GBD PROFILE: SUDAN

GLOBAL BURDEN OF DISEASES, INJURIES, AND RISK FACTORS STUDY 2010

The Global Burden of Disease Study 2010 (GBD 2010) is a collaborative project of nearly 500 researchers in 50 countries led by the Institute for Health Metrics and Evaluation (IHME) at the University of Washington. It is the largest systematic scientific effort in history to quantify levels and trends of health loss due to diseases, injuries, and risk factors. GBD serves as a global public good to inform evidence-based policymaking and health systems design.

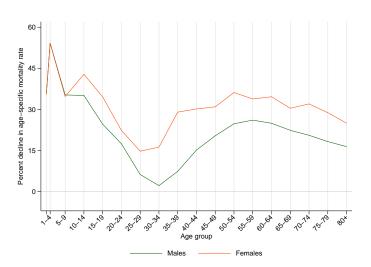
PROFILE OVERVIEW

- In terms of the number of years of life lost (YLLs) due to premature death in Sudan, lower respiratory infections, diarrheal diseases, and malaria were the highest ranking causes in 2010.
- Of the 25 most important causes of burden, as measured by disability-adjusted life years (DALYs), protein-energy malnutrition showed the largest decrease, falling by 44% from 1990 to 2010.
- The leading risk factor in Sudan is childhood underweight.

ALL-CAUSE MORTALITY RATE

- This chart shows the decline in mortality rate at every age range. The higher points on the chart indicate that declines in mortality rates were faster in those age groups between 1990 and 2010.
- The greatest reductions in all-cause mortality rate were experienced by males aged 1-4 years (54%). Males aged 30-34 years saw the smallest decrease in mortality rate (2%).

Percent decline in age-specific mortality rate by sex from 1990-2010 in Sudan



CAUSES OF PREMATURE DEATH

Years of life lost (YLLs) quantify premature mortality by weighting younger deaths more than older deaths.

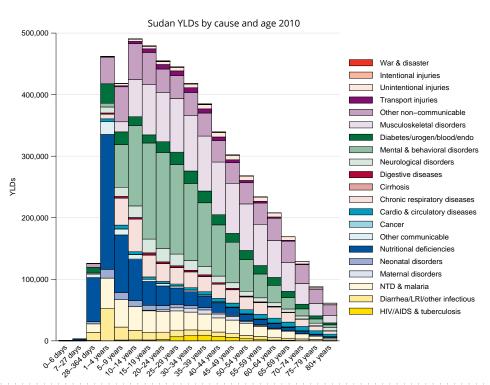
	Ranks for top 25 causes	of YLLs 1990-2010,	Sudan		
# YLLs in thous	ands			# YLLs in thousa	nds
(% of total)	Rank and disorder 1990		Rank and disorder 2010	(% of total)	% change
2,047 (14.3%)	1 Lower respiratory infections	 	1 Lower respiratory infections	1,406 (10.4%)	-32
1,698 (11.8%)	2 Diarrheal diseases	 	2 Diarrheal diseases	1,190 (8.8%)	-30
1,012 (7.1%)	3 Protein-energy malnutrition	<u> </u>	3 Malaria	1,097 (8.0%)	-3
1,100 (7.6%)	4 Malaria		4 HIV/AIDS	855 (6.4%)	1,189
727 (5.1%)	5 Preterm birth complications]/	5 Preterm birth complications	785 (5.9%)	9
538 (3.8%)	6 Neonatal sepsis] \ \ \ /	6 Neonatal sepsis	599 (4.5%)	13
470 (3.3%)	7 Neonatal encephalopathy] \	7 Neonatal encephalopathy	552 (4.1%)	15
506 (3.5%)	8 Meningitis	} / ``	8 Protein-energy malnutrition	536 (4.0%)	-47
518 (3.6%)	9 Measles].	9 Meningitis	503 (3.7%)	0
327 (2.3%)	10 Tuberculosis	Fig	10 Road injury	485 (3.6%)	70
280 (2.0%)	11 Congenital anomalies		11 Congenital anomalies	265 (2.0%)	-6
280 (2.0%)	12 Road injury		12 Tuberculosis	255 (1.9%)	-22
288 (2.0%)	13 Leishmaniasis		13 Maternal disorders	239 (1.8%)	-9
278 (1.9%)	14 Syphilis		14 Syphilis	237 (1.8%)	-15
261 (1.8%)	15 Maternal disorders		15 Stroke	220 (1.6%)	-10
241 (1.7%)	16 Stroke		16 Leishmaniasis	229 (1.7%)	-20
178 (1.2%)	17 War & legal intervention	k X /	17 Epilepsy	181 (1.3%)	38
173 (1.2%)	18 Ischemic heart disease		18 Ischemic heart disease	154 (1.2%)	-12
155 (1.1%)	19 Fire	} <u>}</u>	19 Self-harm	149 (1.1%)	67
131 (0.9%)	20 Epilepsy		20 Fire	147 (1.1%)	-4
122 (0.9%)	21 Drowning		21 Drowning	140 (1.0%)	16
90 (0.6%)	22 Self-harm		22 Typhoid fevers	137 (1.0%)	55
78 (0.5%)	23 COPD		23 Diabetes	91 (0.7%)	52
65 (0.5%)	24 Cirrhosis		24 Cirrhosis	86 (0.6%)	32
88 (0.6%)	25 Typhoid fevers		25 Falls	78 (0.6%)	88
	26 Diabetes		27 War & legal intervention		
	27 HIV/AIDS	1	·29 COPD		
	36 Falls		35 Measles		

