# THE LANCET Public Health

## Supplementary appendix

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## The burden and trend of diseases and their risk factors in Australia, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019

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#### Supplementary Table 1 Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER) checklist



## Checklist of information that should be included in new reports of global health estimates

Item #	Checklist item	Reported on page #
	ves and funding	On page π
1	Define the indicator(s), populations (including age, sex, and geographic entities), and time period(s) for which estimates were made.	Page 5
2	List the funding sources for the work.	Page 2
Data Ir	puts	
For al	l data inputs from multiple sources that are synthesized as part of the study:	
3	Describe how the data were identified and how the data were accessed.	Page 5
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	Page 5
5	Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant.	Page 5
6	Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5).	Page 5-7
For do	nta inputs that contribute to the analysis but were not synthesized as part of the study:	
7	Describe and give sources for any other data inputs.	Page 5
For al	l data inputs:	
8	Provide all data inputs in a file format from which data can be efficiently extracted (e.g., a spreadsheet rather than a PDF), including all relevant meta-data listed in item 5. For any data inputs that cannot be shared because of ethical or legal reasons, such as third-party ownership, provide a contact name or the name of the institution that retains the right to the data.	Page 5-7

Data	analysis	
9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	Page 5-7
10	Provide a detailed description of all steps of the analysis, including mathematical formulae. This description should cover, as relevant, data cleaning, data pre-processing, data adjustments and weighting of data sources, and mathematical or statistical model(s).	Page 5-7 and Supplementary files
11	Describe how candidate models were evaluated and how the final model(s) were selected.	Page 5-7 and Supplementary file
12	Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.	Page 5-7 and Supplementary file
13	Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.	Page 5-7 and Supplementary files
14	State how analytic or statistical source code used to generate estimates can be accessed.	Page 5-7 and
Resul	ts and Discussion	- Supplementary mes
15	Provide published estimates in a file format from which data can be efficiently extracted.	Page 7-9
16	Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).	Page 7-9
17	Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.	Page 9-12
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.	Page 11-12

This checklist should be used in conjunction with the GATHER statement and Explanation and Elaboration document, found on gather-statement.org

**Supplementary Table 2** Age-standardized death rates, YLL rates, YLD rates, life expectancy at birth, and health-adjusted life expectancy at <1 year of age for both sexes combined relative to comparator countries with high SDI, 1990 and 2019

Cou ntry	Death standa	•	00,000 (a d)	ige-	YLLs per standard		000 (age-		YLDs pe standard		,000 (age- )	•	Life exp	ecta	ncy at bi	rth	Health-a	•	ed life	
	199	0	2019	)	1990		2019		1990		2019		1990	)	2019	)	1990	)	2019	)
	Rate (95% UI)	Rank	Rate (95% UI)	Rank	Rate (95% UI)	Rank	Rate (95% UI)	Rank	Rate (95% UI)	Rank	Rate (95% UI)	Rank	LE (95% UI)	Rank	LE (95% UI)	Rank	HALE (95% UI)	Rank	HALE (95% UI)	Rank
	651 (645		394 (388		14452 (14300		7536 (7391 to		10987 (8099		10925 (8055	9	76.9 (76.7	7	82.9 (82.7	4	66.4 (63.3	7	70.8 (67.4	5
NOR	to 657)	7	to 401)	5	to 14602)	7	7691)	4	to 14218)	10	to 14224)		to 77.0)		to 83.1)		to 69.1)		to 73.9)	
	591 (587		353 (345		13443 (13323		6907 (6678 to		11476 (8501		10728 (7945	6	77.9 (77.8	2	84.0 (83.7	3	66.8 (63.6	5	72.0 (68.6	3
CHE	to 596)	2	to 362)	3	to 13566)	3	7159)	2	to 14786)	11	to 13844)		to 78.0)		to 84.2)		to 69.7)		to 75.1)	
	796 (787		431 (416		16626 (16398		8320 (7935 to		10888 (8062		11081 (8177	11	75.0 (74.9	15	82.0 (81.7	8	65.3 (62.5	12	70.4 (67.0	8
IRL	to 805)	15	to 446)	10	to 16846)	13	8752)	7	to 14110)	7	to 14373)		to 75.1)		to 82.4)		to 67.8)		to 73.3)	
	726 (724		463 (455		15979 (15922		9126 (8946 to	-	10754 (7936	-	10949 (8072	10	75.7 (75.6	9	81.2 (81.0	12	65.8 (62.9	9	69.7 (66.4	12
DEU	to 728)	13	to 471)	13	to 16036)	9	9330)	12	to 13982)	6	to 14255)		to 75.7)		to 81.4)		to 68.3)		to 72.7)	
	588 (570		348 (322		12840 (12363		6973 (6307 to		10522 (7727		10448 (7710	3	78.1 (77.7	1	84.1 (83.2	2	67.9 (65.0	1	72.3 (69.1	2
ISL	to 607)	1	to 379)	2	to 13336)	1	7795)	3	to (13680)	5	to 13570)		to 78.5)		to 84.9)		to 70.6)		to 75.4)	
IOL	605	1	398		12879	1	7595		10495	<u> </u>	10474	4	77.9	3	82.8	6	67.8	2	71.4	4
SWE	(601 to 609)	3	(393 to 403)	6	(12777 to 12986)	2	(7477 to 7723)	5	(7764 to 13633)	4	(7727 to 13605)		(77.9 to 78.0)		(82.7 to 83.0)		(64.8 to 70.4)		(68.1 to 74.3)	

