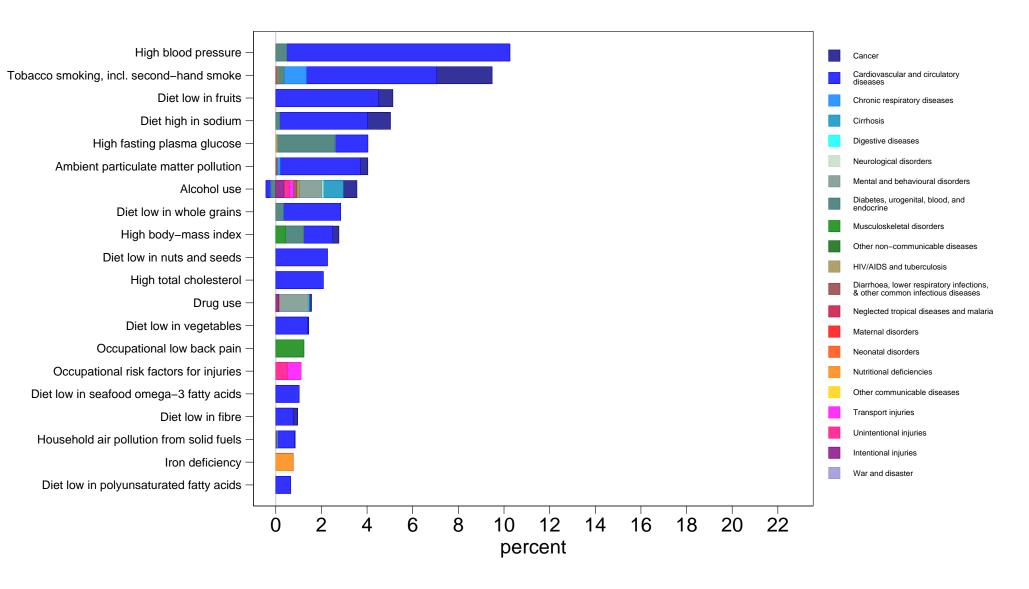
Appendix to A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010

This appendix provides supplemental figures and more detailed results for deaths and disability-adjusted life years (DALYs) attributable to risk factors.

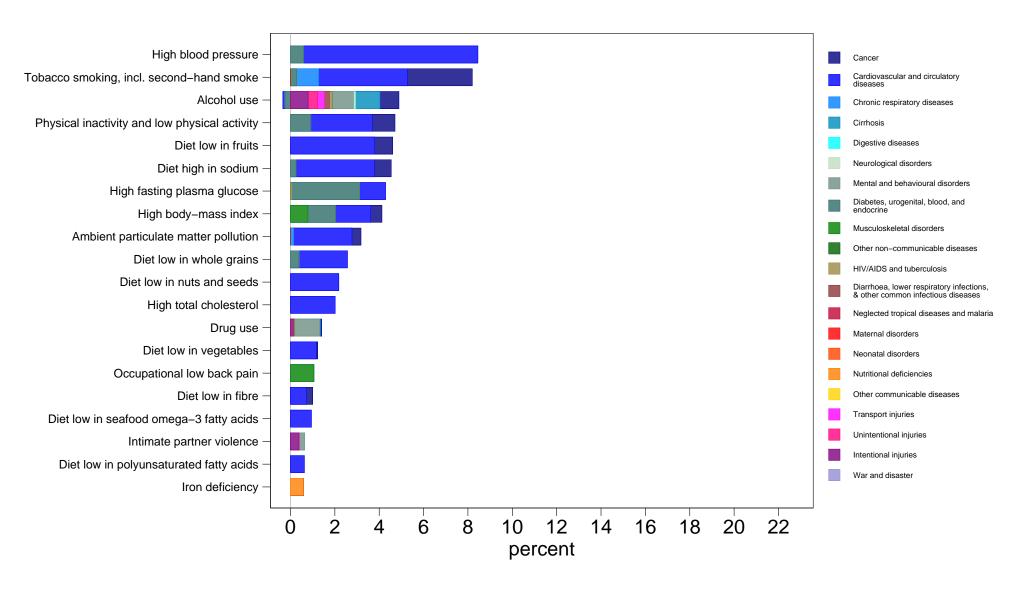
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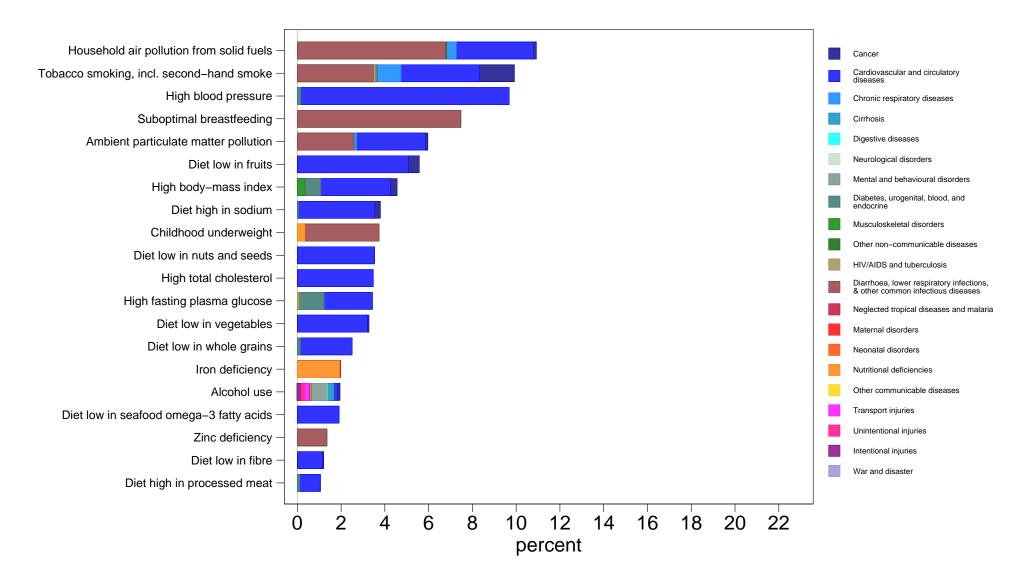
Web Figure 1: Percent of High-income Asia Pacific DALYs, 1990



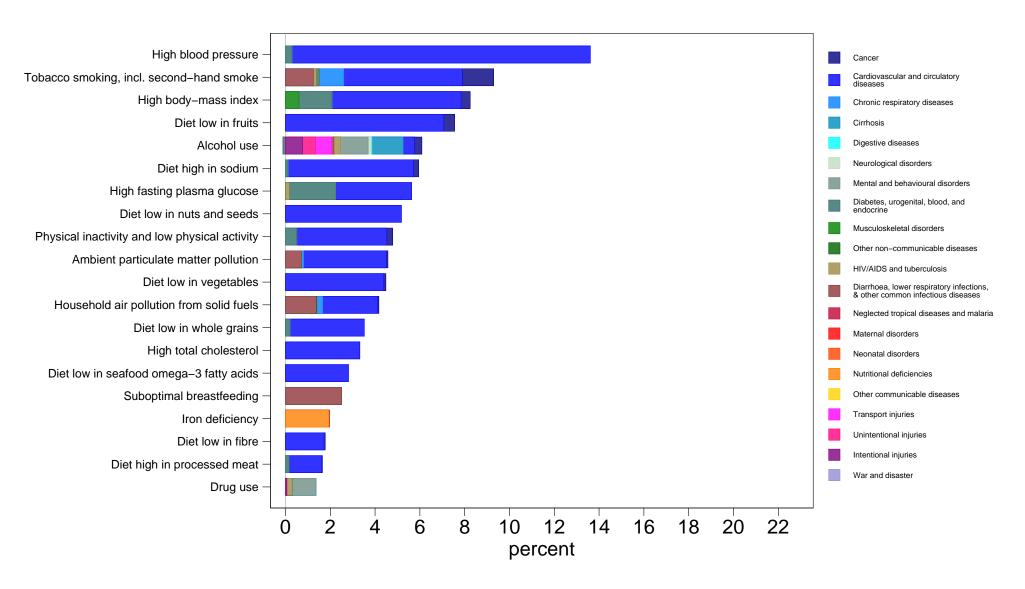
Web Figure 1: Percent of High-income Asia Pacific DALYs, 2010



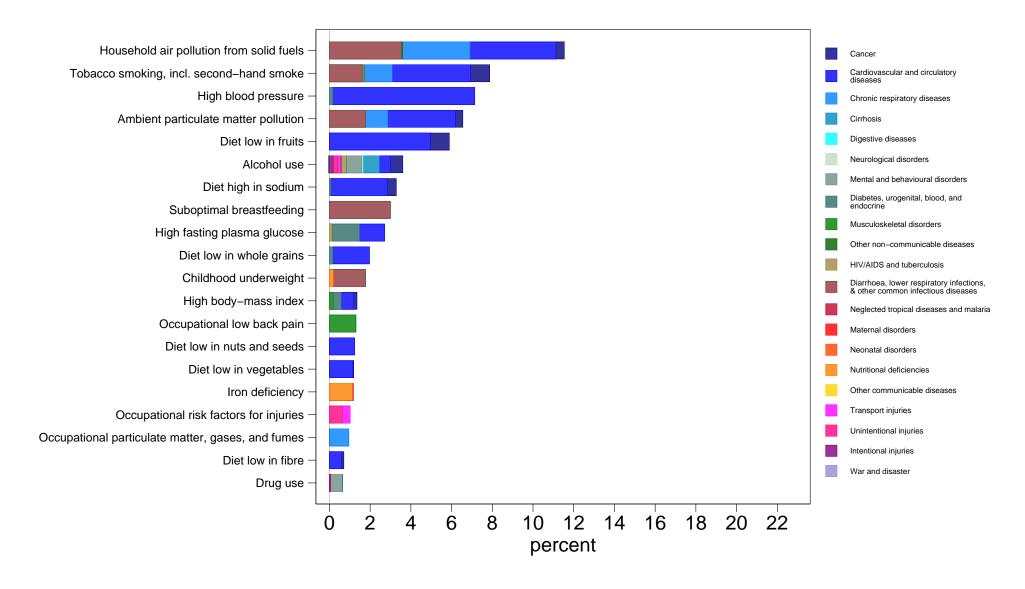
Web Figure 1: Percent of Central Asia DALYs, 1990



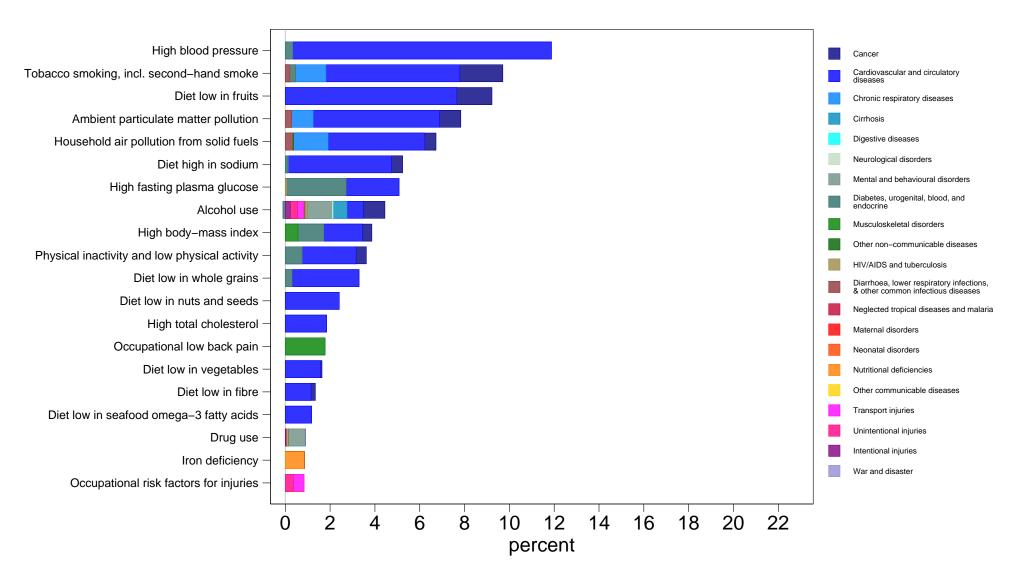
Web Figure 1: Percent of Central Asia DALYs, 2010



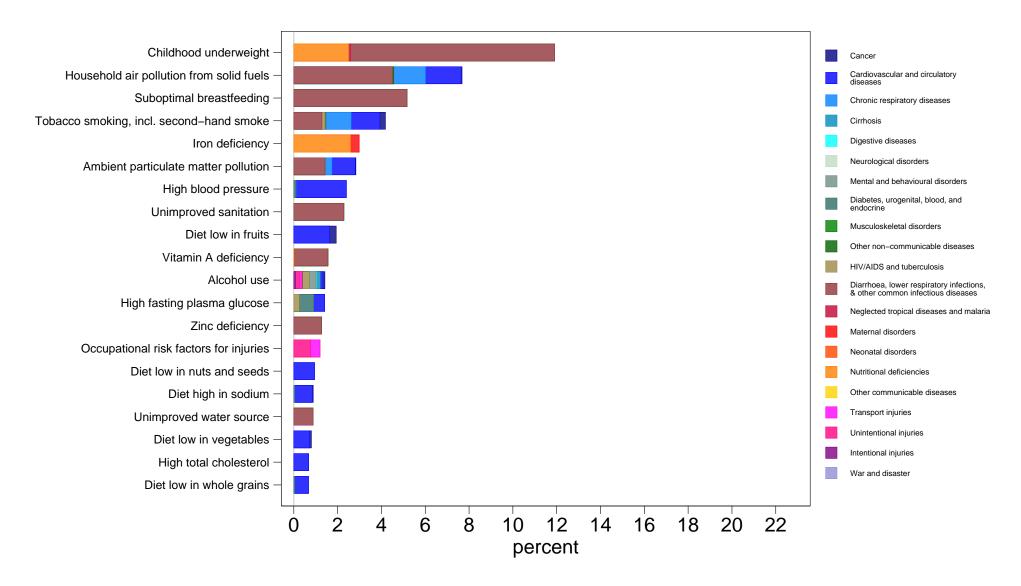
Web Figure 1: Percent of East Asia DALYs, 1990



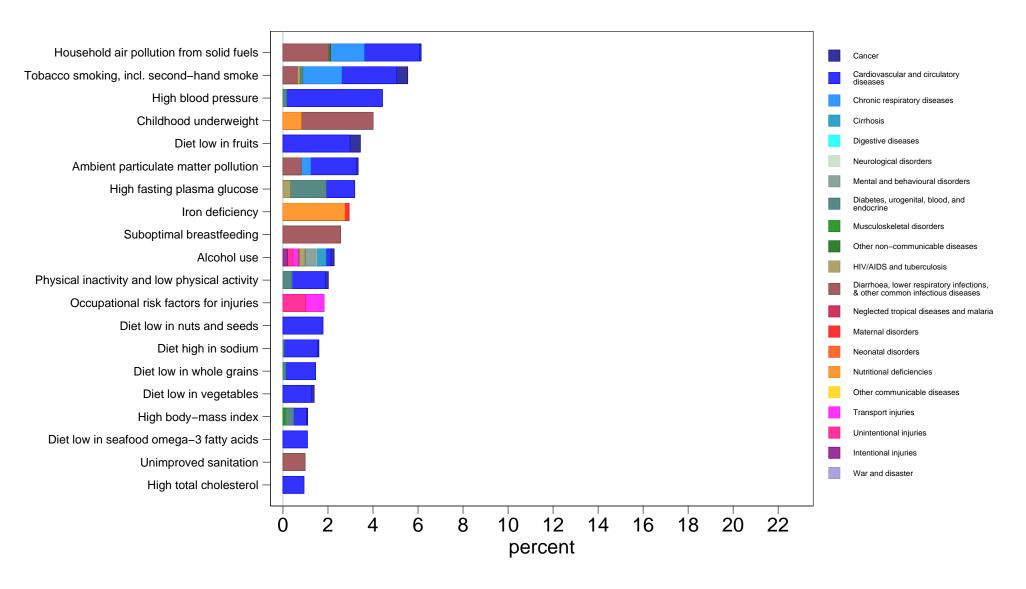
Web Figure 1: Percent of East Asia DALYs, 2010



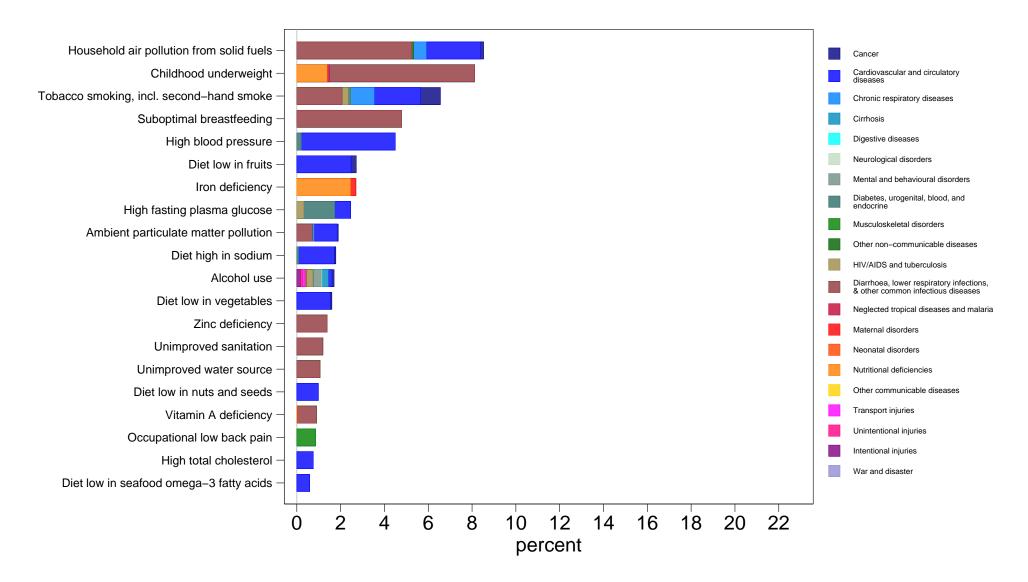
Web Figure 1: Percent of South Asia DALYs, 1990



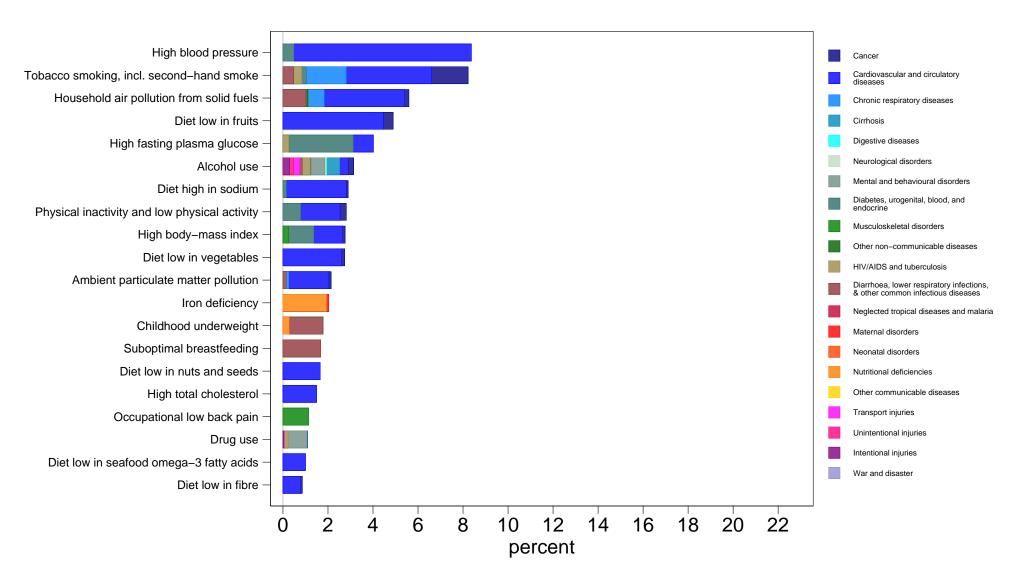
Web Figure 1: Percent of South Asia DALYs, 2010



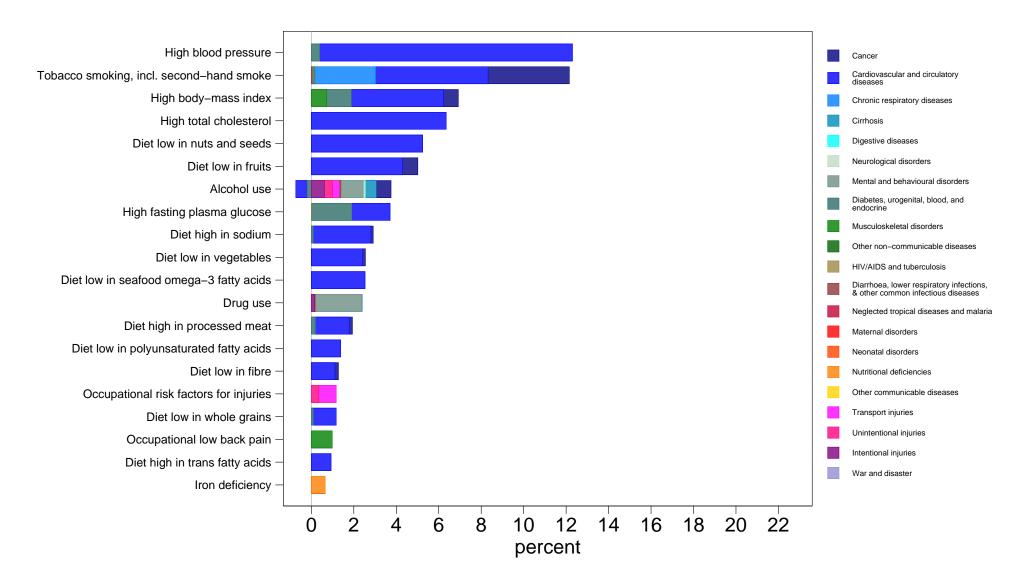
Web Figure 1: Percent of Southeast Asia DALYs, 1990



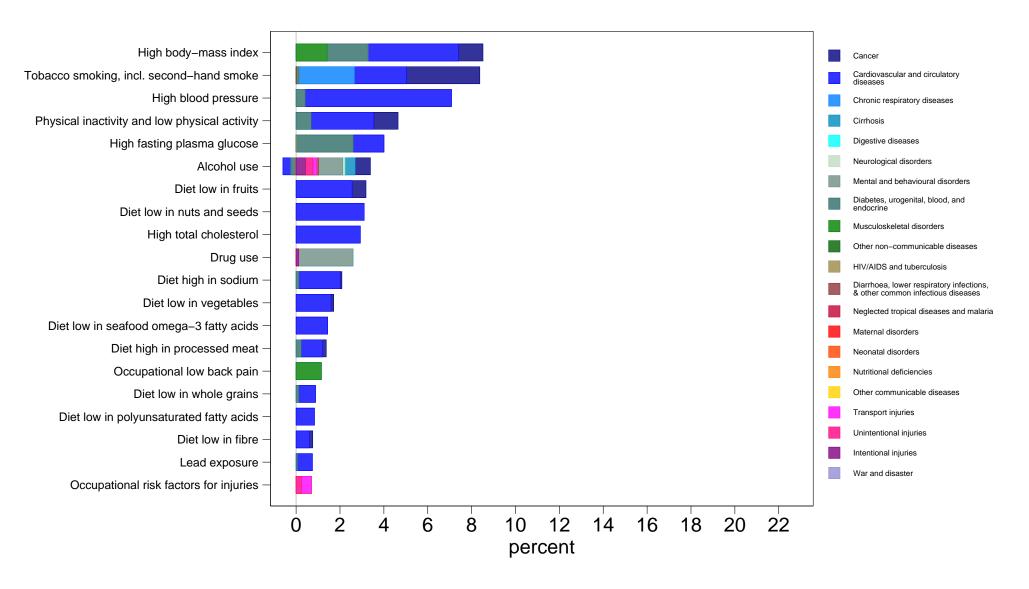
Web Figure 1: Percent of Southeast Asia DALYs, 2010



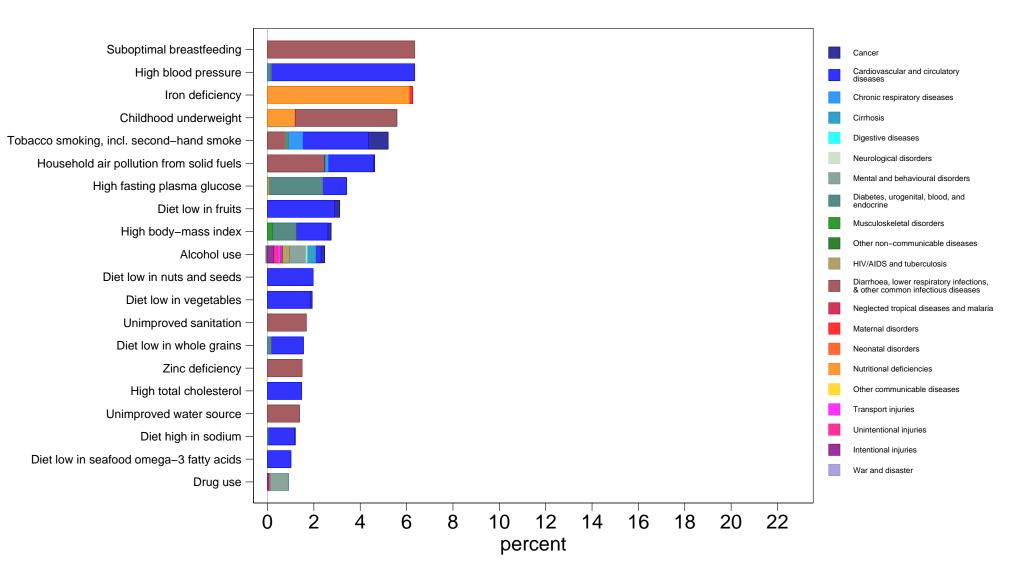
Web Figure 1: Percent of Australasia DALYs, 1990



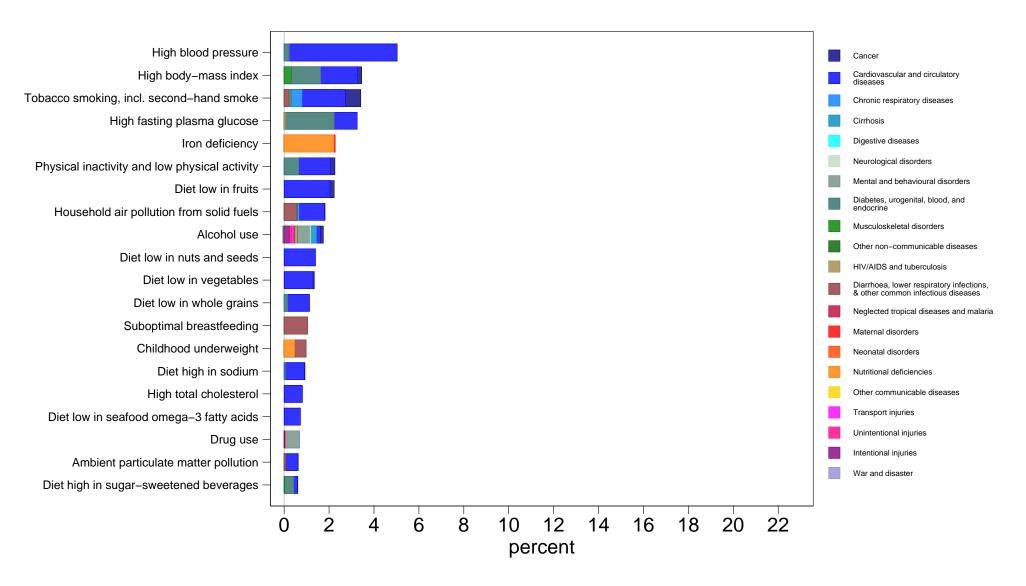
Web Figure 1: Percent of Australasia DALYs, 2010



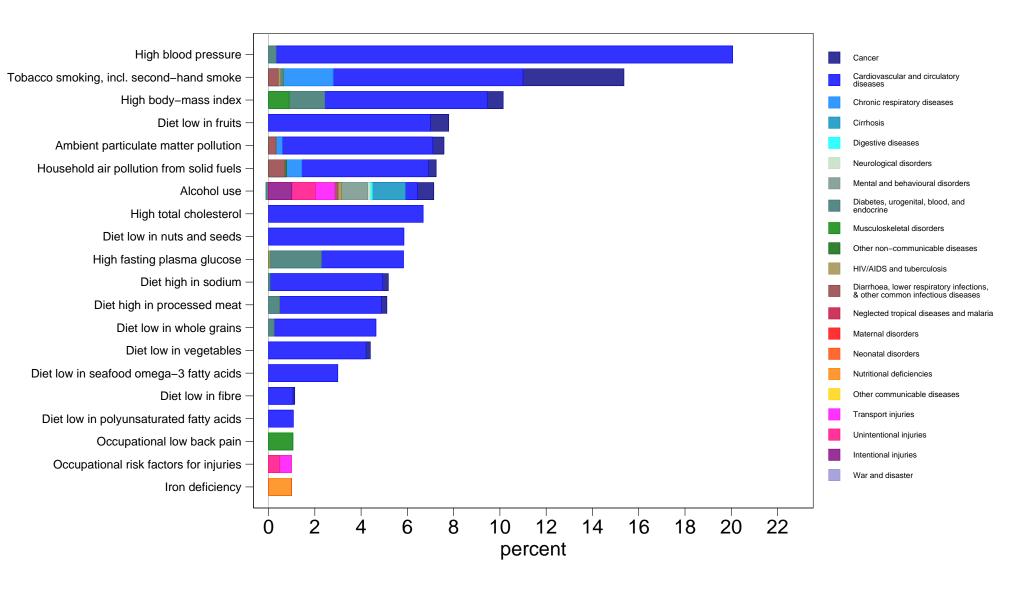
Web Figure 1: Percent of Caribbean DALYs, 1990



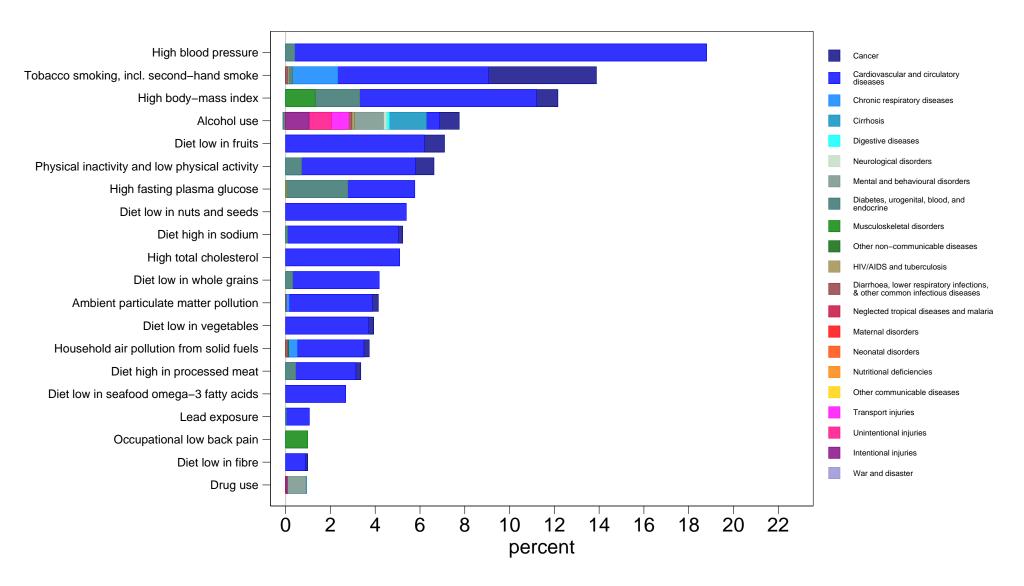
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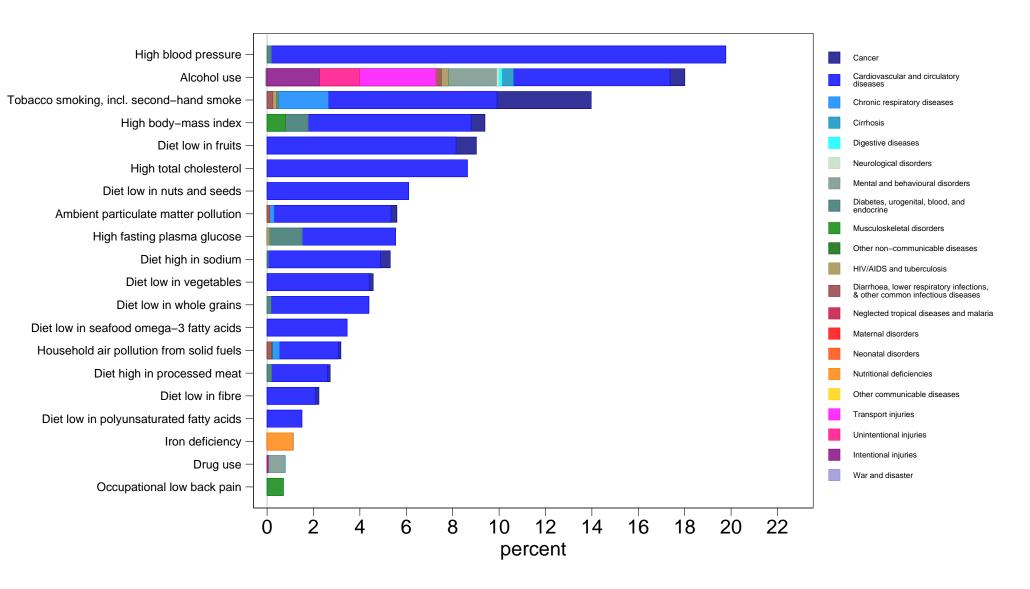
Web Figure 1: Percent of Central Europe DALYs, 1990



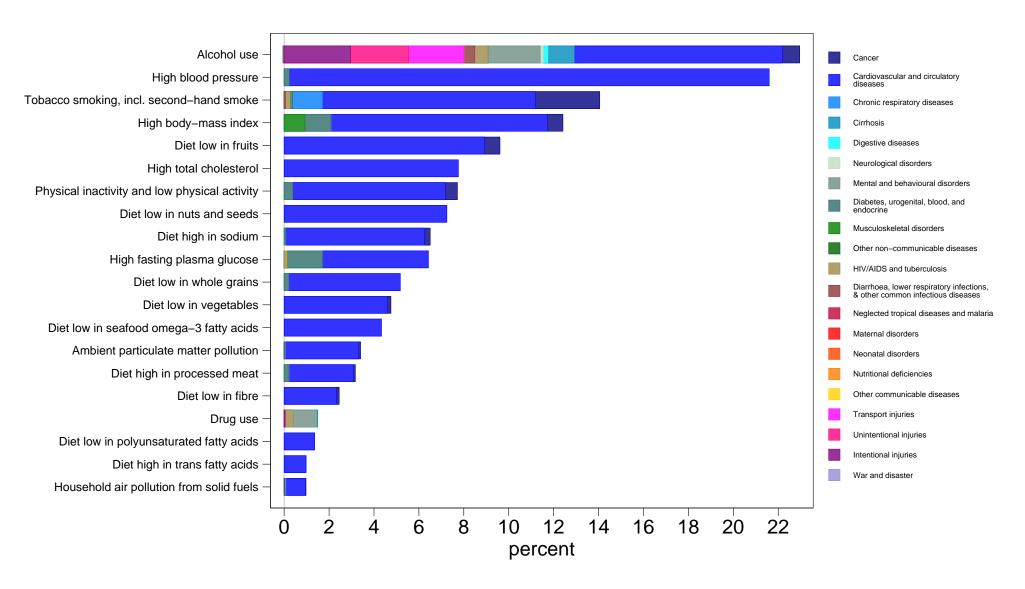
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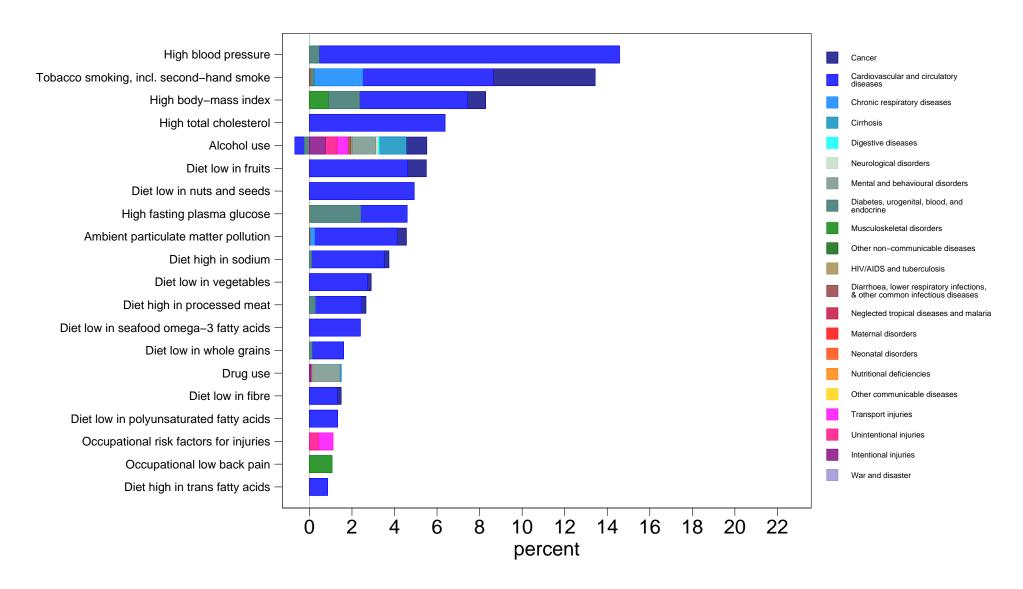
Web Figure 1: Percent of Eastern Europe DALYs, 1990



