

Online Appendix for

How many lives are at stake?

Assessing 2030 sustainable development goal trajectories for maternal and child health

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Table A1: MMR and CMR trends – average annual rates of decline over most recent available decade and rates of decline required to meet 2030 SDG target thresholds

Country	Maternal Mortality Ratio (MMR)				Child Mortality Rate (CMR)			
	MMR in 2015	Annual rate of decline 2005-2015	Current MMR trajectory for 2030	Rate required to reach MMR = 70 by 2030	CMR in 2016	Annual rate of decline 2006-2016	Current CMR trajectory for 2030	Rate required to reach CMR = 25 by 2030
Afghanistan	396	7.0%	133	10.9%	70	4.0%	40	7.0%
Albania	29	0.3%	28		14	3.6%	8	
Algeria	140	0.6%	129	4.5%	25	2.4%	18	
Andorra					3	3.1%	2	
Angola	477	3.8%	265	12.0%	83	6.3%	33	8.0%
Antigua and Barbuda					9	3.1%	5	
Argentina	52	1.1%	44		11	3.7%	7	
Armenia	25	4.6%	12		13	4.9%	7	
Australia	6	1.5%	5		4	4.1%	2	
Austria	4	2.2%	3		4	3.1%	2	
Azerbaijan	25	3.0%	16		31	4.5%	16	
Bahamas, The	80	-0.8%	90	0.9%	11	4.0%	6	
Bahrain	15	2.8%	10		8	2.9%	5	
Bangladesh	176	5.8%	72	6.0%	34	5.9%	15	
Barbados	27	3.9%	15		12	2.1%	9	
Belarus	4	11.1%	1		4	6.7%	1	
Belgium	7	1.3%	6		4	2.3%	3	
Belize	28	6.0%	11		15	3.1%	10	
Benin	405	2.1%	293	11.0%	98	2.1%	72	9.1%
Bhutan	148	7.1%	49		32	5.1%	16	
Bolivia	206	3.8%	114	6.9%	37	4.4%	20	
Bosnia and Herzegovina	11	2.4%	8		6	3.4%	4	
Botswana	129	7.3%	41		41	4.5%	21	
Brazil	44	4.1%	23		15	4.7%	8	
Brunei Darussalam	23	2.6%	15		10	1.3%	8	
Bulgaria	11	3.1%	7		8	4.9%	4	
Burkina Faso	371	2.3%	262	10.5%	85	5.4%	39	8.2%
Burundi	712	1.9%	534	14.3%	72	4.8%	36	7.1%
Cabo Verde	42	2.5%	29		21	2.6%	15	
Cambodia	161	6.5%	59		31	6.6%	12	
Cameroon	596	2.0%	441	13.3%	80	4.8%	40	7.8%
Canada	7	2.5%	5		5	2.0%	4	
Central African Republic	882	1.8%	669	15.5%	124	2.6%	85	10.7%
Chad	856	3.1%	536	15.4%	127	2.6%	88	10.9%
Chile	22	2.0%	16		8	0.9%	7	
China	27	5.6%	11		10	7.6%	3	
Colombia	64	2.2%	46		15	3.1%	10	
Comoros	335	2.6%	226	9.9%	73	2.9%	49	7.3%
Congo, Dem. Rep.	693	1.3%	573	14.2%	94	3.4%	58	8.9%
Congo, Rep.	442	2.9%	282	11.6%	54	4.2%	30	5.2%
Costa Rica	25	2.1%	18		9	1.6%	7	
Cote d'Ivoire	645	1.4%	523	13.8%	92	3.0%	60	8.7%
Croatia	8	3.1%	5		5	3.0%	3	
Cuba	39	0.5%	36		6	1.8%	4	
Cyprus	7	5.2%	3		3	5.5%	1	
Czech Republic	4	4.0%	2		3	2.4%	2	
Denmark	6	2.8%	4		4	0.4%	4	
Djibouti	229	3.9%	126	7.6%	64	2.9%	43	6.4%
Dominica					34	-7.4%	92	2.0%
Dominican Republic	92	-3.7%	159	1.8%	31	1.6%	24	
Ecuador	64	1.4%	51		21	3.0%	14	
Egypt, Arab Rep.	33	4.4%	17		23	4.1%	13	
El Salvador	54	2.3%	38		15	4.3%	8	
Equatorial Guinea	342	3.4%	204	10.0%	91	3.3%	57	8.7%
Eritrea	501	2.1%	365	12.3%	45	3.9%	26	3.9%
Estonia	9	5.0%	4		3	7.8%	1	
Ethiopia	353	7.2%	116	10.2%	58	5.6%	26	5.7%
Fiji	30	2.6%	20		22	0.7%	20	
Finland	3	2.8%	2		2	4.4%	1	
France	8	2.2%	6		4	1.4%	3	
Gabon	291	2.4%	203	9.1%	47	4.4%	25	
Gambia, The	706	1.3%	578	14.3%	65	3.5%	40	6.5%
Georgia	36	0.3%	35		11	7.2%	4	
Germany	6	1.5%	5		4	1.9%	3	

Table A1: (cont.)

