

5. Discussion and conclusions

This paper has described the methods used to produce first estimates of healthy life expectancy (DALE) for 191 countries in 1999. These estimates are based on a very substantial information and analytic base for mortality rates and life expectancies, cause of death distributions, internally consistent estimates of the incidence, prevalence and disability distributions for 109 disease and injury causes by age group, sex and region of the world, and an analysis of 60 representative health surveys across the world.

As with any innovative approach, methods and data sources can and will be refined and improved. Careful scrutiny and use of the DALE results reported here will lead to progressively better estimates. A wide range of people from WHO programs, from countries and other agencies have already been involved and consulted in the development of these initial estimates of DALE for WHO member countries. It is anticipated that continuing and increasing collaboration and consultation will lead to progressive refinement and improvement of the initial estimates presented here.

Over the next few years, WHO is planning a range of methodological and data collection exercises to improve and extend the information base underpinning the estimates of healthy life expectancies for Member States. These include:

- Improved methods for calculating life tables for WHO member states and for estimating cause of death distributions,
- Complete revision of the Global Burden of Disease Study for 14 regions of the world for the year 2000. To the extent possible, this will also provide country-level estimates of the incidence, prevalence and severity of specific health conditions causing significant levels of disability. It will involve widespread consultation with countries and with epidemiologists and other disease experts.
- Improving the comparability and reliability of health survey data.

WHO is developing a standardized description of health states for use in population surveys and health state valuation. The resulting instrument is being piloted in 10 countries over the next year and will also be validated against objective measurements. The objective is to develop an instrument with the maximum cross-cultural validity, and usability by younger and older adults with widely varying education levels and cultural backgrounds, and to understand better the systematic determinants of differences between self-report and underlying true health.

Another objective for the ongoing WHO population survey work is to facilitate reliable and valid measurements of valuations of time spent in health states in populations across the world. The aim is to obtain large scale empirical assessment in many different countries to inform health state valuations for the calculation of DALES for Member States.

Future burden of disease analyses should ensure to the extent possible, that there is consistency between the condition-specific estimates for disabling sequelae and measured population levels of these impairments and disabilities. Given the limitations of self-report general disability data, both in terms of underreporting of certain types and causes of disability, and in terms of the problems of ensuring comparability of self-report data across populations, it is likely that the combination of condition-specific analyses with population-level data for specific disabilities and impairments will continue to be the analytic approach of choice for some considerable time. The use of population-level impairment and disability data

will also assist in developing improved methods for addressing comorbidity. This approach is also required for causal attribution, where it will be critical to link diseases, injuries and risk factors to one or several average health states.

The new WHO framework for performance assessment also measures health inequality across individuals. Eventually it will use inequalities in DALE. For the World Health Report 2000, inequality has been measured by looking at differences in child survival, because that data is available now. As adult data are added, it is planned to estimate inequalities in DALE for Member States.

In conclusion, we believe that healthy life expectancy (DALE) is the most appropriate single summary measure of population health for the measurement of level of health for Member States. Unlike other forms of health expectancy, it takes into account differences in the severity distribution of health states between populations. As WHO is concerned not just to increase the numbers of people in full health, but also to reduce the severity of disability for people in less than full health, DALE is the most appropriate summary measure for the comparison of level of health of populations. Improvements in the estimation of DALE for Member States will require further collaborative efforts between WHO and Member States to improve population health survey data, to improve the completeness of death registration systems, and to improve the estimation of burden of diseases and injuries at country level.

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ANNEX TABLE

Annex Table A. Disability-adjusted life expectancy (DALE) and life expectancy (LE) at birth and age 60, by sex, WHO Member States, 1999

