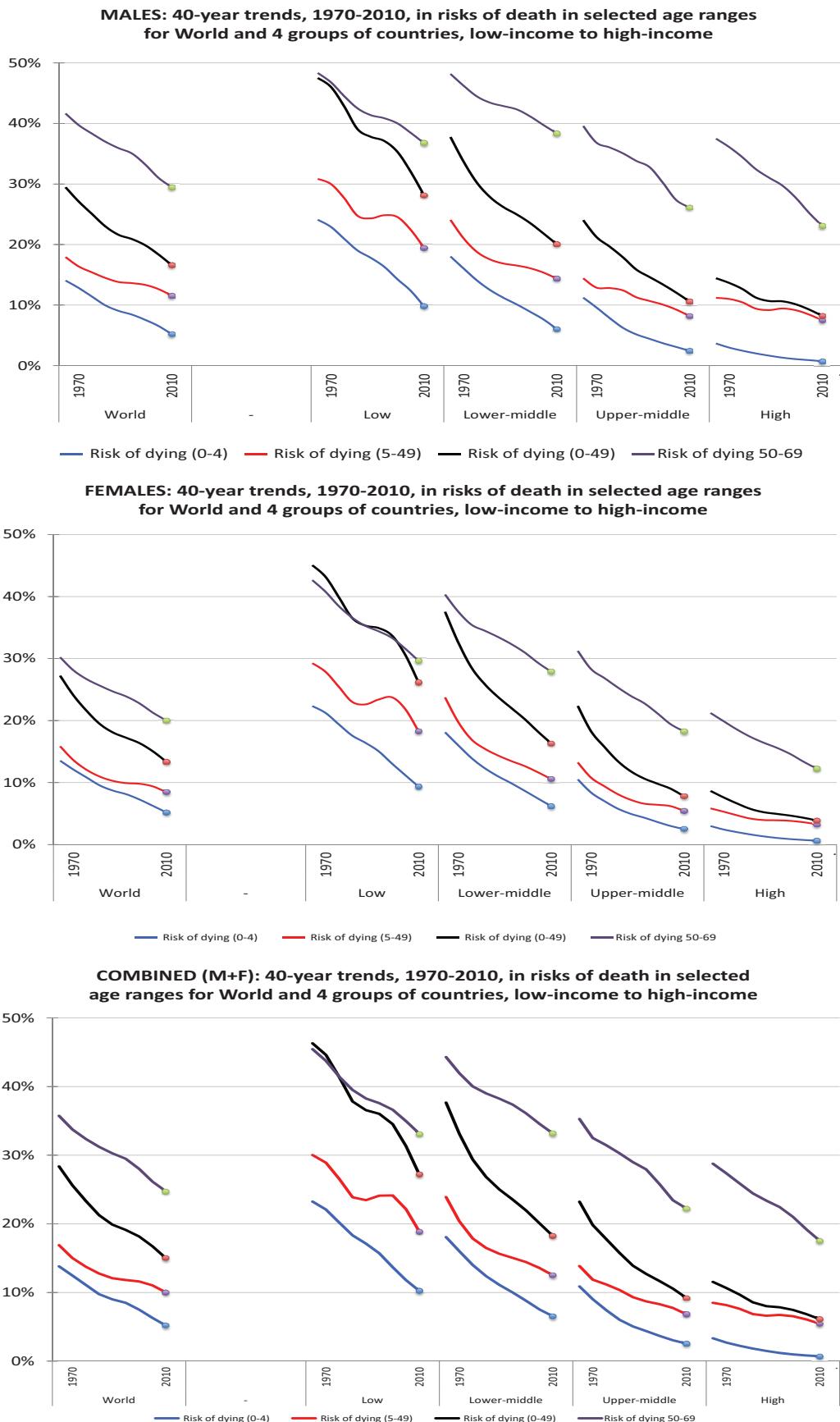


Web Figure 1b: Risk of death versus age at worldwide age-specific mortality rates of 2010 in low-income, lower-middle, upper-middle and high-income countries – males, females and combined



Web Figure 2: 40-year trends, 1970-2010, in risks of death in selected age ranges for (a) World and (b) 4 groups of countries, low-income to high-income – males, females and combined

Source: UNPD life tables. Risks are for survivors at the start of the age range. To smooth any sudden changes, risks average the previous and subsequent 5-year time periods (so 1970 risk is mean of 1965-70 and 1970-75 risks, and 2010 risk is mean of 2005-10 risk and UNPD projection for the 2010-15 risk).

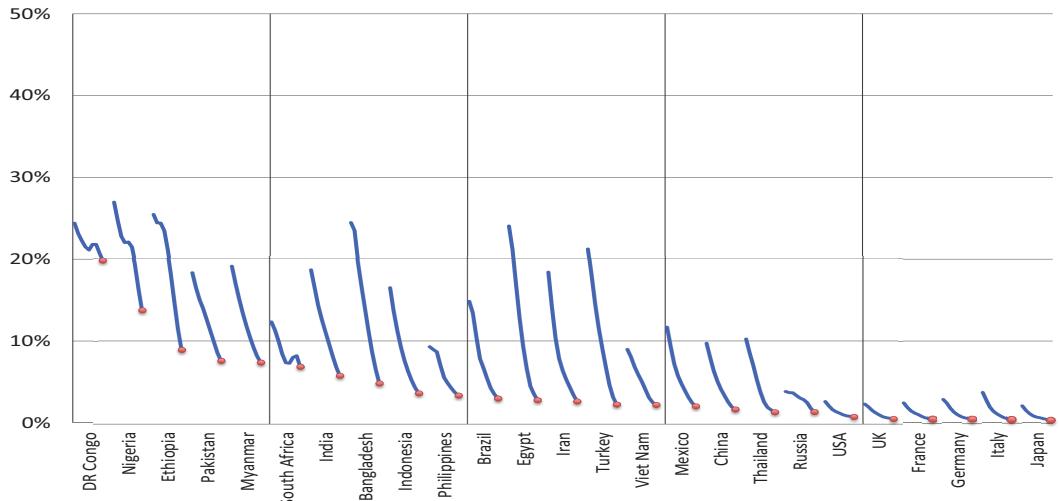


Web Figure 3: 40-year trends, 1970-2010, for the 25 most populous countries in risks of death in selected age ranges (Figures 3a-3b: ages 0-4, & 5-49) – males, females and combined

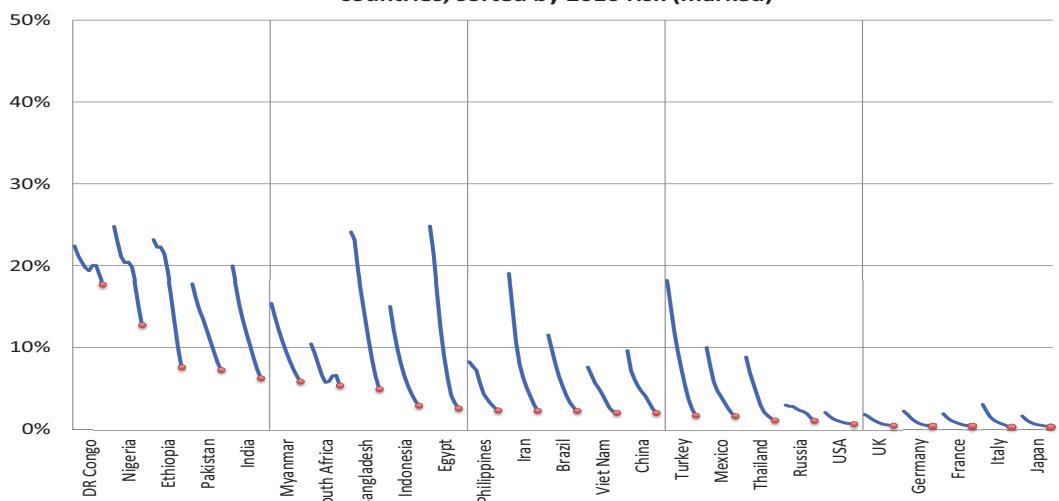
To smooth any sudden changes, risks average the previous and subsequent 5-year time periods (so 1970 is mean of 1965-70 & 1970-75, etc).

Figure 3a: Risk of death at ages 0-4 years (under-5 mortality; world average combining male and female was 5% in 2010).

MALE risk of dying, ages 0-4: 1970-2010 trends in 25 most populous countries, sorted by 2010 risk (marked)



FEMALE risk of dying, ages 0-4: 1970-2010 trends in 25 most populous countries, sorted by 2010 risk (marked)



Combined (M+F) risk of dying, ages 0-4: 1970-2010 trends in 25 most populous countries, sorted by 2010 risk (marked)