This chart shows the change in the top 25 causes of YLLs due to premature mortality from 1990 to 2010. Solid lines indicate a cause has moved up in rank or stayed the same. Broken lines indicate a cause has moved down in rank. The causes are color coded by blue for non-communicable diseases, green for injuries, and red for communicable, maternal, neonatal, and nutritional causes of death.

YEARS LIVED WITH DISABILITY (YLDs)

Years lived with disability (YLDs) are estimated by weighting the prevalence of different conditions based on severity. The top five leading causes of YLDs in Sudan are low back pain, iron-deficiency anemia, major depressive disorder, anxiety disorders, and neck pain.

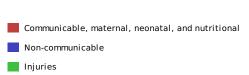
The size of the colored portion in each bar represents the number of YLDs attributable to each cause. The height of each bar shows which age groups had the most YLDs in 2010. The causes are aggregated. For example, musculoskeletal disorders include low back pain and neck pain.

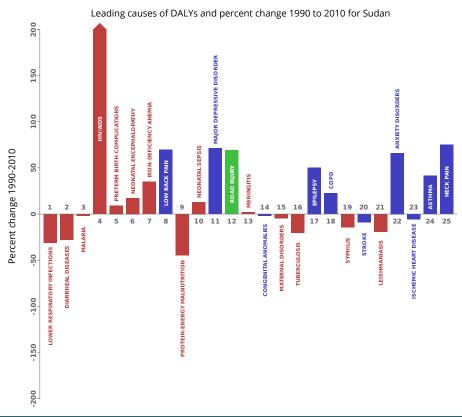


DISABILITY-ADJUSTED LIFE YEARS (DALYS)

Disability-adjusted life years (DALYs) quantify both premature mortality (YLLs) and disability (YLDs) within a population. In Sudan, the top three causes of DALYs in 2010 were lower respiratory infections, diarrheal diseases, and malaria. Two causes that appeared in the 10 leading causes of DALYs in 2010 and not 1990 were HIV/AIDS and low back pain.

The top 25 causes of DALYs are ranked from left to right in order of the number of DALYs they contributed in 2010. Bars going up show the percent by which DALYs have increased since 1990. Bars going down show the percent by which DALYs have decreased. Globally, non-communicable diseases and injuries are generally on the rise, while communicable, maternal, neonatal, and nutritional causes of DALYs are generally on the decline.

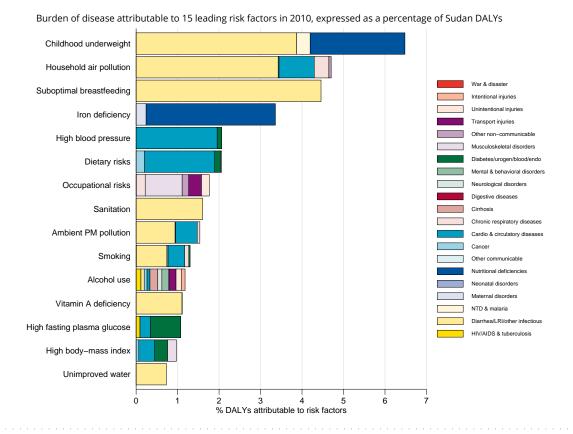




RISK FACTORS

Overall, the three risk factors that account for the most disease burden in Sudan are childhood underweight, household air pollution from solid fuels, and suboptimal breastfeeding. The leading risk factors for children under 5 and adults aged 15-49 years were childhood underweight and iron deficiency, respectively, in 2010.