Country	Maternal Mortality Ratio (MMR)				Child Mortality Rate (CMR)			
	MMR in 2015	Annual rate of decline 2005-2015	Current MMR trajectory for 2030	Rate required to reach MMR = 70 by 2030	CMR in 2016	Annual rate of decline 2006-2016	Current CMR trajectory for 2030	Rate required to reach CMR = 25 by 2030
Ghana	319	1.6%	249	9.6%	59	3.6%	35	5.8%
Greece	3	0.0%	3		4	1.2%	3	
Grenada	27	-0.8%	30		16	-0.8%	18	
Guatemala	88	3.1%	55		29	3.6%	17	
Guinea	679	2.0%	502	14.1%	89	3.5%	54	8.5%
Guinea-Bissau	549	2.6%	370	12.8%	88	4.4%	47	8.5%
Guyana	229	0.1%	225	7.6%	32	2.3%	24	
Haiti	359	2.4%	248	10.3%	67	2.6%	46	6.7%
Honduras	129	1.5%	103	4.0%	19	4.0%	11	
Hungary	17	-2.0%	23		5	3.2%	3	
Iceland	3	2.8%	2		2	3.5%	1	
India	174	4.6%	85	5.9%	43	4.9%	21	
Indonesia	126	5.1%	58		26	4.0%	15	
Iran, Islamic Rep.	25	3.0%	16		15	4.6%	8	
Iraq	50	0.8%	45		31	2.5%	22	
Ireland	8	0.0%	8		4	3.0%	2	
Israel	5	3.3%	3		4	3.8%	2	
Italy	4	0.0%	4		3	2.6%	2	
Jamaica	89	0.3%	85	1.6%	15	2.4%	11	
Japan	5	3.3%	3		3	2.8%	2	
Jordan	58	0.7%	52		18	2.9%	12	
Kazakhstan	12	12.2%	2		11	9.3%	3	
Kenya	510	3.5%	299	12.4%	49	4.3%	26	4.6%
Kiribati	90	4.0%	49		54	1.7%	43	5.3%
Korea, Dem. People's Rep.	82	2.4%	57		20	4.7%	10	
Korea, Rep.	11	2.4%	8		3	4.2%	2	
Kuwait	4	4.0%	2		8	3.2%	5	
Kyrgyz Republic	76	1.1%	64		21	5.6%	9	
Lao PDR	197	7.2%	64		64	3.6%	38	6.4%
Latvia	18	2.0%	13		5	7.4%	2	
Lebanon	15	5.7%	6		8	4.7%	4	
Lesotho	487	4.2%	257	12.1%	94	2.0%	70	8.9%
Liberia	725	3.4%	434	14.4%	67	5.3%	32	6.7%
Libya	9	2.0%	7		13	5.1%	6	
Liechtenstein								
Lithuania	10	1.8%	8		5	4.7%	3	
Luxembourg	10	2.6%	7		2	3.1%	2	
Macedonia, FYR	8	2.2%	6		12	0.6%	11	
Madagascar	353	3.6%	204	10.2%	46	5.0%	23	
Malawi	634	0.2%	614	13.7%	55	6.6%	21	
Malaysia	40	2.6%	27		8	-0.4%	9	
Maldives	68	3.9%	38		9	8.2%	3	
Mali	587	1.9%	438	13.2%	111	3.8%	64	10.0%
Malta	9	3.6%	5		7	0.1%	7	
Marshall Islands					35	1.1%	30	2.3%
Mauritania	602	2.2%	433	13.4%	81	2.7%	55	8.0%
Mauritius	53	-3.1%	84	0.0%	14	1.5%	11	
Mexico	38	3.5%	22		15	3.0%	10	
Micronesia, Fed. Sts.	100	2.9%	64		33	3.0%	22	
Moldova	23	5.1%	10		16	1.6%	13	
Monaco					3	2.5%	2	
Mongolia	44	7.4%	14		18	7.2%	6	
Montenegro	7	2.5%	5		4	9.0%	1	
Morocco	121	4.4%	61		27	3.6%	16	
Mozambique	489	4.3%	251	12.2%	71	5.6%	32	7.1%
Myanmar	178	3.3%	108	6.0%	51	3.8%	29	4.8%
Namibia	265	3.8%	148	8.5%	45	3.9%	26	4.0%
Nauru					35	1.2%	29	2.2%
Nepal	258	5.3%	114	8.3%	35	5.1%	17	
Netherlands	7	4.4%	4		4	3.1%	2	
New Zealand	11	2.4%	8		5	1.8%	4	
Nicaragua	150	2.3%	105	5.0%	20	4.1%	11	
Niger	553	2.6%	370	12.9%	91	5.5%	41	8.7%
Nigeria	814	1.5%	650	15.1%	104	3.7%	62	9.6%

Table A1: (cont.)