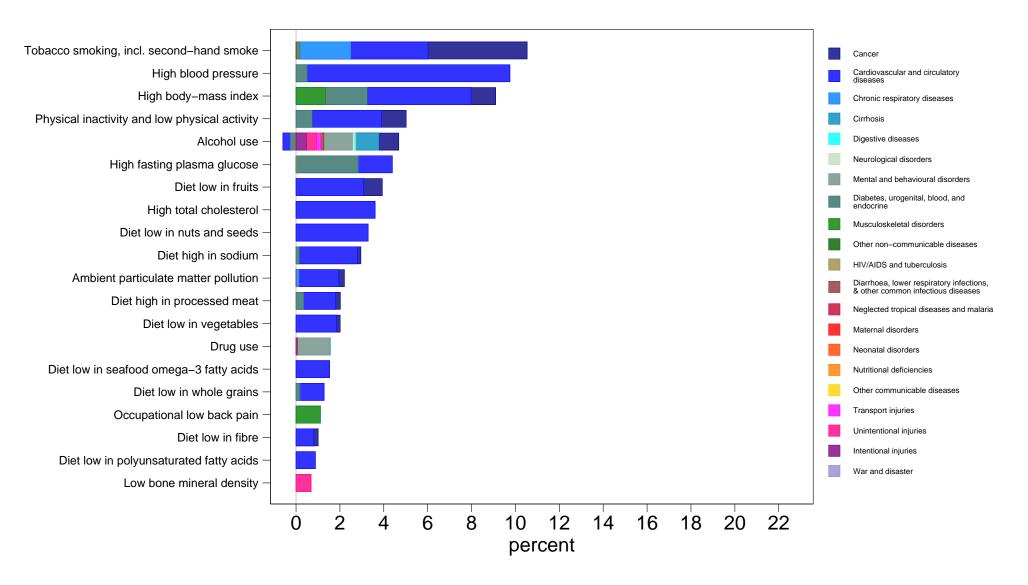
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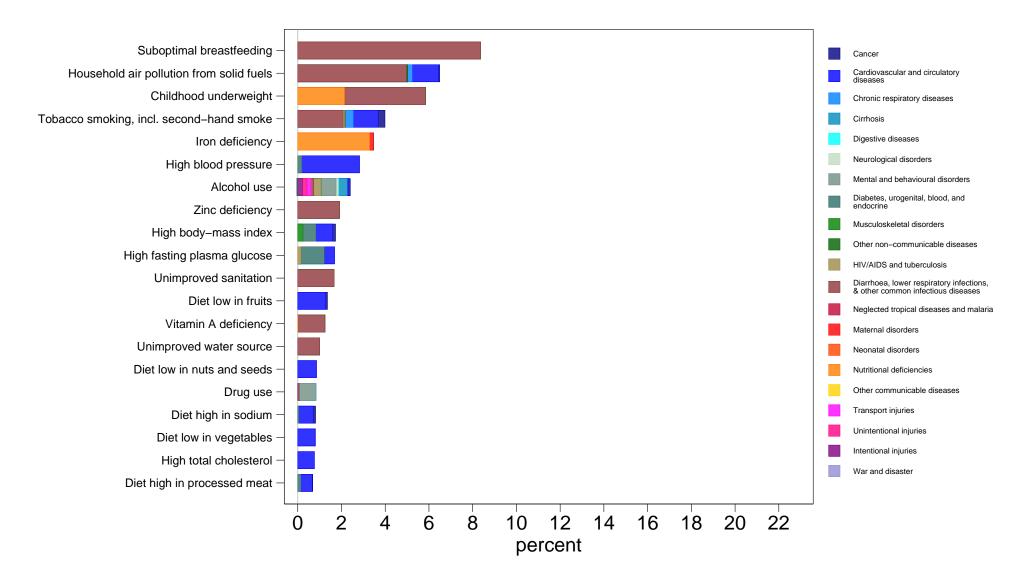
Web Figure 1: Percent of Western Europe DALYs, 1990



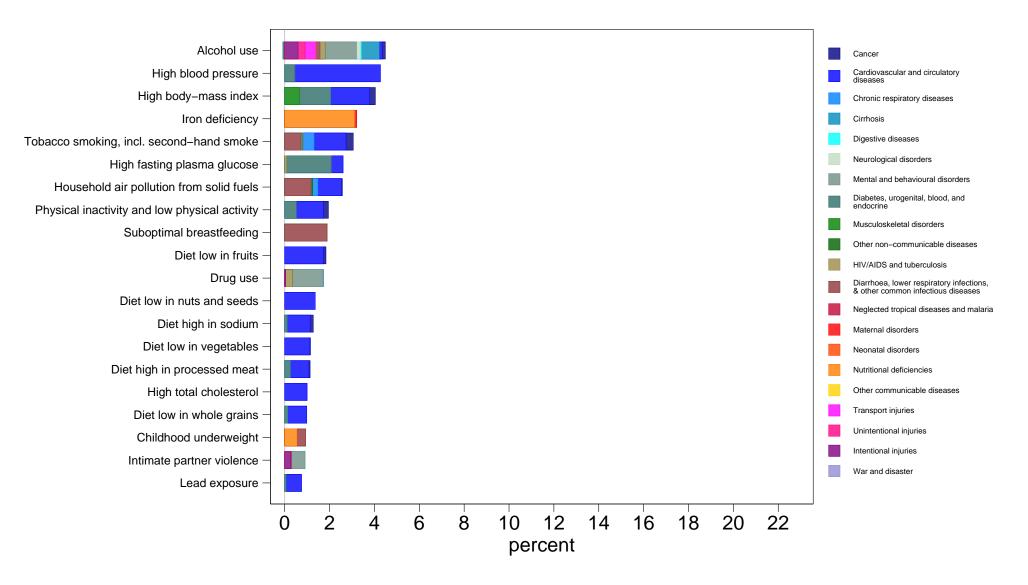
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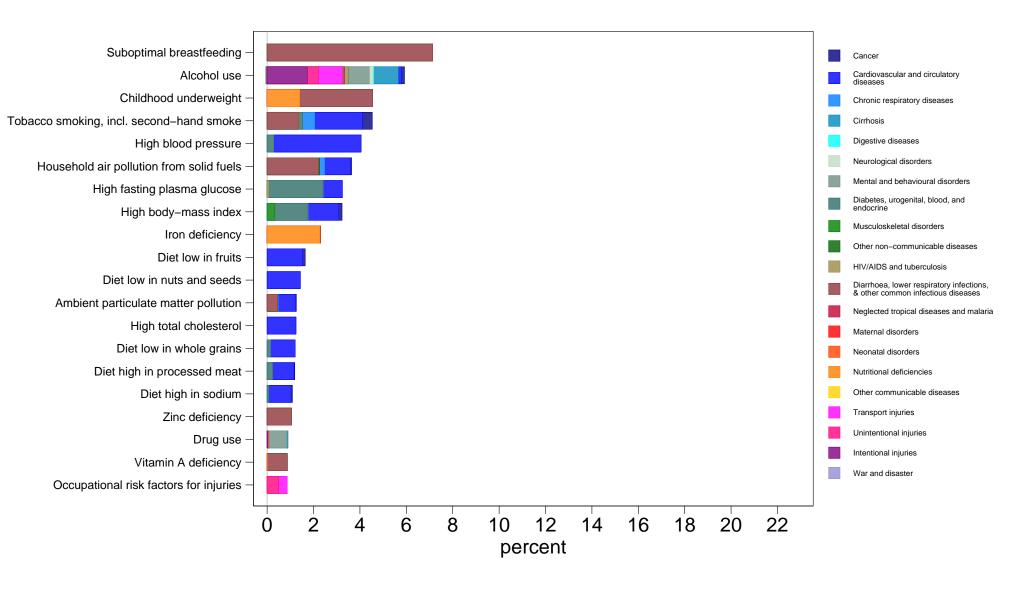
Web Figure 1: Percent of Andean Latin America DALYs, 1990



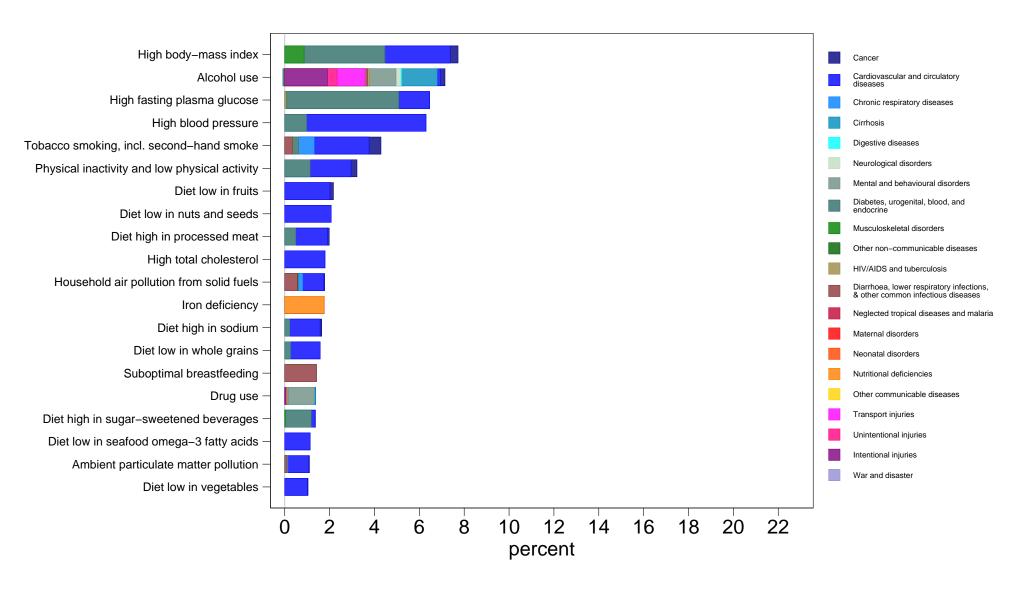
Web Figure 1: Percent of Andean Latin America DALYs, 2010



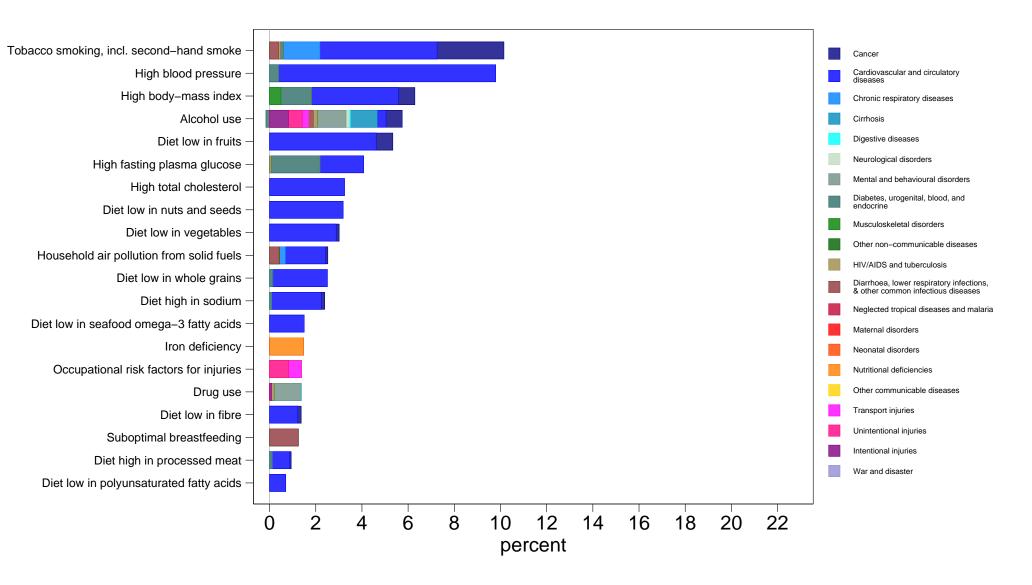
Web Figure 1: Percent of Central Latin America DALYs, 1990



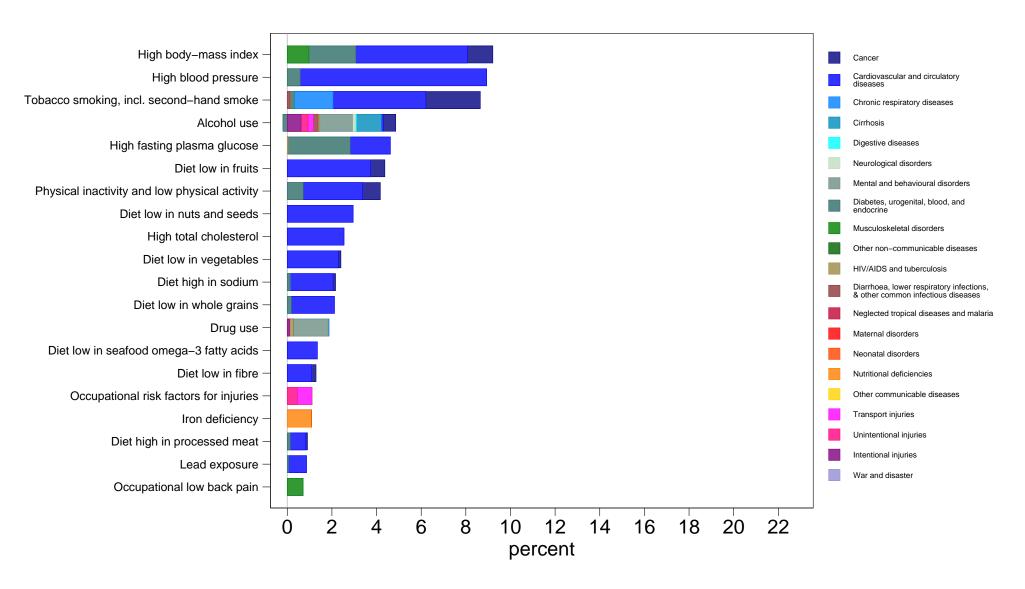
Web Figure 1: Percent of Central Latin America DALYs, 2010



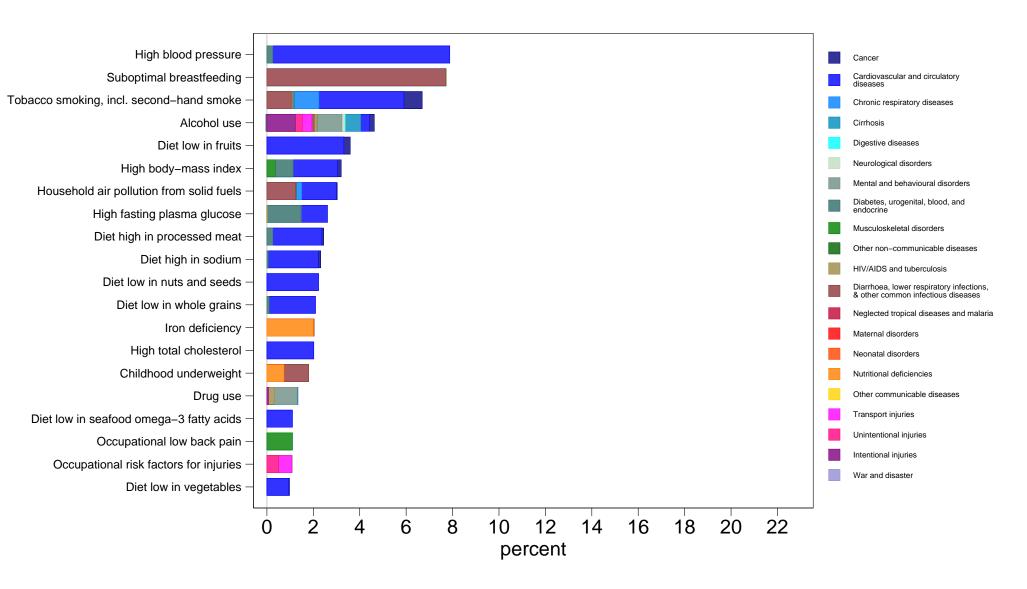
Web Figure 1: Percent of Southern Latin America DALYs, 1990



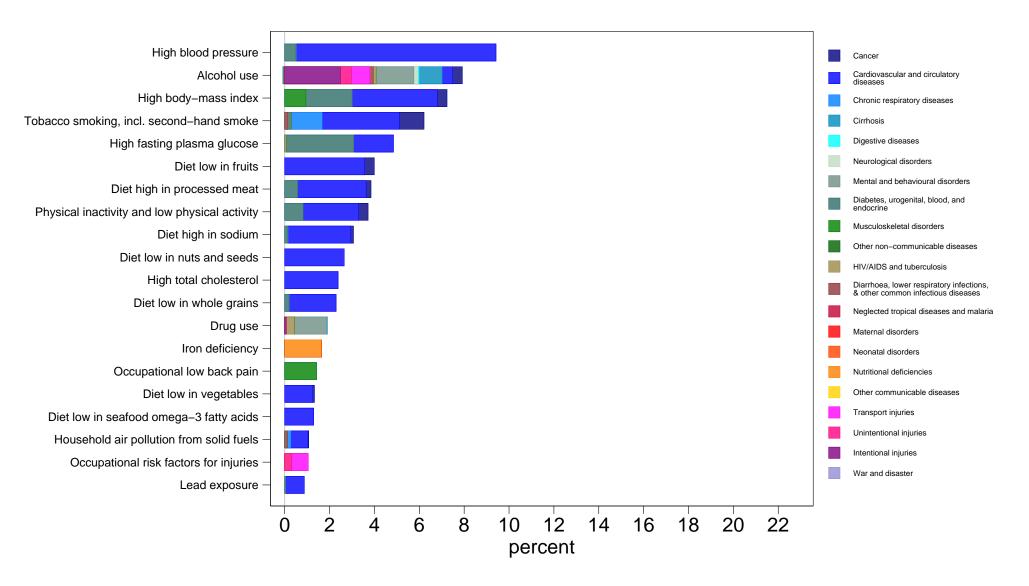
Web Figure 1: Percent of Southern Latin America DALYs, 2010



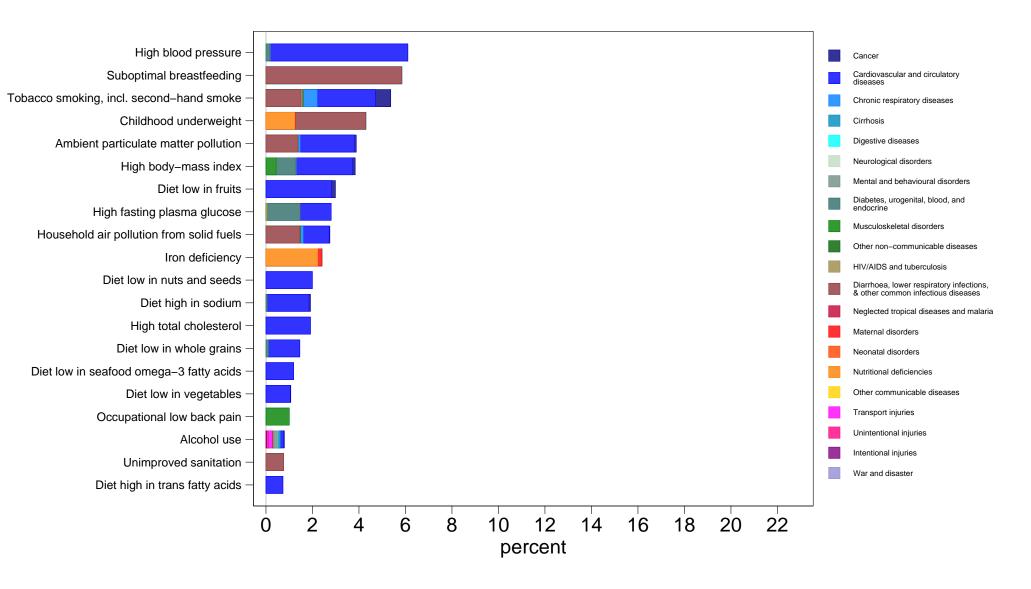
Web Figure 1: Percent of Tropical Latin America DALYs, 1990



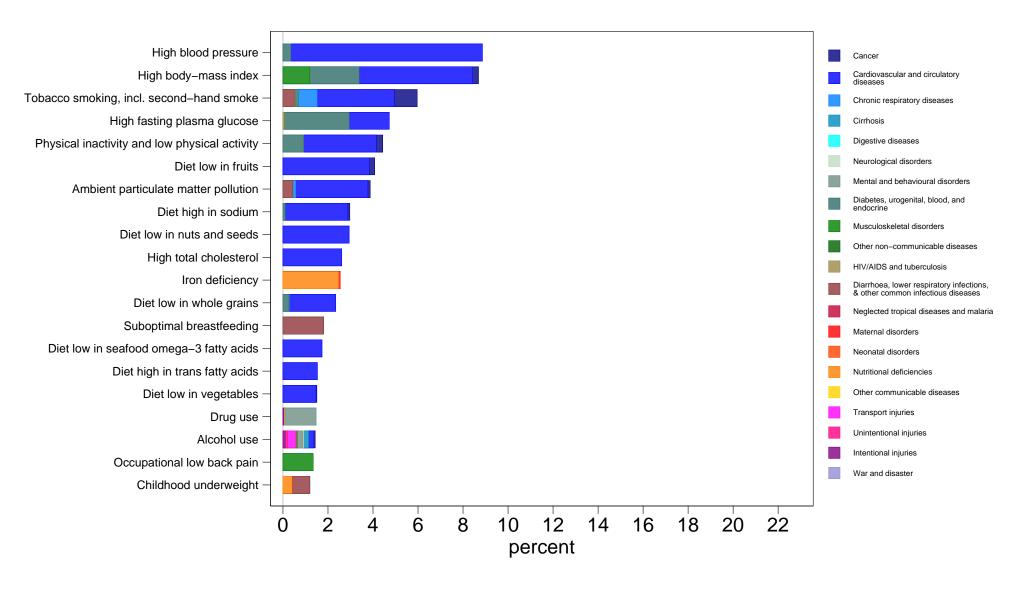
Web Figure 1: Percent of Tropical Latin America DALYs, 2010



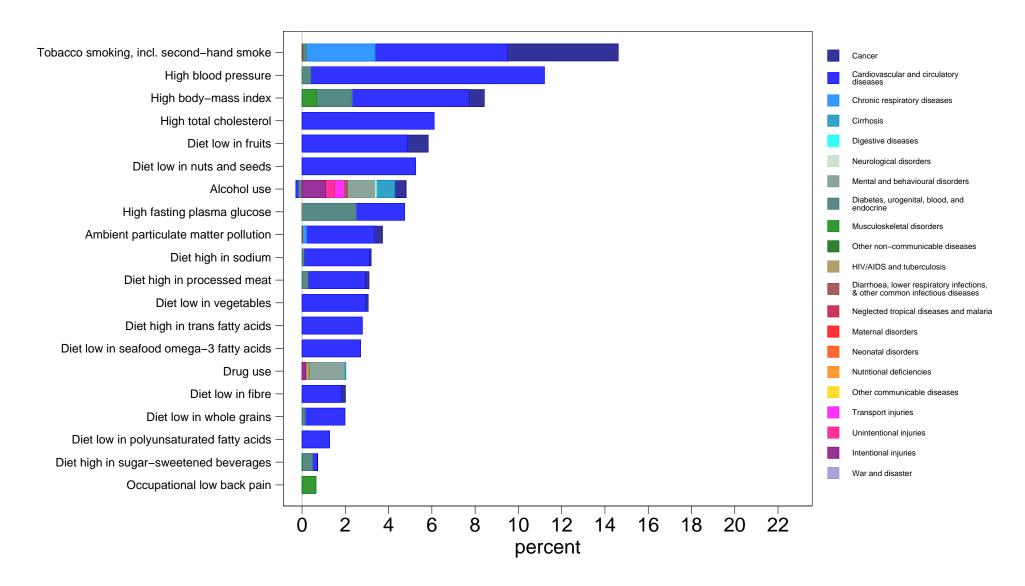
Web Figure 1: Percent of North Africa and Middle East DALYs, 1990



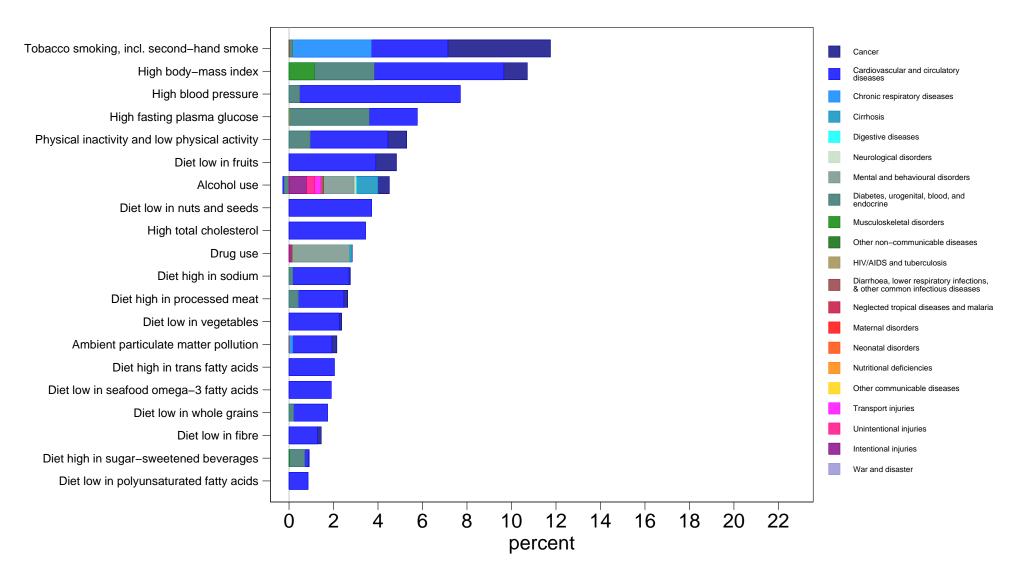
Web Figure 1: Percent of North Africa and Middle East DALYs, 2010



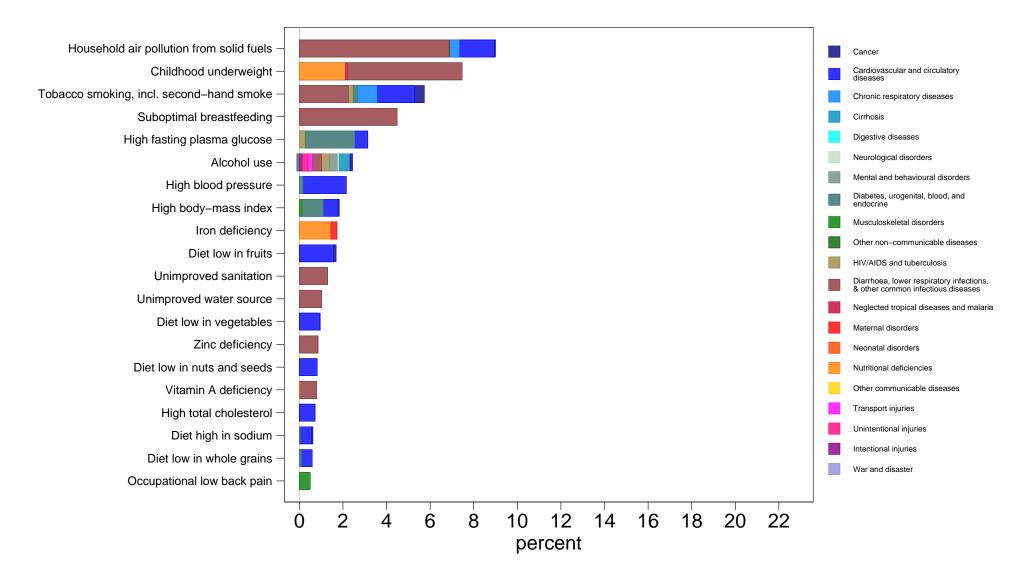
Web Figure 1: Percent of High-income North America DALYs, 1990



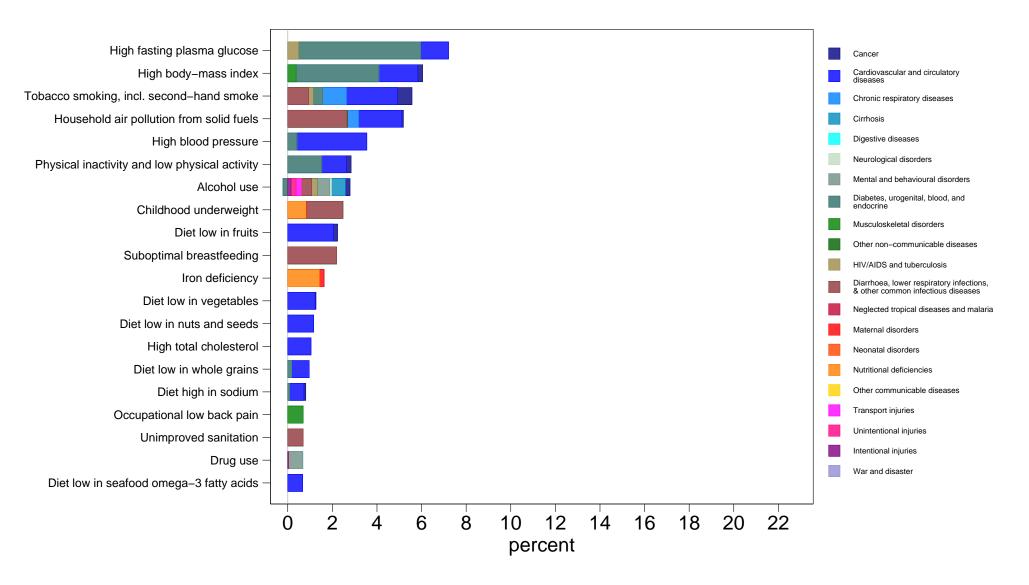
Web Figure 1: Percent of High-income North America DALYs, 2010



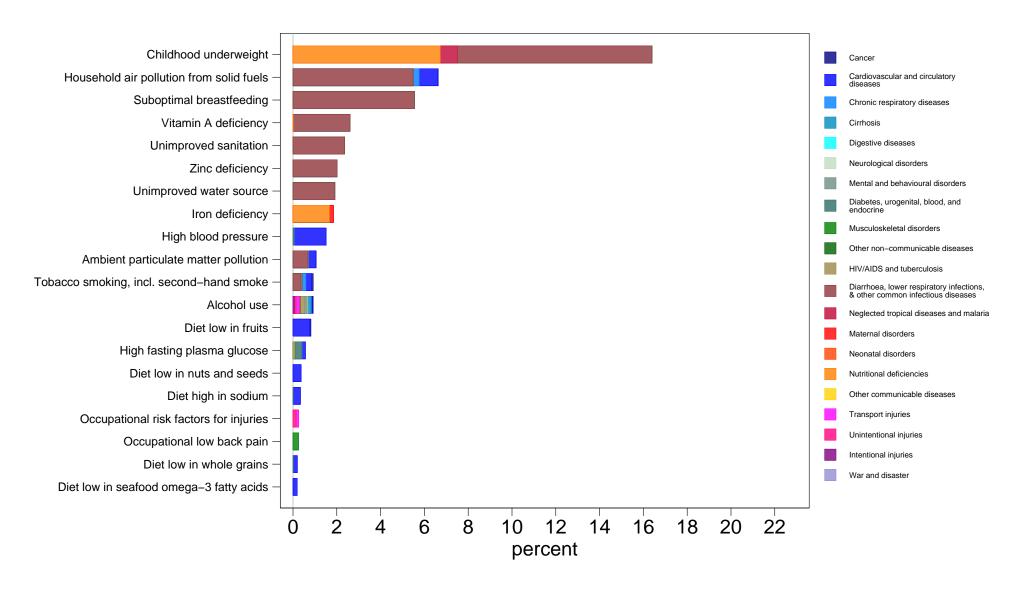
Web Figure 1: Percent of Oceania DALYs, 1990



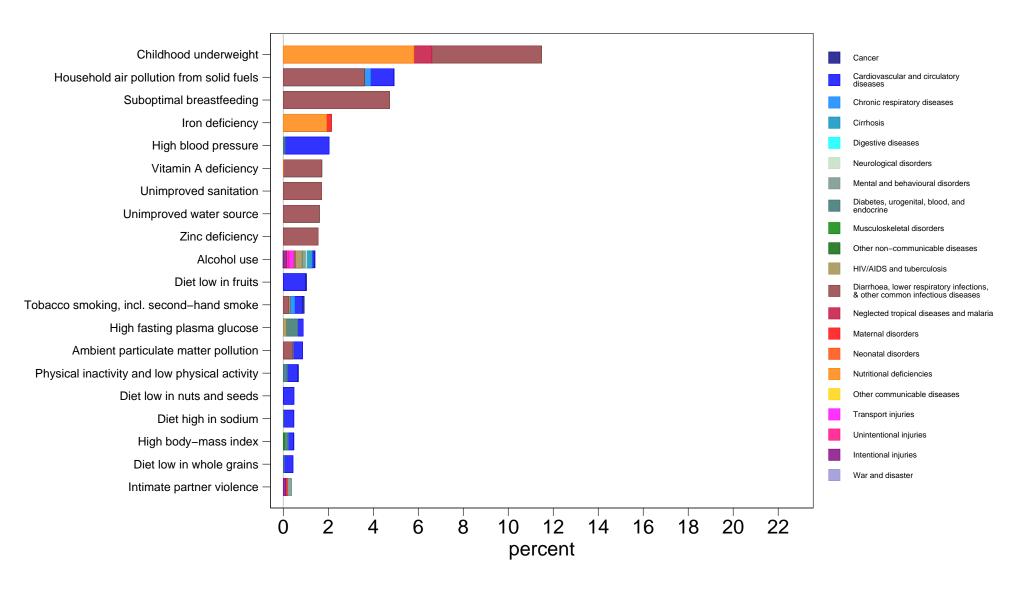
Web Figure 1: Percent of Oceania DALYs, 2010