Rank	Uncertainty range ^a	Member State	Total population at birth	Disability-adjusted life expectancy (DALE) in years									Life expectancy at birth (years)		Expected years lost to disability at birth (DLE ^b)		Per cent of total life expectancy lost to disability		
				Males			Females			At birth	Uncertainty range ^a	At age 60	Uncertainty range ^a	Males	Females	Males	Females	Males	Females
				At birth	Uncertainty range ^a	At age 60	At birth	Uncertainty range ^a	At age 60										
1	1	Japan	74.5	71.9	71.6 - 72.3	17.5	17.3 - 18.1	77.2	76.9 - 78.0	21.6	21.3 - 22.4	77.6	84.3	5.7	7.1	7.3	8.4		
2	2 - 10	Australia	73.2	70.8	70.5 - 71.3	16.8	16.6 - 17.3	75.5	75.2 - 76.2	20.2	19.9 - 20.9	76.8	82.2	6.0	6.7	7.8	8.1		
3	2 - 7	France	73.1	69.3	69.0 - 69.7	16.8	16.5 - 17.4	76.9	76.5 - 77.8	21.7	21.4 - 22.7	74.9	83.6	5.6	6.7	7.5	8.0		
4	2 - 8	Sweden	73.0	71.2	70.9 - 71.8	16.8	16.5 - 17.3	74.9	74.4 - 75.7	19.6	19.4 - 20.5	77.1	81.9	5.9	7.0	7.7	8.5		
5	3 - 11	Spain	72.8	69.8	69.1 - 70.6	16.8	16.4 - 17.6	75.7	75.3 - 76.6	20.1	19.8 - 21.0	75.3	82.1	5.5	6.4	7.3	7.7		
6	3 - 10	Italy	72.7	70.0	69.7 - 70.5	16.2	16.0 - 16.8	75.4	75.0 - 76.2	19.9	19.6 - 20.7	75.4	82.1	5.4	6.7	7.1	8.2		
7	5 - 11	Greece	72.5	70.5	70.2 - 70.9	16.9	16.6 - 17.3	74.6	74.2 - 75.2	18.8	18.6 - 19.5	75.5	80.5	5.0	5.9	6.7	7.4		
8	4 - 11	Switzerland	72.5	69.5	69.0 - 70.2	16.0	15.7 - 16.7	75.5	75.0 - 76.5	20.6	20.3 - 21.6	75.6	83.0	6.1	7.5	8.1	9.1		
9	2 - 15	Monaco	72.4	68.5	67.5 - 69.6	16.4	15.9 - 17.2	76.3	75.6 - 77.3	21.5	21.1 - 22.5	74.7	83.6	6.2	7.3	8.3	8.7		
10	6 - 15	Andorra	72.3	69.3	68.6 - 70.2	16.3	15.9 - 17.0	75.2	74.6 - 76.2	20.0	19.6 - 20.9	75.4	82.2	6.1	7.0	8.0	8.5		
11	5 - 17	San Marino	72.3	69.5	68.6 - 70.5	15.7	15.3 - 16.5	75.0	74.4 - 76.0	19.6	19.2 - 20.5	75.3	82.0	5.8	7.0	7.7	8.6		
12	8 - 14	Canada	72.0	70.0	69.7 - 70.5	16.0	15.8 - 16.6	74.0	73.6 - 74.9	18.9	18.6 - 19.8	76.2	81.9	6.2	7.8	8.1	9.6		
13	8 - 15	Netherlands	72.0	69.6	69.3 - 70.1	15.4	15.3 - 16.0	74.4	74.0 - 75.3	19.7	19.4 - 20.6	75.0	81.1	5.4	6.7	7.2	8.2		
14	11 - 17	United Kingdom	71.7	69.7	69.4 - 70.1	15.7	15.5 - 16.2	73.7	73.5 - 74.4	18.6	18.3 - 19.2	74.7	79.7	5.0	6.0	6.7	7.5		
15	11 - 18	Norway	71.7	68.8	68.5 - 69.3	15.1	15.0 - 15.7	74.6	74.2 - 75.3	19.7	19.4 - 20.6	75.1	82.1	6.3	7.6	8.4	9.2		
16	11 - 17	Belgium	71.6	68.7	68.4 - 69.2	15.8	15.6 - 16.4	74.6	74.2 - 75.3	19.6	19.3 - 20.4	74.5	81.3	5.8	6.7	7.8	8.2		
17	12 - 18	Austria	71.6	68.8	68.4 - 69.4	15.2	15.0 - 15.8	74.4	74.1 - 75.1	18.7	18.4 - 19.4	74.4	80.4	5.6	6.0	7.5	7.4		
18	15 - 20	Luxembourg	71.1	68.0	67.6 - 68.7	15.8	15.2 - 16.8	74.2	73.7 - 75.2	19.7	19.0 - 21.0	74.5	81.4	6.5	7.2	8.7	8.8		
19	18 - 23	Iceland	70.8	69.2	68.6 - 70.1	14.9	14.2 - 15.9	72.3	71.7 - 73.4	17.0	16.4 - 18.3	76.1	80.4	6.8	8.1	9.0	10.0		
20	19 - 24	Finland	70.5	67.2	66.9 - 67.7	14.5	14.2 - 15.0	73.7	73.4 - 74.4	18.5	18.3 - 19.3	73.4	80.7	6.2	7.0	8.4	8.6		
21	18 - 24	Malta	70.5	68.4	67.9 - 69.2	14.8	14.5 - 15.6	72.5	72.0 - 73.4	17.3	17.0 - 18.2	75.7	80.8	7.3	8.3	9.6	10.3		
22	20 - 24	Germany	70.4	67.4	67.1 - 67.9	14.3	14.1 - 14.9	73.5	73.2 - 74.1	18.5	18.2 - 19.1	73.7	80.1	6.3	6.6	8.6	8.3		
23	19 - 25	Israel	70.4	69.2	68.9 - 69.7	15.6	15.3 - 16.3	71.6	71.2 - 72.4	16.9	16.7 - 17.8	76.2	79.9	7.1	8.3	9.3	10.4		
24	22 - 27	United States of America	70.0	67.5	67.0 - 68.1	15.0	14.7 - 15.7	72.6	72.2 - 73.3	18.4	18.1 - 19.2	73.8	79.6	6.3	7.0	8.6	8.8		
25	23 - 28	Cyprus	69.8	68.7	68.2 - 69.4	15.9	15.6 - 16.6	70.9	70.4 - 71.7	17.3	17.0 - 18.1	74.8	78.8	6.1	7.9	8.2	10.0		
26	20 - 33	Dominica	69.8	67.2	66.2 - 68.2	15.0	14.3 - 15.6	72.3	71.0 - 73.4	17.9	17.2 - 18.7	74.1	80.3	6.8	8.0	9.2	10.0		
27	25 - 30	Ireland	69.6	67.5	67.0 - 68.2	13.9	13.6 - 14.6	71.7	71.2 - 72.5	16.6	16.3 - 17.4	73.3	78.3	5.8	6.6	8.0	8.4		
28	26 - 31	Denmark	69.4	67.2	66.8 - 67.9	14.2	13.9 - 14.8	71.5	71.2 - 72.2	17.2	16.9 - 18.0	72.9	78.1	5.7	6.6	7.9	8.4		
29	26 - 31	Portugal	69.3	65.9	65.6 - 66.6	14.0	13.7 - 14.6	72.7	72.4 - 73.4	17.7	17.3 - 18.5	72.0	79.5	6.1	6.8	8.4	8.6		
30	27 - 32	Singapore	69.3	67.4	66.9 - 68.2	14.4	14.1 - 15.2	71.2	70.7 - 72.2	16.8	16.5 - 17.8	75.1	80.8	7.7	9.6	10.2	11.8		
31	26 - 31	New Zealand	69.2	67.1	66.8 - 67.6	14.4	14.1 - 15.0	71.2	70.8 - 72.0	17.0	16.8 - 17.9	74.0	79.4	6.8	8.1	9.2	10.2		
32	30 - 34	Chile	68.6	66.0	65.2 - 67.0	14.3	13.6 - 15.3	71.3	70.9 - 72.2	17.8	17.3 - 18.8	73.4	79.9	7.4	8.6	10.1	10.8		
33	31 - 36	Cuba	68.4	67.4	66.8 - 68.1	15.4	14.9 - 16.1	69.4	68.9 - 70.3	16.1	15.8 - 16.9	73.5	77.4	6.2	8.0	8.4	10.3		
34	32 - 34	Slovenia	68.4	64.9	64.6 - 65.4	12.7	12.6 - 13.4	71.9	71.5 - 72.6	16.8	16.5 - 17.6	71.6	79.5	6.7	7.6	9.4	9.6		
35	33 - 36	Czech Republic	68.0	65.2	64.9 - 65.7	12.7	12.6 - 13.2	70.8	70.5 - 71.5	16.4	16.2 - 17.1	71.5	78.3	6.3	7.5	8.8	9.5		
36	34 - 45	Jamaica	67.3	66.8	65.5 - 68.0	18.9	18.1 - 19.7	67.9	66.5 - 69.3	18.2	17.3 - 19.1	75.2	77.4	8.4	9.5	11.2	12.3		
37	36 - 46	Uruguay	67.0	64.1	63.1 - 65.0	15.3	14.8 - 15.8	69.9	68.8 - 71.0	18.3	17.6 - 19.0	69.4	77.2	6.4	7.9	9.1	10.2		
38	36 - 42	Croatia	67.0	63.3	63.1 - 63.8	11.4	11.3 - 11.9	70.6	70.3 - 71.3	16.0	15.8 - 16.7	70.5	77.8	6.0	6.6	8.7	8.6		
39	38 - 44	Argentina	66.7	63.8	63.5 - 64.3	14.7	14.4 - 15.3	69.6	69.2 - 70.3	18.1	17.8 - 19.0	70.6	77.8	6.8	8.2	9.6	10.6		
40	37 - 45	Costa Rica	66.7	65.2	64.6 - 66.0	14.2	13.9 - 15.0	68.1	67.5 - 69.1	16.6	16.2 - 17.6	72.3	77.1	9.0	10.8	12.1	13.7		