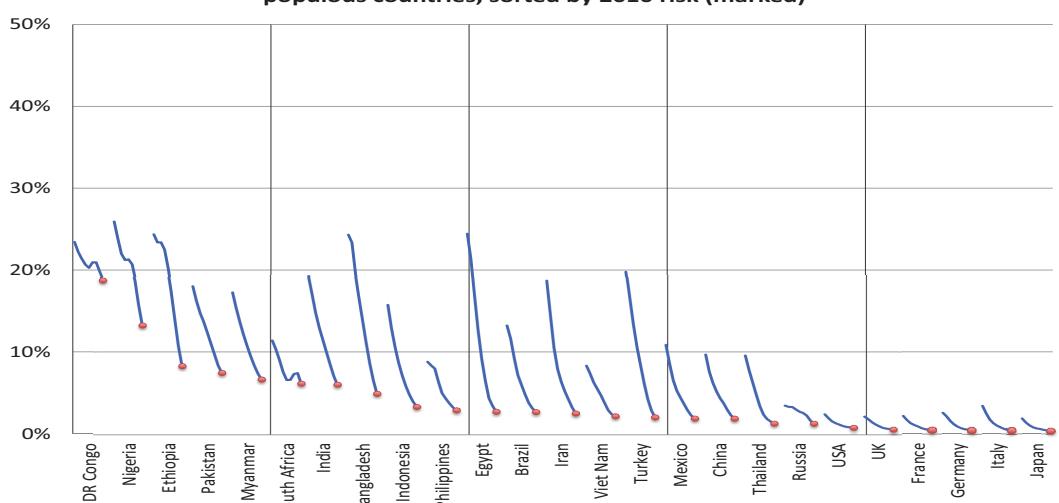
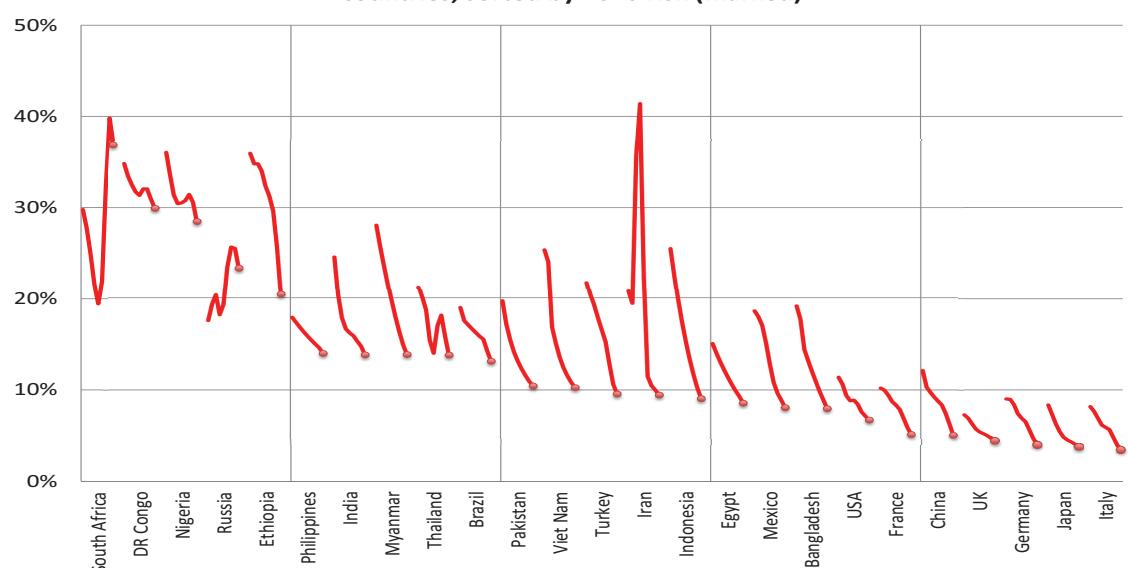
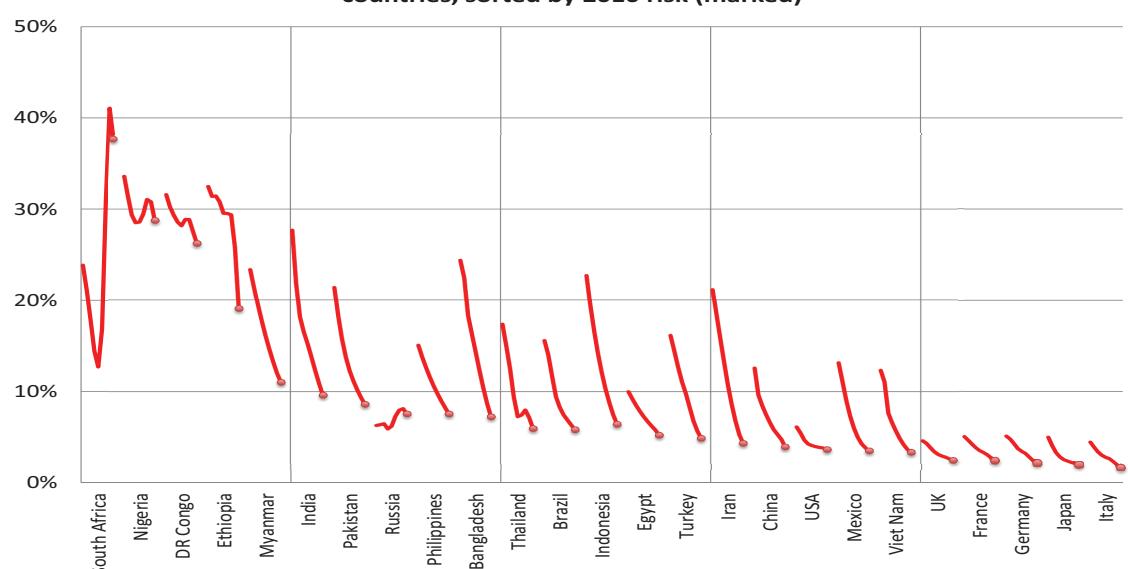


Figure 3b: Risk of death at ages 5-49 years (world average combining male and female was 10% in 2010) - males, females and combined

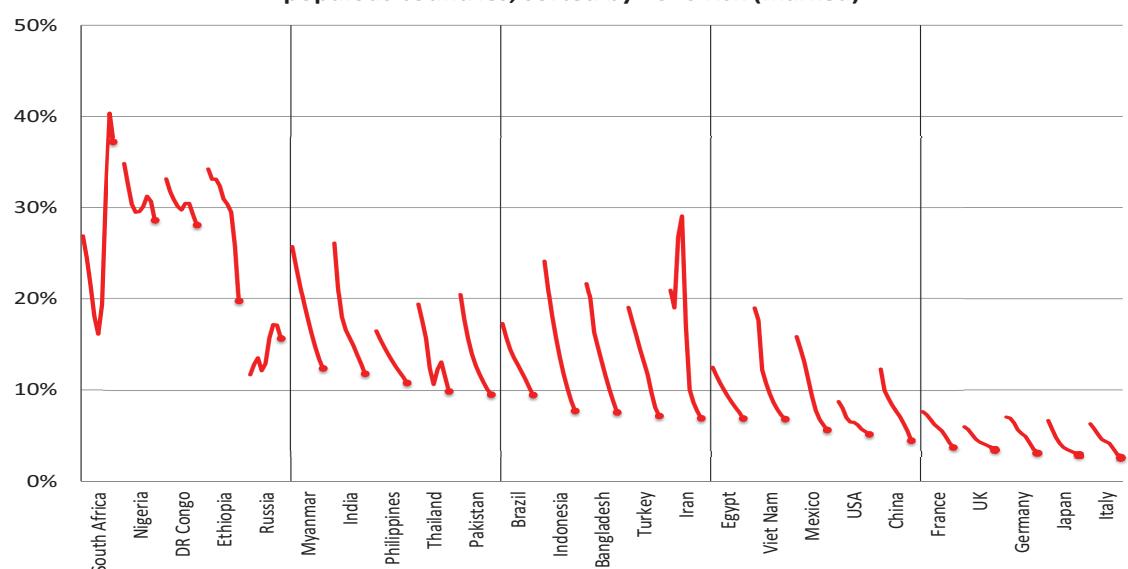
MALE risk of dying, ages 5-49: 1970-2010 trends in 25 most populous countries, sorted by 2010 risk (marked)



FEMALE risk of dying, ages 5-49: 1970-2010 trends in 25 most populous countries, sorted by 2010 risk (marked)



Combined (M+F) risk of dying, ages 5-49: 1970-2010 trends in 25 most populous countries, sorted by 2010 risk (marked)



Web Figure 4: 40-year trends, 1970-2010, for the 25 most populous countries in risks of death in selected age ranges (Figures 4a-4b: ages 50-69, & 0-49+0-69) – males, females and combined

To smooth any sudden changes, risks average the previous and subsequent 5-year time periods (so 1970 is mean of 1965-70 & 1970-75, etc).

Figure 4a: Risk of death at ages 50-69 years (world average combining male and female was 24% in 2010) - males, females and combined