	719		324		16009		6191		9481		8854	1	75.6	11	84.9	1	66.7	6	74.5	1
	(712		(316		(15816		(5965 to		(7055		(6537		(75.5		(84.6		(64.0		(71.4	
000	to		to		to	4.0	6454)		to		to		to		to		to		to	
SGP	726)	11	333)	1	16210)	10		1	12396)	1	11575)		75.7)		85.1)		69.0)	_	77.1)	<u> </u>
	638		389		14420		8041		11589		11566	13	77.0	6	82.9	5	66.1	8	70.3	10
	(634		(381		(14324		(7811 to		(8639		(8613		(76.9		(82.7		(62.9		(66.7	
	to		to		to		8295)		to		to		to		to		to		to	
AUS	641)	5	398)	4	14514)	6		6	14969)	13	14936)		77.1)		83.1)		68.8)		73.4)	!
	647		443		13871		8503		10217		10385	2	77.2	5	81.7	11	67.4	3	70.6	6
	(643		(432		(13773		(8200 to		(7556		(7710		(77.1		(81.5		(64.5		(67.5	
	to		to		to		8844)		to		to		to		to		to		to	
NLD	651)	6	455)	11	13971)	4		8	13204)	2	13439)		77.2)		82.0)		69.9)		73.4)	
	735		462		16594		9162		10960		10768	7	75.2	14	81.1	13	65.3	13	69.9	11
	(729		(449		(16429		(8798 to		(8124		(7956		(75.1		(80.8		(62.3		(66.7	
	to		to		to		9566)		to		to		to		to		to		to	
DNK	741)	14	477)	12	16754)	12		13	14165)	8	13905)		75.3)		81.4)		67.8)		72.8)	
	611		410		13932		8964		10315		10720	5	77.4	4	82.2	7	67.3	4	70.5	7
	(609		(405		(13867		(8773 to		(7631		(7955		(77.4		(82.0		(64.4		(67.2	
	to		to		to		9172)		to		to		to		to		to		to	
CAN	614)	4	416)	7	14001)	5	ŕ	10	13379)	3	13796)		77.5)		82.3)		69.9)		73.4)	
	717		528		16804		12724		12553		13337	15	75.7	10	78.9	15	63.9	15	65.4	15
	(715		(524		(16771		(12587		(9394		(9990		(75.7		(78.8		(60.6		(61.8	
	to		to		to		to		to		to		to		to		to		to	
USA	720)	8	533)	15	16835)	15	12868)	15	16115)	15	17050)		75.7)		79.0)		66.8)		68.8)	
	669		466		15587		9372		11520		11585	14	75.8	8	81.1	14	65.4	11	69.1	14
	(668		(462		(15529		(9245 to		(8523		(8575		(75.8		(81.0		(62.3		(65.7	
	to		` to		` to		9507)		` to		` to		` to		` to		to		` to	
GBR	670)	10	470)	14	15647)	8	,	14	14921)	12	14984)		75.9)		81.2)		68.1)		72.2)	
	723		428		16375		8765		10963		10805	8	75.4	13	81.9	9	65.4	10	70.3	9
	(714		(415		(16174		(8419 to		(8075		(7991		(75.3		(81.5		(62.5		(67.0	
	` to		` to		` to		9144)		` to		` to		` to		` to		` to		` to	
FIN	732)	12	443)	8	16594)	11	<i>,</i>	9	14222)	9	14005)		75.6)		82.2)		68.0)		73.3)	
	699 <sup>°</sup>		430		16667		9122		11884		11560	12	75.6	12	81.8	10	64.7	14	69.6	13
	(692		(423		(16490		(8910 to		(8756		(8545		(75.4		(81.6		(61.5		(66.1	
	to		to		to		9340)		to		to		to		to		to		to	
NZL	705)	9	437)	9	16852)	14	,	11	15349)	14	14904)		75.7)		82.0)		67.5)		72.7)	