Annex Table A (continued). Disability-adjusted life expectancy (DALE) and life expectancy (LE) at birth and age 60, by sex, WHO Member States, 1999

Rank	Uncertainty range	Member State	Total population at birth	Disability-adjusted life expectancy (DALE) in years								Life expectancy at birth (years)		Expected years lost to disability at birth (DLE)		Per cent of total life expectancy lost to disability	
				Males				Females				Males	Females	Males	Females	Males	Females
				At birth	Uncertainty range	At age 60	Uncertainty range	At birth	Uncertainty range	At age 60	Uncertainty range						
41	36 - 46	Armenia	66.7	65.0	64.4 - 65.9	14.5	14.2 - 15.5	68.3	67.6 - 69.3	15.5	15.1 - 16.5	74.2	78.9	7.3	8.8	10.1	11.4
42	39 - 45	Slovakia	66.6	63.5	63.2 - 64.0	12.7	12.6 - 13.1	69.7	69.4 - 70.3	16.0	15.9 - 16.7	68.9	76.7	5.4	7.0	7.8	9.1
43	36 - 54	Saint Vincent and the Grenadines	66.4	65.0	63.8 - 66.2	15.9	15.2 - 16.7	67.8	66.4 - 69.0	16.7	15.9 - 17.5	71.8	75.2	6.8	7.4	9.5	9.8
44	39 - 50	Georgia	66.3	63.1	62.2 - 64.0	13.8	13.5 - 14.6	69.4	68.7 - 70.3	16.6	16.2 - 17.4	69.4	76.7	6.3	7.3	9.1	9.5
45	41 - 48	Poland	66.2	62.3	61.6 - 63.0	12.5	12.1 - 13.1	70.1	69.7 - 70.7	16.6	16.4 - 17.3	67.9	76.6	5.6	6.5	8.2	8.5
46	39 - 51	Yugoslavia	66.1	64.2	63.1 - 65.3	15.1	14.4 - 15.7	68.1	66.9 - 69.2	17.5	16.8 - 18.1	71.8	76.4	7.6	8.2	10.6	10.8
47	40 - 53	Panama	66.0	64.9	63.6 - 66.1	17.3	16.4 - 18.1	67.2	65.9 - 68.5	17.4	16.5 - 18.3	72.6	75.8	7.8	8.6	10.7	11.4
48	39 - 61	Antigua and Barbuda	65.8	63.4	62.0 - 64.6	14.4	13.7 - 15.2	68.3	66.9 - 69.6	16.8	15.9 - 17.6	71.4	76.8	8.0	8.5	11.2	11.1
49	40 - 63	Grenada	65.5	62.4	61.1 - 63.6	14.1	13.5 - 14.8	68.5	67.2 - 69.7	16.9	16.2 - 17.7	69.1	75.9	6.7	7.4	9.7	9.7
50	46 - 58	United Arab Emirates	65.4	65.0	64.0 - 65.9	11.7	10.9 - 12.5	65.8	64.6 - 67.0	12.6	11.8 - 13.5	72.2	75.6	7.3	9.8	10.0	13.0
51	46 - 58	Republic of Korea	65.0	62.3	61.6 - 63.1	12.1	11.6 - 12.7	67.7	66.7 - 68.7	15.2	14.5 - 15.8	68.8	76.0	6.4	8.3	9.3	10.9
52	49 - 57	Venezuela, Bolivarian Rep. of	65.0	62.9	62.4 - 63.6	13.4	13.1 - 14.2	67.1	66.5 - 68.1	15.7	15.2 - 16.7	70.9	76.2	8.1	9.0	11.4	11.8
53	47 - 59	Barbados	65.0	62.4	61.2 - 63.8	14.5	13.8 - 15.8	67.6	66.9 - 68.7	16.6	15.8 - 17.9	72.7	77.8	10.3	10.2	14.2	13.1
54	45 - 67	Saint Lucia	65.0	62.4	61.1 - 63.6	14.1	13.5 - 14.8	67.6	66.4 - 68.7	15.8	15.2 - 16.5	68.9	74.9	6.5	7.3	9.4	9.8
55	48 - 58	Mexico	65.0	62.4	61.6 - 63.3	14.7	14.4 - 15.6	67.6	67.1 - 68.5	16.8	16.4 - 17.9	71.0	77.2	8.6	9.6	12.2	12.4
56	49 - 64	Bosnia and Herzegovina	64.9	63.4	62.3 - 64.5	13.3	12.7 - 14.1	66.4	65.2 - 67.5	15.3	14.5 - 15.9	71.2	75.0	7.9	8.6	11.0	11.5
57	52 - 62	Trinidad and Tobago	64.6	62.8	62.2 - 63.5	12.0	11.8 - 12.6	66.4	65.9 - 67.1	13.9	13.7 - 14.6	68.7	73.4	5.9	7.0	8.5	9.5