The graph shows the top 15 risk factors for Sudan. The colored portion of each bar represents the specific diseases attributable to that risk factor while bar size represents the percentage of DALYs linked to specific risk factors.



COUNTRY BENCHMARKING OF BURDEN OF DISEASE

Understanding the relative performance of Sudan against other comparator countries provides key insight into public health successes and areas where Sudan might be falling behind. The table identifies Sudan's rank across 14 other comparator countries, selected and ordered by income per capita, for five metrics of interest, with 1 indicating the best rank and 15 indicating the worst rank.

- Age-standardized rates are used to make meaningful comparisons across time by adjusting for changes in population size and age structure.
- Life expectancy incorporates mortality, and health-adjusted life expectancy further incorporates years lived in less than ideal health.
- In 2010, Sudan ranked 2nd for age-standardized death rate and 15th for age-standardized YLD rate.

Age-st	andardize	d death	rates, YLI	rates, Y	LD rates,	and life	expectan	cy at birt	h and hea	alth-adju	sted life e	expectan	cy at birth	for 199	0 and 20	10, both	sexes co	mbined		
	Age-standardized death rate (per 100,000)				Age-standardized YLL rate (per 100,000)				Age-standardized YLD rate (per 100,000)				Life	expecta	ncy at bi	rth	Health-adjusted life expectancy at birth			
Country	1990		2010		1990		2010		1990		2010		1990		2010		1990		20	10
	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	LE	Rank	LE	Rank	HALE	Rank	HALE	Rank
Yemen	1,361	12	1,068	9	47,661	8	32,041	7	15,157	13	14,318	14	59.3	9	65.8	7	49.4	11	55.2	9
Uzbekistan	972	1	911	4	29,477	1	26,063	2	12,381	2	12,150	1	67.3	1	68.8	2	57.8	1	59.3	2
Solomon Islands	1,707	14	1,510	14	47,851	10	40,489	12	13,520	6	12,482	5	59.4	8	62	12	51.2	7	54	11
Papua New Guinea	1,990	15	1,700	15	64,195	15	49,553	15	14,891	12	13,793	9	53.8	15	58.7	15	45.7	15	50.4	13
Djibouti	1,180	6	1,129	11	45,440	6	38,655	11	13,493	5	14,182	12	60.6	6	63.2	11	51.6	5	53.5	12
Laos	1,532	13	1,094	10	56,031	13	34,746	9	13,297	4	12,323	3	56.2	13	64.7	9	48.3	13	55.9	7
Kyrgyzstan	1,047	3	999	6	33,446	2	30,037	6	12,606	3	12,336	4	65.5	2	66.9	6	56.2	2	57.6	5
Sudan	1,110	5	799	2	41,735	5	28,295	4	15,584	15	14,781	15	62.1	5	68.8	3	51.4	6	57	6
Cameroon	1,296	9	1,277	13	51,072	12	49,262	13	14,617	11	13,891	11	58.3	12	59.1	14	49.1	12	50.2	15
Nigeria	1,343	10	1,159	12	60,604	14	49,276	14	14,273	9	13,842	10	55.1	14	59.6	13	46.4	14	50.4	14
Mauritania	1,244	7	1,031	8	45,799	7	36,003	10	15,248	14	14,307	13	60.2	7	64.5	10	50.3	8	54.3	10
Cambodia	1,355	11	957	5	47,844	9	28,770	5	14,501	10	12,603	6	59.2	10	67.5	5	50.1	9	58	4
Tajikistan	1,067	4	911	3	38,138	3	27,409	3	12,331	1	12,296	2	63.8	3	68.3	4	54.8	3	58.7	3
Senegal	1,278	8	1,009	7	49,632	11	33,824	8	13,914	8	13,379	8	58.8	11	65.3	8	49.9	10	55.6	8
São Tomé and Príncipe	1,044	2	794	1	39,144	4	24,592	1	13,532	7	13,252	7	63.5	4	70.2	1	53.9	4	59.6	1

COUNTRY BENCHMARKING OF BURDEN OF DISEASE, CONTINUED

This figure shows the rank of Sudan relative to the same comparator countries for the leading causes of DALYs in 1990 (top) and 2010 (bottom).