NOR=Norway, CHE=Switzerland, IRL=Ireland, DEU=Germany, ISL=Iceland, SWE=Sweden, SGP=Singapore, AUS=Australia, NLD=The Netherlands, DNK=Denmark, CAN=Canada, USA= The United States of America, GBR=United Kingdom of Great Britain and Northern Ireland, FIN=Finland, NZL=New Zealand. Note: 1 indicates the best rank and 15 the worst.

**Supplementary Table 3** Age-standardized rate (95% uncertainity interval [UI]) of DALYs with percentage changes between 1990-2010, 2010-2019, and 1990-2019 for the leading causes of diseases, disabilities, and injuries in Australia

Cause	D	ALY ra	nk	DALY	s per 100 000 popu (95% UI)	llation	Age standardised % change in DALYs (95% UI)						
	1990	2010	2019	1990	2010	2019	1990-2010	2010-2019	1990-2019				
Low back pain	2	1	1	1115.3 (784.1 to 1484.7)	1080.5 (763.6 to 1443.3)	986.6 (685.3 to 1334.1)	-3.1 (-6.7 to 0.6)	-8.7 (-14.8 to -	-11.5 (-17.5 to - 5.6)				
Ischemic heart disease	1	2	2	3045.6 (2903.0 to 3131.8)	1063.3 (982.4 to 1114.2)	879.0 (807.4 to 930.1)	-65.1 (-66.3 to - 64.0)	-17.3 (-20.6 to -14.3)	-71.1 (-72.5 to - 69.9)				
Depressive disorders	6	3	3	799.5 (550.6 to 1084.7)	861.6 (586.2 to 1182.1)	798.7 (549.4 to 1128.5)	7.8 (0.1 to 15.9)	-7.3 (-15.9 to 2.3)	-0.1 (-7.9 to 7.8)				
Falls	11	5	4	557.7 (409.5 to 752.2)	628.9 (465.4 to 839.8)	670.6 (493.2 to 898.7)	12.8 (10.2 to 15.2)	6.6 (4.7 to 8.4)	20.2 (17.8 to 22.8)				
Other musculoskeletal disorders	12	4	5	555.4 (386.1 to 767.4)	651.8 (455.8 to 890.9)	667.1 (456.7 to 917.7)	17.4 (9.9 to 24.9)	2.3 (-6.9 to 11.3)	20.1 (9.8 to 30.4)				
Drug use disorders	18	13	6	443.2 (347.7 to 551.0)	505.0 (397.0 to 619.7)	609.2 (482.1 to 753.2)	13.9 (2.7 to 28.3)	20.6 (9.2 to 32.8)	37.4 (24.7 to 52.9)				
Anxiety disorders	14	10	7	548.4 (362.0 to 775.8)	536.7 (381.0 to 724.2)	555.3 (366.7 to 785.0)	-2.1 (-18.7 to 19.1)	3.5 (-13.2 to 23.5)	1.3 (-5.4 to 9.1)				
Headache disorders	13	7	8	550.3 (122.6 to 1188.8)	551.6 (123.3 to 1192.6)	551.5 (122.4 to 1178.5)	0.2 (-3.0 to 3.3)	0.0 (-2.7 to 3.1)	0.2 (-3.0 to 3.5)				
Self-harm	9	9	9	639.7 (620.1 to 660.7)	539.1 (523.6 to 555.2)	518.0 (491.9 to 551.0)	-15.7 (-19.1 to - 12.4)	-3.9 (-9.2 to 2.7)	-19.0 (-23.5 to - 13.6)				
Chronic obstructive pulmonary disease	8	11	10	720.1 (665.4 to 769.3)	517.3 (459.8 to 574.6)	497.1 (440.4 to 553.0)	-28.2 (-33.5 to - 21.6)	-3.9 (-11.7 to 3.5)	-31.0 (-36.6 to - 24.8)				
Tracheal, bronchus, and lung cancer	7	8	11	767.4 (745.9 to 788.1)	546.5 (522.0 to 563.0)	491.6 (461.2 to 520.1)	-28.8 (-31.3 to - 26.3)	-10.1 (-14.8 to -5.0)	-35.9 (-39.7 to - 32.0)				
Diabetes mellitus	20	14	12	409.5 (343.5 to 486.2)	484.9 (386.0 to 610.1)	480.8 (365.6 to 613.0)	18.4 (9.7 to 29.2)	-0.8 (-6.9 to 5.7)	17.4 (6.1 to 30.6)				
Neonatal disorders	5	6	13	805.4 (741.7 to	563.7 (513.4 to	449.3 (388.5 to	-30.0 (-36.7 to -	-20.3 (-30.2 to	-44.2 (-52.3 to -				

