GBD PROFILE: THAILAND

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.

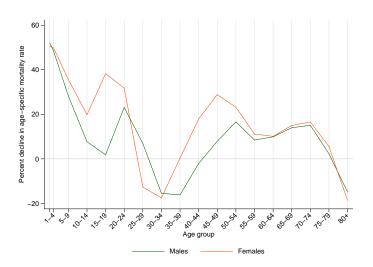
PROFILE OVERVIEW

- In terms of the number of years of life lost (YLLs) due to premature death in Thailand, HIV/AIDS, ischemic heart disease, and road injury were the highest ranking causes in 2010.
- Of the 25 most important causes of burden, as measured by disability-adjusted life years (DALYs), preterm birth complications showed the largest decrease, falling by 56% from 1990 to 2010.
- The leading risk factor in Thailand is dietary risks.

ALL-CAUSE MORTALITY RATE

- This chart shows the change in mortality rate at every age range. The points above 0 on the chart indicate positive declines in the all-cause mortality rate, while points below 0 indicate an increase in mortality rate between 1990 and 2010.
- The greatest reductions in all-cause mortality rate were experienced by males aged <1 year (52%). Females aged 80+ years saw the largest increase in mortality rate (19%).

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



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. Thailand

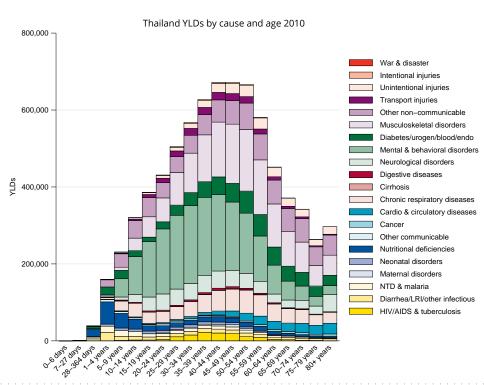
# YLLs in thous	sands	3 01 1223 1330 2010,	manara	# YLLs in thousa	ands
(% of total)	Rank and disorder 1990		Rank and disorder 2010	(% of total)	% change
900 (8.8%)	1 Ischemic heart disease		1 HIV/AIDS	1,064 (8.5%)	445
659 (6.5%)	2 Road injury	/	2 Ischemic heart disease	971 (7.8%)	2
592 (5.8%)	3 Lower respiratory infections	}/	3 Road injury	867 (7.0%)	37
505 (5.0%)	4 Stroke	} <i>-</i>	4 Lower respiratory infections	796 (6.4%)	43
465 (4.6%)	5 Preterm birth complications].	5 Stroke	787 (6.3%)	60
423 (4.1%)	6 Interpersonal violence		6 Liver cancer	631 (5.1%)	114
390 (3.8%)	7 Congenital anomalies	l Ns. / //	7 Self-harm	456 (3.7%)	61
466 (4.5%)	8 Measles]/ / ///	8 Lung cancer	395 (3.2%)	104
303 (3.0%)	9 Drowning		9 Diabetes	380 (3.0%)	128
298 (2.9%)	10 Cirrhosis]+-X////	10 Interpersonal violence	406 (3.3%)	-11
305 (3.0%)	11 Tuberculosis	ンングナナー	-11 Cirrhosis	341 (2.7%)	10
294 (2.9%)	12 Liver cancer	Y	12 Drowning	321 (2.6%)	9
296 (2.9%)	13 Self-harm		13 Chronic kidney disease	291 (2.3%)	84
197 (1.9%)	14 Rheumatic heart disease		14 COPD	269 (2.2%)	56
195 (1.9%)	15 HIV/AIDS	ľX \	15 Tuberculosis	242 (1.9%)	-16
194 (1.9%)	16 Lung cancer		16 Preterm birth complications	182 (1.5%)	-61
222 (2.2%)	17 Typhoid fevers	} /`}/	17 Congenital anomalies	175 (1.4%)	-56
184 (1.8%)	18 Other cardio & circulatory		18 Other cardio & circulatory	170 (1.4%)	-7
180 (1.8%)	19 Cardiomyopathy		19 Colorectal cancer	162 (1.3%)	123
172 (1.7%)	20 COPD	/ // \	20 Typhoid fevers	206 (1.6%)	-7
168 (1.6%)	21 Diabetes] /\ \/ `	21 Rheumatic heart disease	148 (1.2%)	-24
159 (1.6%)	22 Chronic kidney disease		22 Hypertensive heart disease	123 (1.0%)	-29
152 (1.5%)	23 Hypertensive heart disease		23 Asthma	106 (0.8%)	90
154 (1.5%)	24 Diarrheal diseases]//	24 Leukemia	104 (0.8%)	51
141 (1.4%)	25 Neonatal encephalopathy]/	25 Meningitis	97 (0.8%)	40
	27 Meningitis	1	·30 Diarrheal diseases		
	29 Colorectal cancer	///	·31 Neonatal encephalopathy		
	31 Leukemia	//	52 Cardiomyopathy		
	32 Asthma		¹ 59 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 Thailand are major depressive disorder, low back pain, neck pain, migraine, and chronic obstructive pulmonary disease.