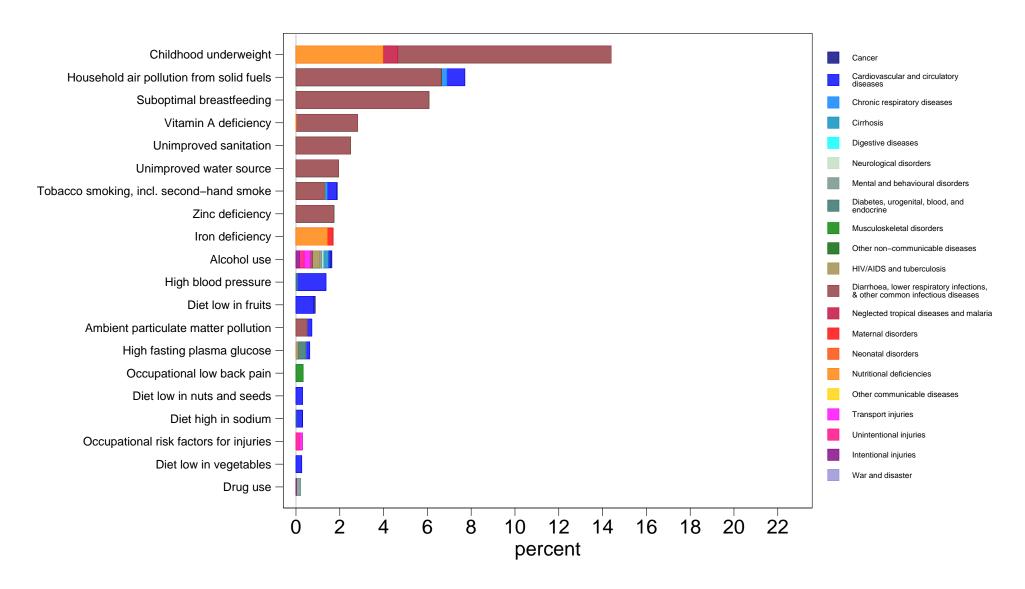
Web Figure 1: Percent of Central sub-Saharan Africa DALYs, 1990



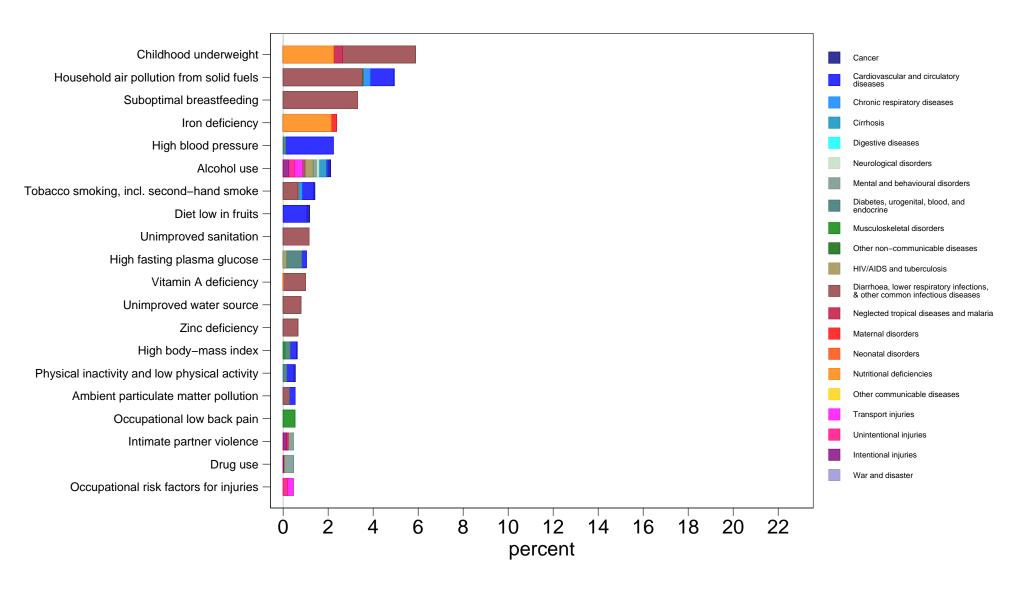
Web Figure 1: Percent of Central sub-Saharan Africa DALYs, 2010



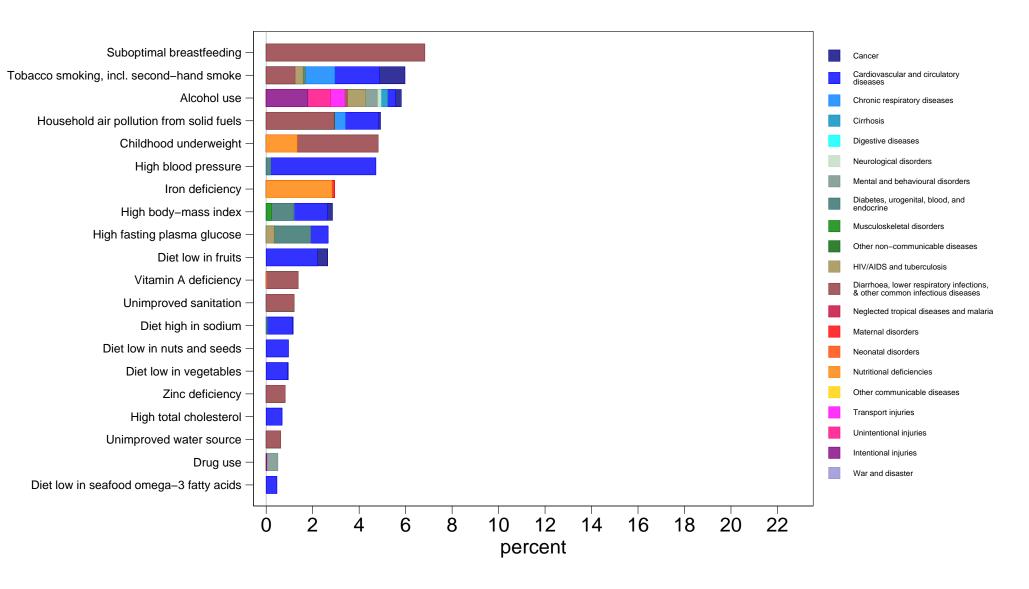
Web Figure 1: Percent of Eastern sub-Saharan Africa DALYs, 1990



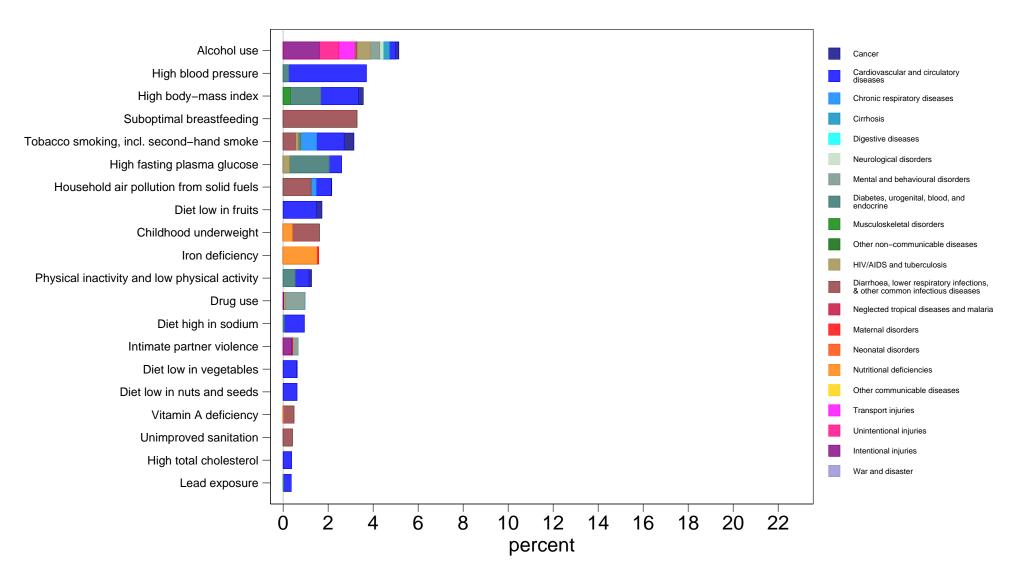
Web Figure 1: Percent of Eastern sub-Saharan Africa DALYs, 2010



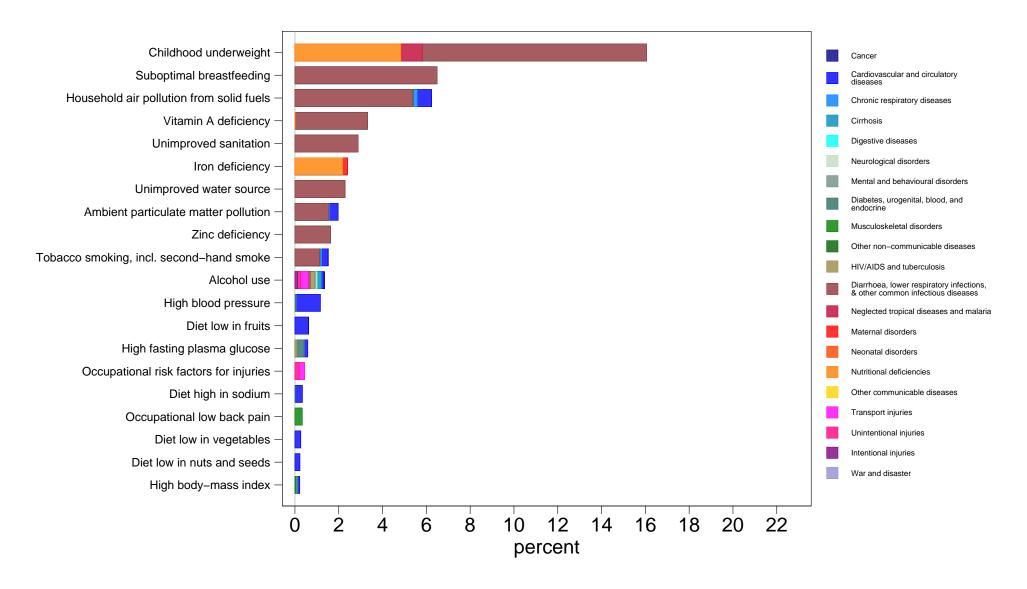
Web Figure 1: Percent of Southern sub-Saharan Africa DALYs, 1990



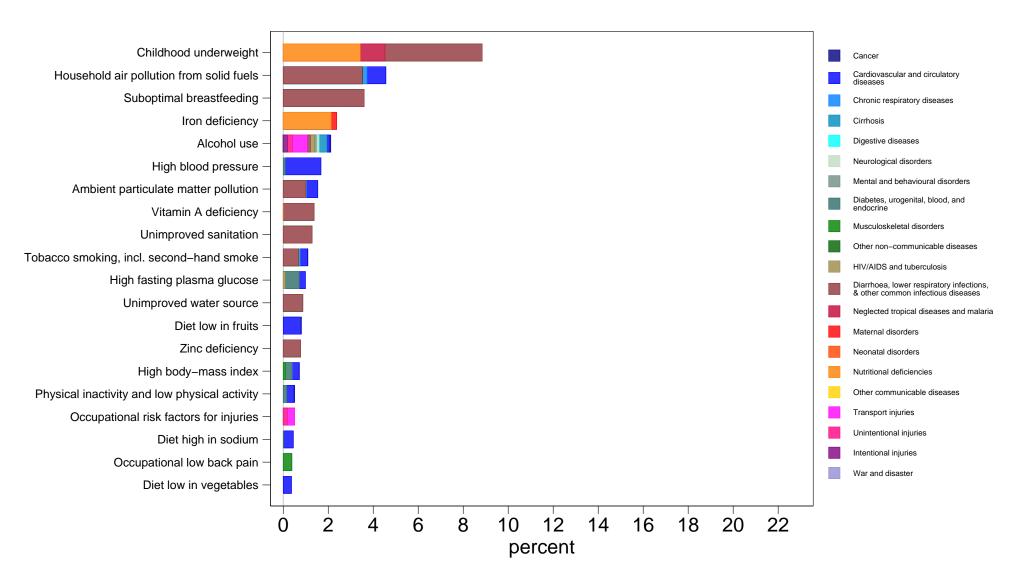
Web Figure 1: Percent of Southern sub-Saharan Africa DALYs, 2010



Web Figure 1: Percent of Western sub-Saharan Africa DALYs, 1990



Web Figure 1: Percent of Western sub-Saharan Africa DALYs, 2010



Web figure 2: Risk factors ranked by attributable b	ourde	n of di	isease	!																		
		e								1	l	1990							1			
	Global	High-income Asia Pacific	Western Europe	Australasia	High-income North America	Central Europe	Southern Latin America	Eastern Europe	East Asia	Tropical Latin America	Central Latin America	Southeast Asia	Central Asia	Andean Latin America	North Africa and Middle East	Caribbean	South Asia	Oceania	Southern sub- Saharan Africa	Eastern sub- Saharan Africa	Central sub- Saharan Africa	Western sub- Saharan Africa
Childhood underweight	1	36	34	33	35	28	23	32	11	15	3	2	9	3	4	4	1	2	5	1	1	1
Household air pollution from solid fuels	2	18				6	10	14	1	7	6	1	1	2	9	6	2	1	4	2	2	3
Tobacco smoking, including second-hand smoke	3	2	2	2	1	2	1	3	2	3	4	3	2	4	3	5	4	3	2	7	11	10
High blood pressure	4	. 1	1	1	2	1	2	1	3	1	5	5	3	6	1	2	7	7	6	11	9	12
Suboptimal breastfeeding	5						18		8	2	1	4	4	1	2	1	3	4	1	3	3	2
Ambient particulate matter pollution	6	6	9	21	9	5	21	8	4	29	12	9	5	22	5	21	6	30	23	13	10	8
Diet low in fruits	7	3	5	6	5	4	5	5	5	5	10	6	6	12	7	8	9	10	10	12	13	13
Alcohol use	8	7	7	8	8	7	4	2	6	4	2	11	16	7	18	10	11	6	3	10	12	11
High fasting plasma glucose	9	5	8	7	7	10	6	9	9	8	7	8	12	10	8	7	12	5	9	14	14	14
Iron deficiency	10	19	28	20	32	20	14	18	16	13	9	7	15	5	10	3	5	9	7	9	8	6
High body-mass index	11	9	3	3	3	3	3	4	12	6	8	23	7	9	6	9	26	8	8	22	23	20
Diet high in sodium	12	4	10	9	10	11	12	10	7	10	16	10	8	17	12	18	16	18	13	17	16	16
Diet low in nuts and seeds	13	10	6	5	6	9	8	7	14	11	11	16	10	15	11	11	15	15	14	16	15	19
High total cholesterol	14	11	4	4	4	8	7	6	21	14	13	19	11	19	13	16	19	17	17	24	22	24
Unimproved sanitation	15	33	35	35	37	38	36	36	24	21	21	14	25	11	19	13	8	11	12	5	5	5
Diet low in vegetables	16	13	11	10	12	14	9	11	15	20	24	12	13	18	16	12	18	13	15	19	21	18
Vitamin A deficiency	17	37	36	34	36	37	38	37	32	27	19	17	26	13	27	22	10	16	11	4	4	4
Diet low in whole grains	18	8	14	17	17	13	11	12	10	12	14	26	14	21	14	14	20	19	29	21	19	22
Zinc deficiency	19	34	33	32	33	35	37	35	23	28	17	13	18	8	26	15	13	14	16	8	6	9
Diet low in seafood omega-3 fatty acids			13	11	14	15	13	13	22	17	22	20	17	24	15	19	21	21	20	23	20	23
Occupational risk factors for injuries			18	16		19	15	22	17	19	20	21	22	23	21	29	14	24	21	18	17	15
Unimproved water source	22	38	37	36	34	36	34	38	30	25	27	15	28	14	25	17	17	12	18	6	7	7
Occupational low back pain	23	_	19	18	20	18	22	20	13	18	26	18	24	25	17	27	22	20	22	15	18	17
Diet high in processed meat		_	12	13	11	12	19	15	35	9	15	27	20	20	28	26	25	27	26	29	26	26
Drug use			15	12	15	22	16	19	20	16	18	22	23	16	22	20	24	23	19	20	24	21
Diet low in fibre		_	16	15	16	16	17	16	19		29	24	19	28	23	24	28	22	30	32	32	33
Diet low in polyunsaturated fatty acids			17	14		17	20	17	28	23	28	25	21	29	24	25	30	25	25	28	27	27
Occupational particulate matter, gases, and fumes			29	29	24	26	31	24	18		32	28	30	32	31	32		29	28	25	25	25
Diet high in trans fatty acids			20	19		21	25	21	36	22	25	34	29	27	20	36	31	33	31	34	33	34
Diet high in sugar-sweetened beverages			27	28		30	26	25	25		23	29	34	30	30	23	29	28	24	30	29	28
Lead exposure			22	22		23	24	23	27	26	30	30	27	26	29	28	27	31	27	26	28	30
Low bone mineral density			21	23		24	28	29	29			33	33	33	33	31		32	36	33	35	32
Occupational noise		-	32	31	30	33	32	30	31	32		31	31	31	34	33	34	34	32	27	30	29
Ambient ozone pollution		_	30	37	27	31	39	31	26		38	38	35	39	37	39	32	39	39	35	34	35
Occupational asthmagens			31	30		34	35	34	39			32	37	34	32	30		26	_	31	31	31
Diet low in calcium			25	24		25	30	27	33		37	36	36	37	38	35	36	36	35	36	36	36
Occupational carcinogens			23	26		32		33	34			35	32	35	36	34		37	34	39	39	39
Diet low in milk			24	27	26	27	33	28	37	38	39	37	38	38	39	37	37	38	38	37	38	37
Diet high in red meat		28	26	25	29	29	27	26	38	34	36	39	39	36	35	38	39	35	37	38	37	38
Residential radon																						
Childhood sexual abuse																						
Physical inactivity and low physical activity																						\square
Intimate partner violence		ons are				11.2																

Regions are ordered by mean life expectancy.

No data=attributable disability-adjusted life years were not quantified.

Rankings are color-coded as follows:

1 through 5 6 through 10 11 through 15 16 through 20 21 through 25 26 through 30 31 through 35 36 through 39

Web table 1: Global deaths attributable to risk fact	tors by age and sex in 2010						
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	337,476	5,742	11,562	78,490	59,896	13,751	7,345
Unimproved water and sanitation	(13,150–648,205)	(266-11,546)	(513-22,408)	(3,404-148,556)	(2,621-114,551)	(528–26,645)	(289-15,357)
	116,126	2,268	4,352	30,575	23,467	4,701	2,366
Unimproved water source	(7,518–233,136)	(160-4,744)	(289-8,924)	(2,045-60,286)	(1,564–47,572)	(295-9,643)	(143-5,190)
	244,106	3,923	8,083	53,883	41,170	9,954	5,425
Unimproved sanitation	(6,027-478,186)	(99-8,288)	(214–16,246)	(1,398-105,643)	(1,083-81,737)	(238-19,957)	(135–11,562)
Air pollution							
	3,223,540	16,526	13,853	59,549	37,257	0	0
Ambient particulate matter pollution	(2,828,854–3,619,148)	(10,489–24,056)	(8,838–19,546)	(40,421–80,135)	(24,939–51,925)	(0-0)	(0-0)
	3,478,773	56,112	44,843	208,416	128,974	0	0
Household air pollution from solid fuels	(2,638,548–4,386,590)	(36,948–76,903)	(30,211–59,407)	(144,472–266,698)	(91,322–173,421)	(0-0)	(0-0)
	152,434	0	0	0	0	0	0
Ambient ozone pollution	(52,272–267,431)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	773,030	0	0	0	0	0	0
Other environmental risks	(640,893–929,935)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	98,992	0	0	0	0	0	0
Residential radon	(13,133–215,237)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	674,038	0	0	0	0	0	0
Lead exposure	(575,858–779,314)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,438,305	0	90,836	721,637	518,754	1,408	1,252
Child and maternal undernutrition	(1,175,257–1,713,103)	(0-0)	(54,038–123,893)	(570,882–882,976)	(414,384–639,905)	(1.067-1.857)	(945–1,631)
	544,817	0	90,836	417,748	36,233	0	0
Suboptimal breastfeeding	(338,453–775,077)	(0-0)	(54,038–123,893)	(249,596–613,606)	(3,467–80,680)	(0-0)	(0-0)
•	475,888	0	90,836	385,051	0	0	0
Non-exclusive breastfeeding	(272,493–684,422)	(0-0)	(54,038–123,893)	(214,204–563,219)	(0-0)	(0-0)	(0-0)
	68,929	0	0	32,696	36,233	0	0
Discontinued breastfeeding	(6,445–153,290)	(0-0)	(0-0)	(2,977–75,138)	(3,467–80,680)	(0-0)	(0-0)
	860,117	0	0	456,852	403,265	0	0
Childhood underweight	(715,742–1,033,573)	(0-0)	(0-0)	(373,978–544,720)	(324,901–495,038)	(0-0)	(0-0)
· ·	119,608	0	0	4,732	7,799	1,408	1,252
Iron deficiency	(93,261–139,985)	(0-0)	(0-0)	(3,473–6,131)	(5,825–10,574)	(1,067-1,857)	(945–1,631)
•	119,762	0	0	29,946	89,817	0	0
Vitamin A deficiency	(61,723–191,846)	(0-0)	(0-0)	(13,850-50,920)	(46,880–142,677)	(0-0)	(0-0)
	97,330	0	0	0	97,330	0	0
Zinc deficiency	(17,575–190,527)	(0-0)	(0-0)	(0-0)	(17,575–190,527)	(0-0)	(0-0)
	6,297,287	15,394	12,964	61,568	34,722	0	0
Tobacco smoking, including second-hand smoke	(5,395,769–7,006,942)	(9,856–22,066)	(8,668–17,719)	(41,829–82,500)	(23,397–46,997)	(0-0)	(0-0)
	5,695,349	0	0	0	0	0	0
Tobacco smoking	(4,755,779–6,421,611)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	601,938	15,394	12,964	61,568	34,722	0	0
Second-hand smoke	(447,705–745,328)	(9,856–22,066)	(8,668–17,719)	(41,829–82,500)	(23,397–46,997)	(0-0)	(0-0)
	2,882,343	542	466	2,751	7,340	2,520	2,287
Alcohol and drug use	(2,601,098–3,161,618)	(389–854)	(303–751)	(1,877–4,547)	(4,952–10,841)	(1,975–3,354)	(1,853–2,947)
	2,735,511	222	114	1,017	4,873	1,947	1,734
Alcohol use	(2,464,575–3,006,459)		(66–213)	(705-1.529)	(3.071-7.823)		(1,382-2,207)

	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
USA	157.805	320	352	1,734	2.467	573	553
Drug use	(124,639–209,873)	(187–593)	(197–631)	(962–3,560)	(1,271–4,303)	(340–1,071)	(361–1,020)
6	(121,037 207,073)	(107 373)	(1) (031)	(702 3,500)	(1,2/1 1,303)	(510 1,071)	(501 1,020)
hysiological risk factors							
	3,356,271	0	0	0	0	0	0
High fasting plasma glucose	(2,917,520–3,782,483)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,018,811	0	0	0	0	0	0
High total cholesterol	(1,572,853–2,479,097)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	9,395,860	0	0	0	0	0	0
High blood pressure	(8,579,630–10,147,805)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,371,232	0	0	0	0	0	0
High body-mass index	(2,817,774–3,951,127)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	187,586	0	0	0	0	0	0
Low bone mineral density	(140,636–219,906)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	12,288,450	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(11,487,702–13,115,164	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	4,902,242	0	0	0	0	0	0
Diet low in fruits	(3,818,356–5,881,561)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,797,254	0	0	0	0	0	0
Diet low in vegetables	(1,205,059–2,394,366)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,725,812	0	0	0	0	0	0
Diet low in whole grains	(1,342,896–2,067,224)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,471,823	0	0	0	0	0	0
Diet low in nuts and seeds	(1,559,603-3,226,994)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	100,951	0	0	0	0	0	0
Diet low in milk	(29,728–171,340)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	38,092	0	0	0	0	0	0
Diet high in red meat	(10,749–65,727)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	840,857	0	0	0	0	0	0
Diet high in processed meat	(188,952–1,460,279)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	210,780	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(136,271–299,863)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	742,888	0	0	0	0	0	0
Diet low in fibre	(334,379–1,166,933)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	125,594	0	0	0	0	0	0
Diet low in calcium	(88,323–164,800)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,389,896	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(1,010,300-1,781,401)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	533,603	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(245,096-820,854)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	515,260	0	0	0	0	0	0
Diet high in trans fatty acids	(371,081–649,451)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,104,308	0	0	0	0	0	0
Diet high in sodium	(2,016,734–4,105,019)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,183,940	0	0	0	0	0	0
Physical inactivity and low physical activity	(2,657,204–3,718,963)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 1: Global deaths attributable to risk factor	rs by age and sex in 2010						
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	852,107	0	0	0	0	0	0
Occupational risk factors	(659,652–1,062,443)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	118,097	0	0	0	0	0	0
Occupational carcinogens	(77,249–160,431)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	33,610	0	0	0	0	0	0
Occupational exposure to asbestos	(20,317–43,647)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
· ·	2,662	0	0	0	0	0	0
Occupational exposure to arsenic	(1,011–4,860)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,731	0	0	0	0	0	0
Occupational exposure to benzene	(1,111–4,811)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1	163	0	0	0	0	0	0
Occupational exposure to beryllium	(65–276)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 1	555	0	0	0	0	0	0
Occupational exposure to cadmium	(249–901)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,931	0	0	0	0	0	0
Occupational exposure to chromium	(1,140–2,799)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational enposate to enformation	22,187	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(12,180–33,213)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to dieser engine exhaust	24,235	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(16,094–31,803)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to second hand smoke	731	0	0	0	0	0	0
Occupational exposure to formaldehyde	(301–1,361)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to formatdenyde	9,145	0	0	0	0	0	0
Occupational exposure to nickel	(2,449–18,834)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to incker Occupational exposure to polycyclic aromatic	4,086	0	0	0	0	0-0)	0
1 1 1 3 3	· · · · · · · · · · · · · · · · · · ·	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
hydrocarbons	(1,909–6,567)		. ,	(/	. ,	(0-0)	(0-0)
Occupational expenses to cilias	16,277	0	0	0	0	-	0
Occupational exposure to silica	(9,875–22,272)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0	2,845	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(833–6,109)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0 (1 1	33,716	0	0	0	0	0	0
Occupational asthmagens	(22,844–58,659)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	218,864	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(100,403–344,633)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)
	481,429	0	0	0	0	0	0
Occupational risk factors for injuries	(363,778–639,590)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	238,359	0	0	0	0	19	717
Sexual abuse and violence	(143,200–325,690)	(0-0)	(0-0)	(0-0)	(0-0)	(9–35)	(314–1,407)
	64,438	0	0	0	0	19	717
Childhood sexual abuse	(37,339–94,174)	(0-0)	(0-0)	(0-0)	(0-0)	(9–35)	(314–1,407)
	186,365	0	0	0	0	0	0
Intimate partner violence	(92,028–280,059)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 1: Global deaths attributable to risk facto	ors by age and sex in 2010)					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	7,927	9,312	9,875	8,925	8,330	7,341	7,863
Unimproved water and sanitation	(287–16,589)	(343–18,640)	(386–19,842)	(345–17,258)	(290–16,469)	(265-14,658)	(261–15,887)
	2,645	3,188	3,458	3,098	2,788	2,391	2,437
Unimproved water source	(160–5,741)	(189–6,761)	(221–7,336)	(206–6,489)	(176-5,768)	(148–5,055)	(156–5,141)
	5,783	6,733	7,082	6,422	6,077	5,410	5,901
Unimproved sanitation	(129–12,280)	(144–13,914)	(165–14,724)	(152–13,019)	(127–12,447)	(118–11,161)	(116–12,237)
Air pollution							
•	0	0	19,383	28,261	46,942	83,986	119,288
Ambient particulate matter pollution	(0-0)	(0-0)	(13,539–25,181)	(20,627–36,185)	(34,622–58,828)	(61,621–105,440)	(87,902–150,065)
·	0	0	22,293	31,629	50,274	86,704	119,410
Household air pollution from solid fuels	(0-0)	(0-0)	(15,813–30,263)	(22,799-42,938)	(35,553-66,934)	(60,670–116,008)	(81,956–160,836)
	0	0	375	446	748	1,216	2,201
Ambient ozone pollution	(0-0)	(0-0)	(116–765)	(133–905)	(235-1,401)	(386–2,262)	(708–4,176)
1	0	0	5,104	7,743	10,495	17,600	26,858
Other environmental risks	(0-0)	(0-0)	(3,304–7,453)	(5,241–10,924)	(8,296–14,745)	(13,746–24,585)	(21,596–33,065)
	0	0	179	361	815	1,979	3,884
Residential radon	(0-0)	(0-0)	(19–460)	(42-894)	(97-2,018)	(252–4,700)	(506-8,889)
	0	0	4,925	7,382	9,680	15,621	22,974
Lead exposure	(0-0)	(0-0)	(3,169–7,265)	(4,951–10,481)	(7,589–13,871)	(12,287–22,423)	(18,703–27,494)
-	6,986	14,132	13,684	11,995	10,630	6,881	4,507
Child and maternal undernutrition	(4,831–9,348)	(9,115-18,457)	(8,451-17,980)	(7,443-15,896)	(6,237-14,915)	(4,454-9,230)	(3,088-5,903)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,986	14,132	13,684	11,995	10,630	6,881	4,507
Iron deficiency	(4,831–9,348)	(9,115–18,457)	(8,451–17,980)	(7,443–15,896)	(6,237–14,915)	(4,454–9,230)	(3,088–5,903)
***	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)	(0-0)
77. 1.6"	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Talana anakina ingladina arang banda 1	0	0	2,781	45,557	82,782	167,605	266,672
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(1,860–3,717)	(37,167–57,566)	(62,570–104,142)	(135,201–202,849)	(231,366–304,378)
Tahaasa amakina	0	0	0	41,700	77,635	159,037	252,839
Tobacco smoking	(0-0)	(0–0)	(0-0)	(33,543–53,877)	(57,110–98,732)	(126,938–194,322)	(217,743–292,135)
Second hand amake	0	0	2,781	3,857	5,147	8,568	13,834
Second-hand smoke	(0-0)	(0-0)	(1,860–3,717)	(2,650–5,069)	(3,488–6,734)	(5,741–11,414)	(9,279–18,293)
Alcohol and drug use	47,576	89,470	105,131	106,200	153,451	178,612	219,203
Alcohol aliu ulug usc	(39,843–56,170) 43,252	(75,217–104,352) 77,407	(89,973–121,372) 87,921	(92,178–120,507) 88,818	(133,884–175,849) 135,626	(158,881–202,666) 161,132	(195,232–243,514) 203,282
Alcohol use	· · · · · · · · · · · · · · · · · · ·	,	,	,	*	*	,
riconor use	(35,488–51,791)	(64,487–91,668)	(73,852–103,453)	(76,090–102,309)	(116,887–156,261)	(142,629–184,403)	(179,796–227,983)

Web table 1: Global deaths attributable to risk fac	ctors by age and sex in 2010						
Risk	Both Sexes, 15-19 Years	Both Sexes, 20-24 Years	Both Sexes, 25-29 Years	Both Sexes, 30-34 Years	Both Sexes, 35-39 Years	Both Sexes, 40-44 Years	Both Sexes, 45-49 Years
N.S.	4,514	12,688	18,015	17,947	18,558	18,465	17,219
Drug use	(2,996–6,858)	(8,477–19,023)	(12,883–25,715)	(13,703–24,111)	(14,039–24,687)	(13,637–25,171)	(12,729–23,413)
	(, , ,	(-, , ,	(,,,	(- , , , ,	(, ,,	(- , , - ,	(, , - ,
Physiological risk factors							
	0	0	16,376	21,148	43,429	66,152	131,855
High fasting plasma glucose	(0-0)	(0-0)	(13,393–19,453)	(17,209–25,587)	(35,413–52,077)	(54,203–78,473)	(111,312–153,375)
	0	0	6,572	9,962	24,515	42,725	76,279
High total cholesterol	(0-0)	(0-0)	(4,394–8,963)	(6,553–13,920)	(17,800–31,983)	(31,400–55,359)	(57,998–95,565)
77' 1 11 1	0	0	31,718	42,412	85,457	138,576	269,840
High blood pressure	(0-0)	(0-0)	(24,757–38,787)	(33,437–51,292)	(71,052–99,442)	(115,600–161,057)	(238,063–301,765)
High hady mass index	0	0	19,916	26,581	52,528	84,536	142,047
High body-mass index	(0-0)	(0-0)	(15,486–24,861)	(20,553–33,369)	(42,411–63,304)	(68,301–101,372)	(118,257–167,130)
Low home mineral density	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diatory right factors and physical inactivity		*	55,529	84,329	142,660	257,650	408,925
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(49,093–62,597) 29,556	(75,257–93,960) 43,549	(127,336–156,827) 72,886	(231,898–281,780) 132,153	(370,942–445,266)
Diet low in fruits							205,974
Diet low in Ituits	(0-0)	(0-0)	(22,733–36,007) 14,731	(33,426–53,056) 20,712	(56,575–88,493) 32,118	(102,782–158,869) 53,791	(158,169–245,090) 80,658
Diet low in vegetables	(0-0)	(0-0)	(9,377–19,724)	(13,467–27,691)	(20,106–43,252)	(34,064–71,797)	(51,595–107,242)
Dict low in vegetables	0	0	13,004	18,729	29,575	51,176	75,062
Diet low in whole grains	(0-0)	(0-0)	(9,944–16,207)	(14,177–23,363)	(22,577–36,641)	(39,003–62,409)	(57,926–91,881)
Diet low in whole grains	0	0	15,304	23,376	37,278	65,322	96,674
Diet low in nuts and seeds	(0-0)	(0-0)	(10,067–19,719)	(15,406–30,657)	(24,867–48,870)	(43,503–84,936)	(63,319–125,988)
	0	0	608	918	1,522	2,463	3,999
Diet low in milk	(0-0)	(0-0)	(175–1,051)	(263–1,564)	(407–2,611)	(691–4,208)	(1,160–6,973)
	0	0	153	253	462	788	1,346
Diet high in red meat	(0-0)	(0-0)	(42–266)	(72–452)	(128–853)	(219–1,399)	(368–2,395)
Ü	0	0	5,785	8,788	13,433	23,635	36,276
Diet high in processed meat	(0-0)	(0-0)	(1,293–10,388)	(1,911–15,937)	(2,863–24,166)	(4,991–43,764)	(8,262–63,401)
	0	0	2,833	3,725	4,663	7,031	9,159
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(1,681-4,191)	(2,165-5,118)	(1,835-7,876)	(2,463-12,145)	(3,264-15,089)
	0	0	6,217	9,159	14,693	24,543	35,718
Diet low in fibre	(0-0)	(0-0)	(2,769-9,778)	(4,075-14,334)	(6,311-22,524)	(10,944–38,488)	(15,907-56,352)
	0	0	767	1,137	1,866	2,954	4,694
Diet low in calcium	(0-0)	(0-0)	(559-1,032)	(810–1,505)	(1,345-2,508)	(2,154-3,983)	(3,455-6,223)
	0	0	10,264	15,564	24,478	42,421	61,767
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(7,269-13,173)	(10,897-20,365)	(17,108-31,695)	(31,370-55,094)	(44,216-79,980)
	0	0	4,314	6,367	9,808	16,489	23,846
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(2,085-6,637)	(3,025-9,704)	(4,589–14,853)	(7,740–25,406)	(11,064–36,070)
	0	0	4,649	6,892	10,395	17,502	25,250
Diet high in trans fatty acids	(0-0)	(0-0)	(3,317-6,064)	(4,890-8,947)	(7,378–13,277)	(12,473–22,588)	(17,861–32,222)
	0	0	10,709	17,736	31,747	61,519	98,320
Diet high in sodium	(0-0)	(0-0)	(5,512–15,656)	(11,101–24,204)	(20,022–43,823)	(40,089–82,711)	(65,211–130,036)
	0	0	17,717	26,592	42,902	72,728	111,101
Physical inactivity and low physical activity	(0-0)	(0-0)	(14,545–21,127)	(22,165–32,284)	(35,223–50,963)	(60,057–86,619)	(91,925–128,952)
0	32,664	62,435	70,651	65,957	64,027	62,283	62,417
Occupational risk factors	(24,539–45,485)	(46,472–85,655)	(52,333–95,734)	(48,624–88,741)	(47,245–85,499)	(46,692–84,074)	(47,607–82,202)