				882.1)	620.3)	512.8)	23.6)	-9.8)	35.9)
Stroke	3	12	14	1058.9 (985.0 to 1115.9)	507.6 (457.4 to 545.6)	445.2 (398.8 to 487.9)	-52.1 (-54.3 to - 50.1)	-12.3 (-16.9 to -7.4)	-58.0 (-60.7 to - 55.3)
Exposure to mechanical forces	17	16	15	505.6 (350.9 to 728.9)	433.2 (290.3 to 640.7)	440.2 (294.4 to 658.1)	-14.3 (-17.3 to - 12.1)	1.6 (0.0 to 3.1)	-12.9 (-16.4 to - 10.2)
Asthma	10	17	16	576.5 (421.3 to 775.2)	368.9 (251.3 to 527.2)	373.8 (245.5 to 549.8)	-36.0 (-43.9 to - 28.0)	1.3 (-11.1 to 13.5)	-35.2 (-46.0 to - 22.6)
Road injuries	4	15	17	952.8 (912.7 to 997.9)	451.7 (423.4 to 482.7)	365.0 (335.0 to 397.0)	-52.6 (-54.5 to - 50.5)	-19.2 (-23.8 to -14.8)	-61.7 (-64.0 to - 59.3)
Age-related and other hearing loss	22	18	18	382.3 (265.9 to 542.8)	355.5 (245.1 to 511.4)	355.2 (240.5 to 508.3)	-7.0 (-10.8 to -3.3)	-0.1 (-5.0 to 5.4)	-7.1 (-12.4 to - 1.7)
Colon and rectum cancer	16	19	19	522.9 (504.4 to 539.1)	350.4 (330.7 to 365.7)	334.6 (309.2 to 359.1)	-33.0 (-35.5 to - 30.4)	-4.5 (-10.4 to 2.2)	-36.0 (-40.2 to - 31.5)
Endocrine, metabolic, blood, and immune disorders	26	22	20	289.4 (220.1 to 370.9)	327.8 (258.1 to 411.1)	330.5 (261.0 to 415.1)	13.3 (7.7 to 21.0)	0.8 (-3.4 to 5.0)	14.2 (7.7 to 23.1)
Gynecological diseases	23	21	21	333.3 (230.6 to 466.7)	331.6 (227.8 to 466.6)	328.5 (226.7 to 464.1)	-0.5 (-3.6 to 3.0)	-0.9 (-4.2 to 2.2)	-1.5 (-4.7 to 1.9)
Alzheimer's disease and other dementias	24	23	22	326.5 (146.8 to 726.9)	319.3 (146.5 to 690.3)	318.9 (145.9 to 676.1)	-2.2 (-7.1 to 3.2)	-0.1 (-3.5 to 3.6)	-2.3 (-7.0 to 3.2)
Oral disorders	19	24	23	423.2 (272.3 to 618.0)	308.0 (192.7 to 461.7)	315.3 (193.6 to 482.2)	-27.2 (-32.2 to - 21.5)	2.4 (-9.2 to 15.6)	-25.5 (-35.4 to - 14.7)
Osteoarthritis	27	25	24	283.0 (143.0 to 565.8)	297.7 (152.2 to 590.2)	312.9 (158.4 to 634.0)	5.2 (-0.9 to 10.9)	5.1 (-0.1 to 11.3)	10.6 (6.9 to 14.5)
Congenital birth defects	15	20	25	528.5 (433.4 to 581.1)	344.6 (309.8 to 393.9)	288.5 (245.9 to 344.5)	-34.8 (-41.1 to - 16.3)	-16.3 (-25.4 to -5.0)	-45.4 (-53.4 to - 24.3)

Note causes are presented by DALYs ranking in 2019. UI=uncertainty interval.