- The columns are ordered by the absolute number of DALYs in Sudan for that particular year, with greatest burden on the left.
- The numbers indicate the rank across countries for each cause in terms of age-standardized DALY rates, with 1 as the best performance and 15 as the worst.

Ranking of leading age	-star	ndard	ized	rates	of di	sabili	ty-ad	juste	d life	vear	s (DA	LYs) ı	relati	ve to	comp	arato	or cou	ıntrie	s in 1	L990					
			malnutrition		complications								disorder										ntion		
Country	Lower respiratory infections	Diarrheal diseases	Protein-energy mal	Malaria	Preterm birth comp	Neonatal encephalopathy	Meningitis	Neonatal sepsis	Iron-deficiency anemia	Measles	Low back pain	Tuberculosis	Major depressive di	Road injury	Congenital anomalies	Maternal disorders	Leishmaniasis	Syphilis	Stroke	Ischemic heart disease	Epilepsy	СОРD	War & legal intervention	Fire	Asthma
Vaman	14		<u>-</u> 5	Σ 5	<u>ā</u>		3		8 Ir			-		~ 7			14	ر ن ک	<u>ب</u> 9	<u>s</u>		_			
Yemen	3	13	2			1	2	4	5	5	13 5	8	15 5		15	8	6		11	15	1	3	1	6	9
Uzbekistan	1	3	7	8	2	15 2	8	7	1	4	8	12	2	9 5	6	4	1	2 15	15	9	7	1 13	1	12	14
Solomon Islands	15	4	10	11	3	3	11	8		6	6	15	3	6	7	13	1	10	1	7	8	12	13	14	15
Papua New Guinea	9	6	14	4	13	11	12	9	4 6	11	12	5	9	15	10	11	1	6	8	8	13	7	1	13	5
Djibouti	12	11	8	7	11	5	7	5	7	9	3	14	8	4	14	9	1	7	13	11	3	14	12	5	13
Laos	7	2	1	2	5	14	1	2	2	2	4	2	6	11	11	2	8	1	14	13	5	15	1	1	1
Kyrgyzstan Sudan	4	8	13	9	8	9	9	10	10	7	15	7	14	10	8	10	15	13	4	4	9	4	15	11	4
Cameroon	5	10	11	14	9	7	13	12	9	12	11	6	11	14	5	12	9	14	5	6	15	8	1	10	6
Nigeria	11	14	15	15	14	13	15	15	14	15	14	10	1	13	4	7	11	11	3	2	12	2	1	15	7
Mauritania	6	12	9	6	10	10	10	14	15	14	10	9	12	12	3	15	10	12	6	5	11	6	1	8	11
Cambodia	8	5	6	10	12	6	5	6	13	10	2	13	10	3	13	6	1	8	12	10	2	10	14	3	12
Tajikistan	13	9	3	3	15	12	4	3	3	3	7	1	4	8	9	3	7	3	10	14	6	5	1	4	2
Senegal	10	15	4	13	4	4	14	11	12	13	1	11	7	1	2	14	13	5	2	1	14	9	1	7	10
São Tomé and Príncipe	2	7	12	12	6	8	6	13	11	8	9	4	13	2	12	5	12	4	7	3	10	11	1	9	8
Ranking of leading age																							-	J	Ū
			7.00		or an		5, 444	Justo		year) (DA	- I - J /	GIGIGI	ve to	Comp										
Country	Lower respiratory infections	Diarrheal diseases	Malaria	HIV/AIDS	Preterm birth complications	Neonatal encephalopathy	Iron-deficiency anemia	Low back pain	Protein-energy malnutrition	Neonatal sepsis	Major depressive disorder	Road injury	Meningitis	Congenital anomalies	Maternal disorders	Tuberculosis	Epilepsy	COPD	Syphilis	Stroke	, Leishmaniasis	Anxiety disorders	Ischemic heart disease	Asthma	. Neck pain