Web table 1: Global deaths attributable to risk factor	s by age and sex in 2010)					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	243	409	535	681	1,128	2,364	4,896
Occupational carcinogens	(152–351)	(241–626)	(324–799)	(438–985)	(730–1,622)	(1,562-3,384)	(3,181-6,860)
	102	117	127	158	245	480	1,004
Occupational exposure to asbestos	(55–142)	(60–164)	(62–187)	(85–218)	(142–332)	(282–644)	(586–1,346)
Occupational exposure to arsenic	0	0	4	9	24	56	124
Occupational exposure to arsenic	(0–0) 118	(0–0) 242	(1–8) 230	(3–16) 216	(9–46) 119	(21–105) 136	(47–228) 75
Occupational exposure to benzene	(50–215)	(101–440)	(96–413)	(89–388)	(50–213)	(56–249)	(32–134)
Secupational emposare to consene	0	0	0	1	1	3	8
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-1)	(1–3)	(1–6)	(3–13)
	0	0	1	2	5	11	25
Occupational exposure to cadmium	(0-0)	(0-0)	(0-1)	(1–3)	(2–8)	(5–19)	(11–42)
	0	0	3	6	17	40	89
Occupational exposure to chromium	(0-0)	(0-0)	(2–5)	(3–10)	(10–26)	(23–60)	(53–132)
	0	0	35	67	194	445	1,011
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(17–56)	(36–107)	(104–305)	(252–689)	(567–1,538)
Occupational exposure to second-hand smoke	0	0	40	80	225	514	1,144
Occupational exposure to second-mand smoke	(0–0) 24	(0–0) 52	(24–59)	(49–116) 56	(147–314)	(360–702)	(775–1,523)
Occupational exposure to formaldehyde	(10–40)	(22–93)	(23–93)	(23–102)	(15–73)	(19–110)	(11–70)
Secupational exposure to formulating ac	0	0	14	29	82	191	423
Occupational exposure to nickel	(0-0)	(0-0)	(3–29)	(8–63)	(21–176)	(52–408)	(110–872)
Occupational exposure to polycyclic aromatic	0	0	6	13	36	83	187
hydrocarbons	(0-0)	(0-0)	(3–11)	(6–22)	(16–60)	(39–139)	(87–304)
	0	0	24	47	137	318	724
Occupational exposure to silica	(0-0)	(0-0)	(13–37)	(28–71)	(84–202)	(209–455)	(454–1,007)
	0	0	3	7	25	79	182
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(1–7)	(2–15)	(7–57)	(22–175)	(53–414)
Occumational authoragens	358	740	1,066	1,105	1,488	1,840	2,659
Occupational asthmagens	(203–681)	(455–1,354)	(689–1,841) 1,382	(708–1,964) 1,733	(959–2,785) 2,924	(1,188–3,252) 4,914	(1,718–4,868) 8,653
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(611–2,345)	(786–2,913)	(1,346–4,816)	(2,251–7,771)	(4,028–13,724)
georgian particulate matter, gases, and rames	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	32,063	61,286	67,668	62,438	58,487	53,165	46,208
Occupational risk factors for injuries	(23,863-44,890)	(45,285–84,491)	(49,469-92,934)	(45,594–85,576)	(42,023-79,902)	(38,056–74,337)	(32,800-65,420)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	22,733	28,956	24,610	20,391	20,210	19,242	17,203
Sexual abuse and violence	(12,019–38,782)	(17,714–43,276)	(14,985–36,062)	(13,235–29,618)	(12,545–29,477)	(11,546–28,530)	(10,285–25,415)
Childhood sexual abuse	6,208	7,162	5,923	5,068	5,202	5,495	5,539
Ciliuliood sexual abuse	(3,117–10,541) 18,330	(3,552–12,066) 23,487	(2,981–10,085) 19,975	(2,706–8,223) 16,304	(2,908–8,361) 15,987	(3,114–8,356) 14,732	(3,237–8,384) 12,498
Intimate partner violence	(7,592–34,410)	(12,704–37,565)	(10,948–30,924)	(9,629–25,166)	(8,588–25,315)	(7,145–24,077)	(5,857–20,668)
manace partitor violence	(7,394-34,410)	(12,/04-3/,303)	(10,740-30,724)	(3,049-43,100)	(0,300-43,313)	(/,143-24,0//)	(3,837-20,008)

Web table 1: Global deaths attributable to risk fact	ors by age and sex in 2010						
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	8,151	9,759	12,962	14,139	17,147	14,904	24,054
Unimproved water and sanitation	(326–16,408)	(376–19,460)	(483–26,972)	(502-29,129)	(685–35,493)	(502-31,039)	(958-51,100)
	2,536	2,862	3,729	4,087	4,669	4,107	6,402
Unimproved water source	(172–5,284)	(186-6,023)	(239–8,007)	(256-8,653)	(300–10,202)	(262–9,056)	(416–14,213)
	6,109	7,461	9,982	10,865	13,403	11,598	18,841
Unimproved sanitation	(150–12,868)	(191–15,524)	(249–21,194)	(260–23,127)	(364–28,953)	(252–24,967)	(526–40,114)
Air pollution							
	184,594	264,159	312,142	350,365	437,544	441,676	808,013
Ambient particulate matter pollution	(137,748–229,414)	(197,916-329,587)	(235,061-380,641)	(256,084-437,319)	(310,562–549,395)	(319,299–545,498)	(593,718–1,006,500)
	185,729	265,260	322,961	382,801	459,038	440,973	673,357
Household air pollution from solid fuels	(130,714–250,233)	(179,824–363,709)	(223,865–423,616)	(258,960-520,298)	(308,038-625,421)	(298,421-598,274)	(451,313-939,330)
	4,316	8,062	12,747	18,635	25,305	27,205	51,177
Ambient ozone pollution	(1,466–7,814)	(2,744–14,031)	(4,344–22,552)	(6,146–32,946)	(8,886–44,211)	(8,986–48,144)	(17,494–90,709)
1	44,042	63,955	78,391	91,681	112,467	113,536	201,157
Other environmental risks	(34,940–55,390)	(49,978–81,112)	(61,072–98,724)	(74,033–113,972)	(91,407–138,330)	(94,482–136,448)	(170,661–234,060)
	7,079	11,324	13,548	14,401	15,897	13,896	15,630
Residential radon	(921–15,575)	(1,463–25,961)	(1,724–30,220)	(1,845–31,358)	(2,099–34,473)	(1,932–30,443)	(2,235–32,630)
	36,964	52,632	64,844	77,280	96,570	99,640	185,527
Lead exposure	(30,600–44,851)	(43,971–62,442)	(53,983–76,354)	(64,747–90,674)	(81,172–112,338)	(84,717–115,369)	(158,672–213,510)
•	2,008	2,480	3,075	3,779	4,466	4,839	14,956
Child and maternal undernutrition	(1,456–2,513)	(1,811-3,087)	(2,132-3,874)	(2,684–4,711)	(3,166–5,655)	(3,477–5,993)	(9,848–17,596)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,008	2,480	3,075	3,779	4,466	4,839	14,956
Iron deficiency	(1,456–2,513)	(1,811-3,087)	(2,132-3,874)	(2,684-4,711)	(3,166-5,655)	(3,477-5,993)	(9,848-17,596)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	422,111	610,183	721,026	782,657	906,104	836,555	1,328,606
Tobacco smoking, including second-hand smoke	(367,296–477,852)	(523,167–684,715)	(612,303-809,754)	(652,139-877,934)	(739,469–1,024,868)	(673,595–951,091)	(1,077,222–1,528,946)
	400,125	577,913	680,179	733,152	835,859	761,951	1,174,959
Tobacco smoking	(345,548–456,401)	(490,199–656,288)	(571,860–773,143)	(606,215–831,566)	(668,503–960,159)	(595,947–880,095)	(919,813–1,384,525)
	21,986	32,270	40,846	49,505	70,245	74,604	153,647
Second-hand smoke	(14,932–28,718)	(22,169–41,920)	(27,856–53,015)	(33,487–64,034)	(47,149–91,083)	(49,672–98,144)	(102,682–200,924)
	259,637	289,998	278,664	192,815	246,062	234,406	465,213
Alcohol and drug use	(232,928–288,933)	(261,407–319,189)	(251,759–308,347)	(169,747–217,361)	(211,826–280,749)	(196,742–270,417)	(368,775–553,542)
l	247,349	280,924	271,855	190,618	243,705	232,408	461,306
Alcohol use	(221,144–276,088)	(252,576–309,985)	(245,586–300,807)	(167,794–214,854)	(209,694–276,221)	(194,609–268,620)	(364,931–549,076)

Web table 1: Global deaths attributable to risk factor	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	13,990	11,079	8,852	2,207	2,362	2,000	3,909
Drug use	(10,465–18,702)	(8,422–14,411)	(6,899–11,843)	(1,423–3,877)	(1,597–5,088)	(1,373-4,143)	(2,477-8,336)
Physiological risk factors							
	192,326	301,908	354,094	409,284	497,620	479,994	842,087
High fasting plasma glucose	(162,712–223,215)	(257,999–343,811)	(305,203-400,759)	(352,906–460,699)	(433,028–563,987)	(415,869-542,922)	(725,560–961,107)
	116,153	163,447	192,656	212,332	287,394	280,762	606,014
High total cholesterol	(88,661–145,847)	(125,168-201,847)	(148,160-237,907)	(162,213–261,149)	(213,781–358,893)	(199,826–363,786)	(465,240–762,497)
	399,896	654,736	775,057	1,001,731	1,326,834	1,479,518	3,190,084
High blood pressure	(351,044–450,086)	(590,299–716,664)	(702,642–847,847)	(915,284–1,089,574)	(1,213,244–1,441,000)	(1,357,572–1,602,369)	(2,903,071–3,473,227)
	212,132	284,645	342,743	352,399	462,281	447,723	943,703
High body-mass index	(175.681–249.202)	(238,583–332,873)	(288,037–400,484)	(293,444–415,819)	(386,109–543,426)	(369,966–528,592)	(776,426–1,117,365)
,	10.798	11,833	15,570	16.721	22,365	27.860	82,439
Low bone mineral density	(7,376–14,427)	(7,989–15,250)	(10,556–20,325)	(11,264–21,858)	(14,771–29,664)	(19,146–35,337)	(61,339–99,596)
20 20110 1111101111 20111111	644,507	921,116	1.106.313	1.297.604	1,701,119	1,810,127	3.858.570
Dietary risk factors and physical inactivity	(585,811–697,969)	(843,663–993,658)	(1,016,853–1,198,794)	, ,	(1,558,272–1,837,743)		- , ,
	320,139	447,203	503,150	567,807	694,866	694,529	1,190,431
Diet low in fruits	(251,370–383,004)	(349,331–535,000)	(390,512–601,267)	(441,865–684,963)	(523,995–852,428)	(523,865–848,254)	(898,921–1,475,735)
Diet low in Italia	119,259	154,768	171,837	190,875	245,311	245,167	468,027
Diet low in vegetables	(77,459–160,291)	(101,928–209,953)	(113,435–232,266)	(126,872–258,865)	(162,020–330,106)	(163,135–328,632)	(310,777–634,554)
Diet low in vegetables	111,113	149,480	168,657	184,513	237,570	239,546	447,387
Diet low in whole grains	(86,150–134,779)	(114,624–181,418)	(131,997–201,982)	(143,699–223,842)	(185,147–286,878)	(185,978–288,836)	(344,595–539,455)
Diet low in whole grains	147,897	198,874	227,161	252,245	326,609	333,926	747,159
Diet low in nuts and seeds	(97,152–194,197)	(126,498–258,779)	(144,126–296,077)	(160,295–329,883)	(203,019–432,509)	(207,817–444,484)	(444,925–1,013,572)
Diet low ill liuts and seeds			. , , ,		(, , , ,		
Diet low in milk	6,196	9,064	10,726	11,840	14,541	14,428	24,644
Diet low iii lillik	(1,809–10,510)	(2,657–15,593)	(3,075–18,156)	(3,596–19,917)	(4,242–24,359)	(4,211–24,711)	(7,154–41,748)
Diet high in and most	2,123	3,213	3,901	4,366	5,620	5,680	10,186
Diet high in red meat	(609–3,759)	(900–5,577)	(1,135–6,840)	(1,258–7,523)	(1,571–9,771)	(1,612–9,824)	(2,769–17,486)
D' (1' 1' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	55,072	70,821	79,582	83,696	106,904	106,784	250,082
Diet high in processed meat	(12,134–96,483)	(15,903–123,590)	(17,881–139,150)	(18,480–144,781)	(24,368–187,917)	(24,369–186,277)	(55,778–439,244)
D' (11.1.)	13,067	18,937	20,455	24,745	26,202	25,282	54,680
Diet high in sugar-sweetened beverages	(4,343–21,137)	(5,865–27,568)	(6,561–28,996)	(17,217–34,142)	(18,015–38,916)	(17,260–52,334)	(27,449–99,390)
51.1.1.011	50,669	64,896	69,288	72,368	93,640	96,524	205,173
Diet low in fibre	(22,454–79,898)	(28,876–100,511)	(31,496–109,076)	(32,224–114,233)	(41,841–147,686)	(43,505–150,993)	(90,134–326,024)
	7,278	10,802	12,879	14,518	18,098	18,487	32,114
Diet low in calcium	(5,363–9,476)	(7,857–13,970)	(9,431–16,736)	(10,476–18,715)	(12,755–23,815)	(12,737–24,562)	(20,693–44,759)
	92,600	121,446	134,722	145,575	183,517	180,729	376,813
Diet low in seafood omega-3 fatty acids	(66,424–119,004)	(88,439–154,611)	(95,314–172,333)	(107,069–186,547)	(132,993–234,887)	(130,488–234,087)	(269,997–487,697)
	35,428	45,805	51,033	55,294	68,664	68,287	148,269
Diet low in polyunsaturated fatty acids	(16,406–54,366)	(21,626–69,737)	(23,629–78,275)	(25,382-85,803)	(31,331–106,753)	(31,905–104,462)	(69,596–227,690)
	36,544	45,358	51,152	53,600	63,550	62,692	137,675
Diet high in trans fatty acids	(25,998–46,689)	(32,389-57,299)	(36,748-65,110)	(38,825-68,146)	(45,742-81,677)	(44,977–79,902)	(98,838–177,505)
	160,935	239,505	298,843	360,688	458,805	466,938	898,562
Diet high in sodium	(107,007-211,930)	(159,131–314,577)	(197,810-390,975)	(236,085-478,983)	(297,515-610,502)	(299,801–623,500)	(561,441–1,211,761)
	166,062	233,944	285,323	330,531	437,261	461,360	998,419
	100,002	233,744	203,323	330,331	137,201	101,500	,,,,,,,,

Web table 1: Global deaths attributable to risk factor	rs by age and sex in 2010)					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	66,782	78,325	76,567	59,149	70,283	63,047	17,520
Occupational risk factors	(50,522-87,875)	(57,429-101,849)	(52,399-103,659)	(37,215-83,170)	(43,374–101,420)	(36,177-93,649)	(11,736-23,165)
	8,434	16,119	19,111	16,351	18,150	12,156	17,520
Occupational carcinogens	(5,529-12,084)	(10,270-23,451)	(12,299-26,963)	(10,577-22,534)	(11,300-25,242)	(7,901-16,412)	(11,736–23,165)
	1,815	2,759	3,796	4,214	5,136	5,118	8,540
Occupational exposure to asbestos	(1,034-2,497)	(1,562-3,676)	(2,254-4,937)	(2,525-5,470)	(3,052-6,729)	(3,057-6,857)	(5,375-11,197)
	210	439	500	384	416	213	284
Occupational exposure to arsenic	(82–381)	(166-814)	(190-938)	(143–696)	(158–757)	(82-394)	(112-532)
	86	142	156	239	273	359	342
Occupational exposure to benzene	(35–154)	(58-252)	(65–274)	(99-416)	(114–483)	(148–656)	(137–607)
	13	27	30	23	26	13	18
Occupational exposure to beryllium	(5–22)	(10–46)	(12–53)	(9-39)	(10–43)	(5–23)	(7–31)
	43	91	104	80	87	45	60
Occupational exposure to cadmium	(20–72)	(40–153)	(47-174)	(35-130)	(39–142)	(20–74)	(27-100)
	151	317	361	278	303	155	211
Occupational exposure to chromium	(89–226)	(190–476)	(212–539)	(160-401)	(172–447)	(86–231)	(116-313)
	1,755	3,650	4,205	3,263	3,480	1,797	2,286
Occupational exposure to diesel engine exhaust	(969–2,688)	(1,999-5,640)	(2,339-6,419)	(1,752-4,918)	(1,808-5,340)	(909-2,770)	(1,166-3,448)
	1,937	3,965	4,565	3,494	3,748	1,916	2,608
Occupational exposure to second-hand smoke	(1,330-2,630)	(2,647-5,404)	(3,054–6,210)	(2,247–4,640)	(2,398–5,047)	(1,193–2,576)	(1,573–3,518)
	35	57	53	75	69	81	54
Occupational exposure to formaldehyde	(11–81)	(19–123)	(19–109)	(28–159)	(27-135)	(33–151)	(23–101)
· · ·	717	1,497	1,703	1,316	1,437	740	996
Occupational exposure to nickel	(189–1,456)	(388–3,143)	(449–3,587)	(349–2,658)	(377–2,919)	(198–1,520)	(275–2,104)
Occupational exposure to polycyclic aromatic	320	670	767	592	642	330	441
hydrocarbons	(151–525)	(309-1,122)	(361-1,272)	(267–957)	(296-1,039)	(149–542)	(204–721)
	1,264	2,664	3,068	2,403	2,580	1,345	1,703
Occupational exposure to silica	(790–1,775)	(1,619–3,731)	(1,878–4,265)	(1,432–3,294)	(1,465–3,582)	(736–1,897)	(949–2,362)
	317	452	504	409	407	202	258
Occupational exposure to sulfuric acid	(95–697)	(137–994)	(152-1,079)	(115-890)	(118-884)	(54–437)	(72–569)
	3,429	4,420	4,545	3,734	4,289	4,043	0
Occupational asthmagens	(2,175–6,213)	(2,938–8,152)	(3,010–7,968)	(2,412–6,663)	(2,797–7,245)	(2,640–6,860)	(0-0)
	16,308	27,579	35,929	31,724	42,535	45,183	0
Occupational particulate matter, gases, and fumes	(7,418–25,630)	(12,893–42,740)	(16,528–57,533)	(13,724–51,720)	(18,474–69,270)	(20,103–73,379)	(0-0)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	38,611	30,208	16.982	7.340	5,310	1.664	0
Occupational risk factors for injuries	(27,657–56,561)	(21,348–43,821)	(12,144–24,063)	(5,214–10,759)	(3,801–7,576)	(1,213–2,405)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	16,691	14,856	12,739	10,636	10,329	8,007	11,021
Sexual abuse and violence	(9,424–25,921)	(8,175–23,045)	(6,609–19,983)	(5,175–17,573)	(5,092–16,265)	(3,980–12,754)	(4,950–19,051)
	5,644	4,859	3,878	2,894	2,409	1,685	1,734
Childhood sexual abuse	(3,271–8,352)	(2,876–7,353)	(2,272–6,015)	(1,655–4,540)	(1,384–3,807)	(968–2,636)	(964–2,823)
	11,896	10,741	9,510	8,269	8,395	6,628	9,613
Intimate partner violence	(4,891–20,523)	(3,973–18,753)	(3,537–16,855)	(2,925–14,994)	(3,058–14,562)	(2,454–11,276)	(3,366–17,719)

Web table 1: Global deaths attributable to risk facto	rs by age and sex in 2010						
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	171,097	3,256	6,162	41,197	31,452	7,407	3,772
Unimproved water and sanitation	(6,841–326,262)	(133–6,725)	(249–12,545)	(1,645-80,748)	(1,365–62,074)	(298–15,257)	(159–7,992)
	59,463	1,304	2,331	16,231	12,614	2,561	1,223
Unimproved water source	(3,880-120,264)	(86-2,768)	(147-4,840)	(1,057-33,057)	(807-25,209)	(166-5,392)	(79–2,722)
	123,255	2,208	4,299	28,121	21,386	5,338	2,778
Unimproved sanitation	(2,924–242,588)	(53-4,828)	(108-9,051)	(687–57,251)	(523–44,365)	(127–11,347)	(68-6,088)
Air pollution							
1	1,850,428	9,864	7,848	32,496	20,244	0	0
Ambient particulate matter pollution	(1,614,010–2,082,474)	(5,776–15,458)	(4,833–11,830)	(21,487–45,961)	(12,743–30,639)	(0-0)	(0-0)
·	1,867,043	33,516	25,343	114,984	72,093	0	0
Household air pollution from solid fuels	(1,359,090–2,452,588)	(20,455–50,767)	(16,582–36,042)	(77,458–155,115)	(49,492–106,401)	(0-0)	(0-0)
•	86,335	0	0	0	0	0	0
Ambient ozone pollution	(30,551–153,776)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
· · · · · · · · · · · · · · · · · · ·	426,280	0	0	0	0	0	0
Other environmental risks	(341,744–541,465)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	70,014	0	0	0	0	0	0
Residential radon	(9,140–154,460)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	356,266	0	0	0	0	0	0
Lead exposure	(292,587–435,046)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	739,863	0	50,064	385,843	278,752	747	590
Child and maternal undernutrition	(570,560–909,248)	(0-0)	(29,003–71,177)	(295,253–483,200)	(211,907–359,030)	(517–1,077)	(414–832)
	293,449	0	50,064	224,974	18,411	0	0
Suboptimal breastfeeding	(175,623–429,772)	(0-0)	(29,003–71,177)	(130,674–336,168)	(1,702–42,066)	(0-0)	(0-0)
	257,771	0	50,064	207,707	0	0	0
Non-exclusive breastfeeding	(143,116–382,459)	(0-0)	(29,003–71,177)	(113,863–313,552)	(0-0)	(0-0)	(0-0)
, and the second	35,678	0	0	17,267	18,411	0	0
Discontinued breastfeeding	(3,475–79,940)	(0-0)	(0-0)	(1,599–39,711)	(1,702–42,066)	(0-0)	(0-0)
Ţ.	458,639	0	0	242,188	216,451	0	0
Childhood underweight	(366,866–561,352)	(0-0)	(0-0)	(189,566–299,472)	(167,965–276,346)	(0-0)	(0-0)
	32,287	0	0	2,631	4,453	747	590
Iron deficiency	(21,925–37,449)	(0-0)	(0-0)	(1,769-3,874)	(2,957-6,919)	(517-1,077)	(414–832)
	63,291	0	0	15,377	47,913	0	0
Vitamin A deficiency	(32,070–104,030)	(0-0)	(0-0)	(6,877-26,936)	(24,771-79,872)	(0-0)	(0-0)
	52,390	0	0	0	52,390	0	0
Zinc deficiency	(9,382-105,728)	(0-0)	(0-0)	(0-0)	(9,382-105,728)	(0-0)	(0-0)
	4,507,059	9,133	7,293	33,825	18,899	0	0
Tobacco smoking, including second-hand smoke	(3,757,779–5,092,460)	(5,668-14,018)	(4,596–10,497)	(22,595–46,692)	(11,980-27,536)	(0-0)	(0-0)
	4,251,424	0	0	0	0	0	0
Tobacco smoking	(3,503,674–4,850,554)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	255,634	9,133	7,293	33,825	18,899	0	0
Second-hand smoke	(191,587–314,541)	(5,668-14,018)	(4,596–10,497)	(22,595–46,692)	(11,980-27,536)	(0-0)	(0-0)
	1,925,525	338	294	1,599	4,206	1,558	1,419
Alcohol and drug use	(1,712,465–2,132,787)	(229–622)	(155–562)	(891-3,117)	(2,652-6,792)	(1,176-2,204)	(1,123-1,870)
	1,824,119	120	65	574	2,971	1,209	1,123
Alcohol use	(1,613,616–2,029,574)	(73–218)	(35–133)	(371–991)	(1,733–5,225)	(881-1,714)	(865–1,463)

Web table 1: Global deaths attributable to risk fa	ctors by age and sex in 2010						
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	109,420	218	229	1,025	1,235	349	296
Drug use	(82,297–152,421)	(104–456)	(99–482)	(406–2,503)	(480–2,271)	(190–737)	(156–654)
Physiological risk factors							
	1,749,058	0	0	0	0	0	0
High fasting plasma glucose	(1,455,169–2,039,206)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	961,614	0	0	0	0	0	0
High total cholesterol	(714,774–1,236,023)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	4,750,581	0	0	0	0	0	0
High blood pressure	(4,272,529–5,273,576)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,632,766	0	0	0	0	0	0
High body-mass index	(1,328,501-1,941,988)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	103,440	0	0	0	0	0	0
Low bone mineral density	(67,743–124,596)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,570,516	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(6,063,034–7,098,471)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,837,481	0	0	0	0	0	0
Diet low in fruits	(2,203,651-3,414,649)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,017,500	0	0	0	0	0	0
Diet low in vegetables	(687,787–1,378,721)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	963,640	0	0	0	0	0	0
Diet low in whole grains	(748,116–1,162,721)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
ū	1,389,433	0	0	0	0	0	0
Diet low in nuts and seeds	(890,869–1,817,734)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	54,093	0	0	0	0	0	0
Diet low in milk	(16,106–91,527)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	21,330	0	0	0	0	0	0
Diet high in red meat	(6,175–37,340)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet ingn in red inem	473,562	0	0	0	0	0	0
Diet high in processed meat	(103,608–842,923)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet ingn in processed meat	117,874	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(76,219–170,172)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet ingh in sugar sweetened beverages	441,895	0	0	0	0	0	0
Diet low in fibre	(201,062–693,234)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low in note	76,413	0	0	0	0-0)	0	0
Diet low in calcium	(51,653–103,188)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dict low in calcium	793,650	0	0	0	0	. ,	0
Diet low in seafood omega-3 fatty acids				~		0	
Diet low in searood offiega-5 fatty acids	(574,241–1,010,930)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
Diet low in polymeaturated fatty acids	306,296	0		-	0	0	0
Diet low in polyunsaturated fatty acids	(140,873–473,149)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet high in trong fatty golds	293,087	0	0	0	0	0	0
Diet high in trans fatty acids	(209,155–371,284)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
Diet high in andium	1,732,870	0	0	0	0	0	0
Diet high in sodium	(1,122,107–2,301,781)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Discription white and the first transfer	1,547,833	0	0	0	0	0	0
Physical inactivity and low physical activity	(1,264,464–1,835,192)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Veb table 1: Global deaths attributable to risk factor	Males,	Males,	Males,	Males,	Males,	Males,	Males,
isk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	749,857	0	0	0	0	0	0
occupational risk factors	(580,954–941,322)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	92,154	0	0	0	0	0	0
Occupational carcinogens	(57,261–127,678)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	26,563	0	0	0	0	0	0
Occupational exposure to asbestos	(14,454–36,593)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,915	0	0	0	0	0	0
Occupational exposure to arsenic	(717–3,496)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,542	0	0	0	0	0	0
Occupational exposure to benzene	(618–2,706)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	114	0	0	0	0	0	0
Occupational exposure to beryllium	(44–192)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	410	0	0	0	0	0	0
Occupational exposure to cadmium	(179–670)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,361	0	0	0	0	0	0
Occupational exposure to chromium	(720–2,014)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	18,773	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(9,641–28,714)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	17,189	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(10,127–23,037)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
T	486	0	0	0	0	0	0
Occupational exposure to formaldehyde	(185–939)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,443	0	0	0	0	0	0
Occupational exposure to nickel	(1,616–13,317)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	3,092	0	0	0	0	0	0
hydrocarbons	(1,394–5,028)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
nydrocarbons	14,205	0	0	0	0	0	0
Occupational exposure to silica	(8,244–19,702)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Geoupational exposure to sincu	2,606	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(718–5,761)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to suntine acid	25,364	0	0	0	0	0	0
Occupational asthmagens	(15,642–48,748)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational astimagens	171,553	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(79,656–270,369)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational particulate matter, gases, and rumes	(79,636–270,369)	0	0	0	0	0	0=0)
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational noise	460,785	0	0	0	0	0	0
Occupational risk factors for injuries	· ·	(0-0)	(0-0)	(0-0)	(0-0)		(0-0)
Occupational risk factors for injuries	(343,904–618,319)	0-0)	0	0	0	(0-0)	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational low back pain	37,429	(0-0)	0-0)	0	0	(0-0)	293
exual abuse and violence	, '						
cauai aduse anu vidience	(21,366–56,607)	(0-0)	(0-0)	(0-0)	(0-0)	(4–16)	(131–574) 293
Childhood sexual abuse	37,429						
Ciniunoou sexuai abuse	(21,366–56,607)	(0-0)	(0-0)	(0-0)	(0-0)	(4–16)	(131–574)
	0	0	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)

Web table 1: Global deaths attributable to risk factors by age an	Web table 1: Global deaths attributable to risk factors by age and sex in 2010										
	Males,	Males,	Males,	Males,	Males,	Males,	Males,				
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years				
	4,198	4,548	4,909	4,749	4,520	4,150	4,411				
Unimproved water and sanitation	(143–9,165)	(172-9,351)	(181-10,222)	(181-9,713)	(158-9,193)	(142-8,810)	(136–9,257)				
	1,385	1,532	1,666	1,586	1,446	1,296	1,340				
Unimproved water source	(84–3,088)	(93-3,335)	(97-3,636)	(105-3,319)	(96-3,048)	(78-2,883)	(85-2,903)				
	3,072	3,304	3,560	3,466	3,349	3,103	3,332				
Unimproved sanitation	(62-6,849)	(72-6,901)	(83-7,664)	(79-7,288)	(68-6,994)	(61-6,784)	(57–7,393)				
Air pollution											
	0	0	13,059	19,468	32,310	57,842	81,776				
Ambient particulate matter pollution	(0-0)	(0-0)	(9,124–17,095)	(13,850–25,400)	(23,268–41,544)	(42,349–73,195)	(59,736–103,678)				
	0	0	13,864	20,344	31,996	55,558	75,245				
Household air pollution from solid fuels	(0-0)	(0-0)	(9,453–20,086)	(13,647–28,720)	(21,614–44,792)	(36,651–76,779)	(51,083–104,126)				
	0	0	209	260	431	746	1,345				
Ambient ozone pollution	(0-0)	(0-0)	(59–454)	(78–554)	(139-871)	(224–1,487)	(449–2,770)				
	0	0	2,175	3,604	6,281	10,748	17,574				
Other environmental risks	(0-0)	(0-0)	(1,619–3,534)	(2,775-5,833)	(4,915–8,475)	(8,324–15,098)	(13,608–22,319)				
	0	0	118	227	516	1,284	2,662				
Residential radon	(0-0)	(0-0)	(12–311)	(26–564)	(58–1,250)	(142-3,042)	(324–6,136)				
	0	0	2,057	3,376	5,765	9,465	14,911				
Lead exposure	(0-0)	(0-0)	(1,522-3,417)	(2,550-5,492)	(4,457-7,899)	(7,503-12,796)	(11,825–18,504)				
	1,059	1,402	1,406	1,298	1,138	960	1,017				
Child and maternal undernutrition	(704–1,545)	(917–2,066)	(1,004–1,925)	(854–1,917)	(733–1,605)	(597–1,402)	(673–1,363)				
	0	0	0	0	0	0	0				
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)				
	0	0	0	0	0	0	0				
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)				
5	0	0	0	0	0	0	0				
Discontinued breastfeeding	(0-0)	(0–0)	(0-0)	(0–0)	(0-0)	(0–0)	(0-0)				
	0	0	0	0	0	0	0				
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)				
T 1 C' '	1,059	1,402	1,406	1,298	1,138	960	1,017				
Iron deficiency	(704–1,545)	(917–2,066)	(1,004–1,925)	(854–1,917)	(733–1,605)	(597–1,402)	(673–1,363)				
Vitamin A deficiency	0	0	0	0	0	0	0				
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)				
Zina dafiaianay	0	0	0	0	0	0	0				
Zinc deficiency	(0-0)	(0-0)	(0–0) 1,426	(0-0)	(0–0) 68,311	(0–0) 137,134	(0–0) 217,668				
Tobacco smoking, including second-hand smoke			· · · · · · · · · · · · · · · · · · ·	38,180	,	*	,				
100acco smoking, including second-hand smoke	(0-0)	(0-0)	(930–1,955)	(30,013–49,605) 36,211	(48,598–89,061) 66,201	(106,845–169,336) 133,319	(184,804–253,378) 211,777				
Tobacco smoking	(0-0)	(0-0)	(0-0)	(28,169–47,605)	(46,625–86,784)	*	· · · · · · · · · · · · · · · · · · ·				
1 obucco sinoking	(0-0)	(0=0)	1,426	1,970	2,110	3,815	(177,868–248,269) 5,891				
Second-hand smoke	(0-0)	(0-0)	(930–1,955)	(1,330–2,641)	(1,350–2,935)	(2,519–5,169)	(3,893–7,894)				
becone hand smore	38,563	74,852	88,525	88,326	127,398	146,079	(5,893=7,894)				
Alcohol and drug use	(31,110–46,931)	(61,576–88,688)	(74,000–104,140)	(75,290–102,223)		(127,034–166,826)	(153,669–199,416)				
riconor and drug asc	36,023	(61,576–88,688)	75,692	75,466	114,330	133,418	164,804				
Alcohol use	(28,686–44,345)	(53,884–80,300)	(61,830–91,071)	(63,389–88,672)	(96,927–134,353)	(115,195–153,720)	(142,796–187,607)				
	2,708	8,849	13,569	13,347	13,672	13,431	12,253				
Drug use	(1,702–4,240)	(5,488–13,026)	(9,058–20,138)	(9,801–18,933)	(10,046–19,520)	(9,309–19,341)	(8,517–18,010)				
2.05 000	(1,704-4,440)	(3,400-13,020)	(7,030-20,138)	(2,001–10,233)	(10,040-19,520)	(2,303-13,341)	(0,517-10,010)				