# **Supplementary Figure 1A** Ranking of the leading causes of age-standardized rates of disability-adjusted life years (DALYs) compared to countries with high SDI, 1990

	Both sexes, Age-standardized, 1990, DALYs per 100,000														
a		S	h.					c. V			United States of	United Street	Y Kingdon	N <sub>e/</sub>	· .
*	Stralia	Norway	niteriand	Ireland	Germany	Celand	Sweden	Singapore Ne	therlands.	Dennark	Canada	America	Tingdom	rinland	Ledany
Ischemic heart disease	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Low back pain	2	3	2	3	3	2	3	6	4	3	4	2	3	4	4
Stroke	3	2	3	2	2	3	2	2	2	2	5	6	2	2	3
Road injuries	4	9	7	6	4	6	7	14	9	9	3	4	11	7	2
Neonatal disorders	5	5	11	11	7	7	10	10	5	11	7	5	5	11	7
Depressive disorders	6	14	8	8	16	10	5	13	10	8	11	11	6	6	14
Lung cancer	7	10	6	5	6	4	12	5	3	4	2	3	4	9	5
COPD	8	20	17	4	12	11	20	4	6	6	12	7	7	18	6
Self-harm	9	4	4	16	9	8	4	9	15	5	8	13	17	3	8
Asthma	10	12	18	18	21	16	11	18	21	25	28	23	9	25	9
Falls	11	7	5	14	8	9	8	16	17	10	17	20	16	5	12
Other musculoskeletal	12	26	22	20	22	18	23	11	19	22	6	10	22	26	31
Headache disorders	13	6	10	7	5	5	6	20	8	12	9	9	8	8	16
Anxiety disorders	14	8	12	12	13	12	13	24	11	16	14	16	20	16	10
Congenital defects	15	11	9	9	14	15	9	8	7	7	10	14	12	10	13
Colorectal cancer	16	16	25	13	17	23	18	12	16	14	13	19	15	23	11
Mechanical forces	17	32	27	36	48	38	33	29	43	40	32	34	51	40	15
Drug use disorders	18	28	15	40	33	28	44	55	41	27	22	17	25	28	32
Oral disorders Diabetes	19	22	26	23	25	22	25 16	31 7	20	23	24	30	26	17	21
Breast cancer	20 21	17	16	22	10	25 17	21		12 13	21	15	8	19 13	14 20	22
ge-related hearing loss	21	21 25	14 31	17 27	19 28	29	29	25 19	26	13 31	16 18	18 21	23	20	18 23
Gynecological diseases	23	15	13	15	15	14	14	30	14	15	27	31	14	13	19
Alzheimer's disease	23	23	24	25	24	24	24	23	22	28	20	28	24	22	24
SIDS	25	31	43	25	32	52	38	136	52	56	41	36	31	73	17
	25	51	43	29	32	52	30	130	52	50	41	30	31	/5	17

# **Supplementary Figure 1B** Ranking of the leading causes of age-standardized rates of disability-adjusted life years (DALYs) compared to countries with high SDI, 2010