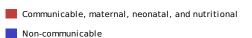
The size of the colored portion in each bar represents the number of YLDs attributable to each cause. The height of each bar shows which age groups had the most YLDs in 2010. The causes are aggregated. For example, musculoskeletal disorders include low back pain and neck pain.



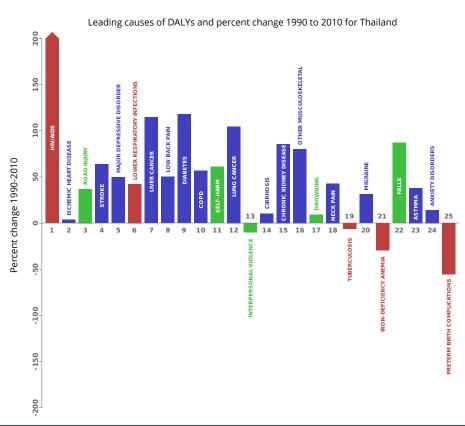
DISABILITY-ADJUSTED LIFE YEARS (DALYS)

Disability-adjusted life years (DALYs) quantify both premature mortality (YLLs) and disability (YLDs) within a population. In Thailand, the top three causes of DALYs in 2010 were HIV/AIDS, ischemic heart disease, and road injury. The causes that were in the 10 leading causes of DALYs in 2010 and not 1990 were HIV/AIDS, liver cancer, diabetes mellitus, and chronic obstructive pulmonary disease.

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.



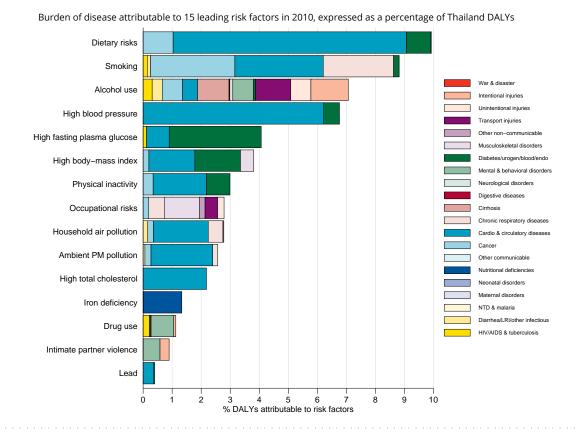
Injuries



RISK FACTORS

Overall, the three risk factors that account for the most disease burden in Thailand are dietary risks, tobacco smoking, and alcohol use. The leading risk factors for children under 5 and adults aged 15-49 years were childhood underweight and alcohol use, respectively, in 2010.

The graph shows the top 15 risk factors for Thailand. 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 Thailand against other comparator countries provides key insight into public health successes and areas where Thailand might be falling behind. The table identifies Thailand'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, Thailand ranked 1st for age-standardized YLD rate and 10th for life expectancy.

Age-sta	andardize	d death	rates, YLI	rates, Y	LD rates,	and life	expectan	cy at birt	h and he	alth-adju	sted life e	expectan	cy at birtl	n 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	e expecta	ncy at bi	rth	Health-adjusted life expectancy at birth				
Country	1990		2010		19	1990		2010		1990		2010		1990		10	1990		20	10	
	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	Rate	Rank	LE	Rank	LE	Rank	HALE	Rank	HALE	Rank	
Jamaica	676	1	610	6	18,618	1	16,417	8	12,075	4	12,909	12	73.6	1	75.3	6	63.2	1	62.8	10	
Macedonia	873	13	682	11	21,414	6	13,939	3	11,940	3	11,694	8	70.9	8	75	8	61.2	7	64.8	6	
Saint Vincent and the Grenadines	890	14	753	14	26,567	12	20,602	14	13,233	15	13,056	14	68.7	14	72	14	58.5	14	60.2	14	
Dominican Republic	765	8	683	12	23,701	10	18,385	10	12,154	6	12,232	11	70.8	10	73.7	12	60.9	9	62.2	12	
Colombia	760	5	617	7	23,157	8	16,372	7	12,110	5	11,643	6	71.1	7	75	7	61.1	8	64.7	7	
Dominica	831	11	669	10	24,475	11	19,240	12	12,486	11	13,022	13	70.3	11	73.8	11	60.2	11	61.5	13	
Belize	765	7	805	15	20,556	3	21,887	15	12,951	14	13,377	15	72	3	71.2	15	61.2	6	59.4	15	
Thailand	712	4	663	9	20,676	4	17,227	9	11,069	1	10,369	1	72.4	2	74.1	10	63.2	2	65.3	5	
Peru	803	9	551	3	27,953	14	14,679	4	12,854	13	11,692	7	68.9	13	76.4	4	58.6	13	65.7	4	
Azerbaijan	961	15	695	13	31,387	15	20,272	13	12,212	8	11,620	5	66.7	15	72.5	13	57.4	15	62.5	11	
Tunisia	698	2	541	2	21,287	5	13,716	2	11,328	2	11,199	3	72	4	76.4	3	62.2	3	66	3	
Ecuador	700	3	522	1	22,420	7	14,956	5	12,265	9	11,404	4	72	5	77	1	61.7	5	66.4	1	
Bosnia and Herzegovina	834	12	584	5	19,064	2	12,248	1	12,186	7	11,057	2	71.9	6	76.5	2	61.8	4	66.3	2	
Algeria	762	6	584	4	23,346	9	15,484	6	12,395	10	12,215	10	70.9	9	75.5	5	60.3	10	64.2	8	
El Salvador	809	10	661	8	26,931	13	18,474	11	12,585	12	11,781	9	69.6	12	74.2	9	59.5	12	63.9	9	