Country	Maternal Mortality Ratio (MMR)				Child Mortality Rate (CMR)			
	MMR in 2015	Annual rate of decline 2005-2015	Current MMR trajectory for 2030	Rate required to reach MMR = 70 by 2030	CMR in 2016	Annual rate of decline 2006-2016	Current CMR trajectory for 2030	Rate required to reach CMR = 25 by 2030
Norway	5	3.3%	3		3	4.0%	1	
Oman	17	1.6%	13		11	1.5%	9	
Pakistan	178	3.3%	108	6.0%	79	2.3%	57	7.7%
Palau					16	3.2%	10	
Panama	94	-0.8%	106	1.9%	16	3.0%	11	
Papua New Guinea	215	2.5%	147	7.2%	54	2.8%	37	5.3%
Paraguay	132	1.8%	100	4.1%	20	3.2%	13	
Peru	68	5.0%	31		15	4.9%	8	
Philippines	114	1.1%	97	3.2%	27	2.5%	19	
Poland	3	6.7%	1		5	4.3%	3	
Portugal	10	1.8%	8		4	2.3%	3	
Qatar	13	4.7%	6		9	1.6%	7	
Romania	31	0.6%	28		9	5.7%	4	
Russian Federation	25	5.1%	11		8	5.0%	4	
Rwanda	290	6.5%	106	9.0%	39	9.2%	10	
Samoa	51	4.0%	27		17	1.1%	15	
San Marino					3	3.5%	2	
Sao Tome and Principe	156	1.5%	125	5.2%	34	5.2%	16	
Saudi Arabia	12	4.0%	7		13	3.2%	8	
Senegal	315	3.0%	200	9.5%	47	6.1%	20	
Serbia	17	-1.3%	21		6	3.6%	3	
Seychelles					14	-0.1%	15	
Sierra Leone	1360	3.7%	768	17.9%	114	5.3%	53	10.1%
Singapore	10	4.6%	5		3	0.4%	3	
Slovak Republic	6	1.5%	5		6	2.9%	4	
Slovenia	9	2.0%	7		2	5.4%	1	
Solomon Islands	114	3.6%	66		26	1.1%	22	
Somalia	732	2.5%	504	14.5%	133	2.7%	91	11.1%
South Africa	138	-2.1%	189	4.4%	43	5.0%	21	
South Sudan	789	3.2%	486	14.9%	91	3.8%	52	8.7%
Spain	5	0.0%	5		3	3.1%	2	
Sri Lanka	30	3.5%	17		9	3.6%	6	
St. Kitts and Nevis					9	4.7%	5	
St. Lucia	48	3.3%	29		13	2.3%	10	
St. Vincent and the Grenadines	45	1.0%	38		17	2.8%	11	
Sudan	311	3.4%	185	9.5%	65	2.7%	44	6.5%
Suriname	155	3.6%	90	5.2%	20	3.1%	13	
Swaziland	389	4.2%	206	10.8%	70	5.0%	35	7.0%
Sweden	4	2.2%	3		3	1.9%	2	
Switzerland	5	3.3%	3		4	1.8%	3	
Syrian Arab Republic	68	-1.6%	86	0.0%	18	0.4%	17	
Tajikistan	32	3.6%	19		43	3.4%	26	3.7%
Tanzania	398	5.3%	175	10.9%	57	4.4%	30	5.6%
Thailand	20	2.6%	13		12	3.5%	7	
Timor-Leste	215	8.2%	60		50	4.3%	27	4.7%
Togo	368	1.5%	294	10.5%	76	2.9%	50	7.5%
Tonga	124	-0.8%	141	3.7%	16	0.1%	16	
Trinidad and Tobago	63	-0.2%	65		19	2.9%	12	
Tunisia	62	1.8%	48		14	4.6%	7	
Turkey	16	11.9%	2		13	6.7%	5	
Turkmenistan	42	2.3%	30		51	3.2%	33	4.8%
Tuvalu					25	3.1%	16	
Uganda	343	3.8%	193	10.1%	53	7.0%	19	
Ukraine	24	2.2%	17		9	4.2%	5	
United Arab Emirates	6	0.0%	6		8	2.2%	6	
United Kingdom	9	2.8%	6		4	3.1%	3	
United States	14	-0.7%	16		7	1.9%	5	
Uruguay	15	5.4%	7		9	3.8%	5	
Uzbekistan	36	1.5%	29		24	6.4%	10	
Vanuatu	78	3.9%	43		28	0.3%	26	0.6%
Venezuela, RB	95	-0.2%	98	2.0%	16	0.9%	14	
Vietnam	54	1.2%	45		22	1.4%	18	
Yemen, Rep.	385	1.1%	328	10.7%	55	2.1%	41	5.4%
Zambia	224	4.9%	105	7.5%	63	4.7%	32	6.3%

Table A1: (cont.)

Country	Maternal Mortality Ratio (MMR)				Child Mortality Rate (CMR)			
	MMR in 2015	Annual rate of decline 2005-2015	Current MMR trajectory for 2030	Rate required to reach MMR = 70 by 2030	CMR in 2016	Annual rate of decline 2006-2016	Current CMR trajectory for 2030	Rate required to reach CMR = 25 by 2030
Zimbabwe	443	3.4%	262	11.6%	56	5.6%	25	

Source: Authors' calculations based on WDI 2017; UN-IGME 2017.