Country	Lower respiratory infections	Diarrheal diseases	o Malaria	HIV/AIDS	Preterm birth complications	Neonatal encephalopathy	Iron-deficiency anemia	Low back pain	المالية Protein-energy malnutrition	Neonatal sepsis	Major depressive disorder	2 Road injury	ω Meningitis	Congenital anomalies	ω Matemal disorders	Tuberculosis 7	Epilepsy 1	COPD 4	Syphilis	Stroke	8	14	12 Ischemic heart	10	Neck 1
Country Yemen Uzbekistan	ω Lower respiratory infections	Diarrheal diseases	9 Malaria	HIV/AIDS	Preterm birth complications	Neonatal encephalopathy	Lion-deficiency anemia	Low back pain	2 Protein-energy malnutrition	Neonatal sepsis	Major depressive disorder	8 L Road injury	2 Meningitis	Congenital anomalies	n Maternal disorders	7 Tuberculosis	Epilepsy 4	QQOO 4 2	Syphilis 1	Stroke	8	14 10	12 Ischemic heart	10	Neck 1 8
Country Yemen Uzbekistan Solomon Islands	2 Lower respiratory infections	Diarrheal diseases	1 9 Malaria	SQIV/NH 2 4 1	Preterm birth complications	Neonatal encephalopathy	1 Iron-deficiency anemia	Tow back bain	8 C L Protein-energy malnutrition	Neonatal sepsis	Major depressive disorder	Road injury	8 Meningitis	Congenital anomalies	9 T 8 Maternal disorders	7 Tuberculosis	A Epilepsy	QdOO 4 2 13	siliydys 9	9 Stroke	8 6 1	14 10 4	12 Ischemic heart	10 3 14	Neck 1 8 5
Country Yemen Uzbekistan Solomon Islands Papua New Guinea	2 Lower respiratory infections	Diarrheal diseases	6 1 7 7 9	SQIN/AID2 4 1 9	Preterm birth complications	Neonatal encephalopathy	1 Lon-deficiency anemia	13 6 10 11	Protein-energy malnutrition	Neonatal sepsis	Major depressive disorder	7 Road injury	8 10	2 Congenital anomalies	9 Maternal disorders	Tuberculosis 13	Sbilepsy 1 4 5 7	2 13 14	silihdys 8 1 15 10	9 Stroke	8 6 1	14 10 4 6	12 15 9 8	10 3 14 15	1 8 5 4
Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti	Tower respiratory infections	Diarrheal diseases Diarrheal diseases	9 Malaria	SQIV/AIH 2 4 1 9 14	Land Preterm birth complications	1 Neonatal encephalopathy	12 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 6 10 11 12	Protein-energy malnutrition Protein-energy malnutrition	Neonatal sepsis	15 Hajor depressive disorder 8 Hajor depressive disorder 15 Hajor depressi	7 8 4 5 14	11 Meningitis	Congenital anomalies	8 Matemal disorders	7 Tuperculosis 15 11	Sdelid3 1 4 5 7 12	QQOO 4 2 13 14 8	siliydks 9 1 12 10 4	9 Stroke 9 Stroke 8	8 6 1 1	14 10 4 6 13	12 15 9 8 5	10 3 14 15 8	1 8 5 4 15
Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos	Tower respiratory infections	Diarrheal diseases Diarrheal diseases	6 1 7 9 8 4	SQIV/AIH 2 4 1 9 14 3	Land Preterm birth complications 14 1 2 3 7 11	1 Neonatal encephalopathy 6	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 6 10 11 12 3	Protein-energy malnutrition	Neonatal sepsis	Major depressive disorder	7 8 4 5 14 9	11 8 10 11 7	15 7 2 8 10 14	8 Matemal disorders 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	sisolusaida 7 2 13 15 11 14	Schilepsi 1 4 5 7 12 2	2 13 14 8 11	siliydd S 9 1 12 10 4 8	9 12 15 4 8 11	8 6 1 1 1 1	14 10 4 6 13	10 schemic heart	10 3 14 15 8 13	1 8 5 4 15 2