58	52 - 66	Saudi Arabia	64.5	65.1	64.3 - 65.9	12.7	12.1 - 13.4	64.0	62.6 - 65.2	12.8	12.2 - 13.5	71.0	72.6	5.8	8.7	8.2	12.0
59	51 - 69	Brunei Darussalam	64.4	63.4	63.0 - 64.5	12.4	12.0 - 13.6	65.4	64.7 - 66.9	12.6	11.9 - 14.4	74.3	79.5	10.9	14.3	14.6	18.0
60	55 - 63	Bulgaria	64.4	61.2	60.8 - 61.6	12.2	12.0 - 12.7	67.7	67.4 - 68.3	15.1	14.8 - 15.7	67.4	74.8	6.3	7.1	9.3	9.4
61	50 - 64	Bahrain	64.4	63.9	63.0 - 64.8	11.6	11.0 - 12.3	64.9	63.8 - 66.0	12.6	11.8 - 13.3	70.7	73.6	6.8	8.7	9.7	11.8
62	57 - 66	Hungary	64.1	60.4	59.6 - 61.2	11.7	11.4 - 12.3	67.9	67.5 - 68.5	15.5	15.3 - 16.3	66.3	75.1	5.9	7.2	9.0	9.6
63	56 - 67	Lithuania	64.1	60.6	59.7 - 61.6	13.4	13.1 - 14.2	67.5	66.9 - 68.3	16.2	15.9 - 17.0	67.0	77.9	6.4	10.4	9.5	13.3
64	60 - 69	TFYR Macedonia ^a	63.7	61.8	61.2 - 62.6	11.7	11.4 - 12.5	65.6	65.1 - 66.5	13.5	13.2 - 14.3	69.8	74.1	8.0	8.5	11.4	11.5
65	60 - 72	Azerbaijan	63.7	60.6	59.9 - 61.4	12.7	12.4 - 13.5	66.7	66.1 - 67.7	15.7	15.4 - 16.7	67.8	75.3	7.2	8.6	10.6	11.4
66	55 - 80	Qatar	63.5	64.2	63.4 - 65.1	10.8	10.1 - 11.4	62.8	61.2 - 64.3	10.2	8.9 - 11.3	71.5	74.6	7.4	11.8	10.3	15.8
67	61 - 78	Cook Islands	63.4	62.2	61.0 - 63.4	12.2	11.5 - 12.8	64.5	63.1 - 65.9	13.7	13.0 - 14.5	69.3	73.3	7.0	8.8	10.1	12.0
68	61 - 82	Kuwait	63.2	63.0	61.6 - 64.3	11.1	10.2 - 12.0	63.4	61.6 - 65.1	11.8	10.6 - 12.9	71.9	75.2	8.9	11.9	12.4	15.8
69	65 - 77	Estonia	63.1	58.1	57.3 - 59.0	11.2	10.9 - 11.9	68.1	67.4 - 69.0	15.8	15.5 - 16.6	64.4	75.3	6.3	7.2	9.8	9.5
70	68 - 76	Ukraine	63.0	58.5	58.1 - 59.0	11.5	11.4 - 12.0	67.5	67.1 - 68.0	15.5	15.3 - 16.1	64.4	74.2	5.8	6.9	9.1	9.3
71	64 - 82	Paraguay	63.0	60.7	59.2 - 62.0	14.2	13.3 - 15.1	65.3	63.9 - 66.7	16.0	15.1 - 17.0	69.6	74.1	8.9	8.8	12.9	11.8
72	62 - 86	Oman	63.0	61.8	60.8 - 62.8	10.6	9.9 - 11.3	64.1	62.8 - 65.3	12.1	11.2 - 12.8	70.4	73.8	8.6	9.7	12.2	13.1
73	67 - 82	Turkey	62.9	64.0	62.9 - 65.0	16.2	15.5 - 16.8	61.8	60.6 - 63.0	15.2	14.6 - 15.9	69.7	69.9	5.7	8.1	8.2	11.6
74	64 - 82	Colombia	62.9	60.3	59.2 - 61.5	13.5	12.7 - 14.2	65.5	64.2 - 66.7	15.4	14.6 - 16.2	68.1	74.1	7.8	8.6	11.5	11.6
75	65 - 83	Tonga	62.9	61.4	60.2 - 62.6	11.5	10.9 - 12.2	64.3	62.9 - 65.6	13.3	12.6 - 14.1	68.3	72.9	6.8	8.6	10.0	11.8
76	68 - 83	Sri Lanka	62.8	59.3	58.3 - 60.3	12.7	12.1 - 13.4	66.3	65.2 - 67.4	16.0	15.4 - 16.7	65.8	73.4	6.5	7.1	9.9	9.7
77	67 - 85	Suriname	62.7	60.2	58.9 - 61.4	14.4	13.8 - 15.2	65.2	64.0 - 66.5	15.5	14.6 - 16.3	68.2	73.6	7.9	8.3	11.6	11.3
78	66 - 88	Mauritius	62.7	59.0	57.9 - 60.2	10.2	9.8 - 11.2	66.3	65.7 - 67.3	13.5	13.2 - 14.4	66.7	74.1	7.7	7.7	11.6	10.4
79	68 - 86	Dominican Republic	62.5	62.1	60.7 - 63.6	17.1	16.1 - 18.2	62.9	61.8 - 63.7	16.1	15.2 - 16.8	71.4	72.8	9.2	9.9	12.9	13.6
80	74 - 84	Romania	62.3	58.8	58.4 - 59.2	12.0	11.8 - 12.6	65.8	65.4 - 66.5	14.6	14.3 - 15.3	65.1	73.5	6.4	7.6	9.8	10.4