Table A2: Estimated maternal and child deaths and lives at stake for 2017-2030

Country	Maternal Mortality Ratio (MMR)			Child Mortality Rate (CMR)		
	Cumulative deaths 2017-2030, current trend	Cumulative deaths 2017-2030 if MMR ≤ 70 met (SDG 3.1)	Lives saved 2017-2030 if MMR = 70 met (SDG 3.1)	Cumulative deaths 2017-2030, current trend	Cumulative deaths 2017-2030 if CMR ≤ 25 met (SDG 3.2)	Lives saved 2017-2030 if CMR = 25 met (SDG 3.2)
Afghanistan	36,302	26,904	9,398	855,742	695,708	160,034
Albania	129	129		4,788	4,788	
Algeria	15,069	10,968	4,101	239,418	239,418	
Andorra						
Angola	69,049	35,420	33,630	1,037,910	913,295	124,614
Antigua and Barbuda				154	154	
Argentina	4,910	4,910		87,986	87,986	
Armenia	78	78		4,294	4,294	
Australia	234	234		12,206	12,206	
Austria	39	39		3,280	3,280	
Azerbaijan	392	392		45,289	45,289	
Bahamas, The	65	56	8	601	601	
Bahrain	37	37		1,933	1,933	
Bangladesh	44,230	43,585	645	904,610	904,610	
Barbados	9	9		483	483	
Belarus	24	24		3,423	3,423	
Belgium	113	113		5,943	5,943	
Belize	20	20		1,420	1,420	
Benin	21,615	10,418	11,197	532,115	320,775	211,340
Bhutan	158	158		4,254	4,254	
Bolivia	5,332	4,158	1,174	95,699	95,699	
Bosnia and Herzegovina	40	40		2,091	2,091	
Botswana	511	511		21,086	21,086	
Brazil	11,919	11,919		409,094	409,094	
Brunei Darussalam	16	16		792	792	
Bulgaria	72	72		4,514	4,514	
Burkina Faso	35,180	17,914	17,265	654,058	534,492	119,566
Burundi	42,303	15,680	26,623	350,468	297,037	53,430
Cabo Verde	52	52		2,703	2,703	
Cambodia	4,630	4,630		93,581	93,581	
Cameroon	65,648	26,505	39,143	725,739	587,995	137,743
Canada	311	311		23,153	23,153	
Central African Republic	19,155	6,437	12,718	257,468	145,761	111,707
Chad	65,527	24,749	40,778	1,043,597	580,669	462,928
Chile	598	598		24,974	24,974	
China	35,314	35,314		1,198,874	1,198,874	
Colombia	5,099	5,099		116,864	116,864	
Comoros	1,038	575	463	22,876	16,711	6,165
Congo, Dem. Rep.	335,635	117,845	217,789	3,944,606	2,644,420	1,300,186
Congo, Rep.	9,670	4,785	4,885	111,215	102,906	8,309
Costa Rica	191	191		7,154	7,154	
Cote d'Ivoire	79,508	29,256	50,251	1,016,838	672,530	344,308
Croatia	30	30		1,827	1,827	
Cuba	601	601		7,750	7,750	
Cyprus	8	8		295	295	
Czech Republic	40	40		3,718	3,718	
Denmark	43	43		3,921	3,921	
Djibouti	496	370	126	15,550	12,173	3,377
Dominica						
Dominican Republic	3,599	2,260	1,339	77,753	77,753	
Ecuador	2,578	2,578		76,360	76,360	
Egypt, Arab Rep.	7,676	7,676		569,359	569,359	
El Salvador	684	684		16,836	16,836	
Equatorial Guinea	1,728	1,003	725	48,033	32,515	15,518
Eritrea	9,863	4,361	5,502	78,622	78,329	294
Estonia	11	11		300	300	
Ethiopia	92,794	73,139	19,655	1,849,522	1,825,293	24,229
Fiji	55	55		4,792	4,792	
Finland	20	20		1,395	1,395	
France	707	707		37,327	37,327	
Gabon	1,959	1,144	815	28,291	28,291	
Gambia, The	8,000	2,825	5,175	63,880	51,255	12,625
Georgia	221	221		4,092	4,092	
Germany	539	539		33,736	33,736	
Ghana	35,545	18,585	16,960	575,853	492,332	83,521
Greece	34	34		3,985	3,985	
Grenada	7	7		403	403	
Guatemala	4,077	4,077		131,000	131,000	
Guinea	39,598	15,105	24,493	474,118	330,646	143,473
Guinea-Bissau	4,334	1,924	2,410	62,455	47,069	15,385
Guyana	474	261	214	5,763	5,763	
Haiti	10,384	5,582	4,802	195,695	147,723	47,972
Honduras	3,134	2,552	582	38,548	38,548	

Table A2: (cont.)