Web table 1: Global deaths attributable to risk factors by age and	l sex in 2010						
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
Physiological risk factors							
i nysiologicai fisk factors	0	0	9,901	13,608	28,366	43,525	85,873
High fasting plasma glucose	(0-0)	(0-0)	(7,505–12,477)	(10,431–17,367)	(22,365–35,573)	(34,134–53,740)	(69,876–103,704)
Ingli rasing prasina gracose	0	0	4,703	7,320	18,355	32,174	54,479
High total cholesterol	(0-0)	(0-0)	(2,938–6,753)	(4,556–10,658)	(12,896–24,595)	(22,504–42,847)	(39,181–70,286)
	0	0	23,298	31,944	59,130	97,391	180,199
High blood pressure	(0-0)	(0-0)	(18,104–28,561)	(25,005–39,087)	(48,434–69,901)	(80,184–115,463)	(154,934–205,789)
	0	0	12,157	16,711	31,328	54,686	86,827
High body-mass index	(0-0)	(0-0)	(9,196–15,622)	(12,729–21,185)	(24,828–38,622)	(43,043–66,893)	(70,457–103,360)
· ,	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	0	0	35,775	55,301	93,118	169,927	271,516
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(30,556–41,618)	(47,935–63,601)	(80,632–105,415)	(148,808–190,803)	(239,838–301,992)
	0	0	19,874	29,885	49,633	90,254	141,261
Diet low in fruits	(0-0)	(0-0)	(14,870–24,853)	(22,425–37,212)	(37,410-61,376)	(68,401–111,241)	(104,788–172,610)
	0	0	9,940	14,296	22,058	37,172	55,966
Diet low in vegetables	(0-0)	(0-0)	(6,263-13,739)	(9,348-19,342)	(14,051-30,076)	(23,576-50,374)	(35,880-75,432)
	0	0	8,865	13,120	20,786	35,936	52,617
Diet low in whole grains	(0-0)	(0-0)	(6,554–11,311)	(9,625-16,912)	(15,332-26,314)	(27,093-44,622)	(39,643–65,517)
	0	0	10,840	16,990	27,525	48,363	72,155
Diet low in nuts and seeds	(0-0)	(0-0)	(7,088-14,546)	(10,851-22,591)	(17,647–37,205)	(31,724-64,208)	(46,283-95,082)
	0	0	337	515	829	1,285	2,159
Diet low in milk	(0-0)	(0-0)	(102-598)	(145-899)	(230-1,429)	(356-2,168)	(631–3,739)
	0	0	92	151	266	440	769
Diet high in red meat	(0-0)	(0-0)	(26–166)	(43–274)	(76–487)	(124-802)	(213–1,372)
	0	0	4,035	6,296	9,758	17,177	26,751
Diet high in processed meat	(0-0)	(0-0)	(825–7,543)	(1,295–11,996)	(1,931–17,999)	(3,311–33,518)	(5,612–48,323)
	0	0	1,842	2,472	3,122	4,872	6,532
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(905–2,915)	(1,060–3,650)	(1,122–5,701)	(1,546–8,733)	(2,071–10,796)
D' 1 ' 01	0	0	4,516	6,793	10,936	18,285	26,734
Diet low in fibre	(0-0)	(0-0)	(1,990–7,213)	(2,989–10,900)	(4,590–17,052)	(7,950–28,926)	(11,345–43,301)
D' (1 · · · · · · · · ·	0	0	433	651	1,038	1,577	2,606
Diet low in calcium	(0-0)	(0-0)	(307–598)	(444–892)	(735–1,436)	(1,121–2,210)	(1,914–3,501)
Diet law in confood among 2 fatty saids	0	0	7,267	11,303	18,064	31,385	46,077
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(5,020–9,668)	(7,753–15,221)	(12,431–23,928)	(22,735–41,519)	(31,792–60,511)
Diet low in polyunsaturated fatty acids	1		3,052	4,609	7,193	12,162	17,753
Diet fow in polyunsaturated ratty acids	(0-0)	(0-0)	(1,397–4,815) 3,165	(2,079–7,122) 4,813	(3,254–11,135) 7,360	(5,536–18,859) 12,476	(7,889–27,298) 18,222
Diet high in trans fatty acids	(0-0)				,	· · · · · · · · · · · · · · · · · · ·	,
Diet ingii in trans ratty acros	(0-0)	(0-0)	(2,134–4,261) 6,145	(3,184–6,401) 10,937	(5,073–9,657) 20,661	(8,723–16,506) 40,830	(12,354–23,844) 67,522
Diet high in sodium	(0-0)	(0-0)	(2,652–9,797)	(6,103–16,090)	(12,841–28,952)	(25,960–56,616)	(43,642–90,846)
2.00 mgn m oodium	0	0-0)	10,782	16,267	(12,841–28,952) 25,785	43,978	(43,642–90,846)
Physical inactivity and low physical activity	(0-0)	(0-0)	(8,408–13,430)	(12,756–20,462)	(20,122–31,785)	(33,805–54,315)	(53,040–80,452)
2 mjoseur maearray and 10 m physical activity	30,897	59,546	(8,408–13,430)	62,390	59,786	57,322	56,109
Occupational risk factors	(22,755–43,753)	(43,537–82,538)	(48,822–92,167)	(45,483–85,090)	(42,943–81,343)	(42,078–78,741)	(41,872–75,614)
	168	261	350	434	779	1,678	3,668
Occupational carcinogens	(99–245)	(152–391)	(209–519)	(270–618)	(479–1,155)	(1,059–2,442)	(2,230–5,277)
	(77-243)	(132-391)	(20)-319)	(2/0-010)	(7/)-1,133)	(1,03)-2,442)	(2,230-3,211)

Veb table 1: Global deaths attributable to risk factors by age	Males,						
isk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	78	90	96	116	175	350	761
Occupational exposure to asbestos	(35–115)	(39–133)	(39–150)	(52-170)	(86–250)	(184-500)	(382-1,092)
	0	0	3	5	15	36	83
Occupational exposure to arsenic	(0-0)	(0-0)	(1–5)	(2–10)	(5–30)	(13–68)	(31–158)
	74	139	129	112	62	70	41
Occupational exposure to benzene	(30–137)	(57–253)	(54–232)	(47–204)	(26–115)	(29-122)	(17–74)
	0	0	0	0	1	2	5
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–4)	(2-9)
	0	0	1	1	3	7	18
Occupational exposure to cadmium	(0-0)	(0-0)	(0-1)	(0-2)	(1–6)	(3–13)	(8-30)
	0	0	2	4	11	25	59
Occupational exposure to chromium	(0-0)	(0-0)	(1–3)	(2–6)	(6–17)	(14–39)	(32-89)
	0	0	28	52	154	354	827
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(13–46)	(26-85)	(79–253)	(189-569)	(445-1,288)
	0	0	26	48	142	326	763
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(14-39)	(28–70)	(80-214)	(207–463)	(479-1,055)
	16	33	34	32	23	34	22
Occupational exposure to formaldehyde	(7–28)	(13–58)	(14–61)	(13-59)	(9-49)	(10-79)	(7-54)
	0	0	9	17	50	118	278
Occupational exposure to nickel	(0-0)	(0-0)	(2–19)	(4–35)	(12–111)	(28–255)	(69–589)
Occupational exposure to polycyclic aromatic	0	0	4	8	24	57	134
hydrocarbons	(0-0)	(0-0)	(2-8)	(3–14)	(11-42)	(25–98)	(60-225)
,	0	0	20	38	113	262	613
Occupational exposure to silica	(0-0)	(0-0)	(11–32)	(22–58)	(63–177)	(162–387)	(365–878)
1	0	0	2	5	22	72	168
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(1–4)	(1-12)	(6–52)	(20–162)	(46–387)
	269	556	823	831	1,058	1,296	1,909
Occupational asthmagens	(128–576)	(287–1,166)	(465–1,587)	(465–1,684)	(573–2,264)	(713–2,485)	(1,054–4,107)
1 0	0	0	992	1,268	2,055	3,574	6,363
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(448–1,753)	(555–2,212)	(916–3,559)	(1,620-5,874)	(2,961–10,436)
7 7 7	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1	30,460	58,729	64,909	59,857	55,894	50,774	44,170
Occupational risk factors for injuries	(22,317–43,258)	(42,785–81,552)	(46,698–89,988)	(42,865–82,675)	(39,199–77,032)	(35,551–71,986)	(30,439–63,300)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,331	3,942	3,504	3,194	3,245	3,430	3,653
exual abuse and violence	(1,131–4,143)	(1,941–6,810)	(1,795–5,779)	(1,618–5,416)	(1,709–5,251)	(1,823–5,475)	(2,016–5,638)
ordan doubt and Hotelier	2,331	3,942	3,504	3,194	3,245	3,430	3,653
Childhood sexual abuse	(1,131–4,143)	(1,941–6,810)	(1,795–5,779)	(1,618–5,416)	(1,709–5,251)	(1,823–5,475)	(2,016–5,638)
Cinanood sexual abuse	(1,131–4,143)	(1,941-0,810)	(1,793–3,779)	(1,016–3,410)	(1,709–3,231)	(1,823–3,473)	(2,010–3,038)
Intimate partner violence	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 1: Global deaths attributable to risk factor	rs by age and sex in 2010)					
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	4,643	5,174	6,173	6,079	7,404	6,418	10,474
Unimproved water and sanitation	(191-9,859)	(205-10,815)	(215–13,974)	(222-13,225)	(301–16,673)	(213-14,877)	(360-23,428)
	1,405	1,503	1,786	1,762	2,022	1,755	2,714
Unimproved water source	(90-3,026)	(98-3,182)	(103-3,960)	(117-3,825)	(135-4,473)	(108-3,944)	(158-6,335)
	3,511	3,966	4,743	4,664	5,780	5,004	8,272
Unimproved sanitation	(94–7,723)	(102-8,605)	(112–11,215)	(105–10,765)	(171–13,688)	(109–12,197)	(195–19,113)
Air pollution							
•	127,169	179,124	203,822	219,748	256,499	241,632	347,525
Ambient particulate matter pollution	(93,334–161,188)	(133,821–224,895)	(152,740–252,420)	(159,663–275,644)	(180,369–322,622)	(174,831–299,398)	(255,518–430,025)
	117,956	163,376	189,482	213,555	240,190	218,172	281,368
Household air pollution from solid fuels	(78,861–164,898)	(105,929–231,404)	(125,372–260,580)	(134,464–300,639)	(144,717–346,039)	(127,765–312,619)	(163,766–417,520)
	2,735	4,794	7,585	11,113	14,821	15,922	26,374
Ambient ozone pollution	(893–5,182)	(1,565–8,890)	(2,552–14,008)	(3,720–20,128)	(5,215–26,638)	(5,458–28,654)	(8,873–47,294)
	29,378	42,285	50,140	55,910	64,110	60,171	83,904
Other environmental risks	(22,642–38,423)	(31,729–55,349)	(38,124–65,755)	(42,897–72,465)	(50,023-82,928)	(47,892–76,757)	(68,225–102,566)
	5,081	8,358	10,053	10,552	11,536	9,792	9,834
Residential radon	(638–11,274)	(1,026–19,168)	(1,288–22,176)	(1,339–23,633)	(1,533–25,026)	(1,312–21,581)	(1,413–20,831)
	24,297	33,926	40,087	45,359	52,574	50,379	74,070
Lead exposure	(19,439–30,701)	(26,936–42,244)	(32,258–49,351)	(36,636–56,025)	(42,958–64,356)	(40,932–61,397)	(61,144–89,314)
1	1,038	1,218	1,560	1,834	2,053	2,213	5,669
Child and maternal undernutrition	(679–1,398)	(811–1,603)	(1,009–2,117)	(1,133–2,440)	(1,339–2,714)	(1,416–2,854)	(3,290–6,938)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,038	1,218	1,560	1,834	2,053	2,213	5,669
Iron deficiency	(679–1,398)	(811-1,603)	(1,009-2,117)	(1,133-2,440)	(1,339-2,714)	(1,416-2,854)	(3,290-6,938)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	340,583	484,316	560,603	591,788	659,896	587,796	750,208
Tobacco smoking, including second-hand smoke	(290,889–394,217)	(408,106-554,018)	(470,087–636,632)	(486,989–678,088)	(524,301-768,322)	(443,721–680,679)	(584,726–898,656)
	330,521	469,393	541,743	569,168	629,964	558,902	704,226
Tobacco smoking	(281,007–385,490)	(392,179–543,488)	(449,871–618,366)	(464,559–654,631)	(493,901–740,028)	(414,668–653,248)	(535,667–857,500)
	10,063	14,923	18,860	22,620	29,932	28,894	45,981
Second-hand smoke	(6,905–13,086)	(10,361–19,173)	(12,927–24,632)	(15,219–29,146)	(20,314–38,702)	(19,241–37,738)	(30,872–60,348)
	203,407	217,105	199,851	127,948	140,786	120,027	167,120
Alcohol and drug use	(178,502–230,107)	(191,587–243,688)	(176,918–224,100)	(108,828–147,886)	(117,958–162,107)	(97,855–141,270)	(127,728–204,736)
	194,918	211,035	195,425	126,619	139,516	118,908	165,326
Alcohol use	(171,039–219,987)	(185,935–236,622)	(172,828–219,982)	(108,011–146,001)	(116,762–160,507)	(97,111–139,986)	(126,300–202,899)

Web table 1: Global deaths attributable to risk factor	s by age and sex in 2010						
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	9,646	7,368	5,697	1,338	1,274	1,121	1,795
Drug use	(6,828–13,328)	(5,414–9,930)	(4,242–7,827)	(652–2,672)	(763–2,784)	(648–2,534)	(973–4,305)
Physiological risk factors							
	124,691	186,995	208,525	223,154	254,236	232,021	338,164
High fasting plasma glucose	(100,351–150,143)	(151,862-221,598)	(171,068-246,530)	(184,750-262,154)	(211,791-299,949)	(192,249-272,383)	(283,419–395,815)
	82,273	106,731	117,584	116,063	137,913	117,356	166,663
High total cholesterol	(59,286–107,727)	(77,033-137,047)	(85,672–150,711)	(85,765-151,608)	(101,253-180,520)	(83,483-156,711)	(123,137-215,142)
	268,540	426,583	484,557	585,618	712,775	722,554	1,157,993
High blood pressure	(230,941–307,290)	(377,690–478,409)	(430,239-543,729)	(523,284-651,406)	(640,455-791,885)	(645,334-804,015)	(1,038,632-1,292,163)
	132,629	167,955	193,842	187,678	229,523	200,418	319,011
High body-mass index	(108,023–158,194)	(137,578–199,344)	(159,346-229,552)	(151,484-224,817)	(185,009-274,165)	(160,887-241,928)	(255,236–385,200)
	7,868	8,183	10,963	10,626	14,406	14,890	36,503
Low bone mineral density	(4,854–11,283)	(4,844–11,223)	(6,407–15,521)	(6,167-14,853)	(7,873–21,038)	(8,784-20,482)	(23,181–46,291)
•	433,011	611,106	708,224	789,537	954,955	936,138	1,511,907
Dietary risk factors and physical inactivity	(383,699–476,911)	(548,110–665,568)	(638,806–778,914)	(713,556–867,663)	(850,714–1,049,676)	(846,688–1,021,527)	(1,369,515–1,656,791)
	221,921	306,808	333,964	358,390	407,003	375,202	503,285
Diet low in fruits	(170,124–270,024)	(236,792–371,260)	(257,262–406,618)	(278,150–438,455)	(295,523–502,322)	(272,844–462,090)	(370,638–637,399)
	83,393	106,615	113,885	119,048	140,286	128,632	186,209
Diet low in vegetables	(53,760–112,043)	(69,023–144,742)	(76,781–155,547)	(78,163–163,234)	(92,862–192,202)	(85,041–176,538)	(124,383–253,499)
	77,962	102,203	110,025	113,727	133,206	122,536	172,658
Diet low in whole grains	(59,255–96,282)	(77,726–125,342)	(84,274–133,154)	(86,648–140,325)	(102,318–162,180)	(95,086–149,449)	(132,998–209,301)
	109,675	142,332	153,047	159,169	185,938	174,359	289,041
Diet low in nuts and seeds	(70,183–144,557)	(89,984–185,398)	(96,957–198,397)	(100,448–209,195)	(116,453–246,214)	(107,050–230,928)	(176,517–393,769)
	3,400	5,216	6,292	6,992	8,241	7,870	10,957
Diet low in milk	(1,006–5,768)	(1,554–9,047)	(1,831–10,723)	(2,127–11,812)	(2,471–13,859)	(2,313–13,279)	(3,230–18,335)
Diet 10 // III IIIII	1,235	1,946	2,418	2,714	3,353	3,237	4,710
Diet high in red meat	(361–2,233)	(541–3,436)	(684–4,231)	(793–4,751)	(972–5,840)	(918–5,661)	(1,291–8,329)
Diet ingn in rea mem	40,536	50,327	53,883	53,113	60,906	55,600	95,180
Diet high in processed meat	(8,515–72,767)	(10,475–91,165)	(11,743–97,852)	(11,558–95,287)	(13,767–108,416)	(12,848–98,545)	(21,363–169,670)
Diet ingn in processed meat	9,488	12,919	13,456	14,551	14,204	12,672	21,745
Diet high in sugar-sweetened beverages	(2,765–15,942)	(3,715–18,724)	(3,965–19,185)	(9,609–24,842)	(9,619–28,005)	(7,943–29,274)	(10,927–41,727)
Diet high in sugar-sweetened beverages	37,755	47,053	48,026	(9,609=24,842) 47,543	56,126	53,160	(10,927–41,727) 84,968
Diet low in fibre	(16,485–60,408)	(20,768–73,524)		(21,140–75,301)	(25,264–89,553)	(24,378–83,508)	· · · · · · · · · · · · · · · · · · ·
Diet low in note	4,134	6,486	(21,456–76,064) 7,991	9,230	11,369	11,613	(37,563–135,464) 19,285
Diet low in calcium	*	,	,	,	,	*	,
Diet low ill calcium	(2,997–5,532)	(4,640–8,563)	(5,704–10,624)	(6,428–12,326)	(7,628–15,507)	(7,674–15,935)	(11,181–29,487)
Di-41i	68,608	86,737	90,486	91,504	103,757	93,661	144,800
Diet low in seafood omega-3 fatty acids	(48,461–88,706)	(62,222–112,001)	(63,840–115,885)	(65,685–118,681)	(74,908–134,397)	(67,507–122,103)	(102,772–189,021)
Distance in a demonstrate 16 th 11	26,168	32,726	34,368	34,923	39,387	36,059	57,895
Diet low in polyunsaturated fatty acids	(12,070–40,253)	(15,236–49,530)	(15,651–53,432)	(16,067–54,284)	(17,777–61,730)	(16,485–55,115)	(26,178–89,993)
D: (1:1:)	26,272	31,702	33,647	33,098	35,765	32,683	53,885
Diet high in trans fatty acids	(18,350–34,150)	(22,154–40,481)	(23,670–42,938)	(23,492–42,316)	(25,244–46,289)	(23,432–41,909)	(38,353–69,211)
	111,331	163,777	197,482	226,880	267,488	250,981	368,837
Diet high in sodium	(73,763–148,158)	(108,009–218,045)	(130,634–261,613)	(147,417–305,091)	(173,087–361,561)	(162,689–335,386)	(229,457–500,045)
	100,659	139,523	165,031	182,714	223,250	218,553	354,459
Physical inactivity and low physical activity	(82,098–121,201)	(112,811–166,449)	(134,938–197,025)	(148,983–218,534)	(181,013–268,672)	(173,655–263,335)	(278,366–433,836)

Web table 1: Global deaths attributable to risk factor							
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	58,488	66,039	62,194	48,844	57,276	51,020	12,872
Occupational risk factors	(43,694–77,800)	(48,678–87,395)	(43,636–83,538)	(30,686–68,434)	(35,000–82,281)	(28,843–76,026)	(7,739–17,075)
	6,564	12,721	15,274	13,214	14,468	9,702	12,872
Occupational carcinogens	(4,100–9,627)	(7,642–18,595)	(9,267–21,928)	(8,021–18,305)	(8,558–20,471)	(5,787–13,270)	(7,739–17,075)
0	1,436	2,232	3,122	3,475	4,209	4,132	6,291
Occupational exposure to asbestos	(730–2,044)	(1,118–3,111)	(1,683–4,271)	(1,897–4,804)	(2,314–5,740)	(2,244–5,737)	(3,471–8,868)
	148	317	367	287	304	158	191
Occupational exposure to arsenic	(55–275)	(114–604)	(137–694)	(103–531)	(107–572)	(55–297)	(66–344)
Occupational exposure to benzene	49	80	90	141	161	210	183
Occupational exposure to benzene	(20–87)	(32–144)	(37–160)	(58–250)	(66–289)	(83–376)	(70–326)
	9	19	22	17	18	9	12
Occupational exposure to beryllium	(3–15)	(7–33)	(8–38)	(6–29)	(7–31)	(4–16)	(4–19)
	31	67	78	61	65	34	42
Occupational exposure to cadmium	(14–54)	(29–116)	(34–132)	(26–102)	(25–109)	(14–57)	(17–68)
	105	225	261	204	216	113	138
Occupational exposure to chromium	(56–161)	(120–344)	(140–396)	(109–301)	(106–320)	(54–172)	(67–205)
	1,470	3,095	3,592	2,819	2,972	1,552	1,860
Occupational exposure to diesel engine exhaust	(784–2,316)	(1,588–4,896)	(1,908–5,547)	(1,476–4,323)	(1,413–4,528)	(731–2,422)	(870–2,795)
	1,352	2,831	3,306	2,574	2,700	1,405	1,716
Occupational exposure to second-hand smoke	(799–1,867)	(1,697–3,890)	(1,970–4,512)	(1,502–3,501)	(1,500–3,643)	(759–1,925)	(897–2,310)
	25	41	38	52	47	54	34
Occupational exposure to formaldehyde	(7–62)	(12–95)	(12–80)	(18–124)	(18–99)	(20–107)	(14–64)
	497	1,063	1,231	965	1,027	537	650
Occupational exposure to nickel	(123–1,041)	(264–2,265)	(308–2,619)	(236–2,017)	(263–2,170)	(137–1,139)	(166–1,314)
Occupational exposure to polycyclic aromatic	238	509	592	463	492	257	313
hydrocarbons	(107–407)	(221–871)	(269–991)	(202–764)	(201–812)	(107–427)	(130–507)
	1,093	2,327	2,701	2,135	2,269	1,193	1,443
Occupational exposure to silica	(633–1,567)	(1,345–3,323)	(1,569–3,801)	(1,212–2,970)	(1,219–3,131)	(622-1,701)	(739–2,034)
	296	416	458	380	370	186	230
Occupational exposure to sulfuric acid	(87–661)	(117–935)	(126–1,003)	(104–843)	(100–806)	(47–412)	(59–518)
	2,550	3,308	3,397	2,897	3,351	3,120	0
Occupational asthmagens	(1,442–5,262)	(1,940–6,649)	(1,975–6,609)	(1,638–5,547)	(1,952–6,104)	(1,841–5,698)	(0–0)
	12,430	20,993	27,263	25,660	34,355	36,602	0
Occupational particulate matter, gases, and fumes	(5,571–20,280)	(9,785–33,515)	(12,603–43,581)	(11,227–42,444)	(14,711–56,196)	(16,388–59,772)	(0-0)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0–0)	(0–0)	(0-0)	(0-0)
	36,944	29,017	16,260	7,074	5,102	1,597	0
Occupational risk factors for injuries	(25,997–54,782)	(20,092–42,674)	(11,428–23,253)	(4,985–10,501)	(3,611–7,358)	(1,141–2,328)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,662	3,063	2,343	1,660	1,295	933	871
Sexual abuse and violence	(2,050–5,759)	(1,797–4,773)	(1,313–3,724)	(908–2,751)	(723–2,099)	(512–1,568)	(455–1,478)
	3,662	3,063	2,343	1,660	1,295	933	871
Childhood sexual abuse	(2,050–5,759)	(1,797–4,773)	(1,313–3,724)	(908–2,751)	(723–2,099)	(512–1,568)	(455–1,478)
	0	0	0	0	0	0	0
Intimate partner violence	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 1: Global deaths attributable to risk fac	tors by age and sex in 2010						
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	166,379	2,486	5,399	37,293	28,444	6,344	3,573
Unimproved water and sanitation	(6,690–326,989)	(115-5,121)	(247-10,811)	(1,650-71,821)	(1,255-54,936)	(231-12,717)	(125-7,544)
	56,663	964	2,021	14,344	10,853	2,141	1,143
Unimproved water source	(3,604–115,704)	(66-2,059)	(137-4,275)	(959-29,230)	(738–22,200)	(139-4,491)	(68-2,439)
	120,851	1,715	3,784	25,763	19,784	4,616	2,647
Unimproved sanitation	(3,104–242,452)	(47–3,670)	(104–7,939)	(671–51,893)	(528–39,677)	(106–9,548)	(64–5,669)
Air pollution							
_	1,373,113	6,662	6,005	27,053	17,013	0	0
Ambient particulate matter pollution	(1,187,639–1,563,793)	(3.937-10.672)	(3,584–8,867)	(18,012–37,966)	(11,236–24,454)	(0-0)	(0-0)
	1,611,730	22,596	19,501	93,432	56,881	0	0
Household air pollution from solid fuels	(1,243,516–2,027,067)	(14,681–32,927)	(13,030–26,806)	(63,350–125,781)	(39,463–77,353)	(0-0)	(0-0)
	66,100	0	0	0	0	0	0
Ambient ozone pollution	(21,362–115,225)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
I more in ozone ponunon	346,751	0	0	0	0	0	0
Other environmental risks	(281,555–413,370)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	28,978	0	0	0	0	0	0
Residential radon	(4,098–64,387)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
residential radon	317,772	0	0	0	0	0	0
Lead exposure	(265,722–376,431)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Lead exposure	698,442	0	40,772	335,794	240,002	661	662
Child and maternal undernutrition	(569,013-832,012)	(0-0)	(24,682–57,769)	(266,439–415,246)	(188,315–295,877)	(421–980)	(424–951)
Cinic and material undernutrition	251,368	0	40,772	192,774	17,822	(421–980)	(424–931)
Suboptimal breastfeeding	(155,884–359,651)	(0-0)	(24,682–57,769)	(113,804–283,795)	(1,764–39,193)	(0-0)	(0-0)
Suboptimal breastreeding	218,117	0	40,772	177,345	(1,/04–39,193)	0	0-0)
Non-exclusive breastfeeding	(126,383–319,470)	(0-0)	(24,682–57,769)	(99,818–265,103)	(0-0)	(0-0)	(0-0)
Non-exclusive bleastreeding	33,251	0	(24,082-37,769)	15,429	17,822	0	0
Discontinued breastfeeding		~	~	,	<i>'</i>	(0-0)	
Discontinued bleastreeding	(3,091–73,804)	(0-0)	(0-0)	(1,413–35,943) 214,663	(1,764–39,193) 186,815	0	(0-0)
Childhood underweight	·		(0-0)	(170,258–260,520)		(0-0)	(0-0)
Cilidiood ulidei weight	(325,516–484,452) 87,321	(0-0)	0	2,101	(147,489–233,477) 3,346	661	662
Iron deficiency	(62,505–107,021)	(0-0)	(0-0)	(1,348–3,035)	(2,190–5,010)	(421–980)	
non deficiency	56,472	0	0-0)	14,568	41,903	0	(424–951) 0
Vitamin A deficiency	· ·	*	(0-0)	(6,442–25,937)		(0-0)	(0-0)
Vitaliili A deficiency	(28,192–91,464)	(0-0)	0	(0,442-23,937)	(20,972–69,222)	0	. ,
Zinc deficiency	44,940				44,940		0
Zilic deliciency	(7,696–87,711)	(0-0)	(0-0)	(0-0)	(7,696–87,711)	(0-0)	(0-0)
Tobacco smoking, including second-hand smoke	1,790,228	6,261	5,671	27,743	15,824	0	0
100acco smoking, including second-hand smoke	(1,278,666–2,094,260)	(3,828–9,577)	(3,688–8,005)	(18,423–37,658)	(10,557–21,745)	(0-0)	(0-0)
Tobacca amolaina	1,443,924	0		0	0		0
Tobacco smoking	(920,763–1,743,849)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Casand hand amaka	346,304	6,261	5,671	27,743	15,824	0	0
Second-hand smoke	(252,702–439,439)	(3,828–9,577)	(3,688–8,005)	(18,423–37,658)	(10,557–21,745)	(0-0)	(0-0)
Alashal and dura usa	956,819	205	172	1,152	3,134	962	868
Alcohol and drug use	(793,785–1,121,300)	(124–354)	(89–283)	(691–1,709)	(1,851–4,913)	(697–1,334)	(666–1,178)
A111	911,393	102	49	443	1,902	738	611
Alcohol use	(748,254–1,076,004)	(57–213)	(24–114)	(271-725)	(1,066-3,120)	(530-1,046)	(457–803)

Web table 1: Global deaths attributable to risk fac	ctors by age and sex in 2010						
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	48,385	103	123	709	1,232	224	257
Drug use	(36,780–64,303)	(43–198)	(49-195)	(318-1,210)	(475–2,319)	(100-460)	(141-501)
Physiological risk factors							
*** 1.0 1	1,607,214	0	0	0	0	0	0
High fasting plasma glucose	(1,367,465–1,839,764)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,057,196	0	0	0	0	0	0
High total cholesterol	(793,595–1,350,633)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	4,645,279	0	0	0	0	0	0
High blood pressure	(4,198,029–5,092,003)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,738,466	0	0	0	0	0	0
High body-mass index	(1,454,008–2,036,059)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	84,146	0	0	0	0	0	0
Low bone mineral density	(57,863–102,441)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	5,717,934	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(5,274,690–6,181,117)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,064,761	0	0	0	0	0	0
Diet low in fruits	(1,593,495–2,507,876)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	779,754	0	0	0	0	0	0
Diet low in vegetables	(521,285–1,040,304)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	762,171	0	0	0	0	0	0
Diet low in whole grains	(592,879–919,709)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
•	1,082,390	0	0	0	0	0	0
Diet low in nuts and seeds	(663,158–1,441,054)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	46,858	0	0	0	0	0	0
Diet low in milk	(13,085–80,413)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	16,762	0	0	0	0	0	0
Diet high in red meat	(4,306–29,007)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2	367,296	0	0	0	0	0	0
Diet high in processed meat	(83,446–637,120)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
8	92,906	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(50,832–146,921)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Biet ingn in sugar sweetened severages	300,994	0	0	0	0	0	0
Diet low in fibre	(134,201–470,634)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet io W III liote	49,181	0	0	0	0	0	0
Diet low in calcium	(34,016–63,592)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dict low in calcium	596,246	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(437,287–764,762)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low in scarood omega-5 fatty acids	227,307	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	· ·		(0-0)			-	
Diet fow in poryunsaturated ratty acids	(108,675–350,194)	(0-0)		(0-0)	(0-0)	(0-0)	(0-0)
Diet high in tuone fetty eeide	222,173	0	0		0	0	0
Diet high in trans fatty acids	(160,511–283,740)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet high in acdium	1,371,438	0	0	0	0	0	0
Diet high in sodium	(878,780–1,834,541)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
751 1 1 2 2 2 1 1 1 1 1 1 2 2 2 2 2 2 2 2	1,636,107	0	0	0	0	0	0
Physical inactivity and low physical activity	(1,369,722–1,899,182)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 1: Global deaths attributable to risk factor							
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	102,250	0	0	0	0	0	0
Occupational risk factors	(68,744–140,097)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	25,943	0	0	0	0	0	0
Occupational carcinogens	(15,498–37,074)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	7,047	0	0	0	0	0	0
Occupational exposure to asbestos	(3,312–9,681)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	747	0	0	0	0	0	0
Occupational exposure to arsenic	(275–1,402)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,189	0	0	0	0	0	0
Occupational exposure to benzene	(434–2,156)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	49	0	0	0	0	0	0
Occupational exposure to beryllium	(19–86)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	145	0	0	0	0	0	0
Occupational exposure to cadmium	(62–245)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	570	0	0	0	0	0	0
Occupational exposure to chromium	(295–858)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
•	3,413	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(1,709–5,262)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 1	7,046	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(3,935–9,630)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	245	0	0	0	0	0	0
Occupational exposure to formaldehyde	(97–456)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,702	0	0	0	0	0	0
Occupational exposure to nickel	(743–5,679)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	993	0	0	0	0	0	0
hydrocarbons	(441–1,661)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
nydrocarbons	2.072	0	0	0	0	0	0
Occupational exposure to silica	(1,102–2,948)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to sinca	239	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(74–509)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to sulturic acid	8,352	0-0)	0	0	0	0	0
Occupational asthmagens	· · · · · · · · · · · · · · · · · · ·						
Occupational asunnagens	(4,854–13,425)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational marticulate metter access and fumas	47,311		0	0			0
Occupational particulate matter, gases, and fumes	(20,330–77,499)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0 " 1 "	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0–0)	(0-0)	(0–0)	(0-0)	(0–0)
	20,644	0	0	0	0	0	0
Occupational risk factors for injuries	(15,628–27,414)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)	(0-0)	(0-0)
	200,930	0	0	0	0	10	424
Sexual abuse and violence	(113,070–292,802)	(0-0)	(0-0)	(0-0)	(0-0)	(4–24)	(150–1,017)
	27,009	0	0	0	0	10	424
Childhood sexual abuse	(14,290–43,424)	(0-0)	(0-0)	(0-0)	(0-0)	(4–24)	(150–1,017)
	186,365	0	0	0	0	0	0
Intimate partner violence	(92,028–280,059)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 1: Global deaths attributable to risk fact	ors by age and sex in 2010)					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	3,730	4,764	4,966	4,176	3,810	3,191	3,452
Unimproved water and sanitation	(138–7,795)	(177–9,577)	(205-10,035)	(150-8,185)	(134–7,652)	(120-6,651)	(139–7,200)
•	1,260	1,656	1,792	1,512	1,342	1,096	1,097
Unimproved water source	(79–2,770)	(99–3,583)	(113–3,709)	(94–3,191)	(81–2,852)	(70–2,389)	(68–2,353)
•	2,711	3,429	3,523	2,956	2,728	2,308	2,570
Unimproved sanitation	(60–5,803)	(75–7,088)	(90-7,407)	(69–5,976)	(64–5,744)	(55–5,004)	(60–5,514)
Air pollution							
-	0	0	6,324	8,792	14,632	26,144	37,512
Ambient particulate matter pollution	(0-0)	(0-0)	(4,356–8,414)	(6,102–11,616)	(10,380–19,319)	(18,745–33,928)	(26,358–47,833)
•	0	0	8,429	11,285	18,278	31,146	44,164
Household air pollution from solid fuels	(0-0)	(0-0)	(5,790–11,082)	(8,123–15,093)	(12,863–24,314)	(21,980–41,692)	(30,827–58,644)
	0	0	166	186	317	471	856
Ambient ozone pollution	(0-0)	(0-0)	(44–370)	(50–438)	(85–652)	(139–958)	(269–1,642)
7 inforcit ozone ponutron	0	0	2,930	4,140	4,214	6,851	9,285
Other environmental risks	(0-0)	(0-0)	(1,492–4,827)	(2,201–6,491)	(2,943–7,248)	(4,824–11,623)	(7,259–11,544)
other chynomichan risks	0	0	61	134	298	696	1,222
Residential radon	(0-0)	(0-0)	(6–174)	(17–371)	(36–756)	(96–1.665)	(168–2,836)
Residential radon	0	0	2,868	4,006	3,915	6,156	8,063
Lead exposure		(0-0)	(1,424–4,719)	(2,071–6,354)	(2,743–6,932)	(4,265–10,887)	(6,340–9,888)
Lead exposure	(0–0) 5,927	12,729	12,278	10,697	9,491	5,921	3,490
Child and maternal undernutrition	,						
Cilia and maternal undernation	(3,725–8,282)	(7,754–17,080) 0	(7,130–16,544) 0	(6,167–14,564)	(5,101–13,668)	(3,524–8,211)	(2,151–4,880)
Suboptimal breastfeeding					0	0	0
Suboptimal breastreeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Non-exclusive breastfeeding			*	-	-		
Non-exclusive breastreeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Discontinued breastfeeding							
Discontinued breastreeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Childhood underweight	-		*	-	0	0	
Cilidiood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Iron deficiency	5,927	12,729	12,278	10,697	9,491	5,921	3,490
Iron deficiency	(3,725–8,282)	(7,754–17,080)	(7,130–16,544)	(6,167–14,564)	(5,101–13,668)	(3,524–8,211)	(2,151–4,880)
Vitamin A deficiency	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
7: 1-6:-:	0	0	0	0	0	0	0
Zinc deficiency	(0–0)	(0–0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	1,355	7,377	14,471	30,471	49,005
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(884–1,858)	(5,626–15,036)	(10,884–21,074)	(21,481–41,286)	(35,549–61,966)
Talasasasalina	0	0	0	5,489	11,433	25,718	41,062
Tobacco smoking	(0-0)	(0-0)	(0-0)	(3,820–13,386)	(7,715–17,768)	(16,435–36,620)	(27,671–54,764)
Carand hand amala	0	0	1,355	1,888	3,038	4,753	7,943
Second-hand smoke	(0-0)	(0-0)	(884–1,858)	(1,283–2,526)	(1,994–4,104)	(2,953–6,798)	(5,174–10,820)
A11-1 1 d	9,013	14,618	16,606	17,874	26,052	32,533	43,078
Alcohol and drug use	(7,293–11,336)	(11,943–18,335)	(13,798–19,691)	(15,051–20,885)	(21,828–36,126)	(27,632–41,440)	(37,362–52,258)
41 1 1	7,229	10,832	12,229	13,351	21,296	27,714	38,478
Alcohol use	(5,791–9,270)	(8,844–13,512)	(9,940–14,529)	(11,138–15,636)	(17,527–31,436)	(23,210–36,423)	(33,186–46,744)
D	1,806	3,839	4,446	4,600	4,886	5,034	4,966
Drug use	(1,066–2,978)	(2,360-6,094)	(3,124–6,192)	(3,332–6,351)	(3,707-6,437)	(3,627–6,687)	(3,545–6,791)