	Both sexes, Age-standardized, 2010, DALYs per 100,000														
a d		S	n.		0			. S. 10	United States of	Onire Or	A Kingdon	New Tedano			
· ·	Stralia	Norway	witzerland	Treland	Germany	Iceland	Sweden	Singapore V	etherlands	Oennark	Canada	America	Tingdon	rin <sub>land</sub>	Tealand
Low back pain	1	2	1	2	2	2	2	3	2	1	3	2	2	3	2
Ischemic heart disease	2	1	2	1	1	1	1	1	3	2	1	1	1	1	1
Depressive disorders	3	9	6	3	6	9	3	12	7	7	9	8	6	4	5
Other musculoskeletal	4	23	15	17	16	13	13	5	13	17	2	5	15	24	27
Falls	5	6	3	10	9	5	6	8	14	9	14	19	11	2	3
Neonatal disorders	6	16	8	16	12	16	18	16	9	11	5	9	8	19	6
Headache disorders	7	3	5	4	3	3	4	9	5	6	6	12	5	7	12
Lung cancer	8	7	7	5	4	4	9	7	1	3	4	6	3	11	11
Self-harm	9	10	10	9	14	12	7	14	15	18	8	13	22	5	8
Anxiety disorders	10	5	4	6	7	7	10	21	8	16	15	14	13	15	4
COPD	11	8	14	7	11	8	11	15	4	4	11	4	4	17	7
Stroke	12	4	11	8	5	6	5	4	6	5	10	11	7	6	9
Drug use disorders	13	12	18	13	25	18	19	44	34	21	7	3	10	14	26
Diabetes	14	13	12	19	8	14	8	6	12	13	12	7	9	9	17
Road injuries	15	24	22	23 42	20	25	24	22	22	22 44	13	10	28	16	10
Mechanical forces Asthma	16 17	37	30	22	47 30	37 19	36 23	28 32	44	28	41 27	45	50 14	33 26	13 23
Age-related hearing loss	18	18 22	24 27	28	26	27	23	10	26 25	31	18	20 15	24	28	18
Colorectal cancer	19	14	23	18	15	27	14	11	11	12	17	25	20	25	15
Congenital defects	20	20	13	12	22	24	20	19	18	23	16	17	16	18	14
Gynecological diseases	21	17	9	11	10	11	15	25	10	10	25	30	12	13	16
Endo/metab/blood/immune	22	11	21	15	13	17	17	17	17	14	19	22	17	20	22
Alzheimer's disease	23	19	17	24	23	21	21	18	19	26	20	26	26	21	20
	24	15	26	26	24	20	25	24	21	25	22	32	30	23	24
Osteoarthritis	25	21	25	27	27	10	30	13	27	24	24	24	27	27	25

# **Supplementary Figure 1C** Ranking of the leading causes of age-standardized rates of disability-adjusted life years (DALYs) compared to countries with high SDI, 2019

	Both sexes, Age-standardized, 2019, DALYs per 100,000															
4.	**************************************												Y Kingdon	New Tedana		
· V	Stralia	Normal	witzerland	Ireland	Germany	Iceland	Sweden	Singapore Ne	etherlands	Oennark	Canada	America	Vingdon,	rin <sub>land</sub>	Tealand Tealand	
Low back pain	1	1	1	2	2	1	2	2	1	1	2	3	2	2	2	
Ischemic heart disease	2	2	2	1	1	2	1	1	3	2	1	2	1	1	1	
Depressive disorders	3	6	6	3	8	7	3	11	7	7	8	7	3	4	5	
Falls	4	4	3	8	7	5	5	9	9	8	13	16	10	3	3	
Other musculoskeletal	5	21	12	13	15	13	15	4	14	17	3	4	16	16	28	
Drug use disorders	6	14	17	11	25	12	13	39	29	19	4	1	9	10	26	
Anxiety disorders	7	5	5	5	6	6	9	19	5	12	14	14	14	15	4	
Headache disorders	8	3	4	4	3	3	4	7	4	5	6	12	4	5	7	
Self-harm	9	13	11	14	14	14	7	16	15	18	9	13	22	7	8	
COPD	10	7	16	7	11	9	11	21	6	4	12	5	5	18	6	
Lung cancer	11	9	8	6	4	4	12	8	2	3	5	8	6	12	9	
Diabetes	12	10	10	12	5	10	8	6	12	11	10	6	7	8	14	
Neonatal disorders	13	17	9	20	13	18	19	17	11	14	7	9	11	23	13	
Stroke	14	8	13	10	9	11	6	5	8	6	11	10	8	6	10	
Mechanical forces	15	38	35	41	46	37	36	27	46	43	39	40	47	37	12	
Asthma	16	22	22	23	32	21	18	32	22	33	29	18	18	25	27	
Road injuries	17	28	26	29	23	27	25	26	26	26	15	11	30	21	11	
Age-related hearing loss	18	19	27	27	27	23	29	10	25	29	18	19	23	28	18	
Colorectal cancer	19	15	25	17	16	24	17	15	13	16	16	26	20	24	16	
Endo/metab/blood/immune	20	11	19	15	12	17	16	14	16	13	19	24	15	20	21	
Gynecological diseases	21	12	7	9	10	8	14	23	10	10	26	31	13	9	15	
Alzheimer's disease	22	18	18	21	22	20	22	13	19	24	20	27	26	19	22	
Oral disorders	23	16	21	24	20	19	20	22	18	20	23	30	28	17	19	
Osteoarthritis	24	20	23	25	28	15	28	12	23	23	22	23	27	26	25	
Congenital defects	25	24	15	18	24	25	23	20	21	22	17	22	21	22	17	