Annex Table A (continued). Disability-adjusted life expectancy (DALE) and life expectancy (LE) at birth and age 60, by sex, WHO Member States, 1999

Rank	Uncertainty range	Member State	Total population at birth	Disability-adjusted life expectancy (DALE) in years								Life expectancy at birth (years)		Expected years lost to disability at birth (DLE)		Per cent of total life expectancy lost to disability	
				Males				Females				Males	Females	Males	Females	Males	Females
				At birth	Uncertainty range	At age 60	Uncertainty range	At birth	Uncertainty range	At age 60	Uncertainty range						
81	72 - 83	China	62.3	61.2	60.7 - 62.0	11.6	11.3 - 12.3	63.3	62.8 - 64.2	13.5	13.2 - 14.4	68.1	71.3	6.9	8.0	10.2	11.2
82	72 - 88	Latvia	62.2	57.1	55.9 - 58.2	11.4	11.0 - 12.2	67.2	66.4 - 68.2	15.9	15.5 - 16.7	63.6	74.6	6.5	7.4	10.2	9.9
83	79 - 90	Belarus	61.7	56.2	55.4 - 57.1	10.1	9.8 - 10.8	67.2	66.7 - 68.0	15.1	14.8 - 15.9	62.4	74.6	6.2	7.3	9.9	9.9
84	79 - 95	Algeria	61.6	62.5	61.4 - 63.5	12.9	12.3 - 13.6	60.7	59.4 - 62.0	12.0	11.3 - 12.6	68.2	68.8	5.7	8.1	8.4	11.7
85	70 - 101	Niue	61.6	61.0	59.2 - 62.6	12.2	11.7 - 13.3	62.2	60.4 - 63.8	13.2	12.7 - 15.2	68.3	70.9	7.3	8.7	10.7	12.2
86	74 - 100	Saint Kitts and Nevis	61.6	58.7	57.4 - 59.9	12.8	12.2 - 13.3	64.4	63.2 - 65.6	14.3	13.7 - 15.0	65.0	71.2	6.3	6.8	9.7	9.5
87	79 - 97	El Salvador	61.5	58.6	57.4 - 59.7	13.9	13.1 - 14.6	64.5	63.2 - 65.7	15.8	14.9 - 16.6	66.9	73.0	8.3	8.5	12.4	11.6
88	82 - 91	Republic of Moldova	61.5	58.5	58.0 - 59.0	10.7	10.6 - 11.2	64.5	64.0 - 65.2	13.0	12.8 - 13.7	64.8	71.9	6.3	7.4	9.7	10.3
89	81 - 96	Malaysia	61.4	61.3	60.2 - 62.1	9.7	9.2 - 10.2	61.6	60.5 - 62.7	9.7	9.1 - 10.3	67.6	69.9	6.3	8.3	9.4	11.9
90	82 - 96	Tunisia	61.4	62.0	61.2 - 62.9	11.2	10.8 - 11.7	60.7	59.7 - 61.8	10.3	9.8 - 10.8	67.0	67.9	5.0	7.2	7.4	10.6
91	84 - 95	Russian Federation	61.3	56.1	55.4 - 56.9	10.5	10.3 - 11.2	66.4	65.8 - 67.2	14.9	14.6 - 15.7	62.7	74.0	6.6	7.6	10.5	10.3
92	83 - 100	Honduras	61.1	60.0	58.8 - 61.2	15.0	14.2 - 15.7	62.3	61.1 - 63.5	14.4	13.5 - 15.1	68.2	70.8	8.2	8.5	12.0	12.0
93	85 - 100	Ecuador	61.0	59.9	58.9 - 60.9	12.6	11.9 - 13.2	62.1	61.1 - 63.3	12.9	12.3 - 13.7	67.4	70.3	7.5	8.2	11.1	11.6
94	82 - 104	Belize	60.9	58.5	56.9 - 60.1	13.6	12.7 - 14.4	63.3	61.5 - 65.0	15.2	14.3 - 16.2	69.6	75.0	11.1	11.6	15.9	15.5
95	90 - 103	Lebanon	60.6	61.2	60.2 - 62.2	10.1	9.6 - 10.6	60.1	58.8 - 61.2	9.2	8.7 - 9.7	66.2	67.3	5.1	7.2	7.7	10.7
96	89 - 104	Iran, Islamic Republic of	60.5	61.3	60.2 - 62.3	11.9	11.3 - 12.5	59.8	58.6 - 61.1	10.9	10.2 - 11.6	66.8	67.9	5.5	8.1	8.2	11.9
97	87 - 103	Samoa	60.5	58.7	57.5 - 59.8	9.5	9.0 - 10.1	62.3	60.9 - 63.6	12.3	11.7 - 13.0	65.4	70.7	6.7	8.4	10.2	11.9
98	90 - 109	Guyana	60.2	57.1	55.8 - 58.6	15.4	14.5 - 16.4	63.3	61.9 - 64.7	16.8	15.8 - 17.8	65.6	72.2	8.4	8.9	12.9	12.3