Web table 1: Global deaths attributable to risk factor	s by age and sex in 2010	0					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
Physiological risk factors							
i hysiological fisk factors	0	0	6,474	7,540	15,063	22,627	45,982
High fasting plasma glucose	(0-0)	(0-0)	(5,252–8,018)	(6,034–9,463)	(12,076–18,478)	(18,065–27,542)	(37,851–54,539)
Ingli insuing plasma gracose	0	0	1,869	2,642	6,159	10,551	21,800
High total cholesterol	(0-0)	(0-0)	(1,126–2,789)	(1,590–3,949)	(4,110–8,662)	(6,909–14,868)	(15,766–27,966)
Tingin total enotesteror	0	0	8,420	10,469	26,327	41,185	89,641
High blood pressure	(0-0)	(0-0)	(5,963–11,255)	(7,344–13,908)	(20,454–32,350)	(32,158–51,135)	(75,829–103,530)
riigii oloou pressure	0	0	7,758	9,870	21,200	29,849	55,220
High body-mass index	(0-0)	(0-0)	(6,055–9,706)	(7,656–12,434)	(16,370–26,279)	(24,150–36,073)	(45,531–66,227)
riigii oody mass maex	0	0	(0,033–9,700)	(7,030–12,434)	0	0	(43,331–60,227)
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Low bone innertal density	0	0	19,754	29,028	49,542	87,723	137,409
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(16,924–22,989)	(25,312–33,051)	(43,098–56,194)	(76,040–98,060)	(121,804–152,783)
Dictary fisk factors and physical mactivity	0	0	9,682	13,664	23,253	41,898	(121,804–132,783) 64,713
Diet low in fruits	(0-0)	(0-0)	(7,252–12,040)	(10,501–17,192)	(17,694–28,756)	(32,019–51,106)	(50,178–77,963)
Dict low in fluits	0	(0=0)	4,792	6,417	10,060	16,619	24,692
Diet low in vegetables	(0-0)	(0-0)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Diet low in vegetables	0	0	(2,916–6,661) 4,139	(3,964–8,879)	(5,953–14,020)	(10,122–23,200)	(14,432–34,010)
Diet low in whole grains	7			5,608	8,789	15,240	22,445
Diet low in whole grains	(0-0)	(0-0)	(3,026–5,421)	(4,149–7,305)	(6,413–11,209)	(11,287–19,153)	(17,072–27,543)
D' (1 ') 1 1	0	0	4,464	6,386	9,753	16,959	24,519
Diet low in nuts and seeds	(0-0)	(0-0)	(2,868–6,084)	(4,056–8,811)	(6,220–13,251)	(10,328–23,188)	(15,310–32,092)
D' . 1	0	0	271	403	694	1,178	1,840
Diet low in milk	(0-0)	(0-0)	(72–493)	(114–702)	(180–1,221)	(341–2,067)	(503–3,171)
B	0	0	61	103	197	348	578
Diet high in red meat	(0-0)	(0-0)	(16–110)	(27–189)	(50–373)	(93–623)	(147–1,004)
	0	0	1,750	2,493	3,675	6,458	9,525
Diet high in processed meat	(0-0)	(0-0)	(412–3,512)	(602–4,896)	(899–7,009)	(1,538–12,319)	(2,322–17,462)
	0	0	991	1,253	1,541	2,159	2,627
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(461–1,497)	(537–1,872)	(637–3,139)	(800–4,780)	(1,054–5,635)
	0	0	1,701	2,365	3,758	6,258	8,984
Diet low in fibre	(0-0)	(0-0)	(785-2,704)	(1,089-3,661)	(1,741-5,866)	(2,847–9,811)	(4,086–14,025)
	0	0	333	486	828	1,378	2,088
Diet low in calcium	(0-0)	(0-0)	(206–477)	(319–678)	(545–1,193)	(963–1,934)	(1,449–2,854)
	0	0	2,997	4,261	6,414	11,036	15,690
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(2,076-4,114)	(2,913-5,886)	(4,504–8,753)	(7,431–15,296)	(10,737–20,786)
	0	0	1,261	1,758	2,615	4,327	6,093
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(622-1,957)	(822-2,746)	(1,239-4,140)	(2,046-6,804)	(2,901-9,422)
	0	0	1,485	2,079	3,035	5,026	7,029
Diet high in trans fatty acids	(0-0)	(0-0)	(1,019-2,075)	(1,387-2,832)	(2,057-4,136)	(3,366-6,826)	(4,945–9,257)
	0	0	4,564	6,799	11,087	20,689	30,798
Diet high in sodium	(0-0)	(0-0)	(2,421-6,438)	(4,359-8,966)	(6,854–16,159)	(12,985-28,816)	(20,167–40,915)
	0	0	6,934	10,326	17,117	28,749	44,269
Physical inactivity and low physical activity	(0-0)	(0-0)	(5,613-8,381)	(8,474–12,526)	(13,979-20,744)	(23,345-34,600)	(36,957–51,317)
	1,767	2,889	3,576	3,568	4,241	4,962	6,308
Occupational risk factors	(1,393-2,224)	(2,281-3,687)	(2,786-4,484)	(2,812-4,489)	(3,236-5,542)	(3,697-6,500)	(4,559-8,520)
	75	148	185	247	349	686	1,228
Occupational carcinogens	(41–122)	(72–248)	(102-300)	(138-391)	(201-534)	(392-1,035)	(689-1,910)

Web table 1: Global deaths attributable to risk factor	rs by age and sex in 201	0					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	24	27	31	42	70	130	242
Occupational exposure to asbestos	(10–38)	(10–43)	(11–48)	(17–65)	(29–109)	(57–202)	(107-357)
	0	0	1	3	9	20	40
Occupational exposure to arsenic	(0-0)	(0-0)	(0-3)	(1-8)	(3–18)	(7–40)	(14-83)
	43	102	101	104	56	66	34
Occupational exposure to benzene	(16-85)	(35–196)	(38–193)	(39–192)	(21-107)	(24–126)	(13–65)
	0	0	0	0	1	1	3
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–5)
	0	0	0	1	2	4	8
Occupational exposure to cadmium	(0-0)	(0-0)	(0-1)	(0-1)	(1-3)	(2–7)	(3–14)
	0	0	1	2	7	15	31
Occupational exposure to chromium	(0-0)	(0-0)	(0-2)	(1–5)	(3–12)	(7–25)	(14–51)
	0	0	7	15	40	91	185
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(3-14)	(6–29)	(18–70)	(42-150)	(84–306)
	0	0	14	32	83	189	380
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(6–27)	(14–55)	(41-134)	(93-281)	(191-574)
	7	19	19	23	14	18	10
Occupational exposure to formaldehyde	(3–14)	(7–39)	(7-37)	(9–46)	(5–28)	(7–40)	(4–23)
	0	0	5	12	32	73	145
Occupational exposure to nickel	(0-0)	(0-0)	(1–13)	(3–31)	(8-71)	(19–158)	(36–330)
Occupational exposure to polycyclic aromatic	0	0	2	4	12	26	53
hydrocarbons	(0-0)	(0-0)	(1-4)	(2-9)	(5–22)	(11–47)	(22–95)
-	0	0	4	9	24	56	112
Occupational exposure to silica	(0-0)	(0-0)	(2-8)	(4–17)	(11–41)	(27–86)	(53–176)
	0	0	1	1	3	6	14
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-3)	(0-5)	(1-10)	(2-19)	(4–40)
	89	184	242	274	431	544	751
Occupational asthmagens	(44–173)	(99-322)	(131–465)	(159-500)	(236-815)	(309–960)	(441-1,292)
	0	0	390	465	868	1,341	2,291
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(152–743)	(181-894)	(365-1,565)	(584–2,260)	(980-3,839)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,603	2,557	2,759	2,581	2,593	2,392	2,038
Occupational risk factors for injuries	(1,240-2,060)	(1,958-3,357)	(2,076-3,625)	(1,959-3,426)	(1,839-3,657)	(1,727-3,275)	(1,464-2,863)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	20,401	25,013	21,106	17,197	16,965	15,812	13,549
Sexual abuse and violence	(9,975–37,077)	(14,521-39,410)	(12,143-31,964)	(10,674–25,864)	(9,636-26,190)	(8,342-25,389)	(7,115-21,718)
	3,877	3,220	2,419	1,875	1,957	2,065	1,886
Childhood sexual abuse	(1,610–7,358)	(1,357–6,413)	(968–4,772)	(858–3,441)	(962–3,610)	(986–3,606)	(981–3,290)
	18,330	23,487	19,975	16,304	15,987	14,732	12,498
Intimate partner violence	(7,592–34,410)	(12,704–37,565)	(10,948–30,924)	(9,629–25,166)	(8,588–25,315)	(7,145–24,077)	(5,857–20,668)

Web table 1: Global deaths attributable to risk factors by age and sex in 2010								
	Females,	Females,	Females,	Females,	Females,	Females,	Females,	
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years	
	3,507	4,584	6,789	8,060	9,743	8,486	13,580	
Unimproved water and sanitation	(135–7,131)	(178-9,782)	(261-15,046)	(289–17,911)	(341–21,616)	(293–18,744)	(495–30,827)	
	1,131	1,359	1,943	2,324	2,647	2,352	3,688	
Unimproved water source	(76–2,350)	(86-3,112)	(121-4,244)	(144-5,158)	(165-6,051)	(151-5,513)	(249-8,731)	
	2,598	3,495	5,238	6,201	7,623	6,594	10,569	
Unimproved sanitation	(59–5,440)	(91–7,591)	(134–12,007)	(145–14,500)	(177–18,175)	(157–15,364)	(259–24,379)	
A : 114:								
Air pollution	57.425	05.025	100 220	120 (10	101.045	200.044	460 400	
Ambient mentionlete metter mellution	57,425	85,035	108,320	130,618	181,045	200,044	460,488	
Ambient particulate matter pollution	(41,754–72,933)	(60,200–107,199)	(77,266–135,979)	(92,940–167,006)	(126,943–231,999)	(140,821–250,730)	(337,477–580,439)	
Household air nollytion from solid fixels	67,773	101,884	133,479	169,246	218,848	222,800	391,989	
Household air pollution from solid fuels	(48,078–89,514)	(70,341–134,028)	(94,887–172,988)	(117,129–224,928)	(156,124–294,731)	(156,816–302,382)	(266,670–542,900)	
	1,581	3,268	5,162	7,522	10,485	11,283	24,803	
Ambient ozone pollution	(492–2,931)	(1,045–6,038)	(1,693–9,362)	(2,289–13,380)	(3,594–18,874)	(3,637–19,672)	(8,093–43,780)	
	14,664	21,671	28,251	35,771	48,358	53,364	117,253	
Other environmental risks	(11,312–18,541)	(16,734–27,078)	(22,004–35,034)	(27,987–44,090)	(38,326–58,297)	(43,479–64,131)	(97,713–138,456)	
	1,998	2,965	3,494	3,849	4,362	4,104	5,796	
Residential radon	(267–4,503)	(446–6,775)	(477–7,851)	(553–8,534)	(630–9,719)	(597–9,477)	(841–12,628)	
	12,667	18,705	24,757	31,922	43,996	49,261	111,457	
Lead exposure	(10,084–15,740)	(14,803–22,995)	(19,567–30,656)	(25,388–38,746)	(35,574–53,522)	(40,632–59,366)	(93,568–131,295)	
	970	1,262	1,515	1,945	2,412	2,625	9,287	
Child and maternal undernutrition	(593–1,347)	(784–1,786)	(884–2,190)	(1,187–2,673)	(1,448-3,434)	(1,603-3,584)	(5,060–11,505)	
	0	0	0	0	0	0	0	
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
	0	0	0	0	0	0	0	
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
	0	0	0	0	0	0	0	
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
	0	0	0	0	0	0	0	
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
	970	1,262	1,515	1,945	2,412	2,625	9,287	
Iron deficiency	(593–1,347)	(784-1,786)	(884–2,190)	(1,187–2,673)	(1,448–3,434)	(1,603–3,584)	(5,060–11,505)	
	0	0	0	0	0	0	0	
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
	0	0	0	0	0	0	0	
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
L	81,527	125,867	160,422	190,869	246,208	248,759	578,398	
Tobacco smoking, including second-hand smoke	(58,407–99,252)	(86,791–152,681)	(109,569–196,491)	(130,302–232,985)	(165,198–300,762)	(172,774–305,633)	(400,221–706,393)	
m t	69,604	108,520	138,436	163,985	205,895	203,049	470,733	
Tobacco smoking	(45,707–88,034)	(68,746–135,985)	(87,904–175,041)	(102,955–206,504)	(120,895–262,006)	(124,842–259,895)	(286,180–604,292)	
	11,923	17,347	21,986	26,885	40,313	45,709	107,665	
Second-hand smoke	(7,841–15,937)	(11,807–22,925)	(14,792–29,227)	(18,196–35,586)	(27,273–52,548)	(30,274–60,823)	(71,506–142,506)	
A1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56,230	72,893	78,814	64,867	105,276	114,379	298,094	
Alcohol and drug use	(48,581–66,205)	(62,769–83,962)	(66,619–91,495)	(53,048–77,372)	(84,138–126,162)	(88,673–139,377)	(214,905–375,700)	
A11-1	52,432	69,889	76,430	63,998	104,189	113,500	295,980	
Alcohol use	(45,230–61,650)	(59,867–81,308)	(64,371–89,160)	(52,250–76,490)	(83,167–125,192)	(87,443–138,629)	(212,915–372,663)	

Web table 1: Global deaths attributable to risk factors by age and sex in 2010								
	Females,	Females,	Females,	Females,	Females,	Females,	Females,	
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years	
	4,344	3,711	3,156	869	1,088	879	2,114	
Drug use	(3,035-5,958)	(2,744-5,110)	(2,349–4,258)	(494–1,551)	(651–2,189)	(515–1,938)	(1,128–4,656)	
Physiological risk factors								
, ,	67,635	114,914	145,569	186,130	243,384	247,973	503,923	
High fasting plasma glucose	(56,488–79,349)	(96,324–133,740)	(123,753–169,138)	(158,353–213,675)	(203,465–282,235)	(208,862–286,273)	(414,700–592,123)	
	33,880	56,716	75,072	96,268	149,481	163,406	439,351	
High total cholesterol	(24,693–44,096)	(41,619–73,392)	(55,033–96,397)	(71,356–122,348)	(105,469–195,643)	(111,285–222,797)	(327,337–564,641)	
	131,356	228,153	290,500	416,112	614,059	756,965	2,032,092	
High blood pressure	(112,301–151,628)	(199,085–259,018)	(252,602–328,236)	(369,785–465,935)	(549,023–679,958)	(679,733–836,440)	(1,841,487–2,237,161)	
	79,502	116,690	148,901	164,720	232,758	247,305	624,692	
High body-mass index	(65,950–93,692)	(97,825–137,894)	(124,337–175,485)	(136,650–194,766)	(194,325–272,889)	(204,651–291,020)	(512,182–745,578)	
	2,930	3,650	4,607	6,095	7,959	12,969	45,936	
Low bone mineral density	(1,831–4,304)	(2,306–5,343)	(2,674–6,397)	(3,579–8,755)	(4,983–11,332)	(7,974–17,760)	(30,059–58,224)	
	211,496	310,010	398,089	508,067	746,163	873,989	2,346,662	
Dietary risk factors and physical inactivity	(188,805–234,418)	(274,986–341,814)	(355,004–437,250)	(456,433–562,338)	(672,252–811,703)	(795,286–957,571)	(2,138,741–2,542,228)	
breaty fish factors and physical macrific	98,218	140,395	169,186	209,417	287,863	319,327	687,145	
Diet low in fruits	(76,969–117,972)	(107,273–169,846)	(129,005–206,243)	(157,619–257,561)	(218,620–353,425)	(241,294–390,398)	(516,079–850,939)	
Diet low in muits	35,865	48,153	57,952	71,827	105,024	116,535	281,817	
Diet low in vegetables	(21,886–49,915)	(30,025–66,665)	(36,345–79,166)	(46,431–98,661)	(68,610–143,438)	(77,801–158,683)	(184,421–380,003)	
Dict low in vegetables	33,151	47,277	58,632	70,786	104,364	117,011	274,729	
Diet low in whole grains	(25,423–40,772)		(44,657–72,263)	(53,531–87,165)			· ·	
Diet low iii whole grains		(35,871–58,352)			(80,633–127,346)	(90,363–143,152)	(212,007–334,088)	
Diet low in nuts and seeds	38,222	56,541	74,114	93,075	140,671	159,567	458,118	
Diet low in nuts and seeds	(23,792–51,472)	(35,874–75,981)	(45,840–99,840)	(57,749–124,755)	(85,820–188,734)	(96,493–215,975)	(269,369–620,556)	
Di-+1iill-	2,796	3,848	4,434	4,848	6,300	6,558	13,687	
Diet low in milk	(760–4,923)	(1,103–6,633)	(1,188–7,741)	(1,402–8,470)	(1,756–10,817)	(1,848–11,366)	(3,669–23,775)	
D' (1' 1 ' 1 ')	888	1,268	1,483	1,651	2,267	2,443	5,476	
Diet high in red meat	(238–1,565)	(339–2,255)	(398–2,671)	(440–2,831)	(595–4,040)	(635–4,277)	(1,425–9,607)	
B: .1: 1 .	14,536	20,494	25,699	30,583	45,998	51,185	154,901	
Diet high in processed meat	(3,468–25,331)	(4,728–36,834)	(5,770–46,990)	(6,567–56,707)	(9,807–82,741)	(11,258–89,165)	(32,715–276,901)	
	3,578	6,019	6,999	10,194	11,998	12,611	32,935	
Diet high in sugar-sweetened beverages	(1,353–7,805)	(1,808–10,791)	(2,095–12,347)	(3,054–15,757)	(3,770–19,219)	(7,883–26,552)	(14,319–63,180)	
	12,914	17,843	21,262	24,825	37,514	43,364	120,206	
Diet low in fibre	(5,988–20,052)	(8,341–27,800)	(9,765–33,121)	(11,129–38,536)	(16,120–58,667)	(19,051–69,598)	(52,024–192,523)	
	3,144	4,317	4,887	5,288	6,729	6,874	12,829	
Diet low in calcium	(2,134–4,235)	(2,973–5,781)	(3,434–6,694)	(3,602-6,914)	(4,473–8,893)	(4,620–9,215)	(8,397–17,105)	
	23,992	34,709	44,236	54,071	79,760	87,068	232,013	
Diet low in seafood omega-3 fatty acids	(17,166–31,617)	(24,646–45,449)	(30,742–58,023)	(39,071–71,287)	(56,517–104,548)	(62,937–112,822)	(168,478–302,019)	
	9,261	13,078	16,664	20,371	29,278	32,228	90,373	
Diet low in polyunsaturated fatty acids	(4,273–14,462)	(6,216-20,307)	(7,846–26,199)	(9,797-32,203)	(14,190-45,277)	(15,524-50,067)	(43,377–139,868)	
	10,272	13,656	17,505	20,503	27,785	30,009	83,790	
Diet high in trans fatty acids	(7,303–13,460)	(9,501-17,727)	(12,420-23,186)	(14,659–27,234)	(20,107-35,930)	(21,757–38,665)	(59,976-110,691)	
	40.604	75,728	101,361	133,809	191,317	215,957	529,725	
	49,604	13,120	101,501					
Diet high in sodium	(31,904–66,372)	(48,395–100,466)	(65,825–136,225)	(85,558–178,162)	(121,105–256,653)	(136,932–290,228)	(332,411–719,833)	
Diet high in sodium	· ·					(136,932–290,228) 242,807	(332,411–719,833) 643,960	

Web table 1: Global deaths attributable to risk factor Risk	Females, 50-54 Years	Females, 55-59 Years	Females, 60-64 Years	Females, 65-69 Years	Females, 70-74 Years	Females, 75-79 Years	Females, 80+ Years
Occupational risk factors	(5,663–11,378)	(7,700-17,535)	(8,340-21,119)	(5,946–15,561)	(7,324–19,977)	(6,608-18,556)	(2,596-6,548)
	1,869	3,398	3,837	3,136	3,682	2,455	4,648
Occupational carcinogens	(1,098–2,777)	(1,977-5,209)	(2,182-5,776)	(1,835–4,579)	(2,010-5,389)	(1,391-3,465)	(2,596-6,548)
	379	527	674	739	927	986	2,249
Occupational exposure to asbestos	(167–558)	(232-760)	(306–940)	(342-1,028)	(402-1,300)	(447-1,398)	(1,075-3,110)
	62	122	132	97	112	55	93
Occupational exposure to arsenic	(23–121)	(44–238)	(48–261)	(37–185)	(37–219)	(19–107)	(29–185)
	37	61	66	98	112	149	159
Occupational exposure to benzene	(13–70)	(23–116)	(24–123)	(34–175)	(39–205)	(53–276)	(54–296)
	4	8	9	6	7	4	6
Occupational exposure to beryllium	(2–7)	(3–14)	(3–16)	(2–12)	(2–14)	(1–7)	(2–12)
	12	23	26	19	22	11	19
Occupational exposure to cadmium	(5–21)	(10–42)	(11–45)	(8–33)	(8–38)	(4–19)	(6–33)
	46	92	100	74	86	42	73
Occupational exposure to chromium	(23–74)	(47–150)	(49–160)	(36–116)	(40–139)	(17–67)	(28–120)
1	285	555	613	444	508	245	425
Occupational exposure to diesel engine exhaust	(144–450)	(283–903)	(298–984)	(223–702)	(232–817)	(105-392)	(167–691)
1 1	585	1,134	1,259	921	1,047	511	892
Occupational exposure to second-hand smoke	(314–852)	(651–1,636)	(692–1,867)	(494–1,312)	(538–1,506)	(235–727)	(384–1,322)
· · · · · · · · · · · · · · · · · · ·	10	16	16	22	22	27	20
Occupational exposure to formaldehyde	(4–21)	(6–34)	(6–31)	(8–46)	(8–43)	(10–53)	(8–39)
	220	434	472	351	411	203	346
Occupational exposure to nickel	(58–466)	(114–954)	(124–1,049)	(95–748)	(104–892)	(51–447)	(80–755)
Occupational exposure to polycyclic aromatic	81	160	175	129	150	73	127
hydrocarbons	(36–140)	(69–281)	(76–304)	(57–222)	(58–262)	(29–128)	(46–224)
nyurocurbons	171	337	367	269	312	152	260
Occupational exposure to silica	(86–253)	(184–515)	(186–550)	(138–403)	(153–468)	(65–230)	(105–404)
o confinment in families in annual	21	36	46	29	37	16	27
Occupational exposure to sulfuric acid	(6–53)	(11–79)	(14–113)	(9–68)	(11–88)	(5–39)	(9–59)
occupational enposare to surraire actu	880	1,111	1,148	838	938	924	0
Occupational asthmagens	(503–1,486)	(629–1,945)	(650–1,946)	(466–1,362)	(494–1,555)	(505–1,495)	(0-0)
ovenpational astimagens	3,878	6,586	8,666	6,065	8,180	8,582	0
Occupational particulate matter, gases, and fumes	(1,727–6,377)	(2,939–11,014)	(3,681–14,646)	(2,423–10,515)	(3,298–14,055)	(3,597–14,666)	(0-0)
Goodparional particulate matter, gases, and rames	0	0	0	0	0	(3,377-14,000)	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,667	1,191	722	266	208	67	0
Occupational risk factors for injuries	(1,202–2,342)	(839–1,673)	(514–1.037)	(194–364)	(156–285)	(50–90)	(0-0)
occupational risk factors for injuries	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2 - 2 - F - Storial 10 11 Cuton Pulli	13,028	11,793	10,396	8,976	9,034	7,074	10,150
exual abuse and violence	(6,132–21,732)	(5,363–19,619)	(4,468–17,432)	(3,748–15,822)	(3,903–15,053)	(3,007–11,629)	(4,114–18,123)
endar acuse and victories	1,982	1,796	1,534	1,234	1,114	752	864
Childhood sexual abuse	(1,000–3,338)	(926–3,097)	(763–2,601)	(617–2,165)	(564–1,940)	(391–1,211)	(463–1,456)
Cinidilood sexual abuse	11,896	10,741	9,510	8,269	8,395	6,628	9,613
Intimate partner violence	(4,891–20,523)	(3,973–18,753)	(3,537–16,855)	(2,925–14,994)	(3,058–14,562)	(2,454–11,276)	(3,366–17,719)

0 indicates zero deaths attributable; blank cells indicate that attributable deaths were not quantified

Web table 2: Global deaths attributable to risk factors by age and sex in 1990								
Risk	Both Sexes, All Ages	Both Sexes, 0-6 Days	Both Sexes, 7-27 Days	Both Sexes, 28-364 Days	Both Sexes, 1-4 Years	Both Sexes, 5-9 Years	Both Sexes, 10-14 Years	
	715,873	17,771	42,728	219,855	194,805	29,200	13,106	
Unimproved water and sanitation	(36,817-1,279,220)	(826–33,218)	(2,121-78,066)	(11,268-399,959)	(10,602-346,367)	(1,267-54,277)	(532-25,603)	
	288,007	7,022	16,946	89,307	81,593	11,269	5,156	
Unimproved water source	(20,641–553,293)	(489–13,858)	(1,203-33,450)	(6,410–174,117)	(6,018–156,438)	(755–22,425)	(317–10,611)	
	496,986	12,455	29,840	151,513	133,071	20,640	9,173	
Unimproved sanitation	(15,380–927,845)	(352–24,427)	(935–56,760)	(4,667–286,363)	(4,327–244,813)	(556–39,887)	(223–18,288)	
Air pollution								
_	2,910,161	33,776	35,358	143,102	96,652	0	0	
Ambient particulate matter pollution	(2,546,184–3,286,508)	(22,354–46,596)	(24,180–47,687)	(98,396–187,600)	(66,168–129,364)	(0-0)	(0-0)	
•	4,473,490	117,132	124,367	498,302	354,274	0	0	
Household air pollution from solid fuels	(3,651,253–5,206,632)	(82,781–149,934)	(89,432–156,785)	(362,730–617,439)	(261,142–450,145)	(0-0)	(0-0)	
	143,362	0	0	0	0	0	0	
Ambient ozone pollution	(47,539–251,885)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
7 millionent ozone ponduon	209,923	0	0	0	0	0	0	
Other environmental risks	(177,673–243,565)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
Culci cirrioimental lisks	(177,073-243,303)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
Residential radon								
	209,923	0	0	0	0	0	0	
Lead exposure	(177,673–243,565)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
	3,473,589	0	246,308	1,659,270	1,425,820	2,473	1,938	
Child and maternal undernutrition	(2,906,896–4,175,138)	(0-0)	(157,743–329,587)	(1,384,576–1,950,609)	(1,144,769–1,821,093)	(1,980-3,165)	(1,585–2,447)	
	1,275,024	0	246,308	940,270	88,447	0	0	
Suboptimal breastfeeding	(802,142–1,772,745)	(0-0)	(157,743–329,587)	(575,278–1,339,060)	(9,386–189,574)	(0-0)	(0-0)	
	1,117,908	0	246,308	871,600	0	0	0	
Non-exclusive breastfeeding	(663,274–1,576,633)	(0-0)	(157,743–329,587)	(507,872–1,252,531)	(0-0)	(0-0)	(0-0)	
	157,117	0	0	68,670	88,447	0	0	
Discontinued breastfeeding	(16,188–341,702)	(0-0)	(0-0)	(6,776–155,318)	(9,386–189,574)	(0-0)	(0-0)	
	2,263,952	0	0	1,119,425	1,144,527	0	0	
Childhood underweight	(1,927,356–2,735,821)	(0-0)	(0-0)	(961,173–1,312,738)	(948,571–1,435,911)	(0-0)	(0-0)	
	168,084	0	0	9,145	16,748	2,473	1,938	
Iron deficiency	(130,444–197,085)	(0-0)	(0-0)	(7,484–11,400)	(12,913-21,800)	(1,980-3,165)	(1,585-2,447)	
	349,354	0	0	88,182	261,172	0	0	
Vitamin A deficiency	(170,504–632,149)	(0-0)	(0-0)	(40,749–151,034)	(126,837-493,664)	(0-0)	(0-0)	
	275,590	0	0	0	275,590	0	0	
Zinc deficiency	(51,274–529,451)	(0-0)	(0-0)	(0-0)	(51,274–529,451)	(0-0)	(0-0)	
	5,329,808	36,885	39,798	168,688	107,912	0	0	
Tobacco smoking, including second-hand smoke	(4,778,526–6,049,296)	(24,959–49,513)	(27,347–52,915)	(118,669-217,894)	(75,419–141,843)	(0-0)	(0-0)	
	4,576,298	0	0	0	0	0	0	
Tobacco smoking	(4,068,753–5,312,438)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
	753,510	36,885	39,798	168,688	107,912	0	0	
Second-hand smoke	(585,131–912,313)	(24,959-49,513)	(27,347-52,915)	(118,669-217,894)	(75,419–141,843)	(0-0)	(0-0)	
	2,047,814	411	341	1,640	6,162	3,226	2,633	
Alcohol and drug use	(1,831,313-2,270,020)	(265–667)	(184-568)	(1,049-2,827)	(3,654-9,600)	(2,456-4,181)	(2,110-3,298)	
	1,988,502	225	121	910	4,423	2,789	2,252	
Alcohol use	(1,772,115–2,214,916)	(152–344)	(68–222)	(585-1,293)	(2,624–6,735)	(2,171-3,418)	(1,824–2,705)	

Web table 2: Global deaths attributable to risk	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
KISK	68.577	186	220	730	1,739	437	381
Deng uga							
Drug use	(50,706–102,395)	(73–434)	(84–424)	(336–1,738)	(588–3,615)	(196–935)	(205-826)
Physiological risk factors	2404474	•		•	2	0	0
III-1- f	2,104,174	0	0	0	0	0	0
High fasting plasma glucose	(1,797,633–2,401,170)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
High total abalactoral	1,945,920	0	0	0	0	0	0
High total cholesterol	(1,625,929–2,318,054)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
II:-b-b1d	7,293,185	0	0	0	0	0	0
High blood pressure	(6,701,203–7,859,894)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
*** 1 1 1 1 1 1	1,963,549	0	0	0	0	0	0
High body-mass index	(1,590,282–2,345,133)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	103,270	0	0	0	0	0	0
Low bone mineral density	(90,672–124,230)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	8,370,343	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(7,738,620–9,000,836)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,667,202	0	0	0	0	0	0
Diet low in fruits	(2,870,267–4,394,152)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,454,057	0	0	0	0	0	0
Diet low in vegetables	(978,665–1,924,334)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,230,276	0	0	0	0	0	0
Diet low in whole grains	(958,136–1,489,812)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,914,209	0	0	0	0	0	0
Diet low in nuts and seeds	(1,216,363–2,487,874)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	68,150	0	0	0	0	0	0
Diet low in milk	(20,479–114,435)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	26,439	0	0	0	0	0	0
Diet high in red meat	(7,374–45,232)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	731,675	0	0	0	0	0	0
Diet high in processed meat	(158,044–1,257,423)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	141,316	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(89,249–191,574)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	584,144	0	0	0	0	0	0
Diet low in fibre	(260,065–914,729)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	82,305	0	0	0	0	0	0
Diet low in calcium	(57,324–108,535)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,043,085	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(757,418–1,327,627)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	448,065	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(213,262–687,396)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
* * * * * * * * * * * * * * * * * * *	367,461	0	0	0	0	0	0
Diet high in trans fatty acids	(265,936–467,609)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2.00 mgn in dans rady doids	2,245,355	0	0	0	0	0	0
Diet high in sodium	(1,459,900–2,966,107)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet ingii in soutum	(1,439,900-2,900,107)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Physical inactivity and low physical activity							
justilities in projection delivity							

	rs by age and sex in 1990 Both Sexes,	Both Sexes,					
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
ion	811.146	0-0 Days	()	()	0	0	0
ecupational risk factors	(623,674–1,010,107)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
ecupational fish factors	72,073	0	0	0	0	0	0
Occupational carcinogens	(50,753–101,233)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational careinogens	23,057	0	0	0	0	0	0
Occupational exposure to asbestos	(16,939–33,009)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to aspestos	1,618	0	0	0	0	0	0
Occupational exposure to arsenic	(622–3,039)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to arseine	1,764	0	0	0	0	0	0
Occupational exposure to benzene	(741–3,085)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to belizelie	87	0	0=0)	0	0	0	0=0)
Occupational exposure to beryllium	(35–152)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to berymum	()	0	0	0	0	0	(0=0)
Occupational exposure to cadmium	288			-			
Occupational exposure to caumum	(131–494)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to chromium	1,022	0	0	0	0	0	0
Occupational exposure to chromium	(618–1,578)	(0–0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0	13,040	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(7,494–20,486)	(0–0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0 2 1 1 1 1	14,025	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(10,058–19,715)	(0–0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	478	0	0	0	0	0	0
Occupational exposure to formaldehyde	(202–877)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	5,004	0	0	0	0	0	0
Occupational exposure to nickel	(1,331–10,489)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
Occupational exposure to polycyclic aromatic	2,130	0	0	0	0	0	0
hydrocarbons	(1,018–3,613)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	9,056	0	0	0	0	0	0
Occupational exposure to silica	(6,140–13,213)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,157	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(626–4,707)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	42,151	0	0	0	0	0	0
Occupational asthmagens	(24,425–76,872)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	275,647	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(121,774–429,427)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	421,275	0	0	0	0	0	0
Occupational risk factors for injuries	(329,209-529,004)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
exual abuse and violence							
Childhandannalahura							
Childhood sexual abuse							
Intimate partner violence							

Web table 2: Global deaths attributable to risk fact	ors by age and sex in 199	0					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
TT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12,049	12,853	12,264	11,674	11,779	10,046	10,688
Unimproved water and sanitation	(509–23,339)	(542–24,456)	(571–22,729)	(558–21,649)	(586–21,456)	(513–18,727)	(519–19,733)
Unimproved victor course	4,692	4,994	4,866	4,630	4,656	3,981	4,159
Unimproved water source	(291–9,705) 8,480	(325–10,180) 9,066	(333–9,712) 8,581	(314–9,339)	(348–9,216)	(280–7,901) 7,039	(292–8,295) 7,546
Unimproved sanitation	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	*	8,170	8,261	,	,
Chimproved saintation	(229–17,060)	(233–17,768)	(249–16,473)	(237–15,677)	(236–15,510)	(225–13,576)	(223–14,364)
Air pollution							
	0	0	19,248	28,721	43,844	64,245	87,913
Ambient particulate matter pollution	(0-0)	(0-0)	(13,867-24,255)	(20,924–36,166)	(33,276-54,539)	(47,989–80,521)	(64,269–109,905)
	0	0	26,694	38,487	57,908	82,424	115,005
Household air pollution from solid fuels	(0-0)	(0-0)	(20,382-33,100)	(29,073-48,311)	(44,018-72,330)	(61,883-102,954)	(88,202-143,054)
	0	0	421	537	1,015	1,426	2,458
Ambient ozone pollution	(0-0)	(0-0)	(131–787)	(170-974)	(335-1,809)	(463–2,578)	(770-4,394)
	0	0	3,972	5,517	5,149	7,487	9,796
Other environmental risks	(0-0)	(0-0)	(2,302-5,983)	(3,427-8,050)	(4,172–6,423)	(6,118-9,126)	(8,188–11,561)
Residential radon							
residential radon	0	0	3.972	5,517	5,149	7,487	9.796
Lead exposure	(0-0)	(0-0)	(2,302–5,983)	(3,427–8,050)	(4,172–6,423)	(6,118–9,126)	(8,188–11,561)
Zeud enposure	11,849	20,318	19,509	18,061	17,815	10,757	6,571
Child and maternal undernutrition	(7,588–16,505)	(13,233–26,859)	(12,128–25,790)	(11,216–24,436)	(11,054–24,324)	(6,831–14,642)	(4,352–8,788)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	11,849	20,318	19,509	18,061	17,815	10,757	6,571
Iron deficiency	(7,588–16,505)	(13,233-26,859)	(12,128-25,790)	(11,216-24,436)	(11,054-24,324)	(6,831-14,642)	(4,352-8,788)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	2,924	47,099	83,033	146,825	202,975
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(1,962-3,854)	(38,064–59,477)	(60,024–108,116)	(119,044–176,845)	(176,778–237,267)
	0	0	0	42,982	78,401	140,411	193,041
Tobacco smoking	(0-0)	(0-0)	(0-0)	(33,786–55,663)	(54,782–103,406)	(112,140–170,963)	(165,969–225,985)
	0	0	2,924	4,118	4,632	6,414	9,934
Second-hand smoke	(0-0)	(0-0)	(1,962–3,854)	(2,819–5,366)	(3,039–6,391)	(4,157–8,995)	(6,400–13,535)
41 1 1 11	43,734	67,569	74,767	82,817	124,139	128,044	137,152
Alcohol and drug use	(37,474–51,304)	(57,944–79,274)	(65,263–88,401)	(72,743–94,537)	(109,423–142,782)	(114,364–144,912)	(122,555–153,181)
Alcohol use	40,912	60,761	66,440	74,981	117,504	122,930	133,052
AICOHOI USC	(34,655–48,360)	(51,405–71,830)	(57,044–77,853)	(65,368–85,671)	(102,739–135,492)	(109,586–139,269)	(118,860–148,711)