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan	Tower respiratory infections	Seases Diarrheal diseases 2	9 Walaria 4 2	SQIN/VIH 2 4 1 9 14 3 7	Suppose the state of the state	Neonatal encephalopathy 1 15 2 3 9 6 14	12 1 1 3 11 6 2 2	uied ypack bain 13 6 10 11 12 3 5	7 Protein-energy maluntrition 14 6 1	Neonatal sepsis	Major depressive disorder	7 Road injury 10	3 1 8 10 11 7 7 2	215 7 2 8 10 14 11	8 Maternal disorders 7 7 3	sisolnapara 7 2 13 15 11 14 4	Ssdelid3 1 4 5 7 12 2 6	QQOO 4 2 13 14 8 11 15	silindys 9 1 12 10 4 8 2	9 yours 9 Stroke 11 14	8 6 1 1 1 1 1	14 10 4 6 13 1	12 15 9 8 5 10 14	10 3 14 15 8 13	1 8 5 4 15 2 6
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan	solutions 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	S S S S S S S S S S S S S S S S S S S	einele W 6 1 7 9 8 4 2 10	SQIV/AIH 2 4 1 9 14 3 7 12	11 10 6	Neonatal encephalopathy Neonatal encephalopathy	12 10 11 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	uied ypeq wor 13 6 10 11 12 3 5 15	7 Protein-energy malnutrition	Neonatal sepsis 1 7 8 9 5 2 10	15 10 11 8 13 11 5 14	7 8 4 5 14 9 10 111	3 1 8 10 11 7 2 9	21 Congenital anomalies 11 3	8 Maternal disorders 8 1 6 10 12 7 3 9	7 2 13 15 11 14 4 5 5	Sdelida 1 4 5 7 12 2 6 10	QQO 4 2 13 14 8 11 15 3	silindy 9 1 12 10 4 8 2 15	9 12 15 4 8 11 14 1	8 6 1 1 1 1 1 11 15	14 10 4 6 13 1 9	12 15 9 8 5 10 14 1	10 3 14 15 8 13 1 6	1 8 5 4 15 2 6
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan Cameroon	solutions Infections 15 8 2 14 6 9 5 3 13	\$ \$3 \$2 \$10 \$14	e para 6 1 7 9 8 4 2 10 14	SQIV/AIH 2 4 1 9 14 3 7 12 15	11 10 6 8	1 15 2 3 9 6 14 8 10	12 10 16 2 10 8	uiu pack pack pain 13 6 10 11 12 3 5 15 9	7 2 8 10 14 6 1 12 13	Neonatal sebsis: 13	15 10 11 15 14 3	7 8 4 5 14 9 10 11 13	3 1 8 10 11 7 2 9 15	7 Congenital anomalies 11 3 9	8 Matemal disorders 8 1 6 10 12 7 3 9 14	7 2 13 15 11 14 4 5 6	Sdelid 1 4 5 7 12 2 6 10 15	4 2 13 14 8 11 15 3	sillinds 9 1 12 10 4 8 2 15	9 12 15 4 8 11 14 1 5	8 6 1 1 1 1 1 1 15 9	14 10 4 6 13 1 9 15	12 15 9 8 5 10 14 1	10 3 14 15 8 13 1 6	New York New
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan Cameroon Nigeria	15 8 2 14 6 9 5 3 13 12	Seases Diarrheal diseases 10 14 11	e pue BW 6 1 7 9 8 4 2 10 14 15	SGIV/NH 2 4 1 9 14 3 7 12 15 13	14 1 2 3 7 11 10 6 8 15	Neonatal encephalopathy 1	12 10 11 12 10 13 11 11 16 18 13 13 13 13 13 13 13 13 13 13 13 13 13	uiu	7 2 8 10 14 6 1 12 13 15	Neonatal sebsis Neonatal sebsis 10 13 15	15 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 4 5 14 9 10 11 13 15	3 1 8 10 11 7 2 9 15 14	215 Condenital anomalies 8 10 14 11 3 9 4	8 Matemal disorders 8 10 12 7 3 9 14 13	7 2 13 15 11 14 4 5 6 9 9	Ssdəjidə 1 4 5 7 12 2 6 10 15 11	2 13 14 8 11 15 3 6	siliydas 9 1 12 10 4 8 2 15 14 13	9 12 15 4 8 11 14 1 5 3	8 6 1 1 1 1 1 15 9	14 10 4 6 13 1 9 15 7	12 15 9 8 5 10 14 1 7	10 3 14 15 8 13 1 6 4	New York Name of Name