#### Supplementary Table 4 Data Sources for Australia: GBD Data input sources causes of death

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#### **Supplementary Table 5** GBD data input sources all covariates

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## Supplementary Table 7 GBD data input sources for all risk factors

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## DisMod-MR model development and validation:

The DisMod-MR tool evaluated and pooled all available data, adjusted data for systematic bias associated with methods that varied from the reference, and produced estimates by world regions with UIs by using Bayesian statistical methods. In cross-validation tests, the log rates specification worked as well or better than the negative binomial specification. The sequence of estimation occurs at five levels: global, superregion, region, country and, where applicable, subnational location. The super-region priors are generated at the global level with mixed-effects, nonlinear regression by using all available data; the super-region fit, in turn, informs the region fit, and so on down the cascade. The wrapper gives analysts the choice to branch the cascade in terms of time and sex at different levels depending on data density. The default used in most models is to branch by sex after the global fit but to retain all years of data until the lowest level in the cascade is reached. The computational engine is limited to three levels of random effects; we differentiate estimates at the super-region, region and country level. The coefficients for country covariates are re-estimated at each level of the cascade. For a given location, country coefficients are calculated by using both data and prior information available for that location. In the absence of data, the coefficient of its parent location is used to utilise the predictive power of our covariates in data-sparse situations. To determine the robustness of the models, we included the option again to have random effects on cause-specific mortality rates (CSMR) and EMR. Based on simulation testing we found that coverage improved and errors reduced when passing down priors with a wider setting of minimum coefficient of variation (which determines the uncertainty around priors and hence how 'informative' the priors are) than had generally been used in past GBD iterations. We settled on a default value of 0.8. We carried out simulation testing using DisMod-MR 2.1 based on an internally consistent set of 15,601 data points for prevalence, incidence, excess mortality, CSMR, and remission. We aimed to test what level of minimum CV would create the best fit based on the following three performance statistics:

- (1) Coverage, ie, the proportion of data point mean values that fall between the 2.5th and 97.5th percentile of the draws of the fit values;
- (2) Root mean square error: the square root of the mean of the squares of the difference between data point mean values and the mean fit value; and
- (3) Bias: the difference between the mean fit value and the data point mean value.

We created different datasets culling the initial complete set with values at every age, sex, and location to more realistic data sparsity scenarios for analysis.

A first strategy was to randomly reduce the dataset to 10%, 5%, 2.5%, 1%, and 0.5% of the original data points. Initial results indicated little variation between the data samples culled to 10%, 5%, 2.5%, and 1%. The 0.5% culled dataset was an exception with markedly worse performance statistics, particularly with regard to bias and RMSE. We conducted further studies using the datasets culled to 10%, 5%, and 0.5%.

For some causes such as HIV/AIDS or measles, disease-specific natural history models have been used for which the underlying three state model in DisMod-MR 2.1 (susceptible, cases, dead) is insufficient to capture the complexity of a disease process. For some diseases with a range of sequelae differentiated by severity, such as COPD or diabetes mellitus, DisMod-MR 2.1 was used to meta-analyse the data on overall prevalence with separate DisMod-MR 2.1 models of the proportions of cases with different severity levels or sequelae. Likewise, DisMod-MR 2.1 was used to meta-analyse data on the proportions of liver cancer and cirrhosis due to underlying aetiologies such as hepatitis B, hepatitis C, and alcohol use. The GBD modelling software has been previously validated by comparing projected estimates with observed data for 2014-16. Model performance was assessed using mean error and root-mean-squared error. The model performed better than the most commonly used approach, i.e. the Lee-Carter method.