Country	Maternal Mortality Ratio (MMR)			Child Mortality Rate (CMR)		
	Cumulative deaths 2017-2030, current trend	Cumulative deaths 2017-2030 if MMR ≤ 70 met (SDG 3.1)	Lives saved 2017-2030 if MMR = 70 met (SDG 3.1)	Cumulative deaths 2017-2030, current trend	Cumulative deaths 2017-2030 if CMR ≤ 25 met (SDG 3.2)	Lives saved 2017-2030 if CMR = 25 met (SDG 3.2)
Hungary	236	236		4,846	4,846	
Iceland	1	1		98	98	
India	408,029	369,493	38,536	10,376,256	10,376,256	
Indonesia	54,744	54,744		1,302,232	1,302,232	
Iran, Islamic Rep.	2,849	2,849		160,195	160,195	
Iraq	9,105	9,105		500,895	500,895	
Ireland	67	67		2,435	2,435	
Israel	88	88		6,362	6,362	
Italy	265	265		18,056	18,056	
Jamaica	512	462	50	7,607	7,607	
Japan	521	521		30,084	30,084	
Jordan	1,825	1,825		47,456	47,456	
Kazakhstan	217	217		28,101	28,101	
Kenya	87,783	43,177	44,606	825,666	810,361	15,305
Kiribati	29	29		2,175	1,688	487
Korea, Dem. People's Rep.	3,235	3,235		68,876	68,876	
Korea, Rep.	576	576		16,038	16,038	
Kuwait	25	25		5,730	5,730	
Kyrgyz Republic	1,299	1,299		26,572	26,572	
Lao PDR	2,335	2,335		104,453	86,676	17,777
Latvia	36	36		663	663	
Lebanon	109	109		6,703	6,703	
Lesotho	2,907	1,572	1,335	68,068	42,306	25,763
Liberia	13,516	5,614	7,901	113,032	101,965	11,068
Libya	118	118		13,977	13,977	
Liechtenstein						
Lithuania	35	35		1,545	1,545	
Luxembourg	8	8		189	189	
Macedonia, FYR	20	20		3,572	3,572	
Madagascar	34,340	19,977	14,363	420,469	420,469	
Malawi	66,664	22,310	44,353	360,173	360,173	
Malaysia	2,424	2,424		64,149	64,149	
Maldives	45	45		443	443	
Mali	61,633	24,649	36,984	1,030,502	664,140	366,363
Malta	4	4		394	394	
Marshall Islands						
Mauritania	11,439	4,658	6,780	151,617	104,065	47,552
Mauritius	130	99	30	2,288	2,288	
Mexico	8,706	8,706		357,702	357,702	
Micronesia, Fed. Sts.	28	28		957	957	
Moldova	75	75		6,913	6,913	
Monaco						
Mongolia	214	214		9,508	9,508	
Montenegro	5	5		188	188	
Morocco	7,638	7,638		190,031	190,031	
Mozambique	61,369	32,677	28,692	853,244	766,719	86,525
Myanmar	17,711	14,161	3,549	501,151	468,327	32,824
Namibia	2,009	1,378	632	35,442	35,063	378
Nauru						
Nepal	12,862	10,155	2,707	183,953	183,953	
Netherlands	124	124		7,762	7,762	
New Zealand	78	78		4,101	4,101	
Nicaragua	1,909	1,547	362	22,749	22,749	
Niger	78,903	33,689	45,214	1,073,796	851,097	222,698
Nigeria	812,423	273,737	538,686	8,961,196	5,902,880	3,058,316
Norway	35	35		1,809	1,809	
Oman	153	153		9,819	9,819	
Pakistan	101,312	81,286	20,025	4,979,191	3,409,337	1,569,853
Palau						
Panama	1,107	880	228	14,512	14,512	
Papua New Guinea	5,819	3,952	1,867	147,786	123,355	24,431
Paraguay	2,199	1,822	377	30,668	30,668	
Peru	3,663	3,663		87,343	87,343	
Philippines	35,790	29,965	5,824	772,791	772,791	
Poland	75	75		14,859	14,859	
Portugal	88	88		3,040	3,040	
Qatar	33	33		2,805	2,805	
Romania	725	725		14,798	14,798	
Russian Federation	3,686	3,686		119,799	119,799	
Rwanda	9,038	7,386	1,652	106,579	106,579	
Samoa	24	24		1,064	1,064	
San Marino						
Sao Tome and Principe	141	103	38	2,357	2,357	

Table A2: (cont.)

Country	Maternal Mortality Ratio (MMR)			Child Mortality Rate (CMR)		
	Cumulative deaths 2017-2030, current trend	Cumulative deaths 2017-2030 if MMR ≤ 70 met (SDG 3.1)	Lives saved 2017-2030 if MMR = 70 met (SDG 3.1)	Cumulative deaths 2017-2030, current trend	Cumulative deaths 2017-2030 if CMR ≤ 25 met (SDG 3.2)	Lives saved 2017-2030 if CMR = 25 met (SDG 3.2)
Saudi Arabia	705	705		83,472	83,472	
Senegal	20,538	12,035	8,503	252,533	252,533	
Serbia	232	232		5,489	5,489	
Seychelles				261	261	
Sierra Leone	37,294	12,691	24,602	288,828	208,366	80,462
Singapore	48	48		1,898	1,898	
Slovak Republic	39	39		3,504	3,504	
Slovenia	20	20		415	415	
Solomon Islands	212	212		5,975	5,975	
Somalia	60,609	22,991	37,619	1,106,878	606,112	500,766
South Africa	26,216	15,214	11,002	478,558	478,558	
South Sudan	41,254	16,348	24,906	466,252	331,333	134,919
Spain	256	256		13,571	13,571	
Sri Lanka	906	906		29,254	29,254	
St. Kitts and Nevis						
St. Lucia						
St. Vincent and the Grenadines	9	9		288	288	
Sudan	47,331	28,862	18,469	1,077,738	820,994	256,743
Suriname	157	138	19	2,181	2,181	
Swaziland	1,477	880	598	26,388	22,923	3,465
Sweden	57	57		4,339	4,339	
Switzerland	47	47		4,436	4,436	
Syrian Arab Republic	4,925	4,267	657	106,496	106,496	
Tajikistan	820	820		115,452	113,522	1,929
Tanzania	88,010	55,749	32,261	1,421,023	1,301,304	119,719
Thailand	1,464	1,464		86,003	86,003	
Timor-Leste	744	744		24,660	24,064	597
Togo	12,946	6,194	6,752	243,757	174,531	69,226
Tonga	49	33	16	601	601	
Trinidad and Tobago	142	142		3,346	3,346	
Tunisia	1,371	1,371		25,202	25,202	
Turkey	1,074	1,074		135,380	135,380	
Turkmenistan	621	621		72,701	64,742	7,959
Tuvalu						
Uganda	71,087	42,467	28,620	900,736	900,736	
Ukraine	1,154	1,154		38,950	38,950	
United Arab Emirates	75	75		8,167	8,167	
United Kingdom	784	784		37,794	37,794	
United States	8,937	8,937		336,853	336,853	
Uruguay	63	63		4,546	4,546	
Uzbekistan	2,621	2,621		127,555	127,555	
Vanuatu	58	58		2,794	2,742	52
Venezuela, RB	7,885	6,545	1,340	124,042	124,042	
Vietnam	10,049	10,049		402,220	402,220	
Yemen, Rep.	43,538	20,058	23,480	583,752	462,622	121,130
Zambia	15,367	12,472	2,895	465,954	414,510	51,444
Zimbabwe	24,988	13,157	11,831	282,890	282,890	