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan Cameroon Nigeria Mauritania	15 8 2 14 6 9 5 3 13 12 11	Seases Giseases Gi	ejagae 6 1 7 9 8 4 2 10 14 15 11	SGIF/AIH 2 4 1 9 14 3 7 12 15 13	14 1 2 3 7 11 10 6 8 15 12	Neonatal encephalopathy 1	12 13 11 6 2 10 8 13 15	uied ypeq wool 13 6 10 11 12 3 5 15 9 14 8	7 2 8 10 14 6 1 12 13 15 11	Sissisted Siss	15 10 1 8 13 11 5 14 3 2 7	7 8 4 5 14 9 10 11 13 15 12	3 1 8 10 11 7 2 9 15 14 13	15 7 2 8 10 14 11 3 9 4 6 6	8 1 6 10 12 7 3 9 14 13 15	sisoln2aqnL 7 2 13 15 11 14 4 5 6 6 9 8	Asdoplids 1 4 5 7 12 2 6 10 15 11 14	QQ 4 2 13 14 8 11 15 3 6 1 5 5	siliyd\(\text{s}\) 9 1 12 10 4 8 2 15 14 13 11	9 12 15 4 8 11 14 1 5 3 6 6	8 6 1 1 1 1 1 15 9 10	14 10 4 6 13 1 9 15 7 3 5	12 15 9 8 5 10 14 1 7 4 6	10 3 14 15 8 13 1 6 4 5 11	1 8 5 4 15 2 6 13 11 9 10
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan Cameroon Nigeria Mauritania Cambodia	15 8 2 14 6 9 5 3 13 12 11 4	Seases Gilbert Gilbert	ejuejew 6 1 7 9 8 4 2 10 14 15 11 5	SQIV/AH 2 4 1 9 14 3 7 12 15 13 10 6	14 1 2 3 7 11 10 6 8 15 12 13	1 Neonatal encephalopathy 1 Neonatal 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 10 8 13 15 9	uied ypeq wool 13 6 10 11 12 3 5 15 9 14 8 2	7 2 8 10 14 6 1 13 15 11 5	Sisses Neonatal Sepsis 14 6 6	15 10 18 13 11 5 14 3 2 7	7 8 4 5 14 9 10 11 13 15 12 6	3 1 8 10 11 7 2 9 15 14 13 4	sejiemounajies 7 7 2 8 10 14 11 3 9 4 6 6 12	8 Matemal disorders 8 1 6 10 12 7 3 9 14 13 15 4	sisoln2JaqnL 7 2 13 15 11 14 4 5 6 6 9 8 12	Asdo Pid 3 1 4 5 7 12 2 6 10 15 11 14 3	QQOV 4 2 13 14 8 11 15 3 6 1 5 10	silludás 9 1 12 10 4 8 2 15 14 13 11 6	9 12 15 4 8 11 14 1 5 3 6 6 10	8 6 1 1 1 1 1 1 1 1 1 1 1 3 1 1 1 1 1 1 1	14 10 4 6 13 1 9 15 7 3 5	12 15 9 8 5 10 14 1 7 4 6 11	10 3 14 15 8 13 1 6 4 5 11 12	1 8 5 4 15 2 6 13 11 9 10
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan Cameroon Nigeria Mauritania Cambodia Tajikistan	15 8 2 14 6 9 5 3 13 12 11 4 7 7	Seases Gilbert Gilbert	ejuejew 6 1 7 9 8 4 2 10 14 15 11 5 3	SQIV/AH 2 4 1 9 14 3 7 12 15 13 10 6 5	14 1 2 3 7 11 10 6 8 15 12 13 9	Neonatal encephalopathy 1 15 2 3 9 6 14 8 10 13 11 7 12	12 10 8 13 15 9 4	uied ypeq wol 13 6 10 11 12 3 5 15 9 14 8 2 4	7 2 8 10 14 6 1 13 15 11 5 3	Siscolaria Neonata Sebsis 14 6 3	15 10 18 13 11 5 14 3 2 7 6 9	7 8 4 5 14 9 10 11 13 15 12 6 3	3 1 8 10 11 7 2 9 