COUNTRY BENCHMARKING OF BURDEN OF DISEASE, CONTINUED

This figure shows the rank of Thailand 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 Thailand 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	ıdard	ized r	ates	of dis	sabili	ty-ad	juste	d life	year	s (DA	LYs) ı	relati	ve to	comp	arato	or cou	ıntrie	s in 1	990					
																							a)		>
Country	Ischemic heart disease	Road injury	Lower respiratory infections	Stroke	Major depressive disorder	Preterm birth complications	Interpersonal violence	Low back pain	Congenital anomalies	Measles	Iron-deficiency anemia	COPD	Tuberculosis	Drowning	Cirrhosis	Liver cancer	Self-harm	Diabetes	HIV/AIDS	Migraine	Neck pain	Diarrheal diseases	Rheumatic heart disease	Anxiety disorders	Other cardio & circulatory
Jamaica	3	1	2	11	6	1	11	6	4	3	13	3	1	1	1	6	1	14	11	7	11	7	13	3	7
Macedonia	13	4	3	15	9	11	3	15	12	4	1	9	2	2	3	11	11	7	7	14	13	8	12	13	11
Saint Vincent and the Grenadines	6	3	10	10	15	15	8	3	8	2	15	2	3	14	8	12	10	15	13	8	12	4	6	15	13
Dominican Republic	11	8	7	9	12	12	9	1	11	11	14	5	12	4	14	4	8	11	10	10	9	13	8	9	5
Colombia	9	10	6	5	11	3	15	11	7	6	8	11	8	10	6	9	9	1	6	4	4	6	5	10	6
Dominica	4	7	9	6	7	14	6	4	5	1	9	1	6	11	7	14	4	13	15	11	10	2	3	4	15
Belize	8	5	12	7	10	6	5	5	1	7	12	4	9	9	5	13	7	10	14	9	5	5	1	12	14
Thailand	7	12	5	4	1	4	12	2	9	15	4	14	13	15	13	15	13	3	12	12	3	3	15	1	10
Peru	1	6	14	1	4	9	10	9	2	10	10	6	15	8	10	10	5	2	8	5	6	14	4	11	2
Azerbaijan	15	11	15	12	2	7	7	12	13	9	7	13	11	7	15	2	6	5	1	13	15	11	11	6	1
Tunisia	12	15	4	8	5	8	2	8	14	8	3	8	4	3	4	1	3	4	3	1	2	10	14	5	8
Ecuador	2	13	13	2	3	2	13	7	6	14	11	15	14	12	11	3	12	8	5	3	8	12	9	8	4
Bosnia and Herzegovina	14	2	1	14	8	5	1	13	3	5	2	12	7	5	9	7	14	9	4	15	14	1	2	14	9
Algeria	10	9	8	13	14	13	4	14	15	13	5	7	10	6	2	8	2	12	2	2	1	9	10	2	12
El Salvador	5	14	11	3	13	10	14	10	10	12	6	10	5	13	12	5	15	6	9	6	7	15	7	7	3
Ranking of leading age	-star	dard	izad ı	ates	of dia		44.04				- / -					arate		intrio	e in 2	010					
		Cere	izeu i	alles	or an	Salbilli	Ly-au	juste	a lire	year	S (DA	LYS)	relati	ve to	comp	aratt	or cou	ПЦПЕ	-	010					
Country	HIV/AIDS	Ischemic heart disease	Road injury	Stroke	Major depressive disorder	Lower respiratory infections	Liver cancer	Low back pain	Diabetes	QOO	Self-harm Self-harm	Lung cancer	Interpersonal violence	Cirrhosis	Chronic kidney disease	Other musculoskeletal	Drowning	Neck pain	Tuberculosis	Migraine	Iron-deficiency anemia	Falls	Asthma	Anxiety disorders	Preterm birth complications
	HIV/AIDS		,		disorder	respiratory infections	cancer	back pain					violence		disease	musculoskeletal		pain	S.		anem	Falls	Asthma	Anxiety disorders	Preterm birth complications
Country	HIV/AIDS	Ischemic heart disease	Road injury	Stroke	Major depressive disorder	Lower respiratory infections	Liver cancer	Low back pain	Diabetes	COPD	Self-harm	Lung cancer	Interpersonal violence	Cirrhosis	Chronic kidney disease	Other musculoskeletal	Drowning	Neck pain	Tuberculosis	Migraine	Iron-deficiency anem	Fal		Anxiety	
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