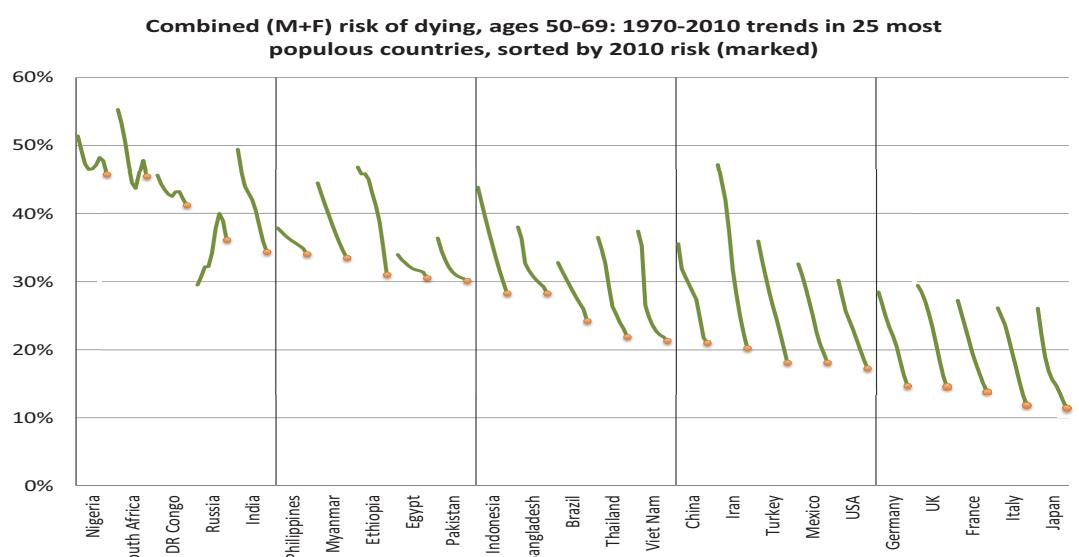
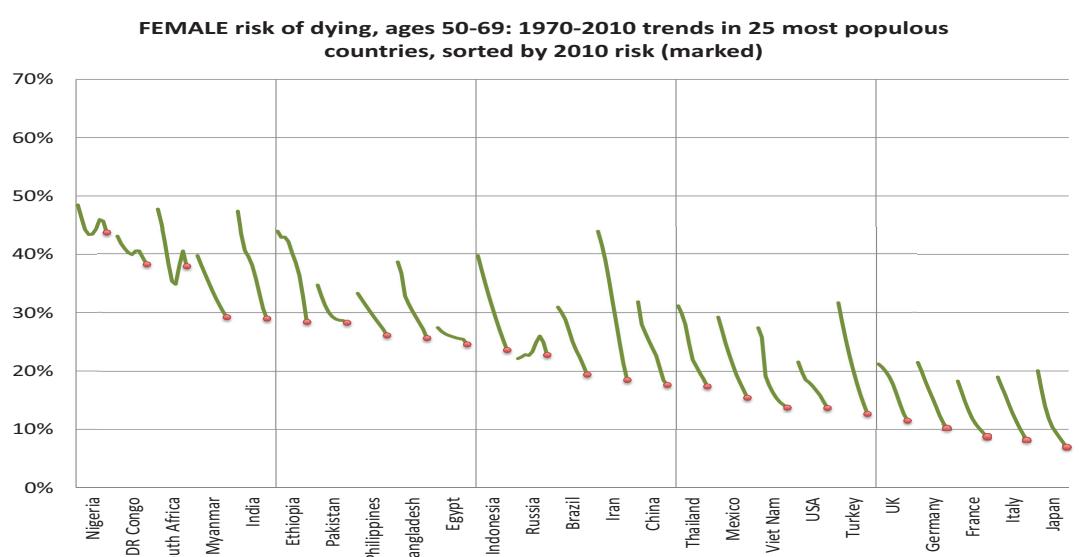
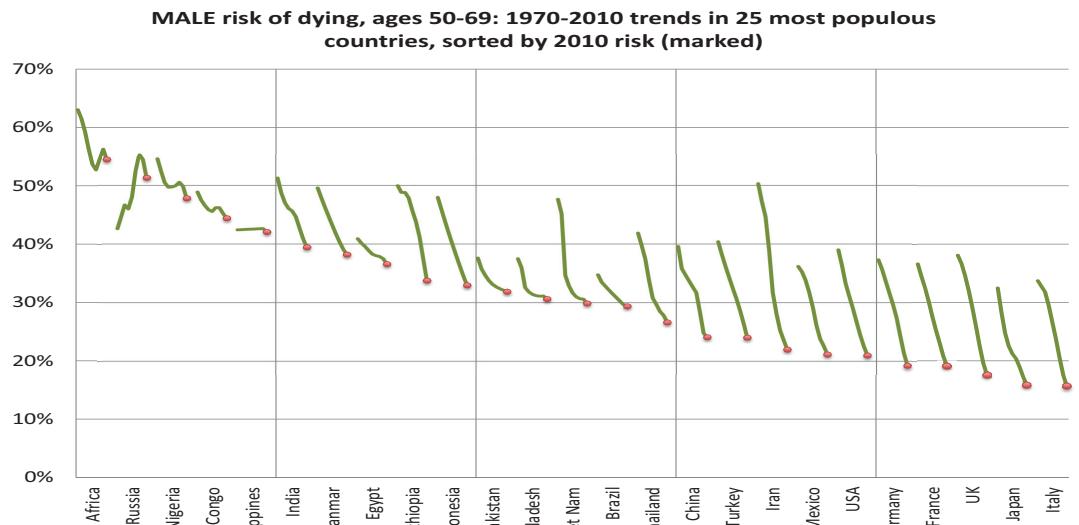
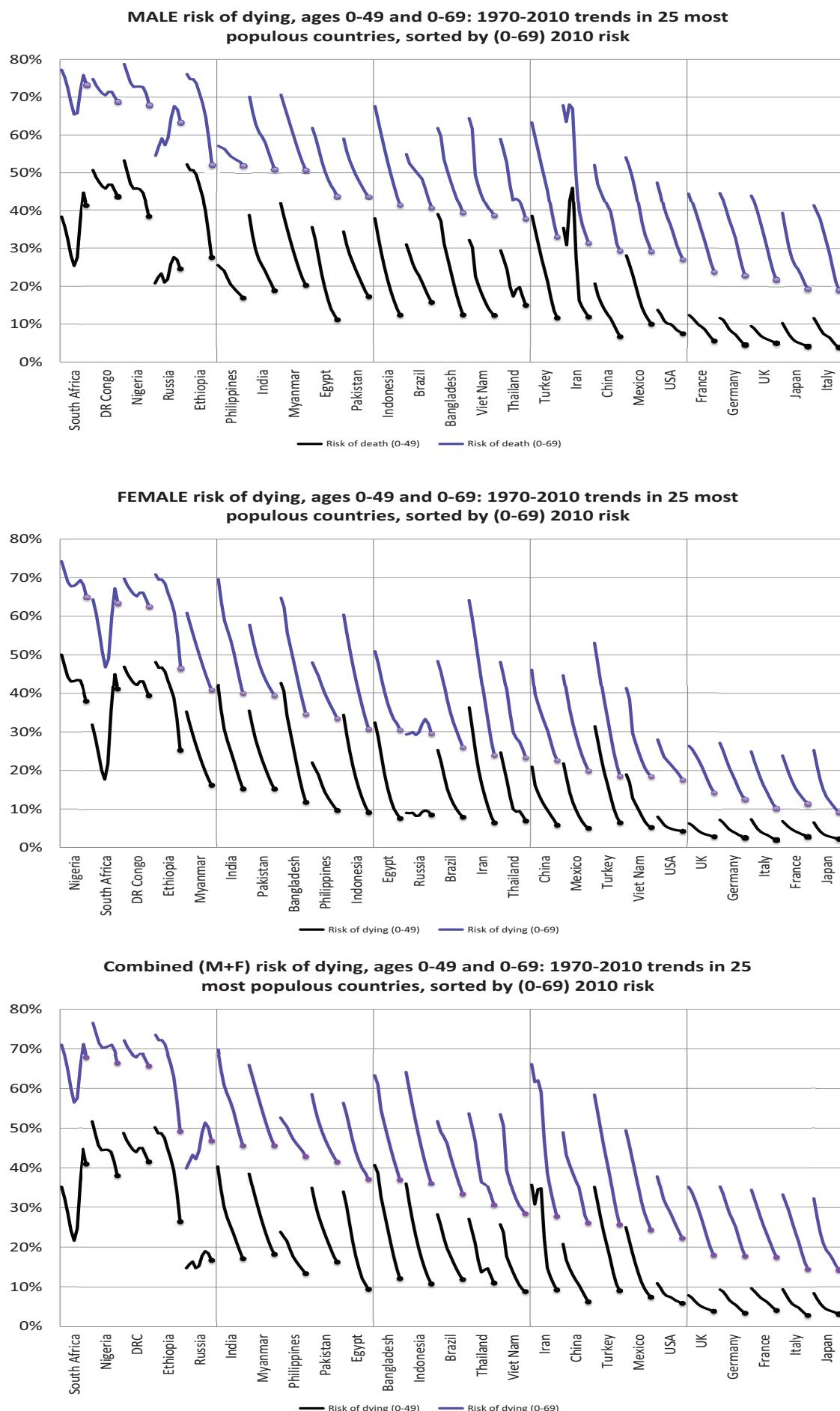


Figure 4b: Risk of death at ages 0-49 and at ages 0-69 - males, females and combined



Webtable 1 (page 1 of 4): Mortality & trends by age: 164 countries with projected 2030 population > 1 million

* # Notes on page 13	All ages	Age 0-4		Age 5-49		Age 50-69		Age 0-69	
		Population in 2030, millions #	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s
Afghanistan	43	109	-33%	119	-25%	82	-13%	310	-25%
Albania	3	1	-35%	2	-33%	7	-10%	9	-17%
Algeria	49	27	-24%	54	-12%	125	-4%	205	-9%
Angola	35	212	-28%	168	-20%	59	-14%	440	-24%
Argentina	47	10	-30%	39	-13%	107	-12%	156	-14%
Armenia	3	1	-42%	3	-23%	11	-12%	14	-17%
Australia	28	2	-20%	11	-21%	36	-25%	49	-24%
Austria	9	<0.5	-25%	3	-30%	19	-24%	23	-25%
Azerbaijan	10	6	-31%	10	-30%	42	-3%	58	-13%
Bahrain	2	<0.5	-22%	1	-26%	3	-24%	4	-24%
Bangladesh	185	140	-44%	218	-27%	505	-4%	863	-19%
Belarus	8	1	-49%	15	-7%	50	-5%	66	-6%
Belgium	12	1	-29%	5	-24%	25	-16%	30	-17%
Benin	16	53	-23%	42	-17%	30	-9%	125	-18%
Bolivia	14	17	-30%	28	-16%	27	-10%	73	-18%
Bosnia & Herzegovina	4	<0.5	-3%	2	-12%	13	-8%	15	-8%
Botswana	2	2	-37%	37	60%	7	1%	46	39%
Brazil	223	73	-30%	323	-17%	658	-15%	1,053	-16%
Bulgaria	6	1	-35%	5	-15%	27	-9%	33	-11%
Burkina Faso	27	131	-23%	87	-21%	46	-12%	265	-21%
Burundi	16	87	-15%	74	-25%	27	-17%	188	-19%
Cambodia	19	22	-43%	42	-31%	34	-25%	98	-32%
Cameroon	33	129	-14%	159	-5%	62	-5%	350	-9%
Canada	41	3	-9%	17	-15%	73	-20%	92	-18%
Central African Rep.	6	30	-13%	43	-21%	15	-9%	87	-17%
Chad	21	134	-15%	107	-14%	33	-10%	273	-14%
Chile	20	2	-31%	12	-20%	42	-19%	56	-19%
China	1,453	278	-36%	921	-30%	4,713	-15%	5,912	-19%
China, Hong Kong SAR	8	<0.5	-12%	2	-21%	14	-19%	17	-20%
Colombia	57	20	-22%	77	-17%	128	-14%	226	-16%
Comoros	1	3	-20%	3	-13%	2	-6%	8	-14%
Congo	7	24	-18%	25	-25%	13	-14%	62	-20%
Costa Rica	6	1	-17%	4	-15%	10	-13%	15	-14%
Croatia	4	<0.5	-18%	2	-21%	14	-13%	16	-14%
Cuba	11	1	-33%	6	-21%	34	-15%	40	-16%
Cyprus	1	<0.5	-40%	<0.5	-18%	2	-13%	3	-14%
Czech Republic	11	<0.5	-45%	6	-23%	32	-23%	38	-23%
Côte d'Ivoire	29	119	-14%	180	-8%	82	-6%	381	-10%
DPR (North) Korea	27	11	-46%	32	-25%	129	-8%	172	-16%
DR Congo	104	716	-13%	502	-11%	206	-7%	1,424	-12%
Denmark	6	<0.5	-26%	2	-25%	14	-24%	17	-24%
Djibouti	1	2	-18%	4	-18%	3	-10%	8	-15%

Webtable 1 (page 2 of 4): Mortality & trends by age: 164 countries with projected 2030 population > 1 million