99	92 - 107	Thailand	60.2	58.4	57.1 - 59.6	13.7	12.9 - 14.5	62.1	60.9 - 63.3	13.9	13.1 - 14.7	66.0	70.4	7.6	8.3	11.6	11.8
100	94 - 104	Uzbekistan	60.2	58.0	57.4 - 58.8	11.5	11.3 - 12.2	62.3	61.6 - 63.1	13.4	13.1 - 14.3	65.8	71.2	7.7	8.9	11.7	12.6
101	95 - 108	Jordan	60.0	60.7	59.8 - 61.5	9.5	9.1 - 10.0	59.3	58.2 - 60.4	8.9	8.5 - 9.4	66.3	67.5	5.6	8.2	8.4	12.1
102	94 - 107	Albania	60.0	56.5	55.8 - 57.4	10.1	9.9 - 10.9	63.4	62.7 - 64.4	13.9	13.6 - 14.7	65.1	72.7	8.6	9.3	13.3	12.8
103	96 - 112	Indonesia	59.7	58.8	57.5 - 60.1	16.3	15.3 - 17.2	60.6	59.3 - 61.8	15.8	15.0 - 16.6	66.6	69.0	7.8	8.4	11.7	12.2
104	95 - 114	Micronesia, Federated States of	59.6	58.7	57.2 - 60.0	11.1	10.4 - 11.8	60.6	59.0 - 62.0	11.5	10.7 - 12.4	66.4	70.1	7.8	9.5	11.7	13.5
105	101 - 114	Peru	59.4	58.0	56.9 - 59.0	12.3	11.7 - 13.0	60.8	59.6 - 62.0	13.1	12.3 - 13.9	65.6	69.1	7.6	8.2	11.6	11.9
106	95 - 116	Fiji	59.4	57.7	56.1 - 59.1	8.3	8.0 - 9.1	61.1	59.8 - 62.3	9.8	9.5 - 10.8	64.0	69.2	6.3	8.1	9.8	11.7
107	100 - 114	Libyan Arab Jamahiriya	59.3	59.7	58.7 - 60.7	9.7	9.2 - 10.2	58.9	57.6 - 60.2	9.3	8.7 - 10.0	65.0	67.0	5.3	8.1	8.2	12.1
108	102 - 112	Seychelles	59.3	56.4	55.7 - 57.3	8.6	8.3 - 9.4	62.1	61.5 - 63.0	11.7	11.4 - 12.4	64.9	70.6	8.4	8.4	13.0	11.9
109	99 - 117	Bahamas	59.1	56.7	55.1 - 58.1	11.3	10.5 - 12.1	61.6	59.9 - 63.4	13.0	12.0 - 14.0	67.0	73.6	10.3	12.0	15.4	16.3
110	101 - 114	Morocco	59.1	58.7	57.9 - 59.6	11.5	11.0 - 12.0	59.4	58.4 - 60.4	11.4	10.8 - 12.0	65.2	66.8	6.4	7.4	9.8	11.0
111	102 - 115	Brazil	59.1	55.2	54.4 - 56.1	11.8	11.5 - 12.7	62.9	62.2 - 63.9	14.8	14.4 - 15.8	63.7	71.7	8.5	8.8	13.3	12.3
112	103 - 116	Palau	59.0	57.4	56.1 - 58.5	8.0	7.5 - 8.5	60.7	59.2 - 61.9	9.7	9.1 - 10.4	64.5	69.7	7.1	9.0	11.0	13.0
113	104 - 116	Philippines	58.9	57.1	56.0 - 58.1	10.3	9.7 - 10.9	60.7	59.4 - 61.9	12.4	11.6 - 13.1	64.1	69.3	7.1	8.7	11.0	12.5
114	105 - 117	Syrian Arab Republic	58.8	58.8	57.7 - 59.9	9.7	9.2 - 10.2	58.9	57.6 - 60.2	10.0	9.4 - 10.6	64.6	67.1	5.8	8.2	8.9	12.3
115	107 - 118	Egypt	58.5	58.6	57.7 - 59.5	11.8	11.2 - 12.2	58.3	57.1 - 59.6	11.7	11.1 - 12.4	64.2	65.8	5.6	7.5	8.8	11.4
116	110 - 119	Viet Nam	58.2	56.7	55.6 - 57.9	9.7	9.1 - 10.4	59.6	58.4 - 60.9	10.8	10.1 - 11.5	64.7	68.8	8.0	9.2	12.3	13.3
117	110 - 119	Nicaragua	58.1	56.4	55.3 - 57.4	11.1	10.4 - 11.8	59.9	58.7 - 61.1	12.5	11.7 - 13.2	64.8	68.8	8.4	8.9	13.0	13.0
118	110 - 121	Cape Verde	57.6	54.6	53.0 - 56.2	11.4	10.6 - 12.3	60.6	58.8 - 62.4	15.3	14.2 - 16.4	64.2	71.8	9.6	11.2	15.0	15.5
119	115 - 122	Tuvalu	57.4	57.1	55.7 - 58.3	10.3	9.7 - 10.9	57.6	56.2 - 58.8	9.4	8.8 - 10.0	63.9	65.5	6.8	7.9	10.6	12.1
120	116 - 123	Tajikistan	57.3	55.1	53.5 - 56.5	12.3	11.4 - 13.2	59.4	57.9 - 60.9	15.6	14.7 - 16.4	65.1	70.1	10.1	10.6	15.5	15.2