Web table 2: Global deaths attributable to risk fa	ctors by age and sex in 1990						
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	2,980	7,401	9,039	8,462	7,417	5,878	4,980
Drug use	(1,724–4,919)	(4,341–11,654)	(5,961–14,290)	(5,654–14,179)	(5,104–12,287)	(4,248–9,712)	(3,655–7,264)
Physiological risk factors							
i nysiological risk factors	0	0	12,474	16,202	32,242	41,304	76,716
High fasting plasma glucose	(0-0)	(0-0)	(10,243–15,085)	(13,171–19,598)	(26,696–37,982)	(33,866–48,909)	(64,040–88,921)
	0	0	7,015	11,790	25,905	39,632	61,348
High total cholesterol	(0-0)	(0-0)	(5,121-9,233)	(8,837–15,346)	(20,860–31,611)	(32,345–48,427)	(50,544–74,047)
	0	0	26,556	37,260	74,381	104,020	187,185
High blood pressure	(0-0)	(0-0)	(20,100-32,972)	(28,704–45,454)	(61,731-86,930)	(86,394–121,427)	(164,173-210,163)
	0	0	11,291	15,906	32,172	45,344	66,675
High body-mass index	(0-0)	(0-0)	(7,949-14,989)	(11,238-20,914)	(24,554–40,009)	(35,014-56,164)	(52,589-80,933)
	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	47,958	74,895	118,032	180,347	260,888
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(42,731-52,467)	(67,596-81,402)	(107,448–129,933)	(164,726–197,526)	(237,430–286,597)
	0	0	27,922	42,072	65,455	99,470	144,225
Diet low in fruits	(0-0)	(0-0)	(22,143–33,244)	(32,651–49,983)	(51,572–78,612)	(78,231–118,570)	(111,967–173,900)
	0	0	13,864	19,998	28,863	41,407	56,830
Diet low in vegetables	(0-0)	(0-0)	(8,623–18,634)	(12,949–26,624)	(18,257–38,669)	(26,189–55,675)	(35,511–76,759)
	0	0	11,671	17,325	25,570	36,865	49,133
Diet low in whole grains	(0-0)	(0-0)	(9,147–14,050)	(13,628–20,938)	(19,921–30,885)	(28,472–44,575)	(37,927–59,441)
B' (1 ') 1 1	0	0	14,195	22,435	33,282	49,005	65,318
Diet low in nuts and seeds	(0-0)	(0-0)	(9,781–17,553)	(15,226–28,131)	(22,569–41,811)	(32,797–62,158)	(43,617–83,187)
Diet less in will-	0	0	632	1,024	1,515	1,981	2,787
Diet low in milk	(0-0)	(0-0)	(175–1,070)	(307–1,760)	(454–2,540)	(609–3,314)	(832–4,746)
Diet high in red meat	0	0	161	291	460	637	913
Diet nigh in red meat	(0-0)	(0-0)	(45–276) 4,895	(76–509) 8,452	(128–788) 13,027	(180–1,098) 20,174	(251–1,561) 26,660
Diet high in processed meat	(0-0)	(0-0)	(1,042–8,646)	(1,805–14,893)	(2,844–22,398)	(4,329–34,856)	(5,778–45,562)
Diet nigh in processed meat	0	0	2,344	3,029	4,103	5,350	6,634
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(1,556–3,288)	(2,150–4,032)	(1,574–6,293)	(1,910–8,129)	(2,458–9,859)
Diet ingii in sugar sweetened beverages	0	0	6,334	9,632	14,207	19,389	24,641
Diet low in fibre	(0-0)	(0-0)	(2,980–9,581)	(4,450–14,503)	(6,574–21,686)	(8,896–29,560)	(11,049–38,403)
Diet io ii iii iioie	0	0	807	1,295	1,886	2,381	3,270
Diet low in calcium	(0-0)	(0-0)	(523–1,062)	(829–1,678)	(1,311–2,428)	(1,705–3,016)	(2,355–4,137)
	0	0	9,323	14,588	21,265	30,958	40,539
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(6,822–11,653)	(10,716–18,256)	(15,534–26,526)	(22,607–39,492)	(29,269–51,286)
	0	0	4,095	6,251	9,147	13,117	17,158
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(2,041–6,169)	(3,074–9,468)	(4,407–13,910)	(6,166–19,846)	(8,156–26,139)
• • • •	0	0	3,080	4,812	7,174	10,857	14,611
Diet high in trans fatty acids	(0-0)	(0-0)	(2,214–3,956)	(3,444-6,156)	(5,155–9,211)	(7,963–13,792)	(10,495–18,739)
	0	0	10,201	17,387	29,109	46,627	68,062
Diet high in sodium	(0-0)	(0-0)	(5,377–14,725)	(11,071-23,626)	(18,400-40,045)	(30,680-62,461)	(45,902-89,338)
Physical inactivity and low physical activity							
	42,995	63,808	65,261	60,275	58,784	50,665	51,506
Occupational risk factors	(32,917–55,295)	(48,451–80,324)	(50,880–82,991)	(47,577–75,300)	(46,306-73,545)	(40,523–63,536)	(41,045–63,924)

Web table 2: Global deaths attributable to risk factors	s by age and sex in 1990						
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	210	309	411	539	1,002	1,670	3,337
Occupational carcinogens	(145–299)	(202–453)	(271–594)	(367–770)	(677–1,427)	(1,118–2,340)	(2,259–4,817)
	96	103	105	143	234	428	733
Occupational exposure to asbestos	(66–142) 0	(70–151) 0	(72–153) 4	(97–203) 7	(163–320) 24	(300–615) 39	(516–1,023)
Occupational exposure to arsenic	(0-0)	(0-0)	(1–7)	(3–14)	(9–44)	(15–73)	89 (34–168)
Occupational exposure to disente	95	168	168	164	95	92	51
Occupational exposure to benzene	(39–170)	(69–294)	(71–299)	(66–291)	(40–173)	(38–163)	(21–91)
i i	0	0	0	0	1	2	5
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–4)	(2-8)
	0	0	1	1	4	7	15
Occupational exposure to cadmium	(0-0)	(0-0)	(0-1)	(1–2)	(2–7)	(3–11)	(7–26)
	0	0	2	4	14	24	55
Occupational exposure to chromium	(0-0)	(0-0)	(1–3) 27	(2–7) 51	(9–22) 173	(14–37) 299	(34–84) 694
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(14–42)	(28–81)	(97–263)	(168–456)	(401–1,078)
Occupational exposure to dieser engine exhaust	0-0)	0-0)	30	59	197	337	766
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(19–43)	(40–84)	(133–281)	(227–468)	(533–1.083)
1 1	20	39	41	44	33	36	24
Occupational exposure to formaldehyde	(9-34)	(18–66)	(18-69)	(19–79)	(13–63)	(13–74)	(8–53)
	0	0	10	21	71	120	271
Occupational exposure to nickel	(0–0)	(0–0)	(3–22)	(5–46)	(18–147)	(30–250)	(72–578)
Occupational exposure to polycyclic aromatic	0	0	4	8	29	49	114
hydrocarbons	(0-0)	(0-0)	(2–7) 18	(4–15) 35	(13–48) 119	(23–82) 204	(54–189) 475
Occupational exposure to silica	(0-0)	(0-0)	(11–27)	(22–51)	(78–176)	(128–295)	(309–687)
Occupational exposure to sincu	0	0	2	6	24	62	137
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(1–6)	(1–14)	(6–54)	(17–133)	(39–313)
	599	1,015	1,297	1,366	1,990	2,203	3,215
Occupational asthmagens	(321-1,070)	(550-1,724)	(759–2,297)	(789–2,385)	(1,142-3,586)	(1,274-3,953)	(1,767-6,267)
	0	0	1,957	2,733	5,247	7,497	12,282
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(870–3,137)	(1,241–4,284)	(2,475–7,973)	(3,477–11,275)	(5,760–18,910)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational risk factors for injuries	42,186 (32,031–54,441)	62,484 (47,379–78,894)	61,596 (47,535–78,950)	55,636 (43,322–70,176)	50,545 (38,086–65,576)	39,295 (29,958–51,536)	32,671 (24,713–42,382)
Occupational fisk factors for injuries	(32,031–34,441)	(47,379-78,894)	(47,333-78,930)	(43,322-70,176)	(38,080-03,370)	(29,938–31,330)	(24,713–42,382)
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Sexual abuse and violence	(, ,	, , , , , , , , , , , , , , , , , , ,	, · · · ,	· · · /	, · · · ,	(* *)	
Childhood sexual abuse							
Intimate partner violence							

Web table 2: Global deaths attributable to risk fact	ors by age and sex in 1990						
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	12,208	14,013	18,165	18,003	17,281	14,847	22,540
Unimproved water and sanitation	(559–22,606)	(674–26,636)	(839–33,832)	(956–34,015)	(817–31,539)	(675–27,465)	(1,141–42,258)
	4,739	5,315	6,928	6,935	6,706	5,759	8,354
Unimproved water source	(333–9,386)	(349–10,712)	(476–13,975)	(490–14,009)	(462–13,312)	(379–11,451)	(557–16,738)
	8,623	9,998	12,940	12,768	12,204	10,470	16,149
Unimproved sanitation	(241–16,628)	(302–19,738)	(375–25,359)	(411–25,168)	(375–23,181)	(294–20,309)	(526–31,362)
Air pollution							
	153,983	209,387	298,263	338,301	358,003	383,118	616,245
Ambient particulate matter pollution	(115,196–192,112)	(154,733–262,761)	(221,962-363,945)	(242,865–428,504)	(254,014–455,316)	(269,356–479,667)	(446,426-775,352)
	202,755	280,260	404,277	470,322	521,856	494,845	684,584
Household air pollution from solid fuels	(155,059–252,858)	(204,501-347,075)	(304,818-503,518)	(340,002–587,685)	(384,311–647,975)	(367,494–616,275)	(513,241-844,161)
	5,177	8,770	15,304	20,340	24,439	24,961	38,515
Ambient ozone pollution	(1,646–9,059)	(2,946–15,191)	(5,044–26,797)	(6,760–35,495)	(7,980–43,118)	(8,361–43,752)	(12,636–68,569)
•	16,064	20,658	28,225	30,583	27,984	25,554	28,934
Other environmental risks	(13,428–18,935)	(17,532–24,487)	(23,631–32,909)	(25,883–35,708)	(23,778–32,554)	(21,950–29,609)	(24,483–33,616)
Residential radon							
	16,064	20,658	28,225	30,583	27,984	25,554	28,934
Lead exposure	(13,428–18,935)	(17,532–24,487)	(23,631–32,909)	(25,883–35,708)	(23,778–32,554)	(21,950–29,609)	(24,483–33,616)
•	2,172	2,466	3,237	3,739	4,289	4,727	12,272
Child and maternal undernutrition	(1,746–2,742)	(1,970-3,018)	(2,593–4,095)	(2,882–4,608)	(3,220-5,359)	(3,769-5,707)	(9,829–15,716)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,172	2,466	3,237	3,739	4,289	4,727	12,272
Iron deficiency	(1,746–2,742)	(1,970-3,018)	(2,593–4,095)	(2,882-4,608)	(3,220-5,359)	(3,769-5,707)	(9,829–15,716)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	354,117	504,076	699,533	754,382	704,789	661,054	815,718
Tobacco smoking, including second-hand smoke	(305,997–409,523)	(436,766–572,170)	(613,467–809,735)	(653,086–877,163)	(607,727–835,419)	(574,612–791,875)	(724,642–975,917)
m.,	336,664	479,593	662,516	707,104	649,923	592,676	692,989
Tobacco smoking	(286,095–390,454)	(410,114–550,117)	(578,130–776,123)	(605,090–835,158)	(546,578–787,963)	(501,914–729,204)	(600,545–853,693)
	17,453	24,483	37,017	47,278	54,867	68,378	122,730
Second-hand smoke	(11,475–22,950)	(16,042–32,643)	(25,005–47,972)	(31,514–61,370)	(36,467–71,706)	(45,114–89,123)	(82,559–158,720)
A1 1 1 1 1	181,336	199,573	233,134	164,187	150,663	172,125	274,161
Alcohol and drug use	(163,328–201,168)	(179,406–220,909)	(209,831–258,238)	(142,802–186,468)	(126,807–175,752)	(139,474–205,006)	(202,549–342,896)
	177,477	195,975	229,408	163,475	150,057	171,510	273,299
Alcohol use	(160,047–196,924)	(176,208–217,417)	(205,667–253,994)	(142,034–185,753)	(126,213–174,947)	(138,335–204,226)	(201,849–341,898)

	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	5,079	5,180	5,660	719	608	616	863
Drug use	(3,940–7,833)	(4,174–6,754)	(4,564–7,272)	(446–1,556)	(369–1,350)	(378–1,471)	(535–1,814)
Physiological risk factors							
	121,197	188,743	257,298	294,771	295,064	315,731	452,433
High fasting plasma glucose	(102,076–140,404)	(161,417–216,663)	(219,588–295,809)	(252,165–338,515)	(253,038–336,396)	(268,146–363,215)	(377,324–526,954)
TT 1 1 1 1 1	106,684	143,686	219,427	252,714	254,294	304,678	518,749
High total cholesterol	(88,422–128,490)	(120,138–172,016)	(184,729–260,203)	(211,177–299,748)	(207,320–305,071)	(229,057–382,894)	(430,665–616,469)
III-l- 1	309,067	489,089	699,044	913,347	982,652	1,237,217	2,233,369
High blood pressure	(272,582–344,096)	(445,089–536,945)	(636,123–763,143)	(843,638–987,707)	(902,304–1,064,189)	(1,150,597–1,330,466)	
*** 1.1 1	111,174	150,280	225,528	250,389	252,985	306,079	495,725
High body-mass index	(88,853–134,231)	(121,996–179,090)	(184,629–268,018)	(204,653–296,981)	(205,756–300,698)	(248,017–364,250)	(394,933–595,018)
	6,377	6,735	9,619	10,467	11,996	16,469	41,607
Low bone mineral density	(5,129–8,417)	(5,572–9,003)	(7,911–12,654)	(8,767–13,533)	(9,889–15,532)	(13,605–20,231)	(34,733–51,278)
	455,752	622,396	893,238	1,055,055	1,120,788	1,305,019	2,235,976
Dietary risk factors and physical inactivity	(416,811–493,423)	(570,926–682,573)	(826,814–968,533)	(971,070–1,147,752)			(2,033,797–2,441,23
	247,368	330,243	437,004	491,356	501,139	527,333	753,617
Diet low in fruits	(195,365–295,444)	(260,938–394,552)	(342,928–524,072)	(383,410–591,189)	(384,169–606,863)	(406,357–637,893)	(574,447–937,991)
	93,858	118,742	162,636	181,552	185,412	213,306	337,590
Diet low in vegetables	(60,363–127,357)	(76,506–160,571)	(109,837–217,063)	(120,281–245,603)	(121,118–248,751)	(140,887–284,291)	(217,813–456,746)
	81,246	103,164	141,270	155,604	159,098	178,169	271,161
Diet low in whole grains	(64,086–97,780)	(79,656–124,730)	(110,144–171,151)	(121,285–189,679)	(123,211–194,176)	(138,062–217,469)	(207,620–330,147)
	111,554	142,171	205,026	236,017	239,267	285,812	510,127
Diet low in nuts and seeds	(74,047–142,047)	(93,026-181,813)	(130,945–262,876)	(151,491-305,030)	(150,031-312,742)	(176,211-378,999)	(307,343–687,140)
	4,480	6,210	8,422	9,470	9,137	9,746	12,745
Diet low in milk	(1,342–7,537)	(1,882-10,387)	(2,509-14,283)	(2,869–15,951)	(2,755–15,417)	(2,870-16,518)	(3,799–21,646)
	1,565	2,232	3,219	3,695	3,537	4,092	5,639
Diet high in red meat	(432–2,668)	(636-3,749)	(888-5,516)	(1,021-6,263)	(991-6,049)	(1,133-7,011)	(1,587-9,611)
	43,948	55,068	78,524	88,763	86,454	108,427	197,284
Diet high in processed meat	(9,601–75,859)	(12,170-93,279)	(17,475–134,060)	(20,024-151,631)	(18,835–148,797)	(23,516–185,745)	(41,058-342,137)
	10,146	11,898	15,564	16,502	16,924	17,759	31,064
Diet high in sugar-sweetened beverages	(3,554–15,074)	(7,754-17,678)	(9,891-23,864)	(10,112-25,674)	(9,498-28,179)	(8,803-27,439)	(12,974-40,837)
	39,177	47,839	63,758	69,407	70,823	81,230	137,708
Diet low in fibre	(17,575–60,976)	(21,863-74,132)	(28,529–100,201)	(31,095–109,180)	(31,751–110,932)	(36,106–127,036)	(58,707–220,544)
	5,186	7,234	9,835	11,180	11,232	12,067	15,934
Diet low in calcium	(3,832-6,662)	(5,344-9,249)	(7,109-12,660)	(7,847-14,515)	(7,815–14,953)	(8,100-16,400)	(9,962-22,384)
	67,795	83,712	117,624	131,006	128,812	148,437	249,026
Diet low in seafood omega-3 fatty acids	(48,998–86,842)	(60,974–106,207)	(85,521–151,079)	(95,435–167,297)	(93,516–165,056)	(106,505–189,709)	(177,820–319,888)
	28,349	35,405	49,579	55,547	55,064	64,320	110,031
Diet low in polyunsaturated fatty acids	(13,490–43,070)	(17,034–54,306)	(23,226–76,258)	(26,875–85,096)	(26,147–84,676)	(30,650–98,764)	(51,875–169,860)
• • • • • • • • • • • • • • • • • • • •	22,695	28,940	40,008	46,610	46,742	50,922	91,011
Diet high in trans fatty acids	(16,321–29,163)	(21,064–37,224)	(29,146–51,205)	(33,742–59,504)	(33,517–60,144)	(36,415–65,201)	(65,291–116,840)
,	122,481	174,255	257,126	310,128	320,993	349,350	539,635
Diet high in sodium	(81,236–160,829)	(114,847–229,333)	(167,111–335,173)	(200,260–411,711)	(207,275–425,369)	(223,587–467,206)	(339,477–729,560)
Physical inactivity and low physical activity							

Web table 2: Global deaths attributable to risk factor	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	63,881	75,377	85,527	61,733	66,642	57,534	7,156
Occupational risk factors	(48,234–80,919)	(52,632–98,373)	(53,825–117,633)	(37,036–88,656)	(38,417–99,530)	(31,414–86,228)	(5,467–9,811)
	6,059	10,239	13,664	11,136	9,754	6,586	7,156
Occupational carcinogens	(4,059–8,735)	(6,779–14,559)	(9,269–19,669)	(7,769–15,574)	(6,802–14,238)	(4,875–9,255)	(5,467–9,811)
	1,247	1,985	2,983	3,806	3,395	3,553	4,246
Occupational exposure to asbestos	(897–1,785)	(1,399–2,874)	(2,157–4,365)	(2,736–5,445)	(2,471–4,976)	(2,584–5,228)	(3,220–6,172)
· · · · · · · · · · · · · · · · · · ·	163	287	366	242	214	93	92
Occupational exposure to arsenic	(63–301)	(108–537)	(142–695)	(91–459)	(81–405)	(35–178)	(34–177)
	63	89	111	161	151	198	157
Occupational exposure to benzene	(26–114)	(36–158)	(47–196)	(67–286)	(63–271)	(82–351)	(63–291)
occupational emposure to compone	9	15	20	13	11	5	5
Occupational exposure to beryllium	(3–15)	(6–26)	(8–35)	(5–23)	(5–21)	(2–9)	(2–9)
occupational exposure to berymain	29	51	66	43	38	17	17
Occupational exposure to cadmium	(13–49)	(23–84)	(30–112)	(19–75)	(17–65)	(8–29)	(7–29)
Occupational exposure to caumium	103	179	232	153	134	60	60
Occupational exposure to chromium		(108–266)	(141–355)	(93–237)			
Occupational exposure to chromium	(62–153)	()	()	1,990	(80–212) 1,718	(36–94) 774	(36–95)
Occupational exposure to diesel engine exhaust	1,306	2,291	2,975	,	,		742
Occupational exposure to diesel engine exhaust	(753–2,019)	(1,299–3,545)	(1,722–4,628)	(1,136–3,143)	(973–2,768)	(438–1,280)	(423–1,215)
0	1,402	2,454	3,172	2,111	1,844	824	828
Occupational exposure to second-hand smoke	(954–1,966)	(1,705–3,397)	(2,237–4,471)	(1,473–3,086)	(1,308–2,746)	(591–1,224)	(587–1,223)
	25	34	36	45	37	41	24
Occupational exposure to formaldehyde	(9–50)	(12–70)	(13–73)	(17–89)	(14–70)	(17–79)	(10–45)
	503	878	1,135	751	660	291	291
Occupational exposure to nickel	(133–1,046)	(226–1,814)	(304–2,351)	(198–1,584)	(173–1,386)	(75–621)	(76–622)
Occupational exposure to polycyclic aromatic	213	373	486	322	280	126	126
hydrocarbons	(100–356)	(175–618)	(233–819)	(151–548)	(132–481)	(59–216)	(58–215)
	900	1,588	2,066	1,388	1,200	544	520
Occupational exposure to silica	(581–1,299)	(1,033–2,277)	(1,381–2,952)	(904–2,056)	(798–1,824)	(367–870)	(353–812)
	263	363	464	326	259	124	127
Occupational exposure to sulfuric acid	(72–579)	(102-800)	(132–990)	(87–744)	(73–576)	(34–273)	(38–281)
	4,450	5,589	6,439	4,738	4,945	4,305	0
Occupational asthmagens	(2,481-8,563)	(3,208–10,205)	(3,572–11,910)	(2,523-8,733)	(2,700-8,865)	(2,367-7,892)	(0-0)
	24,369	36,913	51,476	39,808	47,929	45,435	0
Occupational particulate matter, gases, and fumes	(11,159–36,950)	(16,391-57,272)	(22,708-80,942)	(16,946-64,387)	(20,380-77,601)	(19,972–73,241)	(0-0)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	29,003	22,636	13,948	6,051	4,015	1,208	0
Occupational risk factors for injuries	(22,110-37,199)	(17,127-29,346)	(10,576-17,974)	(4,484-8,062)	(3,020-5,360)	(918-1,566)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Sexual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 2: Global deaths attributable to risk fac		Mol	M-1	Mel	Mol	Molar	M-1
D. 1	Males,	Males,	Males,	Males,	Males, 1-4 Years	Males,	Males, 10-14 Years
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	7.77	5-9 Years	
	365,244	9,714	23,554	116,863	98,900	15,407	6,690
Unimproved water and sanitation	(18,940–662,551)	(471–19,232)	(1,223–44,532)	(6,173–217,301)	(5,299–182,571)	(692–29,583)	(278–12,938)
TT : 1	147,857	3,899	9,388	47,882	42,260	5,974	2,618
Unimproved water source	(10,566–282,890)	(261–8,160)	(652–18,799)	(3,500–93,262)	(3,084–83,475)	(397–12,180)	(169–5,387)
T	252,779	6,757	16,412	80,203	66,926	10,869	4,690
Unimproved sanitation	(8,032–480,822)	(197–14,052)	(529–32,682)	(2,557–156,244)	(2,196–129,052)	(289–21,640)	(115–9,507)
Air pollution							
	1,549,448	19,847	20,195	78,126	51,267	0	0
Ambient particulate matter pollution	(1,345,894–1,752,880)	(12,268-28,231)	(13,181-27,975)	(52,893-105,889)	(33,908-71,030)	(0-0)	(0-0)
	2,251,932	68,924	71,317	274,648	191,888	0	0
Household air pollution from solid fuels	(1,677,785–2,743,681)	(44,458-91,790)	(47,905-92,928)	(193,690-350,438)	(133,782-252,410)	(0-0)	(0-0)
	77,087	0	0	0	0	0	0
Ambient ozone pollution	(25,256–134,021)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1	109,224	0	0	0	0	0	0
Other environmental risks	(91,805–131,511)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Residential radon							
Residential fadoli	109.224	0	0	0	0	0	0
Load avnoura		~			0		
Lead exposure	(91,805–131,511)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Child and maternal undernutrition	1,805,224	0	138,589	895,272	746,855	1,347	953
Child and maternal undernutrition	(1,479,043–2,219,888)	(0-0)	(83,615–190,605)	(729,496–1,076,442)	(581,453–987,070)	(999–1,869)	(718–1,277)
C-14:114f4:	693,103	0	138,589	510,324	44,190	0	0
Suboptimal breastfeeding	(427,028–972,440)	(0-0)	(83,615–190,605)	(306,882–731,098)	(4,756–94,710)	(0-0)	(0-0)
N	612,059	0	138,589	473,470	0	0	0
Non-exclusive breastfeeding	(354,236–875,230)	(0-0)	(83,615–190,605)	(272,590–693,746)	(0-0)	(0-0)	(0-0)
D' (' 11 (C 1'	81,044	0	0	36,854	44,190	0	0
Discontinued breastfeeding	(8,643–178,237)	(0-0)	(0-0)	(3,671–82,696)	(4,756–94,710)	(0-0)	(0-0)
	1,198,178	0	0	600,286	597,892	0	0
Childhood underweight	(997,627–1,484,105)	(0-0)	(0-0)	(501,285–710,497)	(477,020–773,832)	(0-0)	(0-0)
T 10"	39,409	0	0	5,232	9,669	1,347	953
Iron deficiency	(30,677–47,108)	(0-0)	(0–0)	(3,964–6,784)	(6,684–13,961)	(999–1,869)	(718–1,277)
***	181,151	0	0	45,590	135,562	0	0
Vitamin A deficiency	(85,775–341,439)	(0-0)	(0-0)	(20,830–78,943)	(61,576–267,698)	(0-0)	(0-0)
T. 1 T.	143,518	0	0	0	143,518	0	0
Zinc deficiency	(27,797–276,850)	(0-0)	(0-0)	(0-0)	(27,797–276,850)	(0-0)	(0-0)
	3,680,571	21,532	22,676	92,943	57,589	0	0
Tobacco smoking, including second-hand smoke	(3,213,427–4,229,530)	(13,294–29,845)	(14,782–31,004)	(63,260–123,193)	(38,090–78,687)	(0-0)	(0-0)
m	3,332,192	0	0	0	0	0	0
Tobacco smoking	(2,871,957–3,840,033)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	348,378	21,532	22,676	92,943	57,589	0	0
Second-hand smoke	(273,555–425,310)	(13,294–29,845)	(14,782–31,004)	(63,260–123,193)	(38,090–78,687)	(0-0)	(0-0)
	1,345,743	247	207	912	3,525	2,017	1,680
Alcohol and drug use	(1,196,535–1,513,476)	(139–455)	(92–393)	(512–1,717)	(1,951-5,657)	(1,481-2,764)	(1,302-2,162)
	1,305,926	125	70	529	2,725	1,764	1,500
Alcohol use	(1,156,571–1,466,638)	(78–205)	(37-130)	(327–844)	(1,528–4,423)	(1,310-2,248)	(1,173-1,865)

Web table 2: Global deaths attributable to risk							
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	46,682	122	137	383	799	252	181
Drug use	(33,063–78,398)	(33–293)	(37–300)	(126–1,050)	(184–1,881)	(80–701)	(73–475)
Physiological risk factors							
	1,051,401	0	0	0	0	0	0
High fasting plasma glucose	(865,949–1,250,550)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	936,749	0	0	0	0	0	0
High total cholesterol	(767,684–1,128,051)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,412,588	0	0	0	0	0	0
High blood pressure	(3,089,548–3,769,223)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	887,047	0	0	0	0	0	0
High body-mass index	(698,599–1,079,235)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	52,816	0	0	0	0	0	0
Low bone mineral density	(43,822–69,605)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	4,387,218	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(4,017,891–4,762,455)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,013,415	0	0	0	0	0	0
Diet low in fruits	(1,570,347–2,435,112)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	779,747	0	0	0	0	0	0
Diet low in vegetables	(535,472–1,041,517)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	649,676	0	0	0	0	0	0
Diet low in whole grains	(503,984–787,057)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,041,726	0	0	0	0	0	0
Diet low in nuts and seeds	(667,481–1,349,266)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	34,838	0	0	0	0	0	0
Diet low in milk	(10,464–58,211)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	13,888	0	0	0	0	0	0
Diet high in red meat	(3,859–23,763)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Ç	397,198	0	0	0	0	0	0
Diet high in processed meat	(85,536–688,905)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0 1	80,874	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(50,739–111,941)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	333,603	0	0	0	0	0	0
Diet low in fibre	(149,007–521,712)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	48,975	0	0	0	0	0	0
Diet low in calcium	(32,814–66,562)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	576,646	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(418,376–735,746)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	248,677	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(117,929–381,787)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
r y y management	202,725	0	0	0	0	0	0
Diet high in trans fatty acids	(144,395–260,843)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,197,713	0	0	0	0	0	0
Diet high in sodium	(776,962–1,589,448)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2.00 mgn in bouluin	(170,702-1,307,440)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Physical inactivity and low physical activity							
injurear mactivity and low physical activity							

Web table 2: Global deaths attributable to risk factor	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
ALIGIK .	694,403	0	0	0	0	0	0
Occupational risk factors	(541,113–858,435)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
F	55,306	0	0	0	0	0	0
Occupational carcinogens	(37,867–80,887)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2 2 2 1 F 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2 111 2	17,024	0	0	0	0	0	0
Occupational exposure to asbestos	(11,044–26,605)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,155	0	0	0	0	0	0
Occupational exposure to arsenic	(446–2,210)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2 2 2 2 F 111 2 11 F 2 2 11 2 11 2 11 2	993	0	0	0	0	0	0
Occupational exposure to benzene	(426–1,757)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	61	0	0	0	0	0	0
Occupational exposure to beryllium	(24–110)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2 2 2 2 F 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	214	0	0	0	0	0	0
Occupational exposure to cadmium	(97–370)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
coouparional emposare to caumium	729	0	0	0	0	0	0
Occupational exposure to chromium	(431–1,133)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational enposate to cinomian	10,979	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(6,241–17,555)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to dieser engine exhaust	10,171	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(6,878–15,272)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to second hand smoke	299	0	0	0	0	0	0
Occupational exposure to formaldehyde	(117–584)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to formaldenyae	3,578	0	0	0	0	0	0
Occupational exposure to nickel	(935–7,585)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	1,638	0	0	0	0	0	0
hydrocarbons	(772–2,817)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
nydrocarbons	7,870	0	0	0	0	0	0
Occupational exposure to silica	(5,154–11,902)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
overpunoum emposure to sincu	1,964	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(531–4,383)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to surraine acid	31,666	0	0	0	0	0	0
Occupational asthmagens	(15,305–62,856)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
overputional assimagens	207,366	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(92,516–320,244)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
,	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	400,064	0	0	0	0	0	0
Occupational risk factors for injuries	(308,482–507,787)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
r r	(0 0)	(0 0)	(0 0)	(0 0)	(0 0)	(0 0)	(0 0)
Sexual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

	Web table 2: Global deaths attributable to risk factors by age an	d sex in 1990						
			Males,	Males,	Males,	Males,	Males,	Males,
	Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
Part		6,060	6,185	6,072	5,994	5,996	5,386	5,718
1,00 1,00	Unimproved water and sanitation	(243–12,157)	(273-12,097)	(294-11,732)	(267-11,216)	(305-11,525)	(273-10,413)	(300–11,445)
		2,360	2,409	2,378	2,317	2,307	2,092	2,197
Company	Unimproved water source	(140-4,941)	(158-4,956)	(157-4,953)	(144-4,733)	(168-4,669)	(149-4,301)	(154-4,655)
Map		4,261	4,353	4,268	4,239	4,251	3,805	4,057
Miseria particulate matter pollution	Unimproved sanitation	(104-8,763)	(121-8,862)	(128-8,585)	(125-8,317)	(126-8,465)	(124-7,826)	(127-8,388)
Miseria particulate matter pollution								
Ambient particulate matter pollution (b-0) (B-0) (B-3) (B-3) (B-3) (B-3) (B-3) (B-4) (B-0)	Air pollution							
1		-		,		,		· · · · · · · · · · · · · · · · · · ·
Household air pollution from solid fuels	Ambient particulate matter pollution							
Ambient ozone pollution (0-0) (0-0) (0-3)								· ·
Ambient ozone pollution	Household air pollution from solid fuels	` /	()					
		-						1,392
Company Comp	Ambient ozone pollution	()	()			, ,	, , ,	
Residential radon Lead exposure 0 0 0 1.285 1.983 2.871 4.263 5.987 Lead exposure 1,243 1.352 1.166 1.139 1.148 1.073 1.161 1,243 1.352 1.166 1.139 1.148 1.073 1.161 Child and maternal undernutrition 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7	0	1,285	1,983	2,871	4,263	5,987
Clead exposure	Other environmental risks	(0-0)	(0-0)	(1,017-1,782)	(1,573–2,555)	(2,355-3,501)	(3,538–5,162)	(4,941-7,279)
Clead exposure	.							
Lead exposure	Residential radon							
1.243 1.352 1.166 1.139 1.148 1.073 1.161 1.245 1.245 1.252 1.166 1.139 1.148 1.073 1.161 1.245 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.246 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.245 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.245 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.2523 1.2523 1.2523 1.2523 1.2523 1.2523 1.2523 1.2523 1.2523 1.2523 1.2523				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· ·
Child and maternal undermutrition	Lead exposure	(,						
Suboptimal breastfeeding		•						·
Suboptimal breastfeeding (0-0) (Child and maternal undernutrition	. , , ,					. , ,	
Non-exclusive breastfeeding	C-1							
Non-exclusive breastfeeding (0-0)	Suboptimal breastreeding	\ /	()	()	(/	()	(/	,
Discontinued breastfeeding 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Non avaluaiva heaastfaadina	-						-
Discontinued breastfeeding (0-0)	Non-exclusive breastreeding	(,	()	()		()	()	(,
Childhood underweight 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Discontinued breastfeeding		~	•				
Childhood underweight (0-0)<	Discontinued breastreeding	(/	()	()	(/	()	, ,	,
1,243 1,352 1,166 1,139 1,148 1,073 1,161 Iron deficiency	Childhood underweight	-						-
First deficiency (845-1,652) (917-1,821) (866-1,510) (769-1,505) (738-1,490) (667-1,406) (774-1,522) (738-1,400) (667-1,406) (774-1,522) (738-1,400) (667-1,406) (774-1,522) (738-1,400) (667-1,406) (774-1,522) (738-1,400) (738-1,40	Cinidilood dilder weight	()	()	. ,	. ,	· /	()	, ,
Vitamin A deficiency 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Iron deficiency	, '		*	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· ·
Vitamin A deficiency (0-0) </td <td>non deficiency</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	non deficiency							
Comparison Com	Vitamin A deficiency							-
Zinc deficiency (0-0)	, amain 11 deficiency		. ,	. ,	. ,	. ,	. ,	` '
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Second-hand smoke (0-0) (0-0) (839-1,709) (1,221-2,419) (1,055-2,353) (1,788-3,712) (2,680-5,343) Alcohol and drug use 35,470 57,296 63,154 69,207 101,996 102,717 108,288 Alcohol use (29,507-42,424) (47,868-68,143) (53,825-75,698) (59,397-80,679) (89,050-118,471) (90,843-117,296) (95,696-122,455) Alcohol use 34,082 52,709 57,223 63,469 97,088 98,985 105,386 Alcohol use (28,058-40,983) (43,429-63,049) (48,001-68,639) (53,748-73,921) (83,850-113,128) (86,746-112,953) (92,918-119,234) 1,523 5,141 6,584 6,284 5,562 4,316 3,538		(/	, ,	. ,	. , , , ,	. , , , ,	. , , , ,	. , , , ,
35,470 57,296 63,154 69,207 101,996 102,717 108,288 Alcohol and drug use (29,507-42,424) (47,868-68,143) (53,825-75,698) (59,397-80,679) (89,050-118,471) (90,843-117,296) (95,696-122,455) 34,082 52,709 57,223 63,469 97,088 98,985 105,386 Alcohol use (28,058-40,983) (43,429-63,049) (48,001-68,639) (53,748-73,921) (83,850-113,128) (86,746-112,953) (92,918-119,234) 1,523 5,141 6,584 6,284 5,562 4,316 3,538	Second-hand smoke	(0-0)	(0-0)	*			*	·
Alcohol and drug use (29,507-42,424) (47,868-68,143) (53,825-75,698) (59,397-80,679) (89,050-118,471) (90,843-117,296) (95,696-122,455) (95,69		. ,	()	, , ,				
Alcohol use 34,082 52,709 57,223 63,469 97,088 98,985 105,386 Alcohol use (28,058-40,983) (43,429-63,049) (48,001-68,639) (53,748-73,921) (83,850-113,128) (86,746-112,953) (92,918-119,234) 1,523 5,141 6,584 6,284 5,562 4,316 3,538	Alcohol and drug use	· ·						· · · · · · · · · · · · · · · · · · ·
Alcohol use (28,058–40,983) (43,429–63,049) (48,001–68,639) (53,748–73,921) (83,850–113,128) (86,746–112,953) (92,918–119,234) 1,523 5,141 6,584 6,284 5,562 4,316 3,538		. , , , ,				. , , , ,		, , , ,
1,523 5,141 6,584 6,284 5,562 4,316 3,538	Alcohol use	•						· ·
	Drug use	(862-2,739)	(2,929-8,823)	(4,188-11,550)		(3,739–10,069)	(2,958–7,787)	(2,495-5,620)