Premature deaths in 2030, if the 2010 death rates applied to the 2030 population, and current rate of change (% per decade,* 2000-2010) in age-standardised death rate									
* # Notes on page 13	All ages	Age 0-4		Age 5-49		Age 50-69		Age 0-69	
	Population in 2030, millions #	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*
Dominican Rep.	12	6	-30%	18	-9%	29	-9%	53	-12%
Ecuador	20	8	-35%	25	-11%	31	-13%	64	-16%
Egypt	103	50	-38%	107	-17%	276	-4%	433	-13%
El Salvador	7	3	-25%	14	-8%	14	-10%	31	-11%
Equatorial Guinea	1	5	-20%	6	-12%	3	-9%	14	-14%
Eritrea	10	17	-36%	25	-32%	22	-17%	64	-29%
Estonia	1	<0.5	-56%	1	-34%	5	-19%	6	-23%
Ethiopia	138	298	-43%	432	-38%	219	-25%	950	-37%
Finland	6	<0.5	-26%	3	-18%	11	-17%	14	-17%
France	69	3	-26%	32	-25%	123	-17%	159	-19%
Gabon	2	4	-21%	8	-11%	4	-7%	16	-13%
Gambia	3	12	-21%	9	-14%	5	-9%	26	-16%
Georgia	4	1	-37%	3	-14%	14	-5%	18	-9%
Germany	80	3	-23%	29	-27%	200	-20%	232	-21%
Ghana	35	71	-22%	100	-20%	84	-10%	255	-18%
Greece	11	<0.5	-34%	4	-16%	23	-14%	28	-14%
Guatemala	23	20	-36%	42	-16%	26	-15%	88	-21%
Guinea	17	71	-26%	60	-12%	37	-6%	168	-18%
Guinea-Bissau	2	13	-15%	9	-6%	5	-6%	27	-11%
Haiti	13	19	-28%	39	-19%	30	-14%	89	-20%
Honduras	11	8	-23%	16	-15%	15	-12%	39	-16%
Hungary	10	1	-38%	9	-23%	39	-15%	49	-17%
India	1,476	1,492	-30%	2,716	-15%	5,048	-12%	9,257	-17%
Indonesia	293	143	-37%	335	-25%	946	-10%	1,423	-17%
Iran	91	30	-39%	103	-20%	202	-20%	334	-22%
Iraq	51	47	-18%	70	52%	90	21%	207	17%
Ireland	5	<0.5	-45%	2	-19%	9	-30%	12	-28%
Israel	10	1	-36%	3	-17%	11	-25%	15	-24%
Italy	61	2	-38%	17	-30%	117	-23%	136	-24%
Jamaica	3	1	-15%	4	-21%	7	-7%	13	-13%
Japan	121	3	-29%	38	-15%	194	-18%	236	-18%
Jordan	9	4	-23%	7	-18%	17	-10%	28	-14%
Kazakhstan	19	9	-39%	42	-13%	83	-21%	133	-20%
Kenya	66	163	-27%	260	-34%	105	-12%	528	-28%
Kuwait	5	1	-19%	3	-11%	8	31%	12	13%
Kyrgyzstan	7	6	-10%	11	-5%	24	9%	42	2%
Laos	9	9	-40%	14	-35%	19	-16%	42	-29%
Latvia	2	<0.5	-42%	3	-17%	9	-8%	12	-11%
Lebanon	5	1	-41%	2	-44%	9	-39%	12	-40%
Lesotho	2	5	-12%	26	13%	6	-2%	38	6%
Liberia	6	18	-46%	18	-20%	13	-8%	49	-30%
Libya	7	2	-39%	5	-26%	16	-17%	22	-21%

Webtable 1 (page 3 of 4): Mortality & trends by age: 164 countries with projected 2030 population > 1 million

Premature deaths in 2030, if the 2010 death rates applied to the 2030 population, and current rate of change (% per decade,* 2000-2010) in age-standardised death rate									
* # Notes on page 13	All ages	Age 0-4		Age 5-49		Age 50-69		Age 0-69	
	Population in 2030, millions #	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*
Lithuania	3	<0.5	-33%	4	-6%	14	6%	18	2%
Madagascar	36	68	-41%	88	-20%	65	-13%	221	-27%
Malawi	26	112	-32%	128	-33%	35	-7%	276	-30%
Malaysia	37	3	-41%	33	-12%	87	-10%	123	-12%
Mali	26	190	-22%	77	-22%	37	-14%	305	-21%
Mauritania	6	18	-8%	12	-11%	11	-5%	40	-8%
Mauritius	1	<0.5	-23%	1	-9%	5	-19%	7	-17%
Mexico	144	38	-36%	120	-17%	269	-15%	428	-18%
Mongolia	3	2	-42%	7	-14%	13	-20%	22	-21%
Morocco	39	24	-23%	43	-15%	116	-4%	184	-10%
Mozambique	39	174	-33%	270	11%	63	-12%	506	-12%
Myanmar	59	53	-20%	117	-15%	236	-7%	407	-12%
Namibia	3	3	-35%	12	-34%	7	-20%	22	-30%
Nepal	33	28	-43%	51	-33%	90	-18%	168	-28%
Netherlands	17	1	-26%	5	-26%	34	-23%	40	-24%
New Zealand	5	<0.5	-21%	2	-19%	8	-26%	11	-25%
Nicaragua	7	3	-39%	11	-19%	13	-22%	27	-23%
Niger	35	211	-40%	92	-18%	47	-7%	350	-32%
Nigeria	273	1,363	-31%	1,303	-12%	627	-7%	3,293	-20%
Norway	6	<0.5	-26%	2	-23%	9	-25%	12	-24%
Oman	5	1	-51%	5	-33%	7	-9%	13	-24%
Pakistan	232	342	-22%	342	-14%	516	-2%	1,200	-12%
Panama	5	2	-29%	5	-1%	8	-9%	15	-9%
Papua New Guinea	10	16	-21%	23	-21%	32	-12%	71	-17%
Paraguay	9	6	-17%	12	-11%	15	-11%	34	-12%
Peru	37	17	-41%	40	-17%	76	-15%	133	-20%
Philippines	128	78	-24%	204	-10%	346	-4%	627	-9%
Poland	37	2	-32%	33	-13%	123	-14%	158	-14%
Portugal	10	<0.5	-49%	6	-23%	24	-21%	30	-22%
Puerto Rico	4	<0.5	-23%	3	-22%	8	-15%	12	-17%
Qatar	3	<0.5	-31%	2	-19%	4	-16%	6	-17%
Rep. of (South) Korea	52	3	-26%	20	-42%	113	-37%	136	-38%
Rep. of Moldova	3	1	-31%	6	-8%	18	-2%	24	-4%
Romania	20	2	-40%	21	-23%	84	-15%	107	-17%
Russian Federation	134	17	-46%	332	-7%	773	-11%	1,122	-11%
Rwanda	18	42	-43%	53	-51%	28	-29%	122	-44%
Saudi Arabia	36	5	-45%	23	-33%	75	-19%	103	-24%
Senegal	22	54	-38%	48	-20%	33	-8%	135	-26%
Serbia	9	1	-23%	7	-14%	35	-7%	43	-9%
Sierra Leone	8	49	-26%	52	-30%	26	-25%	127	-28%
Singapore	7	<0.5	-37%	2	-21%	13	-25%	15	-25%
Slovakia	5	<0.5	-25%	4	-11%	20	-16%	24	-15%

Webtable 1 (page 4 of 4): Mortality & trends by age: 164 countries with projected 2030 population > 1 million

Premature deaths in 2030, if the 2010 death rates applied to the 2030 population, and current rate of change (% per decade,* 2000-2010) in age-standardised death rate									
* # Notes on page 13	All ages	Age 0-4		Age 5-49		Age 50-69		Age 0-69	
	Population in 2030, millions #	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*	Deaths in 2030, 1000s	Change, % per decade*
Slovenia	2	<0.5	-40%	1	-29%	5	-27%	7	-28%
Somalia	17	91	-18%	67	-13%	27	-7%	185	-15%
South Africa	58	62	-21%	393	22%	243	-1%	698	8%
South Sudan	17	73	-27%	78	-12%	36	-10%	187	-18%
Spain	48	2	-30%	18	-29%	91	-24%	111	-25%
Sri Lanka	23	4	-35%	21	-34%	69	-14%	94	-21%
State of Palestine	6	4	-18%	5	-19%	9	-8%	18	-13%
Sudan	55	140	-23%	152	-18%	98	-11%	391	-18%
Swaziland	2	4	-14%	16	16%	3	8%	22	8%
Sweden	11	<0.5	-27%	3	-21%	16	-21%	20	-21%
Switzerland	9	<0.5	-14%	3	-30%	14	-22%	18	-24%
Syria	30	11	-19%	22	-4%	41	-21%	73	-16%
TFYR Macedonia	2	<0.5	-31%	1	-14%	7	-8%	9	-9%
Tajikistan	11	21	-18%	15	-22%	26	-12%	62	-17%
Thailand	68	8	-33%	91	-24%	245	-8%	344	-14%
Timor-Leste	2	3	-44%	2	-45%	2	-22%	7	-40%
Togo	10	34	-16%	38	-7%	22	-3%	94	-10%
Trinidad and Tobago	1	<0.5	-17%	2	-6%	6	-10%	8	-9%
Tunisia	13	3	-35%	8	-18%	32	-9%	43	-13%
Turkey	87	24	-53%	92	-26%	175	-19%	291	-26%
Turkmenistan	6	6	-17%	13	-5%	23	1%	42	-4%
Uganda	63	220	-35%	261	-38%	83	-22%	564	-35%
Ukraine	40	5	-26%	89	3%	236	-5%	330	-3%
United Arab Emirates	12	1	-39%	10	-19%	20	-15%	30	-17%
United Kingdom	69	4	-20%	30	-14%	133	-23%	167	-22%
Tanzania	79	223	-42%	312	-35%	107	-21%	642	-36%
USA	363	36	-12%	246	-9%	760	-18%	1,041	-15%
Uruguay	4	1	-16%	2	-20%	9	-16%	12	-17%
Uzbekistan	34	30	-11%	54	-3%	109	0%	193	-3%
Venezuela	37	12	-20%	43	-12%	79	-12%	133	-13%
Viet Nam	102	24	-30%	108	-11%	280	-1%	412	-6%
Yemen	34	65	-20%	80	-10%	59	-6%	204	-13%
Zambia	25	110	-32%	117	-49%	39	-35%	266	-41%
Zimbabwe	20	33	-35%	204	-26%	27	-19%	263	-27%

* The death rates of 2000 and the (generally lower) death rates of 2010 were applied to the 2030 population (UNPD medium-fertility projection), yielding 2 numbers of 2030 deaths; change (% / decade) compares them.