Source: Authors' calculations based on WDI 2017; UN-IGME 2017; UN-DESA 2017.

Table A3: Average annual declines in neonatal mortality rate for 2006-2016, trajectories for 2030, and estimated deaths and lives at stake for 2017-2030

Country	Neonatal Mortality Rate (NMR)						
	NMR in 2016	Annual rate of decline 2006-2016	Current NMR trajectory for 2030	Rate required to reach NMR = 12 by 2030	Cumulative deaths, 2017-2030, current trend	Cumulative deaths, 2017-2030, if NMR ≤ 12 met (SDG 3.2)	Lives saved, 2017-2030, if NMR = 12 met (SDG 3.2)
Afghanistan	40	2.9%	26	8.0%	527,571	369,906	157,664
Albania	6	3.8%	4		2,168	2,168	
Algeria	16	1.8%	12		153,976	153,976	
Andorra	1	3.7%	1				
Angola	29	3.7%	17	5.9%	444,792	378,205	66,587
Antigua and Barbuda	4	5.9%	2		57	57	
Argentina	6	3.3%	4		50,279	50,279	
Armenia	7	4.9%	4		2,378	2,378	
Australia	2	3.7%	1		7,459	7,459	
Austria	2	2.4%	2		2,172	2,172	
Azerbaijan	18	3.6%	11		28,223	28,223	
Bahamas	6	3.9%	3		333	333	
Bahrain	3	1.2%	3		893	893	
Bangladesh	20	5.0%	10		565,854	565,854	
Barbados	8	1.9%	6		314	314	
Belarus	2	6.7%	1		1,316	1,316	
Belgium	2	1.7%	2		3,502	3,502	
Belize	10	2.3%	7		1,044	1,044	
Benin	31	1.1%	27	6.4%	184,582	125,274	59,308
Bhutan	18	3.5%	11		2,644	2,644	
Bolivia (Plurinational State of)	19	3.1%	12		54,157	54,157	
Bosnia and Herzegovina	5	1.7%	4		1,848	1,848	
Botswana	26	1.5%	21	5.0%	16,331	12,797	3,534
Brazil	8	4.8%	4		210,836	210,836	
Brunei Darussalam	4	1.3%	4		353	353	
Bulgaria	4	3.8%	2		2,425	2,425	
Burkina Faso	26	3.1%	16	5.0%	233,774	203,337	30,437
Burundi	24	3.0%	16	4.6%	134,796	119,921	14,874
Cabo Verde	10	2.2%	7		1,323	1,323	
Cambodia	16	4.5%	8		57,061	57,061	
Cameroon	24	2.6%	17	4.5%	257,325	222,711	34,614
Canada	3	2.2%	2		14,898	14,898	
Central African Republic	42	1.4%	35	8.3%	96,911	58,370	38,541
Chad	35	1.3%	29	7.1%	317,590	206,809	110,782
Chile	5	0.2%	5		17,149	17,149	
China	5	8.7%	1		575,920	575,920	
Colombia	9	3.1%	6		65,179	65,179	
Comoros	33	2.1%	24	6.7%	10,860	7,797	3,062
Congo	21	2.3%	15	3.5%	48,341	44,400	3,941
Costa Rica	6	1.9%	4		4,525	4,525	
Côte d'Ivoire	37	1.9%	28	7.4%	440,464	294,620	145,844
Croatia	3	3.2%	2		1,118	1,118	
Cuba	2	2.8%	2		3,143	3,143	
Cyprus	1	4.8%	1		167	167	
Czechia	2	2.7%	1		1,828	1,828	
Democratic People's Republic of Korea	11	4.5%	6		37,477	37,477	
Democratic Republic of the Congo	29	2.0%	22	5.8%	1,333,974	1,007,631	326,343
Denmark	3	-0.6%	4		3,099	3,099	
Djibouti	33	1.9%	25	6.7%	8,525	6,102	2,423
Dominica	24	-7.1%	63	4.6%			
Dominican Republic	21	1.1%	18	3.6%	54,821	45,847	8,974
Ecuador	11	2.7%	8		41,822	41,822	
Egypt	13	3.5%	8		332,971	332,971	
El Salvador	8	3.9%	4		8,665	8,665	
Equatorial Guinea	32	2.1%	24	6.5%	18,402	13,344	5,058
Eritrea	18	2.5%	12		34,639	34,639	
Estonia	1	8.3%	0		130	130	
Ethiopia	28	3.9%	16	5.5%	986,855	877,527	109,329
Fiji	9	2.6%	6		1,670	1,670	
Finland	1	5.0%	1		698	698	
France	2	0.0%	2		25,536	25,536	
Gabon	22	2.1%	16	3.9%	15,356	13,455	1,901
Gambia	28	2.3%	20	5.5%	29,408	23,214	6,194
Georgia	7	7.5%	2		2,662	2,662	
Germany	2	1.2%	2		21,451	21,451	
Ghana	27	2.1%	20	5.3%	294,641	232,731	61,910
Greece	2	0.4%	2		2,558	2,558	
Grenada	8	-0.8%	9		209	209	
Guatemala	14	2.5%	10		69,471	69,471	
Guinea	25	3.8%	15	4.9%	130,341	120,897	9,445
Guinea-Bissau	38	2.8%	26	7.7%	30,597	21,557	9,040
Guyana	20	1.9%	15	3.3%	3,652	3,302	350