Annex Table A (continued). Disability-adjusted life expectancy (DALE) and life expectancy (LE) at birth and age 60, by sex, WHO Member States, 1999

Rank	Uncertainty range	Member State	Total population at birth	Disability-adjusted life expectancy (DALE) in years						Life expectancy at birth (years)		Expected years lost to disability at birth (DLE)		Per cent of total life expectancy lost to disability			
				Males			Females			Males	Females	Males	Females	Males	Females		
				At birth	Uncertainty range	At age 60	Uncertainty range	At birth	Uncertainty range	At age 60	Uncertainty range	Males	Females	Males	Females	Males	Females
121	117 - 125	Marshall Islands	56.8	56.0	54.4 - 57.4	10.7	10.0 - 11.4	57.6	55.9 - 59.0	11.1	10.3 - 12.0	64.0	67.1	7.9	9.5	12.4	14.2
122	120 - 124	Kazakhstan	56.4	51.5	50.9 - 52.2	8.8	8.7 - 9.5	61.2	60.8 - 62.0	13.1	12.8 - 13.9	58.8	69.9	7.2	8.7	12.3	12.4
123	119 - 125	Kyrgyzstan	56.3	53.4	52.6 - 54.2	9.6	9.4 - 10.4	59.1	58.3 - 60.1	12.4	12.1 - 13.3	61.6	69.0	8.2	9.9	13.3	14.3
124	122 - 127	Pakistan	55.9	55.0	53.8 - 56.3	11.3	10.5 - 12.1	56.8	54.6 - 57.9	12.6	11.9 - 13.2	62.6	64.9	7.6	8.2	12.1	12.6
125	123 - 129	Kiribati	55.3	53.9	52.4 - 55.3	9.4	8.7 - 10.1	56.6	55.0 - 58.0	11.0	10.3 - 11.7	61.4	65.5	7.4	8.9	12.1	13.6
126	123 - 129	Iraq	55.3	55.4	54.4 - 56.4	9.2	8.7 - 9.8	55.1	53.9 - 56.2	8.2	7.6 - 8.8	62.0	63.4	6.2	7.7	10.0	12.2
127	123 - 133	Solomon Islands	54.9	54.5	53.0 - 55.8	8.8	8.2 - 9.5	55.3	53.7 - 56.7	9.2	8.6 - 9.9	62.0	64.0	7.5	8.7	12.2	13.7
128	125 - 133	Turkmenistan	54.3	51.9	50.6 - 53.3	9.0	8.7 - 10.0	56.7	55.3 - 58.0	10.9	10.6 - 11.8	61.0	65.3	9.1	8.6	14.9	13.2
129	126 - 132	Guatemala	54.3	52.1	51.1 - 53.1	9.1	8.6 - 9.8	56.4	55.4 - 57.5	10.1	9.5 - 10.7	60.2	64.7	8.1	8.3	13.4	12.8
130	127 - 134	Maldives	53.9	54.4	53.0 - 55.9	12.1	11.3 - 13.0	53.3	51.8 - 54.7	11.5	10.8 - 12.2	63.3	62.6	8.9	9.3	14.0	14.9
131	127 - 135	Mongolia	53.8	51.3	49.7 - 52.7	11.8	11.0 - 14.4	56.3	54.7 - 57.7	14.3	13.4 - 15.1	58.9	64.8	7.7	8.5	13.0	13.1
132	129 - 135	Sao Tome and Principe	53.5	52.1	51.1 - 53.3	11.4	11.1 - 12.5	54.8	53.8 - 55.8	11.7	11.4 - 12.6	62.1	64.9	10.0	10.1	16.1	15.5
133	129 - 136	Bolivia	53.3	52.5	51.3 - 53.7	11.6	10.9 - 12.3	54.1	52.8 - 55.2	11.2	10.6 - 11.9	60.7	62.2	8.3	8.1	13.6	13.1
134	130 - 136	India	53.2	52.8	52.1 - 53.5	10.6	10.4 - 11.3	53.5	52.8 - 54.3	12.1	11.8 - 12.8	59.6	61.2	6.8	7.7	11.3	12.5
135	130 - 138	Vanuatu	52.8	51.3	49.8 - 52.7	8.0	7.4 - 8.6	54.4	52.8 - 55.8	9.2	8.5 - 9.8	58.7	63.0	7.4	8.6	12.7	13.7
136	133 - 138	Nauru	52.5	49.8	48.7 - 50.9	3.6	3.1 - 4.0	55.1	53.8 - 56.2	5.9	5.4 - 6.4	56.4	63.3	6.6	8.1	11.6	12.9
137	134 - 139	Democratic People's Republic of Korea	52.3	51.4	49.8 - 53.1	9.6	8.7 - 10.6	53.1	51.3 - 55.0	11.6	10.7 - 12.6	58.0	60.7	6.6	7.6	11.3	12.5
138	135 - 139	Bhutan	51.8	51.4	50.0 - 52.7	11.4	10.7 - 12.0	52.2	50.7 - 53.6	12.6	12.0 - 13.3	59.6	60.8	8.2	8.7	13.8	14.2
139	136 - 139	Myanmar	51.6	51.4	50.0 - 52.6	12.5	11.7 - 13.3	51.9	50.5 - 53.2	12.3	11.6 - 12.9	58.4	59.2	7.1	7.4	12.1	12.4
140	140 - 142	Bangladesh	49.9	50.1	48.7 - 51.3	9.9	9.2 - 10.5	49.8	48.3 - 51.2	10.5	9.8 - 11.1	57.5	58.1	7.4	8.3	12.9	14.3
141	140 - 142	Yemen	49.7	49.7	48.1 - 51.1	8.5	7.9 - 9.2	49.7	48.2 - 51.1	8.2	7.5 - 8.8	57.3	58.0	7.6	8.3	13.2	14.3
142	140 - 142	Nepal	49.5	49.4	48.1 - 50.7	10.3	9.6 - 10.9	49.5	48.2 - 50.9	10.0	9.4 - 10.7	57.3	57.8	7.9	8.3	13.7	14.3
143	142 - 144	Gambia	48.3	47.2	46.3 - 48.2	9.9	9.3 - 10.6	49.4	48.4 - 50.4	11.7	11.2 - 12.4	56.0	58.9	8.8	9.5	15.7	16.1
144	143 - 145	Gabon	47.8	46.6	45.4 - 47.6	10.3	9.8 - 10.8	49.0	47.8 - 50.1	12.3	11.8 - 12.8	54.6	57.5	8.0	8.5	14.6	14.8
145	144 - 147	Papua New Guinea	47.0	45.5	44.3 - 46.8	8.2	7.5 - 8.9	48.5	47.1 - 49.8	8.7	8.0 - 9.4	53.4	56.6	7.8	8.1	14.7	14.3
146	145 - 147	Comoros	46.8	46.1	45.1 - 47.1	8.9	8.3 - 9.6	47.5	46.5 - 48.5	9.8	9.4 - 10.4	56.0	58.1	9.9	10.6	17.7	18.3
147	145 - 150	Lao People's Democratic Republic	46.1	45.0	43.5 - 46.5	8.9	8.0 - 9.7	47.1	45.5 - 48.6	8.8	7.9 - 9.6	54.0	56.6	9.0	9.5	16.6	16.7
148	146 - 150	Cambodia	45.7	43.9	42.6 - 45.1	7.4	6.6 - 8.2	47.5	46.1 - 48.9	9.3	8.7 - 10.0	52.2	55.4	8.3	7.9	15.8	14.2
149	147 - 151	Ghana	45.5	45.0	43.8 - 46.2	9.9	9.3 - 10.6	46.0	44.8 - 47.2	10.2	9.6 - 10.8	54.2	55.6	9.2	9.6	16.9	17.2
150	148 - 152	Congo	45.1	44.3	43.1 - 45.5	10.7	10.0 - 11.3	45.9	44.6 - 47.1	12.8	12.2 - 13.4	53.6	55.2	9.3	9.3	17.4	16.9
151	149 - 153	Senegal	44.6	43.5	42.5 - 44.5	8.8	8.1 - 9.5	45.6	44.6 - 46.7	11.3	10.6 - 11.9	53.5	56.2	10.0	10.6	18.7	18.8
152	150 - 153	Equatorial Guinea	44.1	42.8	41.7 - 43.9	9.4	8.9 - 10	45.4	44.4 - 46.6	11.0	10.5 - 11.7	51.4	55.4	8.6	9.9	16.7	17.9
153	149 - 156	Haiti	43.8	42.4	41.0 - 43.6	7.4	6.8 - 8.0	45.2	43.7 - 46.7	8.0	7.3 - 8.7	50.5	55.0	8.2	9.8	16.2	17.8
154	153 - 157	Sudan	43.0	42.6	41.2 - 43.7	5.6	5.1 - 6.0	43.5	42.1 - 44.6	6.0	5.6 - 6.5	53.1	54.7	10.5	11.2	19.8	20.5
155	153 - 156	Côte d'Ivoire	42.8	42.2	41.2 - 43.3	11.9	11.5 - 12.5	43.3	42.3 - 44.4	12.7	12.2 - 13.2	47.3	48.3	5.1	5.0	10.8	10.3