Population size in 2030, UNPD medium-fertility projection

Webtable 2 (page 1 of 4): Mortality & trends by age and cause in 4 income groupings of countries**2.1: Low-income countries**

Deaths by age in 2030, if 2010 death rates in each income grouping of countries applied to their 2030 population, and current rates of change (% per decade,* 2000-2010) in under-70 age-standardised death rates							
* † ‡ Notes on page 18	Age 0-49		Age 50-69		Age 0-69		Age 70+
	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions
Communicable, Maternal, Perinatal and Nutritional							
Neonatal †	0.82	-22%	-	-	0.82	-25%	-
Respiratory infections	0.61	-32%	0.16	-18%	0.76	-27%	0.38
HIV/AIDS	0.83	-46%	0.09	-53%	0.92	-49%	0.01
Diarrhoea	0.48	-42%	0.07	-35%	0.55	-41%	0.09
Tuberculosis	0.16	-36%	0.16	-32%	0.32	-35%	0.11
Malaria	0.35	-38%	0.02	-10%	0.37	-36%	0.02
Nutritional deficiencies	0.22	-24%	0.06	-24%	0.28	-26%	0.10
Meningitis	0.17	-34%	0.03	-11%	0.19	-29%	0.02
Childhood cluster ‡	0.11	-74%	-	-	0.11	-75%	-
Maternal	0.19	-43%	-	-	0.19	-45%	-
Other communicable	0.29	-27%	0.06	-13%	0.35	-23%	0.05
Non-Communicable Diseases							
Vascular or diabetic	0.23	-15%	0.67	-6%	0.90	-10%	1.08
Neoplastic	0.20	-9%	0.38	-6%	0.58	-8%	0.24
Chronic respiratory	0.07	-29%	0.16	-16%	0.24	-20%	0.30
Cirrhotic	0.07	-13%	0.09	-4%	0.16	-9%	0.05
Other digestive	0.08	-22%	0.08	-18%	0.16	-21%	0.10
Renal	0.06	-16%	0.07	1%	0.13	-6%	0.09
Congenital	0.13	4%	-	-	0.13	-1%	0.01
Other non-communicable	0.19	2%	0.09	6%	0.27	2%	0.13
Injuries							
Non-road traffic accidents	0.59	20%	0.13	46%	0.71	26%	0.12
Road traffic accidents	0.16	3%	0.04	24%	0.19	8%	0.02
Suicide	0.08	-9%	0.03	-1%	0.10	-8%	0.02
Homicide or war	0.14	-42%	0.01	-44%	0.15	-44%	<0.01
Communicable, Maternal, Perinatal and Nutritional	4.22	-39%	0.65	-30%	4.87	-38%	0.77
Non-Communicable Diseases	1.04	-12%	1.55	-7%	2.58	-10%	2.00
Injuries	0.95	-2%	0.20	23%	1.16	4%	0.16
All causes	6.21	-30%	2.40	-13%	8.62	-24%	2.93

Webtable 2 (page 2 of 4): Mortality & trends by age and cause in 4 income groupings of countries

2.2: Lower-middle-income countries

Deaths by age in 2030, if 2010 death rates in each income grouping of countries applied to their 2030 population, and current rates of change (% per decade,* 2000-2010) in under-70 age-standardised death rates							
* †‡ Notes on page 18	Age 0-49		Age 50-69		Age 0-69		Age 70+
	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions
Communicable, Maternal, Perinatal and Nutritional							
Neonatal †	1.45	-20%	-	-	1.45	-21%	-
Respiratory infections	0.79	-35%	0.33	-17%	1.12	-28%	0.70
HIV/AIDS	0.64	8%	0.12	-15%	0.76	0%	0.01
Diarrhoea	0.60	-41%	0.29	-23%	0.89	-34%	0.44
Tuberculosis	0.26	-41%	0.38	-42%	0.65	-43%	0.28
Malaria	0.30	-28%	0.03	-23%	0.33	-28%	0.02
Nutritional deficiencies	0.14	-35%	0.05	-24%	0.19	-32%	0.09
Meningitis	0.18	-27%	0.04	-13%	0.21	-24%	0.03
Childhood cluster ‡	0.18	-66%	-	-	0.18	-66%	-
Maternal	0.18	-42%	-	-	0.18	-43%	-
Other communicable	0.41	-22%	0.18	-4%	0.59	-15%	0.16
Non-Communicable Diseases							
Vascular or diabetic	0.84	-16%	3.38	-9%	4.23	-11%	5.46
Neoplastic	0.51	-2%	1.19	-2%	1.70	-4%	0.80
Chronic respiratory	0.17	-26%	0.98	-15%	1.14	-17%	1.51
Cirrhotic	0.19	-7%	0.37	-3%	0.55	-5%	0.19
Other digestive	0.18	-25%	0.23	-20%	0.42	-22%	0.28
Renal	0.16	-13%	0.29	2%	0.45	-3%	0.33
Congenital	0.25	-14%	-	-	0.25	-15%	0.01
Other non-communicable	0.31	5%	0.25	17%	0.55	11%	0.32
Injuries							
Non-road traffic accidents	0.71	-22%	0.35	-12%	1.06	-19%	0.47
Road traffic accidents	0.39	6%	0.16	14%	0.56	8%	0.08
Suicide	0.31	-11%	0.08	-15%	0.39	-13%	0.03
Homicide or war	0.20	-6%	0.04	-10%	0.24	-8%	0.01
Communicable, Maternal, Perinatal and Nutritional	5.14	-30%	1.41	-26%	6.56	-29%	1.72
Non-Communicable Diseases	2.61	-12%	6.69	-8%	9.29	-10%	8.90
Injuries	1.62	-12%	0.63	-7%	2.25	-11%	0.60
All causes	9.37	-22%	8.74	-11%	18.11	-16%	11.22

Webtable 2 (page 3 of 4): Mortality & trends by age and cause in 4 income groupings of countries**2.3: Upper-middle-income countries**

Deaths by age in 2030, if 2010 death rates in each income grouping of countries applied to their 2030 population, and current rates of change (% per decade,* 2000-2010) in under-70 age-standardised death rates							
* † ‡ Notes on page 18	Age 0-49		Age 50-69		Age 0-69		Age 70+
	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions
Communicable, Maternal, Perinatal and Nutritional							
Neonatal †	0.25	-40%	-	-	0.25	-40%	-
Respiratory infections	0.13	-56%	0.15	-16%	0.29	-41%	0.62
HIV/AIDS	0.31	12%	0.10	39%	0.41	17%	0.01
Diarrhoea	0.06	-49%	0.02	-38%	0.08	-47%	0.03
Tuberculosis	0.06	-53%	0.08	-51%	0.14	-52%	0.06
Malaria	0.02	-	<0.01	-	0.02	-	<0.01
Nutritional deficiencies	0.02	-	0.02	-	0.04	-	0.07
Meningitis	0.03	-	0.01	-	0.03	-	0.01
Childhood cluster ‡	0.01	-	-	-	0.01	-	-
Maternal	0.02	-	-	-	0.02	-	-
Other communicable	0.06	-37%	0.08	-23%	0.14	-30%	0.09
Non-Communicable Diseases							
Vascular or diabetic	0.50	-22%	3.75	-20%	4.25	-22%	10.35
Neoplastic	0.45	-23%	2.24	-10%	2.69	-13%	3.20
Chronic respiratory	0.05	-45%	0.53	-49%	0.58	-49%	2.28
Cirrhotic	0.07	-28%	0.22	-23%	0.29	-25%	0.15
Other digestive	0.05	-25%	0.18	-25%	0.23	-26%	0.37
Renal	0.05	-28%	0.15	-13%	0.20	-17%	0.28
Congenital	0.11	-16%	-	-	0.11	-15%	0.01
Other non-communicable	0.13	-10%	0.20	2%	0.33	-3%	0.45
Injuries							
Non-road traffic accidents	0.31	-40%	0.26	-21%	0.57	-33%	0.33
Road traffic accidents	0.30	5%	0.19	29%	0.49	13%	0.13
Suicide	0.11	-50%	0.11	-45%	0.22	-48%	0.10
Homicide or war	0.16	-25%	0.04	-43%	0.20	-30%	0.01
Communicable, Maternal, Perinatal and Nutritional	0.97	-35%	0.46	-22%	1.43	-32%	0.91
Non-Communicable Diseases	1.42	-23%	7.26	-21%	8.68	-22%	17.08
Injuries	0.88	-29%	0.60	-19%	1.47	-26%	0.58
All causes	3.27	-29%	8.33	-21%	11.60	-23%	18.58

Webtable 2 (page 4 of 4): Mortality & trends by age and cause in 4 income groupings of countries

2.4: High-income countries

Deaths by age in 2030, if 2010 death rates in each income grouping of countries applied to their 2030 population, and current rates of change (% per decade,* 2000-2010) in under-70 age-standardised death rates							
* † ‡ Notes on page 18	Age 0-49		Age 50-69		Age 0-69		Age 70+
	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions	Change, % per decade*	Deaths in 2030, millions
Communicable, Maternal, Perinatal and Nutritional							
Neonatal †	0.03	-	-	-	0.03	-	-
Respiratory infections	0.01	-	0.04	-	0.05	-	0.48
HIV/AIDS	0.01	-	0.01	-	0.01	-	<0.01
Diarrhoea	<0.01	-	<0.01	-	<0.01	-	0.03
Tuberculosis	<0.01	-	<0.01	-	<0.01	-	0.01
Malaria	<0.01	-	<0.01	-	<0.01	-	<0.01
Nutritional deficiencies	<0.01	-	<0.01	-	<0.01	-	0.03
Meningitis	<0.01	-	<0.01	-	<0.01	-	<0.01
Childhood cluster ‡	<0.01	-	-	-	<0.01	-	-
Maternal	<0.01	-	-	-	<0.01	-	-
Other communicable	0.01	-	0.04	-	0.05	-	0.14
Non-Communicable Diseases							
Vascular or diabetic	0.15	-21%	0.67	-29%	0.82	-28%	4.30
Neoplastic	0.13	-21%	1.00	-12%	1.13	-13%	2.46
Chronic respiratory	0.01	-	0.11	-10%	0.12	-11%	0.73
Cirrhotic	0.02	-	0.08	-13%	0.10	-17%	0.06
Other digestive	0.01	-	0.06	-7%	0.07	-10%	0.31
Renal	0.01	-	0.04	0%	0.04	-3%	0.30
Congenital	0.02	-	-	-	0.02	-	-
Other non-communicable	0.06	5%	0.13	21%	0.19	15%	1.05
Injuries							
Non-road traffic accidents	0.05	-	0.06	0%	0.10	-10%	0.24
Road traffic accidents	0.05	-38%	0.03	-32%	0.08	-36%	0.03
Suicide	0.07	-1%	0.06	3%	0.13	1%	0.05
Homicide or war	0.02	-12%	0.01	-5%	0.02	-11%	<0.01
Communicable, Maternal, Perinatal and Nutritional	0.06	-28%	0.09	-9%	0.16	-19%	0.71
Non-Communicable Diseases	0.42	-17%	2.09	-17%	2.51	-17%	9.23
Injuries	0.19	-20%	0.15	-7%	0.34	-15%	0.32
All causes	0.67	-20%	2.34	-16%	3.00	-16%	10.27

Notes to Webtable 2:

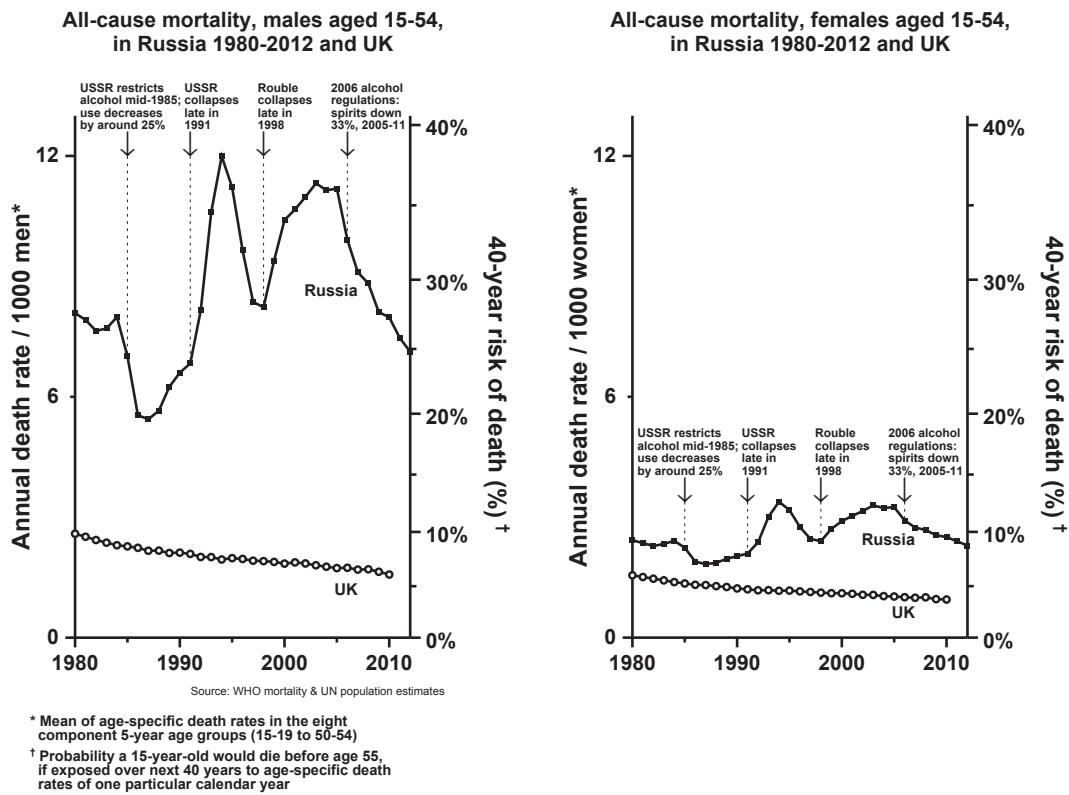
Countries are classified according to the World Bank income groupings (World Bank list of economies, July 2012) as low, lower-middle, upper-middle or high-income.

* The death rates of 2000 and the (generally lower) death rates of 2010 were applied to the 2030 population (UNPD medium-variant projection), yielding two numbers of 2030 deaths; change (% per decade) compares them. NB This change is identical to the change the age-standardised death rate from 2000 to 2010, if both rates are standardised to the age distribution of the world population in 2030.

† Conditions arising in the perinatal period (ICD-10 P00-P96); mostly avoidable.
NB Excludes congenital malformations.

‡ Diphtheria, pertussis, tetanus, poliomyelitis, measles; all are vaccine-preventable.

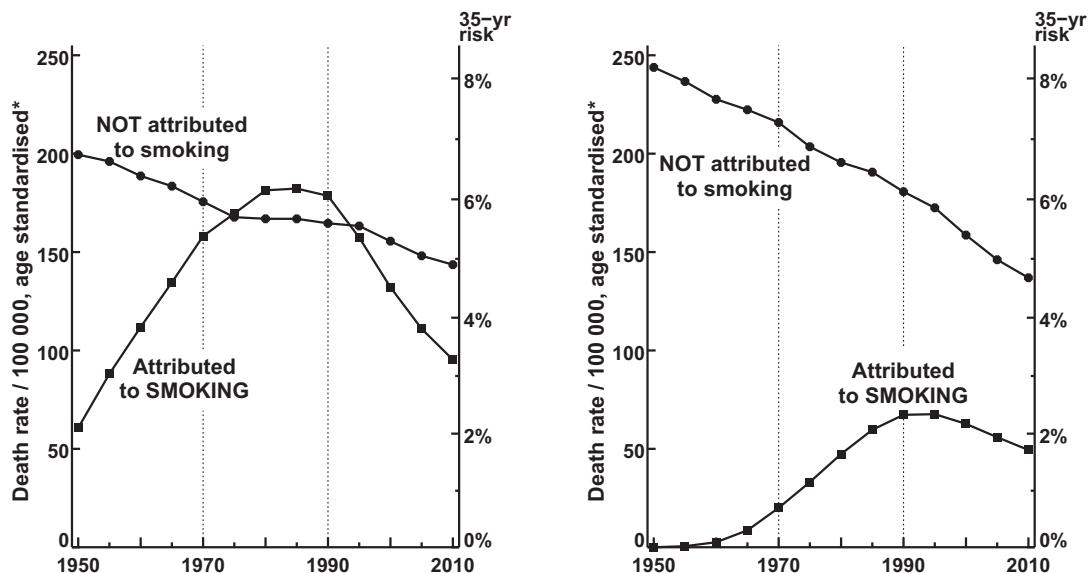
Web Figure 5: Russia: Alcohol and all-cause mortality trends, 1980-2012



Source: Zaridze D, Lewington S, Boroda A, Scélo G, Karpov R, Lazarev A, et al. Alcohol and mortality in Russia: prospective observational study of 151,000 adults. Lancet. 2014; 383 (9927): 1465-73. doi:10.1016/S0140-6736(13)62247-3.

Web Figure 6: US: Smoking and cancer mortality trends, 1950-2010

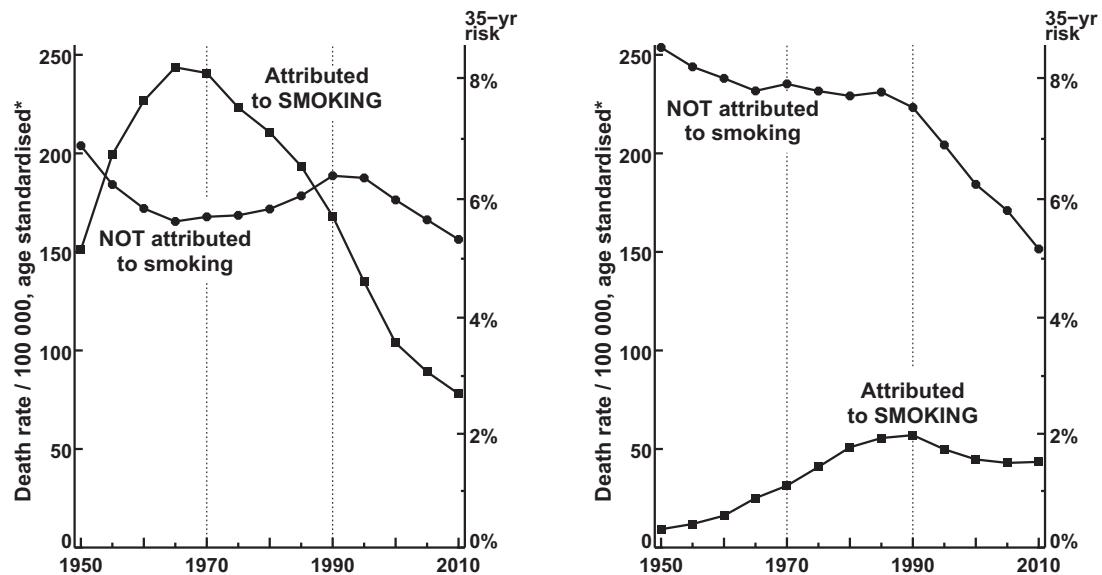
**US cancer mortality 1950-2010 attributed to smoking, or not:
Rates & 35-yr % risk at ages 35-69 (left – male, right – female)**



Source: Methods of Peto R, Lopez AD, Boreham J, Thun M, Heath C Jr. Mortality from tobacco in developed countries: indirect estimation from national vital statistics Lancet 1992; 339: 1268-78, applied to WHO mortality statistics and UN population estimates.

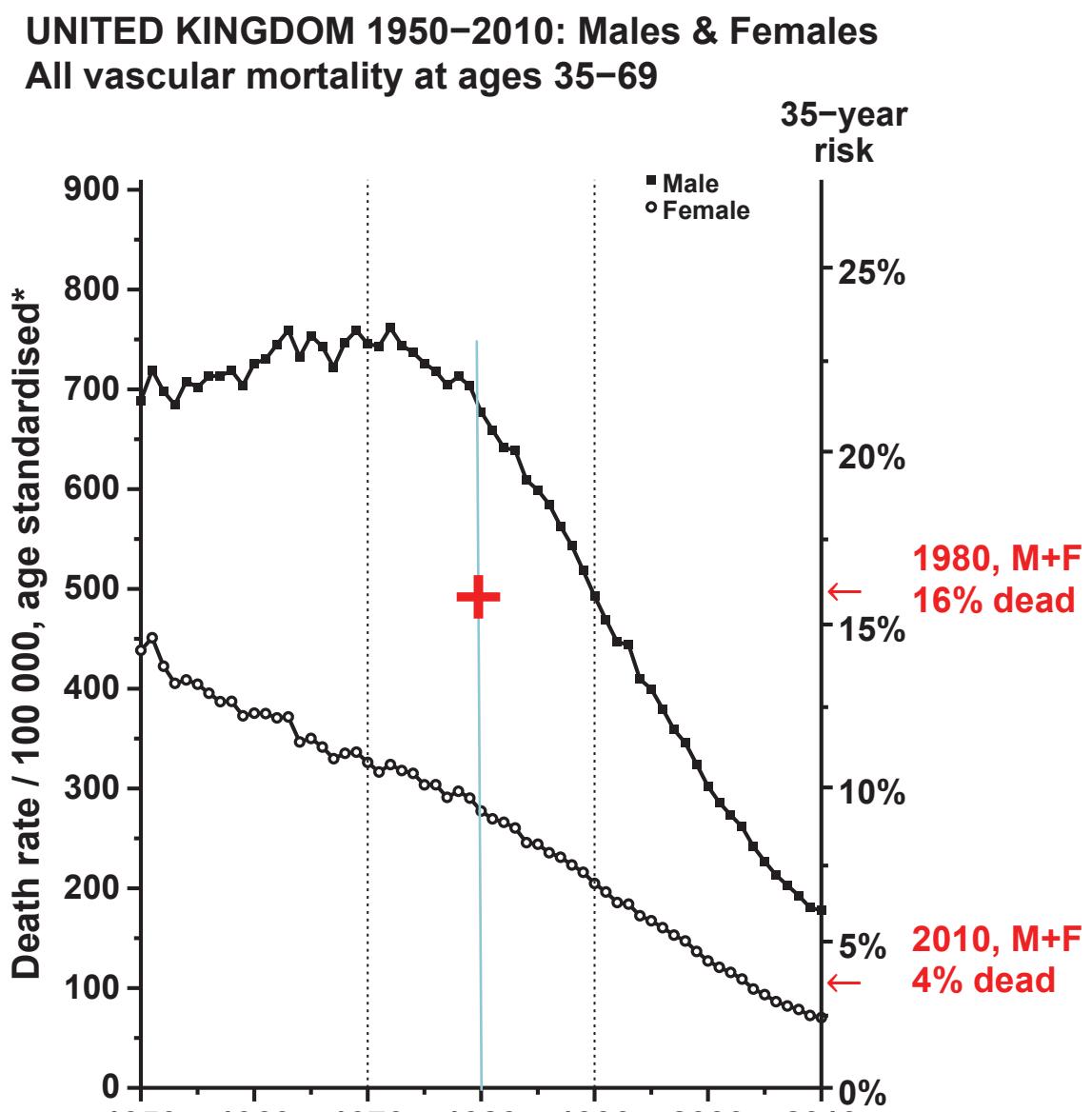
Web Figure 7: UK: Smoking and cancer mortality trends, 1950-2010