Table A3: (cont.)

Country	Neonatal Mortality Rate (NMR)						
	NMR in 2016	Annual rate of decline 2006-2016	Current NMR trajectory for 2030	Rate required to reach NMR = 12 by 2030	Cumulative deaths, 2017-2030, current trend	Cumulative deaths, 2017-2030, if NMR ≤ 12 met (SDG 3.2)	Lives saved, 2017-2030, if NMR = 12 met (SDG 3.2)
Haiti	25	1.7%	19	4.7%	76,675	61,979	14,696
Honduras	10	3.5%	6		22,148	22,148	
Hungary	3	3.3%	2		2,599	2,599	
Iceland	1	4.0%	1		45	45	
India	25	3.7%	15	4.9%	6,679,886	6,118,210	561,677
Indonesia	14	3.0%	9		724,707	724,707	
Iran (Islamic Republic of)	10	4.3%	5		103,652	103,652	
Iraq	18	2.1%	14	2.7%	302,767	289,425	13,341
Ireland	2	2.0%	2		1,599	1,599	
Israel	2	2.6%	1		3,857	3,857	
Italy	2	2.6%	1		10,961	10,961	
Jamaica	11	2.7%	7		5,332	5,332	
Japan	1	3.6%	1		9,492	9,492	
Jordan	11	2.9%	7		28,462	28,462	
Kazakhstan	6	9.1%	2		14,695	14,695	
Kenya	23	2.0%	17	4.1%	448,724	384,351	64,373
Kiribati	23	1.3%	19	4.1%	935	760	176
Kuwait	4	2.7%	3		3,099	3,099	
Kyrgyzstan	12	4.8%	6		15,452	15,452	
Lao People's Democratic Republic	29	2.5%	20	5.8%	51,021	40,500	10,520
Latvia	2	7.4%	1		344	344	
Lebanon	5	4.9%	2		3,826	3,826	
Lesotho	39	0.4%	36	7.7%	31,500	18,786	12,713
Liberia	23	3.6%	14	4.2%	43,098	41,305	1,794
Libya	7	5.1%	3		7,669	7,669	
Liechtenstein							
Lithuania	3	4.6%	1		735	735	
Luxembourg	2	1.8%	1		130	130	
Macedonia, FYR	8	0.4%	8		2,480	2,480	
Madagascar	19	3.1%	12		193,754	193,754	
Malawi	23	2.8%	15	4.3%	199,453	178,954	20,499
Malaysia	4	-0.2%	5		33,657	33,657	
Maldives	5	8.7%	1		243	243	
Mali	36	2.3%	26	7.2%	372,862	259,030	113,832
Malta	5	0.0%	5		270	270	
Marshall Islands	16	0.8%	15	1.9%			
Mauritania	34	1.8%	26	6.8%	67,343	46,575	20,768
Mauritius	8	1.7%	7		1,383	1,383	
Mexico	8	0.9%	7		222,929	222,929	
Micronesia (Federated States of)	17	2.3%	13	2.3%	522	522	
Monaco	2	2.8%	1				
Mongolia	10	6.2%	4		5,504	5,504	
Montenegro	2	9.2%	1		118	118	
Morocco	18	2.8%	12		131,383	131,383	
Mozambique	27	2.7%	18	5.4%	400,398	329,339	71,059
Myanmar	25	2.7%	17	4.7%	263,032	227,583	35,448
Namibia	18	0.7%	16	2.5%	17,599	15,406	2,193
Nauru	22	1.1%	19	4.0%			
Nepal	21	4.0%	12		121,193	121,193	
Netherlands	3	2.7%	2		5,238	5,238	
New Zealand	3	0.0%	3		2,610	2,610	
Nicaragua	9	4.0%	5		10,219	10,219	
Niger	26	3.1%	16	5.0%	362,947	314,026	48,921
Nigeria	34	2.2%	25	6.9%	3,274,282	2,318,839	955,444
Norway	2	3.8%	1		1,060	1,060	
Oman	5	1.4%	4		4,813	4,813	
Pakistan	46	1.5%	37	8.8%	3,063,478	1,835,266	1,228,212
Palau	8	3.3%	5				
Panama	10	3.1%	6		8,447	8,447	
Papua New Guinea	24	1.8%	18	4.4%	68,693	56,719	11,974
Paraguay	11	3.0%	7		17,293	17,293	
Peru	8	4.5%	4		44,116	44,116	
Philippines	13	2.1%	9		370,322	370,322	
Poland	3	4.4%	1		8,785	8,785	
Portugal	2	0.5%	2		2,080	2,080	
Qatar	4	2.3%	3		1,282	1,282	
Republic of Korea	2	3.8%	1		7,282	7,282	
Republic of Moldova	12	1.1%	10		5,360	5,360	
Romania	4	5.7%	2		7,094	7,094	
Russian Federation	3	5.5%	2		51,189	51,189	
Rwanda	17	5.6%	7		58,578	58,578	
Saint Kitts and Nevis	6	4.9%	3				