Annex Table A (continued). Disability-adjusted life expectancy (DALE) and life expectancy (LE) at birth and age 60, by sex, WHO Member States, 1999

Rank	Uncertainty range	Member State	Disability-adjusted life expectancy (DALE) in years										Life expectancy at birth (years)		Expected years lost to disability at birth (DLE)		Per cent of total life expectancy lost to disability	
			Total population at birth	Males			Females			Males	Females	Males	Females	Males	Females			
				At birth	Uncertainty range	At age 60	Uncertainty range	At birth	Uncertainty range							At age 60	Uncertainty range	
156	154 - 158	Cameroon	42.2	41.5	40.4 - 42.5	9.6	9.0 - 10.2	43.0	41.8 - 44.2	11.9	11.3 - 12.5	49.9	52.0	8.4	9.0	16.9	17.3	
157	154 - 158	Benin	42.2	41.9	40.9 - 42.9	9.6	9.0 - 10.3	42.6	41.5 - 43.6	10.6	9.9 - 11.2	51.3	53.3	9.4	10.7	18.4	20.1	
158	157 - 159	Mauritania	41.4	40.2	39.2 - 41.2	9.2	8.6 - 9.9	42.5	41.5 - 43.5	11.0	10.3 - 11.7	49.5	53.0	9.3	10.5	18.8	19.7	
159	158 - 161	Togo	40.7	40.0	38.8 - 41.3	9.5	8.8 - 10.1	41.4	40.1 - 42.6	11.0	10.5 - 11.6	48.9	50.8	8.9	9.4	18.2	18.6	
160	158 - 161	South Africa	39.8	38.6	37.7 - 39.5	6.8	6.4 - 7.3	41.0	39.9 - 42.1	9.3	8.9 - 9.8	47.3	49.7	8.7	8.8	18.4	17.6	
161	160 - 163	Chad	39.4	38.6	37.2 - 39.8	9.2	8.6 - 9.9	40.2	38.8 - 41.5	10.6	10.0 - 11.2	47.3	50.1	8.7	9.9	18.4	19.8	
162	160 - 164	Kenya	39.3	39.0	37.9 - 40.2	9.2	8.6 - 13.4	39.6	38.4 - 41.0	12.0	11.5 - 12.5	47.3	48.1	8.4	8.5	17.7	17.6	
163	162 - 169	Nigeria	38.3	38.1	36.9 - 39.2	8.7	8.1 - 9.4	38.4	37.1 - 39.6	10.1	9.5 - 10.7	46.8	48.2	8.7	9.7	18.5	20.2	
164	162 - 170	Swaziland	38.1	37.8	36.5 - 39.0	8.1	7.7 - 8.6	38.4	36.9 - 39.9	9.5	9.0 - 10.0	45.8	46.8	8.0	8.4	17.5	17.9	
165	163 - 170	Angola	38.0	37.0	35.7 - 38.1	8.9	8.3 - 9.6	38.9	37.7 - 40.0	10.8	10.1 - 11.4	46.3	49.1	9.3	10.2	20.0	20.7	
166	163 - 170	Djibouti	37.9	37.7	36.2 - 38.8	6.9	6.4 - 7.4	38.1	36.6 - 39.3	7.9	7.6 - 8.2	45.0	45.0	7.3	7.0	16.2	15.5	
167	164 - 170	Guinea	37.8	37.0	36.1 - 38.0	8.5	7.9 - 9.2	38.5	37.5 - 39.5	9.6	9.0 - 10.3	46.2	48.9	9.2	10.4	19.9	21.2	
168	163 - 173	Afghanistan	37.7	36.7	34.9 - 38.5	7.9	7.0 - 8.8	38.7	36.9 - 40.5	7.9	7.2 - 8.7	45.3	47.2	8.5	8.4	18.9	17.9	
169	164 - 171	Eritrea	37.7	38.5	37.6 - 39.5	8.2	7.6 - 8.7	36.9	35.9 - 37.9	7.9	7.4 - 8.4	46.6	46.5	8.2	9.6	17.5	20.6	
170	166 - 174	Guinea-Bissau	37.2	36.8	35.6 - 37.9	9.1	8.5 - 13.4	37.5	36.4 - 38.6	10.0	9.4 - 10.6	45.0	47.0	8.2	9.5	18.1	20.2	
171	167 - 175	Lesotho	36.9	36.6	35.3 - 38.0	9.9	9.3 - 10.4	37.2	35.7 - 38.7	11.3	10.8 - 11.9	44.1	45.1	7.5	8.0	17.0	17.7	
172	169 - 176	Madagascar	36.6	36.5	35.5 - 37.4	6.7	6.1 - 7.2	36.8	35.7 - 37.7	6.6	6.0 - 7.2	45.0	47.7	8.5	10.9	19.0	22.9	
173	169 - 178	Somalia	36.4	35.9	34.4 - 37.2	6.1	5.6 - 6.5	36.9	35.3 - 38.1	7.5	7.2 - 7.9	44.0	44.7	8.2	7.8	18.6	17.4	
174	171 - 177	Democratic Republic of the Congo	36.3	36.4	35.5 - 37.3	7.3	6.8 - 7.9	36.2	35.4 - 37.3	7.8	7.3 - 8.4	45.1	46.5	8.7	10.3	19.3	22.1	
175	172 - 178	Central African Republic	36.0	35.6	34.6 - 36.7	8.8	8.3 - 9.3	36.5	35.3 - 37.7	10.6	10.1 - 11.1	43.3	44.9	7.7	8.4	17.7	18.7	
176	172 - 178	United Republic of Tanzania	36.0	35.9	35.1 - 36.8	7.8	7.2 - 8.4	36.1	35.2 - 37.1	9.2	8.7 - 9.8	44.4	45.6	8.5	9.5	19.1	20.8	
177	172 - 180	Namibia	35.6	35.8	34.3 - 37.4	9.8	9.3 - 10.4	35.4	33.8 - 37.4	12.1	11.5 - 12.6	43.3	43.0	7.5	7.6	17.4	17.7	
178	173 - 179	Burkina Faso	35.5	35.3	34.1 - 36.6	7.9	7.3 - 8.5	35.7	34.4 - 37.0	9.1	8.5 - 9.8	44.1	45.7	8.8	10.0	19.9	21.9	
179	176 - 182	Burundi	34.6	34.6	33.0 - 36.2	7.6	6.9 - 8.3	34.6	32.8 - 36.3	9.4	8.8 - 10.0	43.2	43.8	8.6	9.2	19.9	21.1	
180	178 - 183	Mozambique	34.4	33.7	32.3 - 35.3	8.3	7.7 - 8.9	35.1	33.5 - 36.9	10.7	10.1 - 11.4	41.8	44.0	8.1	8.9	19.3	20.3	
181	179 - 183	Liberia	34.0	33.8	32.7 - 34.9	7.3	6.7 - 8.0	34.2	33.1 - 35.3	8.3	7.7 - 8.9	42.5	44.9	8.7	10.7	20.4	23.8	
182	180 - 185	Ethiopia	33.5	33.5	32.5 - 34.5	7.5	7.0 - 8.1	33.5	32.3 - 34.7	8.6	8.0 - 9.2	41.4	43.1	7.9	9.5	19.1	22.1	
183	181 - 186	Mali	33.1	32.6	31.6 - 33.7	7.7	7.1 - 8.3	33.5	32.5 - 34.5	9.0	8.4 - 9.7	41.3	44.0	8.7	10.5	21.0	23.8	
184	181 - 187	Zimbabwe	32.9	33.4	32.3 - 34.5	8.8	8.3 - 9.4	32.4	31.3 - 33.7	10.1	9.6 - 10.6	40.9	40.0	7.5	7.6	18.4	18.9	
185	181 - 187	Rwanda	32.8	32.9	31.6 - 34.3	6.9	6.2 - 7.6	32.7	31.3 - 34.3	7.4	6.9 - 8.1	41.2	42.3	8.4	9.6	20.3	22.6	
186	183 - 187	Uganda	32.7	32.9	32.1 - 33.9	6.2	5.6 - 6.9	32.5	31.6 - 33.5	7.4	6.8 - 8.0	41.9	42.4	9.0	9.9	21.4	23.4	
187	185 - 187	Botswana	32.3	32.3	31.7 - 32.9	6.1	5.6 - 6.6	32.2	31.6 - 33.0	9.7	9.3 - 10.0	39.5	39.3	7.2	7.1	18.2	18.0	
188	188 - 189	Zambia	30.3	30.0	28.9 - 30.9	7.6	6.9 - 8.3	30.7	29.5 - 31.7	10.7	10.1 - 11.4	38.0	39.0	8.0	8.3	21.1	21.3	
189	188 - 190	Malawi	29.4	29.3	28.3 - 30.2	6.8	6.2 - 7.5	29.4	28.4 - 30.4	8.3	7.7 - 8.9	37.3	38.4	8.0	9.0	21.3	23.3	
190	189 - 190	Niger	29.1	28.1	27.1 - 29.0	6.6	5.8 - 7.4	30.1	29.0 - 31.1	9.6	8.8 - 10.6	37.2	40.6	9.0	10.5	24.3	25.8	
191	191	Sierra Leone	25.9	25.8	24.5 - 26.8	6.0	5.4 - 6.7	26.0	24.8 - 27.1	6.0	5.3 - 6.7	33.2	35.4	7.4	9.5	22.4	26.7	

(a) Uncertainty ranges show 10th and 90th percentiles of the uncertainty distribution of the indicator (rank or DALE).

(b) DLE (Expected years lost to disability) is calculated as total life expectancy minus DALE. Per cent of life expectancy lost to disability is DLE/LE as a per cent.

(c) The Former Yugoslav Republic of Macedonia