**UK cancer mortality 1950-2010 attributed to smoking, or not:
Rates & 35-yr % risk at ages 35-69 (left – male, right – female)**



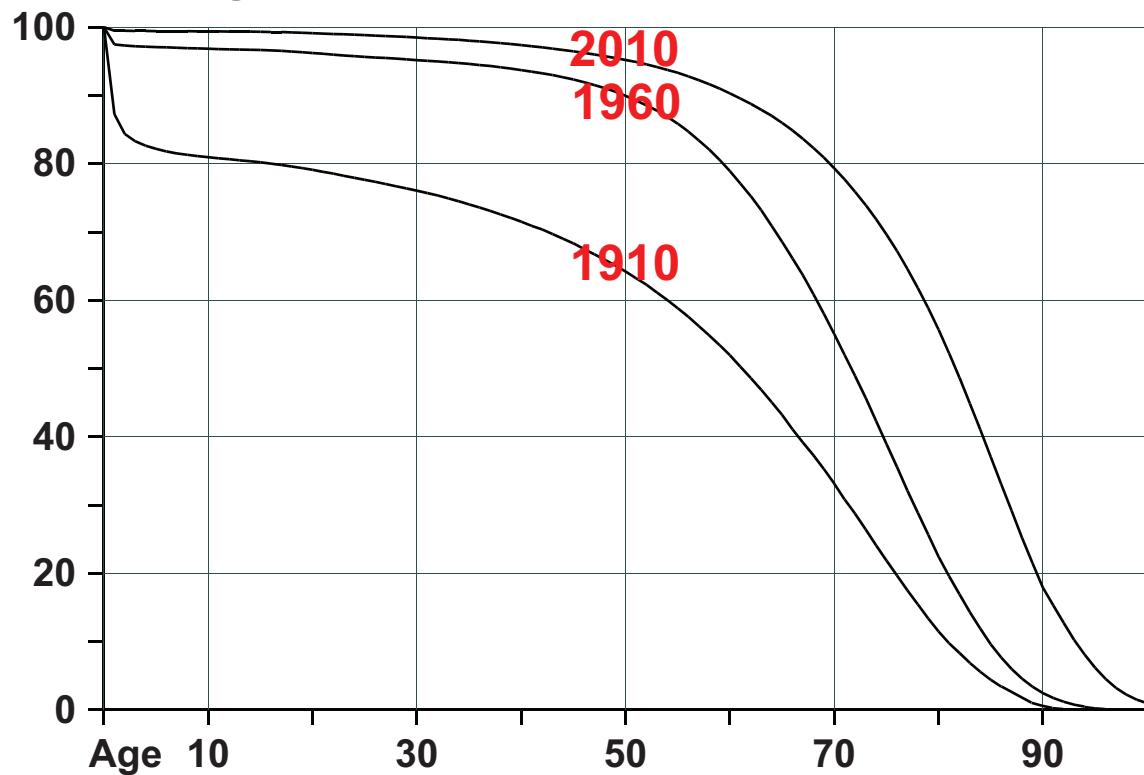
Source: Methods of Peto R, Lopez AD, Boreham J, Thun M, Heath C Jr. Mortality from tobacco in developed countries: indirect estimation from national vital statistics Lancet 1992; 339: 1268-78, applied to WHO mortality statistics and UN population estimates.

Web Figure 8: UK: Overall vascular mortality trends, 1950-2010

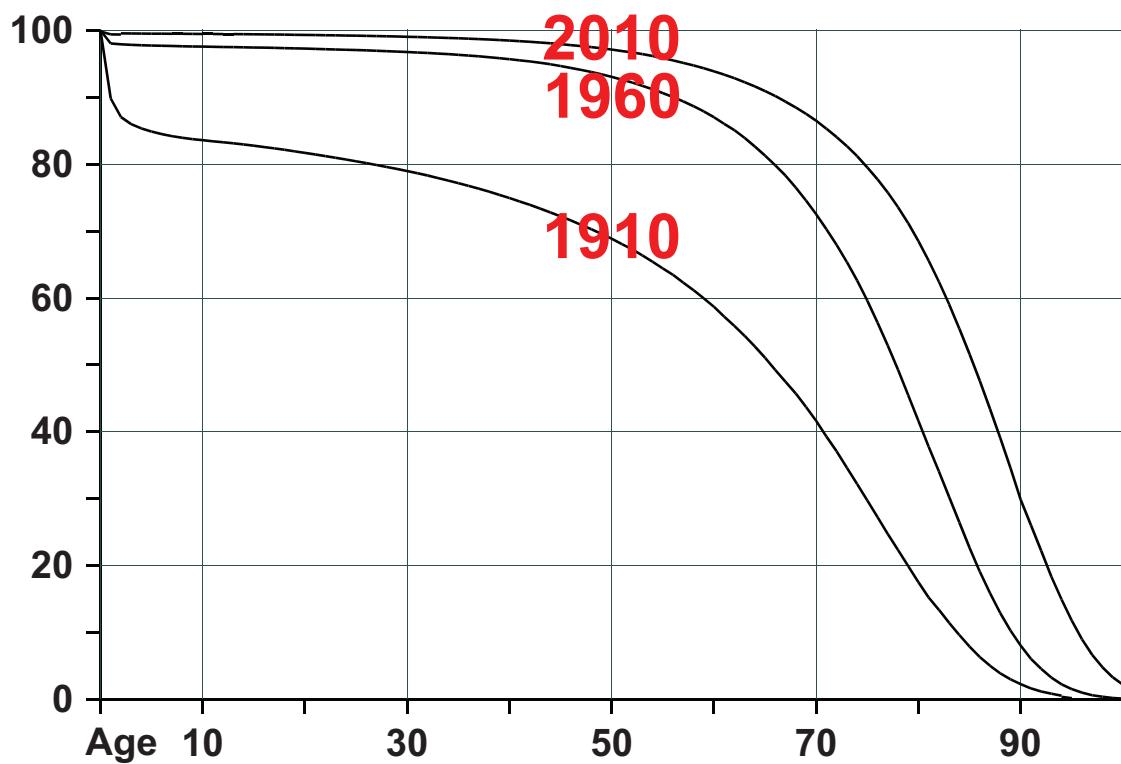


Web Figure 9: England and Wales: all-cause mortality by age, 1910-2010

Males, England & Wales, % survival at period rates



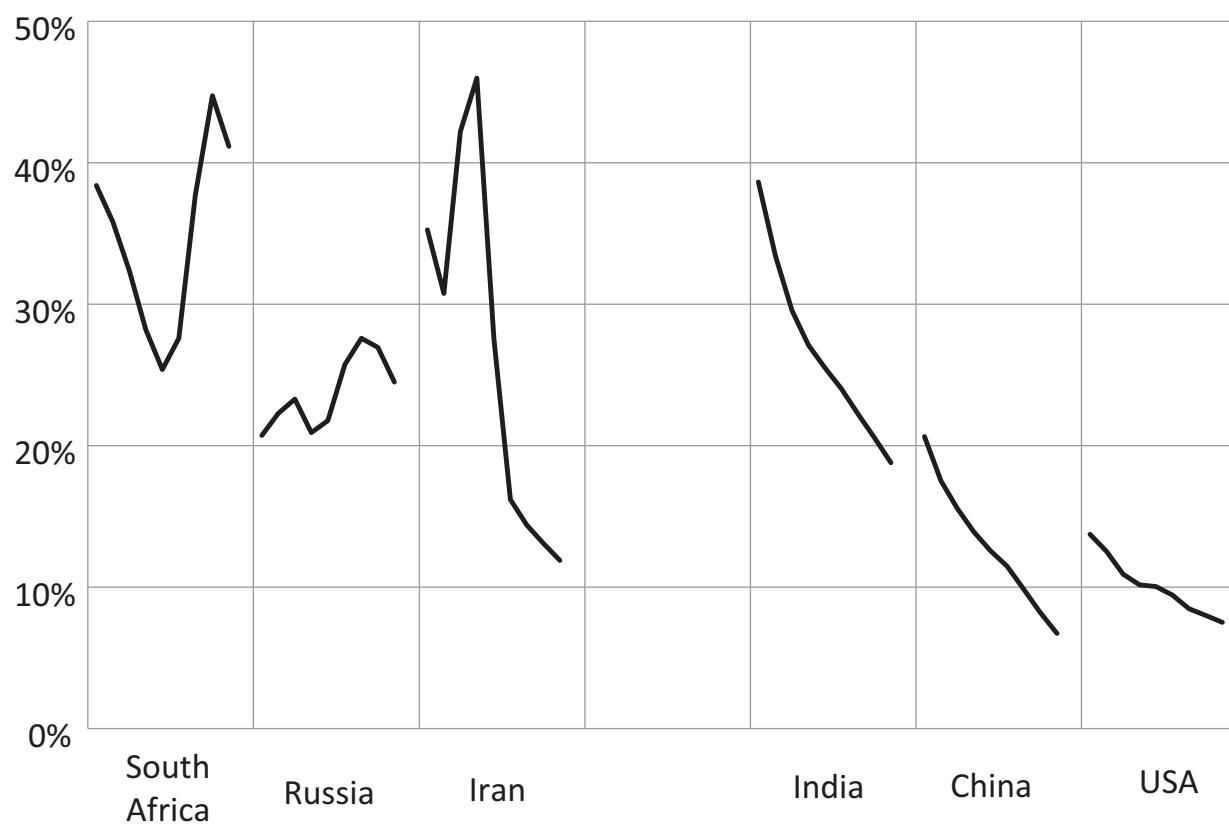
Females, England & Wales, % survival at period rates