Table A3: (cont.)

	Neonatal Mortality Rate (NMR)						
		Annual rate of decline	Current NMR trajectory	Rate required to reach	Cumulative deaths,	Cumulative deaths,	Lives saved,
Country	NMR in 2016	2006-2016	for 2030	NMR = 12 by 2030	2017-2030, current trend	2017-2030, if NMR ≤ 12 met (SDG 3.2)	2017-2030, if NMR = 12 met (SDG 3.2)
Saint Lucia	9	2.1%	7				
Saint Vincent and the Grenadines	10	3.0%	7		177	177	
Samoa	9	1.2%	8		560	560	
San Marino	1	4.0%	0				
Sao Tome and Principe	15	2.3%	11		1,292	1,292	
Saudi Arabia	7	3.1%	4		44,714	44,714	
Senegal	21	4.1%	12		127,948	127,948	
Serbia	4	3.3%	2		3,574	3,574	
Seychelles	9	0.0%	9		162	162	
Sierra Leone	33	3.2%	21	6.7%	98,548	76,471	22,076
Singapore	1	0.9%	1		718	718	
Slovakia	3	2.1%	2		1,885	1,885	
Slovenia	1	5.5%	1		232	232	
Solomon Islands	10	1.2%	9		2,395	2,395	
Somalia	39	1.5%	31	7.8%	353,969	223,106	130,864
South Africa	12	0.9%	11		183,946	183,946	
South Sudan	38	2.5%	27	7.6%	215,665	148,790	66,875
Spain	2	1.4%	2		9,265	9,265	
Sri Lanka	5	2.5%	4		17,906	17,906	
Sudan	29	1.3%	24	5.9%	541,697	385,503	156,194
Suriname	11	3.1%	7		1,154	1,154	
Swaziland	21	0.3%	21	3.8%	11,239	8,716	2,523
Sweden	2	1.2%	1		2,519	2,519	
Switzerland	3	1.3%	2		3,251	3,251	
Syrian Arab Republic	9	1.2%	8		51,011	51,011	
Tajikistan	20	2.0%	15	3.3%	59,077	53,969	5,108
Thailand	7	3.6%	4		51,165	51,165	
Timor-Leste	22	2.9%	14	3.8%	11,926	11,104	822
Togo	26	2.0%	20	5.1%	89,279	70,977	18,302
Tonga	7	0.3%	7		246	246	
Trinidad and Tobago	13	2.8%	8		2,294	2,294	
Tunisia	8	4.7%	4		14,879	14,879	
Turkey	7	6.6%	3		70,141	70,141	
Turkmenistan	22	2.1%	17	4.1%	34,318	29,863	4,455
Tuvalu	17	2.9%	11				
Uganda	21	2.4%	15	3.8%	509,541	460,996	48,545
Ukraine	5	4.3%	3		22,947	22,947	
United Arab Emirates	4	2.2%	3		4,235	4,235	
United Kingdom	3	2.6%	2		23,630	23,630	
United Republic of Tanzania	22	2.3%	16	3.9%	636,161	563,873	72,288
United States	4	1.7%	3		194,809	194,809	
Uruguay	5	3.0%	3		2,616	2,616	
Uzbekistan	14	5.1%	7		79,582	79,582	
Vanuatu	12	0.3%	11		1,193	1,193	
Venezuela (Bolivarian Republic of)	10	-0.8%	12		89,218	89,218	
Viet Nam	12	1.1%	10		218,921	218,921	
Yemen	27	1.4%	22	5.3%	298,948	225,372	73,576
Zambia	23	2.5%	16	4.2%	198,950	174,164	24,786
Zimbabwe	23	2.5%	16	4.2%	143,296	126,365	16,930

Source: Authors' calculations based on UN-IGME 2017; UN-DESA 2017.