15 14 13 4 5	sejimouna jira jira jira jira jira jira jira jir	8 Matemal disorders 8 1 6 10 12 7 3 9 14 13 15 4 2	sisoln2JaqnL 7 2 13 15 11 14 4 5 6 9 8 12 3	Sddelid 1 4 4 5 7 12 2 6 10 15 11 14 3 8	QQOV 4 2 13 14 8 11 15 3 6 1 5 10 9	silludás 9 1 12 10 4 8 2 15 14 13 11 6 7	9 12 15 4 8 11 14 1 5 3 6 6 10 13	8 6 1 1 1 1 1 1 15 9 10 13 1	14 10 4 6 13 1 9 15 7 3 5 2	12 15 9 8 5 10 14 1 7 4 6 11 13	10 3 14 15 8 13 1 6 4 5 11 12 2	1 8 5 4 15 2 6 11 9 10 3
Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan Cameroon Nigeria Mauritania Cambodia Tajikistan Senegal	15 8 2 14 6 9 5 3 13 12 11 4 7 7 10	Seeses G G G G G G G G G	e i e i e i e i e i e i e i e i e i e i	SQIV/AH 2 4 1 9 14 3 7 12 15 13 10 6 5 8	14 1 2 3 7 11 10 6 8 15 12 13 9 5 5	1 15 2 3 9 6 14 8 10 13 11 7 12 4	12 5 11 6 2 10 8 13 15 9 4	uied ypeq wol 13 6 10 11 12 3 5 15 9 14 8 2 4 1	7 2 8 10 14 6 1 13 15 11 5 3 4	Neonatal sebsis: 14 6 3 12	15 10 1 18 8 13 111 5 14 3 2 7 6 6 9 4	7 8 4 5 5 14 9 10 11 13 15 12 6 6 3 1	3 1 8 10 11 7 2 9 15 14 13 4 5 12	15 7 2 8 10 14 11 3 9 4 6 12 13	8 1 6 10 12 7 3 9 14 13 15 4 2 11	Sisoln2JaqnL 7 2 13 15 11 14 4 5 6 9 8 12 3 10	Asdelid 1 1 4 4 5 7 1 1 2 2 6 6 1 1 1 1 1 1 4 3 8 8 1 3	QQ 4 2 13 14 8 11 15 3 6 1 5 10 9	sillydxs 9 1 12 10 4 8 2 15 14 13 11 6 7	9 12 15 4 8 11 14 1 5 3 6 6 10 13 2	8 6 1 1 1 1 1 15 9 10 13 1 12 14	14 10 4 6 13 1 9 15 7 3 5 2 11 8	12 15 9 8 5 10 14 1 7 4 6 11 13 2	10 3 14 15 8 13 1 6 4 5 11 12 2	1 8 5 4 15 2 6 13 11 9 10 3 7 12
Country Yemen Uzbekistan Solomon Islands Papua New Guinea Djibouti Laos Kyrgyzstan Sudan Cameroon Nigeria Mauritania Cambodia Tajikistan	15 8 2 14 6 9 5 3 13 12 11 4 7 7	Seases Gilbert Gilbert	ejuejew 6 1 7 9 8 4 2 10 14 15 11 5 3	SQIV/AH 2 4 1 9 14 3 7 12 15 13 10 6 5	14 1 2 3 7 11 10 6 8 15 12 13 9	Neonatal encephalopathy 1 15 2 3 9 6 14 8 10 13 11 7 12	12 10 8 13 15 9 4	uied ypeq wol 13 6 10 11 12 3 5 15 9 14 8 2 4	7 2 8 10 14 6 1 13 15 11 5 3	Siscolaria Neonata Sebsis 14 6 3	15 10 18 13 11 5 14 3 2 7 6 6	7 8 4 5 14 9 10 11 13 15 12 6 3	3 1 8 10 11 7 2 9 15 14 13 4 5	sejimouna jira jira jira jira jira jira jira jir	8 Matemal disorders 8 1 6 10 12 7 3 9 14 13 15 4 2	sisoln2JaqnL 7 2 13 15 11 14 4 5 6 9 8 12 3	Sddelid 1 4 4 5 7 12 2 6 10 15 11 14 3 8	QQOV 4 2 13 14 8 11 15 3 6 1 5 10 9	silludás 9 1 12 10 4 8 2 15 14 13 11 6 7	9 12 15 4 8 11 14 1 5 3 6 6 10 13	8 6 1 1 1 1 1 1 15 9 10 13 1	14 10 4 6 13 1 9 15 7 3 5 2	12 15 9 8 5 10 14 1 7 4 6 11 13	10 3 14 15 8 13 1 6 4 5 11 12 2	1 8 5 4 15 2 6 11 9 10 3 7

Institute for Health Metrics and Evaluation 2301 Fifth Ave., Suite 600 Seattle, WA 98121 USA Telephone: +1-206-897-2800 E-mail: comms@healthmetricsandevaluation.org www.healthmetricsandevaluation.org