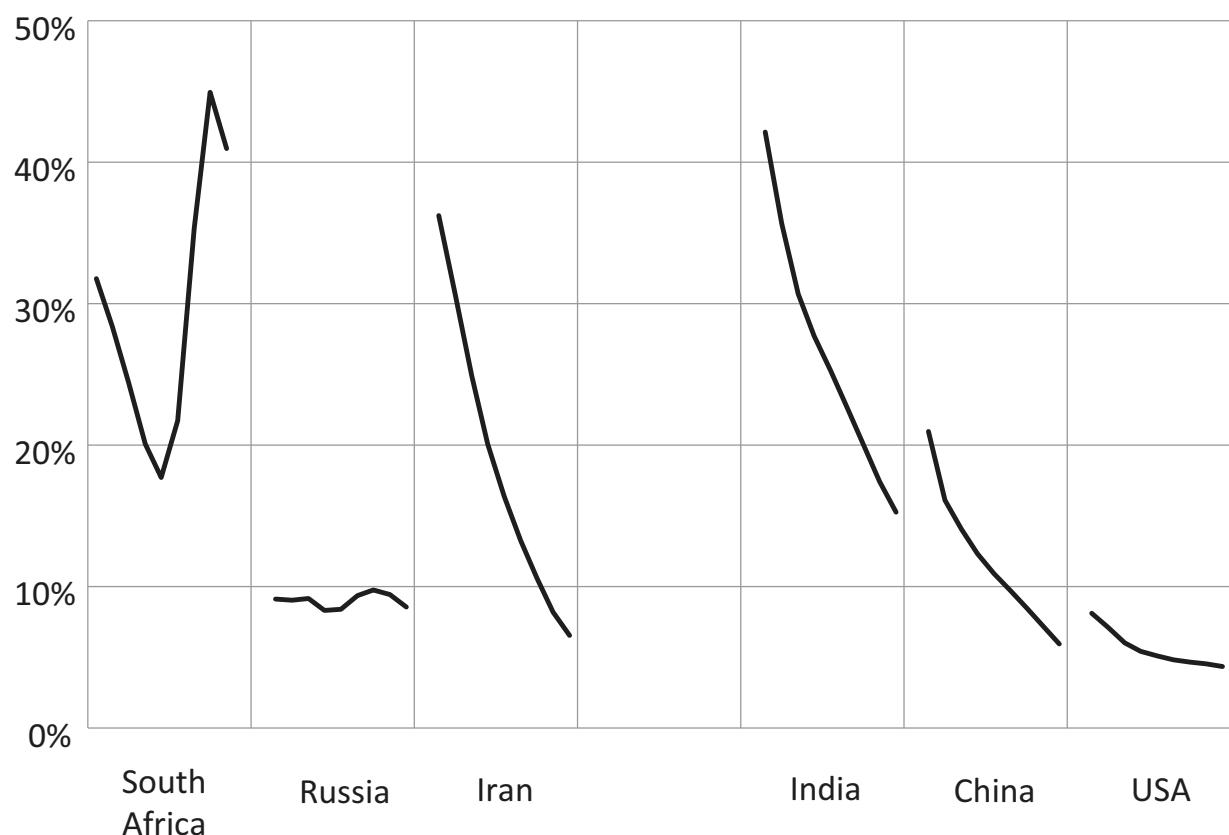
Source: Gary Whitlock, CTSU, from Registrar-General reports and Human Mortality Database

Web Figure 10: 6 selected countries (South Africa, Russia, Iran, India, China, USA): under-50 mortality (from webfig 4b), 1970-2010 – males and females

MALE under-50 mortality 1970-2010: 6 countries



FEMALE under-50 mortality 1970-2010: 6 countries



Webtable 3 (page 1 of 2): World and four groups of countries, low- to high-income: estimated risks of death at ages 0-4, 5-49 and 50-69 years at the death rates of about 1970, 2010, and intermediate years – males

Source: UNPD data underlying Web figure 2, but with under-5 mortality uncorrected, hence slightly higher than deaths/livebirths. Risks are for survivors at the start of the age range. Risks average previous and subsequent 5-year time periods (so 1970 risk is the mean of 1965-70 and 1970-75 risks; 2010 risk is the mean of 2005-10 risks and UNPD projection for the 2010-15 risks), smoothing any sudden changes.

Males	Period	Risk of dying (0-4)	Risk of dying (5-49)	Risk of dying (50-69)	Risk of dying (0-49)	Risk of dying (0-69)
World	1970	0.14	0.18	0.42	0.29	0.59
	1975	0.13	0.16	0.40	0.27	0.56
	1980	0.11	0.15	0.38	0.25	0.54
	1985	0.10	0.14	0.37	0.23	0.51
	1990	0.09	0.14	0.36	0.22	0.50
	1995	0.08	0.14	0.35	0.21	0.49
	2000	0.08	0.13	0.33	0.20	0.47
	2005	0.07	0.13	0.31	0.18	0.44
	2010	0.06	0.12	0.29	0.17	0.41
Low-income	1970	0.24	0.31	0.48	0.48	0.73
	1975	0.23	0.30	0.47	0.46	0.71
	1980	0.21	0.28	0.44	0.43	0.68
	1985	0.19	0.25	0.42	0.39	0.65
	1990	0.18	0.24	0.41	0.38	0.64
	1995	0.16	0.25	0.41	0.37	0.63
	2000	0.14	0.25	0.40	0.35	0.61
	2005	0.12	0.22	0.38	0.32	0.58
	2010	0.11	0.19	0.37	0.28	0.55
Lower-middle-income	1970	0.18	0.24	0.48	0.38	0.68
	1975	0.16	0.21	0.46	0.34	0.64
	1980	0.14	0.19	0.44	0.30	0.61
	1985	0.12	0.18	0.43	0.28	0.59
	1990	0.11	0.17	0.43	0.26	0.58
	1995	0.10	0.17	0.42	0.25	0.57
	2000	0.09	0.16	0.41	0.24	0.55
	2005	0.08	0.15	0.40	0.22	0.53
	2010	0.07	0.14	0.38	0.20	0.51
Upper-middle-income	1970	0.11	0.14	0.40	0.24	0.54
	1975	0.10	0.13	0.37	0.21	0.50
	1980	0.08	0.13	0.36	0.20	0.49
	1985	0.06	0.12	0.35	0.18	0.47
	1990	0.05	0.11	0.34	0.16	0.44
	1995	0.04	0.11	0.33	0.15	0.43
	2000	0.04	0.10	0.30	0.13	0.40
	2005	0.03	0.09	0.27	0.12	0.36
	2010	0.03	0.08	0.26	0.11	0.34
High-income	1970	0.04	0.11	0.37	0.14	0.47
	1975	0.03	0.11	0.36	0.14	0.45
	1980	0.02	0.10	0.34	0.13	0.43
	1985	0.02	0.09	0.32	0.11	0.40
	1990	0.02	0.09	0.31	0.11	0.38
	1995	0.01	0.09	0.30	0.11	0.37
	2000	0.01	0.09	0.28	0.10	0.35
	2005	0.01	0.08	0.25	0.09	0.32
	2010	0.01	0.08	0.23	0.08	0.29

Webtable 3 (page 2 of 2): World and four groups of countries, low- to high-income: estimated risks of death at ages 0-4, 5-49 and 50-69 years at the death rates of about 1970, 2010, and intermediate years – females

Source: UNPD data underlying Web figure 2, but with under-5 mortality uncorrected, hence slightly higher than deaths/livebirths. Risks are for survivors at the start of the age range. Risks average previous and subsequent 5-year time periods (so 1970 risk is the mean of 1965-70 and 1970-75 risks; 2010 risk is the mean of 2005-10 risks and UNPD projection for the 2010-15 risks), smoothing any sudden changes.

Females	Period	Risk of dying (0-4)	Risk of dying (5-49)	Risk of dying (50-69)	Risk of dying (0-49)	Risk of dying (0-69)
World	1970	0.14	0.16	0.30	0.27	0.49
	1975	0.12	0.14	0.28	0.24	0.45
	1980	0.11	0.12	0.27	0.22	0.42
	1985	0.10	0.11	0.26	0.19	0.40
	1990	0.09	0.10	0.25	0.18	0.38
	1995	0.08	0.10	0.24	0.17	0.37
	2000	0.07	0.10	0.23	0.16	0.35
	2005	0.06	0.09	0.21	0.15	0.33
	2010	0.05	0.08	0.20	0.13	0.31
Low-income	1970	0.22	0.29	0.43	0.45	0.68
	1975	0.21	0.28	0.41	0.43	0.66
	1980	0.19	0.25	0.38	0.40	0.63
	1985	0.18	0.23	0.37	0.37	0.60
	1990	0.16	0.23	0.35	0.35	0.58
	1995	0.15	0.23	0.34	0.35	0.57
	2000	0.13	0.24	0.33	0.34	0.56
	2005	0.11	0.22	0.32	0.31	0.53
	2010	0.10	0.18	0.30	0.26	0.48
Lower-middle-income	1970	0.18	0.24	0.40	0.38	0.63
	1975	0.16	0.20	0.38	0.33	0.58
	1980	0.14	0.17	0.35	0.29	0.54
	1985	0.12	0.15	0.34	0.26	0.51
	1990	0.11	0.14	0.33	0.24	0.49
	1995	0.10	0.13	0.32	0.22	0.47
	2000	0.09	0.13	0.31	0.20	0.45
	2005	0.07	0.12	0.29	0.18	0.42
	2010	0.06	0.11	0.28	0.16	0.40
Upper-middle-income	1970	0.11	0.13	0.31	0.22	0.47
	1975	0.08	0.11	0.28	0.18	0.41
	1980	0.07	0.09	0.27	0.16	0.38
	1985	0.06	0.08	0.25	0.13	0.35
	1990	0.05	0.07	0.24	0.12	0.33
	1995	0.04	0.07	0.23	0.11	0.31
	2000	0.04	0.06	0.21	0.10	0.29
	2005	0.03	0.06	0.19	0.09	0.27
	2010	0.02	0.05	0.18	0.08	0.25
High-income	1970	0.03	0.06	0.21	0.09	0.28
	1975	0.02	0.05	0.20	0.08	0.26
	1980	0.02	0.05	0.19	0.07	0.24
	1985	0.02	0.04	0.17	0.06	0.22
	1990	0.01	0.04	0.16	0.05	0.21
	1995	0.01	0.04	0.16	0.05	0.20
	2000	0.01	0.04	0.15	0.05	0.19
	2005	0.01	0.04	0.13	0.04	0.17
	2010	0.01	0.03	0.12	0.04	0.16