Web table 2: Global deaths attributable to risk factors by age and	sex in 1990						
Risk	Males, 15-19 Years	Males, 20-24 Years	Males, 25-29 Years	Males, 30-34 Years	Males, 35-39 Years	Males, 40-44 Years	Males, 45-49 Years
Physiological risk factors							
, · · · · · · · · · · · · · · · · · · ·	0	0	7,404	10,010	20,648	26,635	49,303
High fasting plasma glucose	(0-0)	(0-0)	(5,625–9,290)	(7,791–12,508)	(16,478–25,031)	(20,914–32,221)	(39,573–58,624)
	0	0	4,963	8,824	19,849	30,699	44,786
High total cholesterol	(0-0)	(0-0)	(3,526–6,572)	(6,405–11,582)	(15,862–24,196)	(24,309–37,741)	(35,883–54,025)
	0	0	18,648	26,963	48,594	68,851	116,812
High blood pressure	(0-0)	(0-0)	(14,352–22,976)	(21,099–32,491)	(40,575–57,175)	(57,714–80,769)	(102,243–132,678)
	0	0	6,685	9,849	19,445	29,384	40,906
High body-mass index	(0-0)	(0-0)	(4,618-9,043)	(6,858-13,066)	(14,731-24,319)	(22,276-36,538)	(31,883-49,947)
	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	29,442	47,640	76,024	117,475	171,815
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(25,914-32,806)	(42,173-52,624)	(68,761–84,751)	(106,362–129,907)	(154,500-190,804)
	0	0	17,284	26,874	41,898	63,807	93,203
Diet low in fruits	(0-0)	(0-0)	(13,364-21,078)	(20,815-32,570)	(32,240-50,879)	(49,105–78,391)	(70,983–114,021)
	0	0	8,672	12,960	18,902	27,223	37,550
Diet low in vegetables	(0-0)	(0-0)	(5,392-11,704)	(8,554-17,352)	(12,161-25,515)	(17,737-36,343)	(24,051-50,874)
	0	0	7,250	11,277	16,890	24,363	32,375
Diet low in whole grains	(0-0)	(0-0)	(5,601-8,868)	(8,721–13,913)	(12,932-20,844)	(18,459–30,185)	(25,014–39,686)
	0	0	9,362	15,516	23,906	35,659	47,703
Diet low in nuts and seeds	(0-0)	(0-0)	(6,335-11,797)	(10,254-19,451)	(15,918–30,311)	(23,584–45,744)	(31,583–60,507)
	0	0	357	582	812	1,045	1,512
Diet low in milk	(0-0)	(0-0)	(102-599)	(171-1,013)	(242-1,346)	(306-1,733)	(451-2,508)
	0	0	97	173	259	355	523
Diet high in red meat	(0-0)	(0-0)	(26-169)	(46–306)	(71-454)	(102-618)	(145-902)
	0	0	3,241	5,964	9,643	15,019	19,804
Diet high in processed meat	(0-0)	(0-0)	(710-5,731)	(1,254-10,929)	(2,032-16,939)	(3,128-26,744)	(4,066–34,674)
	0	0	1,467	1,914	2,588	3,452	4,462
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(960-2,108)	(1,340-2,604)	(975-4,069)	(1,212-5,276)	(1,585–6,665)
	0	0	4,268	6,728	10,110	14,045	17,936
Diet low in fibre	(0-0)	(0-0)	(1,988-6,576)	(3.076-10.392)	(4,619–15,668)	(6,173-21,681)	(7,793-28,188)
	0	0	464	751	1,030	1,288	1,826
Diet low in calcium	(0-0)	(0-0)	(285-613)	(449–991)	(662-1,340)	(898-1,638)	(1,313-2,298)
	0	0	6,137	10,070	15,254	22,483	29,534
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(4,406-7,737)	(7,217-12,711)	(11,065–19,180)	(16,510-28,906)	(21,121–37,667)
	0	0	2,749	4,366	6,610	9,600	12,583
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(1,274–4,152)	(2,100-6,598)	(3,080-9,947)	(4,479–14,682)	(5,954–19,405)
	0	0	1,962	3,219	5,006	7,731	10,468
Diet high in trans fatty acids	(0-0)	(0-0)	(1,381-2,550)	(2,261-4,161)	(3,521-6,530)	(5,566-9,983)	(7,388–13,528)
	0	0	5,489	10,112	17,655	28,842	44,088
Diet high in sodium	(0-0)	(0-0)	(2,486-8,741)	(5,755-14,723)	(10,863-24,548)	(18,746-38,952)	(29,236–58,540)
Physical inactivity and low physical activity			· · · ·	,	,		
	40,307	60,200	60,962	55,798	52,934	44,457	43,642
Occupational risk factors	(30,293-52,619)	(45,146-76,640)	(46,666–78,665)	(43,168-70,498)	(40,514–67,761)	(34,925-57,206)	(34,994–55,273)
	129	191	252	329	663	1,180	2,494
Occupational carcinogens	(84–185)	(124–278)	(163-364)	(220-469)	(435–954)	(766–1,685)	(1,632–3,652)

Veb table 2: Global deaths attributable to risk factors by a	Males,						
iisk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	65	72	70	92	152	296	528
Occupational exposure to asbestos	(37–112)	(41–119)	(41-114)	(54–149)	(91–235)	(179-461)	(328-807)
	0	0	2	4	14	25	59
Occupational exposure to arsenic	(0-0)	(0-0)	(1–4)	(1-8)	(5–26)	(9–46)	(23-113)
	53	97	91	85	51	50	29
Occupational exposure to benzene	(22–95)	(39–175)	(38–167)	(35–151)	(21–92)	(20–88)	(12–52)
	0	0	0	0	1	1	3
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–5)
	0	0	0	1	2	5	11
Occupational exposure to cadmium	(0-0)	(0-0)	(0-1)	(0-1)	(1–4)	(2–8)	(5-18)
	0	0	1	2	8	15	37
Occupational exposure to chromium	(0-0)	(0-0)	(1–2)	(1-4)	(5–13)	(9-24)	(22-57)
	0	0	21	38	132	236	565
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(11–34)	(20-62)	(72–211)	(127-372)	(315-895)
	0	0	19	36	121	220	526
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(11-28)	(21–51)	(76–175)	(136-321)	(344-752)
	11	23	23	24	19	22	16
Occupational exposure to formaldehyde	(5–19)	(10-38)	(10-40)	(10-44)	(7–39)	(7–48)	(4-36)
	0	0	6	12	41	76	182
Occupational exposure to nickel	(0-0)	(0-0)	(2-14)	(3–26)	(11-87)	(19–157)	(48–383)
Occupational exposure to polycyclic aromatic	0	0	3	5	19	35	83
hydrocarbons	(0-0)	(0-0)	(1–5)	(2-10)	(9-32)	(16-58)	(39-139)
	0	0	14	27	94	167	400
Occupational exposure to silica	(0-0)	(0-0)	(8-22)	(16-41)	(58–143)	(99-249)	(255-588)
	0	0	2	5	21	56	126
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-4)	(1-11)	(5–47)	(14–124)	(32-294)
	421	743	954	965	1,363	1,491	2,252
Occupational asthmagens	(178-852)	(324-1,426)	(448-1,840)	(480-1,907)	(631-2,860)	(706-2,932)	(1,008-5,033)
	0	0	1,172	1,658	3,013	4,605	7,940
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(502-2,000)	(733-2,657)	(1,413-4,842)	(2,092-7,190)	(3,736-12,288)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	39,757	59,266	58,584	52,845	47,895	37,181	30,956
Occupational risk factors for injuries	(29,804–51,975)	(44,468-75,636)	(44,395–75,897)	(40,589–67,529)	(35,577-62,558)	(27,963-49,388)	(23,164-40,659)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
exual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 2: Global deaths attributable to risk facto	rs by age and sex in 1990						
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	6,214	6,572	8,135	7,839	7,415	6,351	10,178
Unimproved water and sanitation	(286-11,946)	(336-12,769)	(370-17,085)	(400-15,514)	(346–14,236)	(293-12,659)	(508-20,309)
	2,370	2,491	3,076	2,975	2,829	2,409	3,626
Unimproved water source	(159-4,780)	(167-5,207)	(187-6,567)	(198-6,112)	(180-5,732)	(166-4,923)	(248-7,711)
	4,419	4,685	5,808	5,585	5,266	4,515	7,411
Unimproved sanitation	(121-8,960)	(141–9,505)	(181–13,061)	(175–11,489)	(149–10,580)	(130-9,238)	(234–15,448)
Air pollution							
1	99,937	136,051	186,556	196,182	192,016	184,008	228,941
Ambient particulate matter pollution	(75,297–126,450)	(101,994–171,724)	(139,856–229,225)	(141,476–248,946)	(137,661–243,917)	(131,875–230,463)	(165,496–288,332)
	116,653	160,393	222,922	242,617	252,249	219,362	247,036
Household air pollution from solid fuels	(83,145–152,563)	(108,795–209,306)	(149,166–294,060)	(152,788–325,290)	(155,413–334,708)	(131,831–294,827)	(147,023–335,976)
•	3,046	5,061	8,875	11,630	13,621	13,614	18,071
Ambient ozone pollution	(987–5,422)	(1,646–8,830)	(2,919–15,804)	(3,794–20,579)	(4,459–24,203)	(4,510–23,920)	(5,999–31,593)
Timotent ozone ponation	9,806	12,732	16,741	16,926	14,246	11,714	10,670
Other environmental risks	(8,066–11,908)	(10,607–15,535)	(13,892–20,468)	(14,100–20,673)	(11,883–17,357)	(9,847–14,116)	(8,894–12,760)
	(0,000 - 2,500)	(-0,00)	(,->=,)	(-1,-00 =0,000)	(,)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(0,000 -=,000)
Residential radon							
	9,806	12,732	16,741	16,926	14,246	11,714	10,670
Lead exposure	(8,066–11,908)	(10,607–15,535)	(13,892–20,468)	(14,100–20,673)	(11,883–17,357)	(9,847–14,116)	(8,894–12,760)
•	1,081	1,238	1,600	1,816	1,920	2,035	4,235
Child and maternal undernutrition	(749–1,403)	(919–1,559)	(1,194–2,091)	(1,348-2,392)	(1,441-2,429)	(1,536-2,499)	(3,299–5,271)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,081	1,238	1,600	1,816	1,920	2,035	4,235
Iron deficiency	(749–1,403)	(919–1,559)	(1,194-2,091)	(1,348–2,392)	(1,441-2,429)	(1,536-2,499)	(3,299–5,271)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	277,125	388,167	536,986	549,201	478,248	432,711	451,492
Tobacco smoking, including second-hand smoke	(232,922–318,552)	(328,035–445,166)	(460,359–613,815)	(468,215–641,893)	(405,734–572,272)	(372,008–523,056)	(393,313–525,013)
T 1 1'	269,596	376,926	519,882	528,484	455,519	406,900	414,350
Tobacco smoking	(224,472–312,670)	(317,488–436,497)	(442,873–594,782)	(447,366–624,005)	(380,908–552,986)	(343,098–499,259)	(357,564–491,339)
	7,529	11,241	17,103	20,716	22,729	25,811	37,142
Second-hand smoke	(5,241–10,033)	(7,764–14,882)	(11,787–22,525)	(14,289–26,901)	(15,543–29,701)	(17,635–33,397)	(25,310–47,846)
A11-1 d d	138,348	147,441	160,181	100,426	84,322	77,600	90,706
Alcohol and drug use	(123,518–155,388)	(131,100–166,553)	(141,692–181,520)	(84,935–116,197)	(68,458–100,733)	(62,304–93,185)	(68,061–114,419)
A111	135,718	145,031	157,806	100,026	84,020	77,307	90,363
Alcohol use	(120,880–152,546)	(129,008–163,825)	(139,455–178,629)	(84,559–115,818)	(68,167–100,508)	(61,950–92,940)	(67,827–114,062)

Web table 2: Global deaths attributable to risk fa	Males,						
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	3,468	3,459	3,581	407	305	295	344
Drug use	(2,526–5,713)	(2,674–4,702)	(2,778–4,839)	(190–960)	(137–711)	(125–875)	(155–870)
Physiological risk factors							
	76,110	115,091	148,913	154,279	143,579	138,274	161,155
High fasting plasma glucose	(61,718–91,873)	(94,688–136,651)	(121,472–178,406)	(127,248–182,513)	(118,474–171,278)	(114,284–164,684)	(131,926–193,450)
****	76,365	96,789	136,794	135,638	120,450	120,269	141,323
High total cholesterol	(62,094–91,013)	(78,201–116,387)	(112,406–163,763)	(110,602–164,592)	(95,255–146,208)	(91,621–150,975)	(113,457–171,240)
	193,559	303,063	414,702	492,514	482,462	531,077	715,344
High blood pressure	(169,277–219,905)	(272,492–338,128)	(373,579–463,591)	(449,731–546,185)	(437,583–537,752)	(483,116–581,837)	(651,074–786,047)
	68,427	87,941	123,860	123,432	113,801	117,374	145,942
High body-mass index	(53,629–83,476)	(69,472–106,312)	(98,667–149,267)	(97,891–149,077)	(89,473–138,922)	(92,199–142,611)	(112,418–179,611)
	4,454	4,473	6,489	6,269	7,065	7,926	16,140
Low bone mineral density	(3,302–6,423)	(3,413-6,685)	(5,061-9,164)	(4,837–9,075)	(5,341–10,279)	(5,820–10,641)	(12,905–21,320)
	301,622	412,916	569,189	618,981	603,280	621,668	817,166
Dietary risk factors and physical inactivity	(272,961–330,840)	(372,739–456,512)	(514,956-627,045)	(564,074–680,883)	(536,517–668,078)	(561,321–677,373)	(735,617–899,523)
	161,554	217,641	279,169	290,751	274,123	257,608	289,503
Diet low in fruits	(126,237–196,989)	(168,649-263,912)	(214,716-340,216)	(227,942-353,986)	(203,954-340,175)	(191,662-316,508)	(216,638–365,241)
	62,086	78,937	103,856	106,317	99,827	100,878	122,541
Diet low in vegetables	(40,722–83,808)	(51,127–108,509)	(70,607-138,638)	(72,267-142,155)	(66,904–137,130)	(67,820–135,679)	(81,657–164,989)
	53,605	67,710	88,344	88,560	82,748	81,129	95,425
Diet low in whole grains	(41,649–65,087)	(52,163-82,264)	(68,947–107,913)	(68,240-108,554)	(63,926–101,816)	(62,808–98,233)	(73,862–116,107)
	80,089	100,555	136,085	142,237	130,536	136,856	183,221
Diet low in nuts and seeds	(53,058–102,549)	(65,763-129,796)	(86,887–174,945)	(90,838-184,758)	(80,829–173,074)	(84,827–181,042)	(110,636–246,285)
	2,441	3,513	4,722	5,172	4,771	4,749	5,163
Diet low in milk	(738–4,125)	(1,058-5,892)	(1.406 - 7.959)	(1,569–8,689)	(1,425-8,120)	(1,421-8,008)	(1,530-8,696)
	904	1,329	1,896	2,074	1,910	2,038	2,329
Diet high in red meat	(248–1,578)	(374–2,281)	(523–3,288)	(570–3,520)	(551–3,255)	(560–3,526)	(641–3,995)
č	32,025	39,236	52,336	53,431	46,928	51,345	68,227
Diet high in processed meat	(6,684–56,192)	(8,484–68,196)	(11,357–93,159)	(11,587–93,453)	(10,304–82,732)	(11,072–89,522)	(14,042–120,678)
	6,706	7,951	10,150	10,332	10,107	9,323	12,422
Diet high in sugar-sweetened beverages	(2,253–10,256)	(4,710–12,410)	(6,001–16,098)	(5,801–16,218)	(5,082–17,054)	(4,392–14,099)	(5,410–16,456)
	28,300	33,932	42,898	42,847	40,001	40,608	51,930
Diet low in fibre	(12,438–44,541)	(15,163–53,317)	(18,957–67,641)	(19,263–67,051)	(17,974–62,924)	(18,078–63,965)	(22,897–82,004)
	2,929	4,286	5,904	6,794	6,762	7,326	9,616
Diet low in calcium	(2,093–3,725)	(3,073–5,446)	(4,216–7,762)	(4,546–9,070)	(4,508–9,208)	(4,556–10,316)	(5,368–14,588)
2.00 to the modernian	48,499	59,015	77,771	78,568	69,841	70,575	88,898
Diet low in seafood omega-3 fatty acids	(34,641–62,537)	(42,693–75,800)	(56,315–99,795)	(56,770–101,051)	(50,677–90,067)	(50,674–90,707)	(63,097–115,124)
Diet ion in searood omega 5 faity acids	20,427	25,100	32,997	33,565	30,126	30,946	39,608
Diet low in polyunsaturated fatty acids	(9,662–31,136)	(11,851–38,830)	(15,409–50,687)	(15,975–51,699)	(14,261–46,521)	(14,634–47,895)	(18,571–61,654)
Distriow in poryunsaturated ratty acids	16,040	20,191	26,346	28,404	25,972	(14,034–47,893)	32,315
Diet high in trans fatty acids							
Diet nigh in trans ratty acids	(11,218–20,838)	(14,531–26,268)	(18,735–34,141)	(20,071–36,880)	(18,434–33,780)	(17,925–32,615)	(22,868–41,828)
Diet high in sodium	80,166	114,794	163,591	182,876	175,205	170,135	204,761
Diet high in sodium	(53,077–106,023)	(76,259–152,811)	(106,039–216,120)	(118,404–244,772)	(113,429–234,245)	(108,845–228,089)	(128,510–280,031)
Physical inactivity and low physical activity							

Web table 2: Global deaths attributable to risk factor	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	52,540	60,494	67,463	50,853	54,021	45,761	4,969
Occupational risk factors	(40,846–65,663)	(43,444–77,118)	(43,366–91,471)	(30,678–72,388)	(31,316–79,229)	(24,882–67,915)	(3,563-7,191)
•	4,696	8,047	10,868	8,869	7,574	5,044	4,969
Occupational carcinogens	(2,940–7,018)	(5,130–11,701)	(7,096–16,020)	(6,022–12,633)	(5.090–11.447)	(3,616–7,443)	(3.563-7.191)
·	935	1,538	2,343	2,959	2,596	2,624	2,753
Occupational exposure to asbestos	(589–1,418)	(969–2,419)	(1,513–3,685)	(1,899–4,554)	(1,706-4,104)	(1,716–4,112)	(1,781-4,400)
·	114	204	267	179	152	70	65
Occupational exposure to arsenic	(43–220)	(77–392)	(101-504)	(68–348)	(58–300)	(26–138)	(24–128)
1 1	37	53	66	97	89	114	82
Occupational exposure to benzene	(15–67)	(22–95)	(28–117)	(41–173)	(37–159)	(48–203)	(34–149)
	6	11	14	10	8	4	4
Occupational exposure to beryllium	(2–11)	(4–19)	(6–25)	(4–17)	(3–15)	(1–7)	(1–6)
1 1 2	21	38	50	33	28	13	12
Occupational exposure to cadmium	(10–36)	(17–64)	(22–85)	(15–57)	(13–49)	(6–24)	(6–22)
	72	128	169	114	95	44	42
Occupational exposure to chromium	(41–111)	(74–197)	(99–262)	(66–176)	(56–154)	(26–76)	(25–70)
occupational enposate to emonitum	1,090	1,929	2,527	1,710	1,446	668	617
Occupational exposure to diesel engine exhaust	(603–1,732)	(1,068–2,998)	(1,434–3,971)	(953–2,720)	(816–2,369)	(373–1,162)	(353–1,046)
occupational exposure to dieser engine exhaust	1,002	1,781	2,338	1,584	1,336	622	586
Occupational exposure to second-hand smoke	(628–1,459)	(1,162–2,532)	(1,572–3,400)	(1,054–2,372)	(905–2,045)	(435–976)	(402–911)
Occupational exposure to second hand smoke	17	23	24	31	25	27	15
Occupational exposure to formaldehyde	(5–37)	(7–52)	(8–53)	(11–63)	(9–50)	(10–53)	(6–27)
occupational exposure to formalderlyde	354	629	829	558	469	218	205
Occupational exposure to nickel	(91–758)	(162–1,340)	(217–1,737)	(143–1,182)	(124–1,013)	(56–474)	(53–446)
Occupational exposure to polycyclic aromatic	162	287	379	255	215	100	95
			(179–647)		(100–371)		
hydrocarbons	(77–270) 775	(134–486) 1,379	1,811	(120–430) 1,227	1,043	(47–181) 483	(44–165)
Occupational exposure to silica		**************************************	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		450
Occupational exposure to sinca	(478–1,139)	(869–2,010)	(1,180–2,630)	(792–1,881)	(679–1,630)	(323–794)	(303–728)
Occupational exposure to sulfuric acid	245	332	421	299	231	113	114
Occupational exposure to sulturic acid	(66–549)	(93–741)	(115–914)	(75–682)	(60–523)	(30–255)	(31–261)
0	3,256	4,151	4,854	3,837	3,971	3,409	0
Occupational asthmagens	(1,435–6,863)	(1,955–8,509)	(2,174–10,049)	(1,752–7,797)	(1,887–7,579)	(1,623–6,763)	(0–0)
	17,024	26,609	38,336	32,280	38,589	36,141	0
Occupational particulate matter, gases, and fumes	(7,973–25,713)	(11,847–40,956)	(17,066–59,385)	(13,904–51,912)	(16,673–61,951)	(16,051–57,616)	(0–0)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	27,564	21,687	13,405	5,867	3,888	1,167	0
Occupational risk factors for injuries	(20,724–35,967)	(16,247–28,409)	(10,019–17,476)	(4,304–7,898)	(2,880–5,234)	(877–1,524)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
exual abuse and violence							
Childhead samuel shore							
Childhood sexual abuse							
Intimate partner violence	1						

Web table 2: Global deaths attributable to risk factor	rs by age and sex in 1990						
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	350,629	8,057	19,175	102,992	95,905	13,793	6,416
Unimproved water and sanitation	(17,531–638,433)	(335-15,998)	(934-36,034)	(5,095-189,089)	(5,086-174,184)	(599-26,036)	(259-12,427)
	140,150	3,122	7,558	41,425	39,333	5,295	2,538
Unimproved water source	(10,042–271,546)	(199-6,746)	(508-14,892)	(2,911-81,169)	(2,933-77,518)	(353-10,822)	(159-5,384)
	244,207	5,697	13,428	71,310	66,144	9,771	4,483
Unimproved sanitation	(7,348–460,913)	(151–11,753)	(420–26,348)	(2,110–137,329)	(2,065–125,840)	(267–19,021)	(103-8,975)
Air pollution							
	1,360,712	13,929	15,163	64,977	45,385	0	0
Ambient particulate matter pollution	(1,166,992–1,559,747)	(8,927–19,586)	(10,123-20,296)	(43,926–86,585)	(30,810–60,136)	(0-0)	(0-0)
	2,221,558	48,208	53,049	223,654	162,385	0	0
Household air pollution from solid fuels	(1,862,975–2,581,337)	(33,065–63,885)	(37,321–67,156)	(162,223–280,860)	(118,948–205,548)	(0-0)	(0-0)
	66,274	0	0	0	0	0	0
Ambient ozone pollution	(22,424–116,663)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
7 Milotent Ozone ponution	100,699	0	0	0	0	0	0
Other environmental risks	(82,720–119,745)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Other environmental risks	(82,/20-119,/43)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Residential radon							
	100,699	0	0	0	0	0	0
Lead exposure	(82,720–119,745)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,668,365	0	107,719	763,998	678,965	1,126	985
Child and maternal undernutrition	(1,396,689–1,986,532)	(0-0)	(68,987-144,127)	(626,300-909,948)	(539,763-857,700)	(770-1,612)	(740-1,436)
	581,921	0	107,719	429,946	44,256	0	0
Suboptimal breastfeeding	(370,598–814,551)	(0-0)	(68,987-144,127)	(264,728-612,610)	(4,631–95,705)	(0-0)	(0-0)
	505,849	0	107,719	398,130	0	0	0
Non-exclusive breastfeeding	(302,585–720,858)	(0-0)	(68,987–144,127)	(232,644–577,305)	(0-0)	(0-0)	(0-0)
	76,073	0	0	31,816	44,256	0	0
Discontinued breastfeeding	(7,809–165,395)	(0-0)	(0-0)	(3,006-72,813)	(4,631-95,705)	(0-0)	(0-0)
	1,065,774	0	0	519,139	546,635	0	0
Childhood underweight	(898,859–1,299,715)	(0-0)	(0-0)	(433,722–617,567)	(444,754–679,669)	(0-0)	(0-0)
	128,675	0	0	3,913	7,079	1,126	985
Iron deficiency	(92,036–156,884)	(0-0)	(0-0)	(2,823-5,655)	(4,809–10,276)	(770-1,612)	(740-1,436)
	168,203	0	0	42,592	125,610	0	0
Vitamin A deficiency	(80,696–298,163)	(0-0)	(0-0)	(19,130-73,100)	(60,020-228,871)	(0-0)	(0-0)
	132,071	0	0	0	132,071	0	0
Zinc deficiency	(23,716–253,841)	(0-0)	(0-0)	(0-0)	(23,716–253,841)	(0-0)	(0-0)
	1,649,238	15,353	17,122	75,745	50,323	0	0
Tobacco smoking, including second-hand smoke	(1,380,504–2,144,408)	(10,426-21,273)	(11,809-22,782)	(51,933-99,291)	(33,956-66,051)	(0-0)	(0-0)
	1,244,106	0	0	0	0	0	0
Tobacco smoking	(961,356–1,781,819)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	405,132	15,353	17,122	75,745	50,323	0	0
Second-hand smoke	(310,224–500,100)	(10,426-21,273)	(11,809-22,782)	(51,933-99,291)	(33,956-66,051)	(0-0)	(0-0)
	702,071	165	134	728	2,637	1,209	952
Alcohol and drug use	(570,285–844,382)	(98–268)	(61–236)	(421-1,192)	(1,322–4,264)	(872–1,573)	(711-1,255)
	682,576	100	51	381	1,698	1,024	752
	002,370	100		501	-,-,-	1,02.	132

Web table 2: Global deaths attributable to risk fa	actors by age and sex in 1990						
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	21,895	65	83	347	939	185	200
Drug use	(15,984–31,023)	(22–132)	(27–152)	(137–765)	(221-2,081)	(65–434)	(80-440)
Dharai at a si a taila fa atau							
Physiological risk factors	1.052.772	0	0	0	0	0	0
High fasting plasma glucose	1,052,773 (881,704–1,230,327)	0 (0-0)	0 (0–0)	(0-0)	0 (0-0)	0 (0–0)	0 (0–0)
riigii fastilig plasilia giucose	1,009,172	0	0	0	0	0	0
High total cholesterol	(829,163–1,218,442)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
riigii totai cilolesteroi		` /	0	0		` ′	. /
High blood pressure	3,880,598	0			0	0	0
riigii blood piessure	(3,559,634–4,250,099)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
High body-mass index	1,076,502	0	0	0	0	0	0
righ body-mass maex	(878,065–1,286,482)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	50,455	0	0	0	0	0	0
Low bone mineral density	(40,408–62,110)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,983,125	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(3,624,593–4,360,772)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,653,787	0	0	0	0	0	0
Diet low in fruits	(1,269,335–2,006,693)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	674,309	0	0	0	0	0	0
Diet low in vegetables	(441,649–910,150)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	580,600	0	0	0	0	0	0
Diet low in whole grains	(447,140–706,303)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	872,483	0	0	0	0	0	0
Diet low in nuts and seeds	(541,757–1,147,258)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	33,312	0	0	0	0	0	0
Diet low in milk	(9,745–57,799)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	12,551	0	0	0	0	0	0
Diet high in red meat	(3,425–22,054)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	334,476	0	0	0	0	0	0
Diet high in processed meat	(71,692–584,050)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	60,442	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(34,097–91,666)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	250,541	0	0	0	0	0	0
Diet low in fibre	(111,867–394,088)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	33,330	0	0	0	0	0	0
Diet low in calcium	(23,008–43,904)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	466,440	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(337,205–601,988)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
m bearood onlega b rady delds	199,388	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(95,418–305,733)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2.22 10 m in porjuinsacurated ratty acres	164,736	0	0	0	0	0	0
Diet high in trans fatty acids	(117,395–211,588)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet ingn in trans larry acids	1,047,642	0	0-0)	0-0)	0	(0=0)	0
Diet high in sodium	′ ′	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet ingh in socium	(666,779–1,397,486)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Physical inactivity and low physical activity							
1 11/51cut muctivity and low physical activity							

Web table 2: Global deaths attributable to risk factor		T 1	Б. 1	Т	Б. 1	D 1	Б.)
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	116,743	0	0	0	0	0	0
Occupational risk factors	(74,642–164,679)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	16,766	0	0	0	0	0	0
Occupational carcinogens	(11,866–24,842)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,033	0	0	0	0	0	0
Occupational exposure to asbestos	(4,012–9,397)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	463	0	0	0	0	0	0
Occupational exposure to arsenic	(176–915)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	770	0	0	0	0	0	0
Occupational exposure to benzene	(292–1,422)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	26	0	0	0	0	0	0
Occupational exposure to beryllium	(10–47)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	74	0	0	0	0	0	0
Occupational exposure to cadmium	(33–130)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
· ·	293	0	0	0	0	0	0
Occupational exposure to chromium	(171–490)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,060	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(1,180–3,422)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,854	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(2,637–6,207)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
r	179	0	0	0	0	0	0
Occupational exposure to formaldehyde	(77–325)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,425	0	0	0	0	0	0
Occupational exposure to nickel	(369–3,031)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	492	0	0	0	0	0	0
hydrocarbons	(230–864)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
nydrocarbons	1,185	0	0	0	0	0	0
Occupational exposure to silica	(797–1,975)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to sinca	193	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(55–452)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to surfure acid	10,485	0-0)	0-0)	0	0	0	0
Occupational asthmagens	'						
Occupational astimagens	(5,116–19,129)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational marticulate matter access and fumas	68,281					0	0
Occupational particulate matter, gases, and fumes	(29,408–112,504)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)	(0-0)
	21,211	0	0	0	0	0	0
Occupational risk factors for injuries	(16,479–27,705)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Sexual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 2: Global deaths attributable to risk factor	rs by age and sex in 1990)					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	5,989	6,668	6,192	5,679	5,783	4,659	4,970
Unimproved water and sanitation	(287–11,946)	(262-12,835)	(275-11,981)	(261-10,770)	(269-11,006)	(205-8,905)	(239-9,497)
	2,332	2,585	2,488	2,312	2,349	1,889	1,962
Unimproved water source	(160-4,949)	(165-5,359)	(163-5,111)	(155-4,666)	(161-4,859)	(121-3,918)	(138-4,066)
	4,220	4,713	4,312	3,932	4,011	3,234	3,489
Unimproved sanitation	(131–8,598)	(114–9,364)	(121-8,575)	(107-7,884)	(115-7,992)	(88-6,441)	(105-6,880)
Air pollution							
	0	0	7,434	10,384	15,759	22,809	31,263
Ambient particulate matter pollution	(0-0)	(0-0)	(5,241-9,893)	(7,385-13,633)	(11,449-21,015)	(16,318-30,130)	(22,030-40,970)
	0	0	11,539	15,821	24,827	35,092	49,316
Household air pollution from solid fuels	(0-0)	(0-0)	(8,869-14,356)	(12,262-19,705)	(19,194-31,052)	(27,078-44,466)	(38,513-61,565)
	0	0	214	256	502	649	1,066
Ambient ozone pollution	(0-0)	(0-0)	(66–405)	(80–468)	(167-930)	(211-1,146)	(350-1,917)
	0	0	2,687	3,534	2,278	3,224	3,810
Other environmental risks	(0-0)	(0-0)	(1,137-4,480)	(1,615-5,759)	(1,631-3,188)	(2,339-4,476)	(3,035-4,763)
Residential radon	, ,	, ,					· · ·
Residential fadoli	0	0	2,687	3,534	2,278	3,224	3,810
Lead exposure	(0-0)	(0-0)	(1,137–4,480)	(1,615–5,759)	(1,631–3,188)	(2,339–4,476)	(3,035–4,763)
Ecau exposure	10,605	18,966	18,343	16,922	16,667	9,684	5,410
Child and maternal undernutrition	(6,423–15,267)	(12,018–25,498)	(11,020–24,593)	(10,098–23,185)	(9,851–23,049)	*	(3,224–7,596)
Clind and material undernation	(0,423-15,267)	(12,018–25,498)	(11,020–24,393)	(10,098–23,183)	(9,851–25,049)	(5,792–13,575)	(3,224–7,396)
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Sucoptimal oreastreeding	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
C	10,605	18,966	18,343	16,922	16,667	9,684	5,410
Iron deficiency	(6,423–15,267)	(12,018–25,498)	(11,020–24,593)	(10,098–23,185)	(9,851–23,049)	(5,792–13,575)	(3,224–7,596)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	1,659	10,828	20,285	35,645	42,540
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(1,076-2,342)	(8,241-20,082)	(13,716–31,531)	(24,979–50,351)	(31,420-58,840)
	0	0	0	8,519	17,271	31,917	36,592
Tobacco smoking	(0-0)	(0-0)	(0-0)	(5,976–17,755)	(10,464-29,029)	(20,612–46,536)	(25,550-54,049)
	0	0	1,659	2,308	3,014	3,728	5,948
Second-hand smoke	(0-0)	(0-0)	(1,076-2,342)	(1,567-3,146)	(1,772–4,530)	(2,173-5,620)	(3,585-8,620)
	8,264	10,273	11,613	13,610	22,143	25,327	28,864
Alcohol and drug use	(6,805–10,460)	(8,528–12,512)	(9,802-13,846)	(11,764–15,875)	(18,326–28,822)	(21,419–30,913)	(24,627–33,907)
	6,830	8,052	9,217	11,512	20,415	23,946	27,667
Alcohol use	(5,769–8,641)	(6,831–9,928)	(7,831–10,842)	(9,922–13,289)	(16,775–26,898)	(20,064–29,599)	(23,384–32,812)
	1,456	2,260	2,455	2,177	1,855	1,562	1,442
Drug use	(757–2,602)	(1,270–3,738)	(1,513–3,894)	(1,389–3,411)	(1,264–2,891)	(1,129–2,315)	(1,070–2,021)

Web table 2: Global deaths attributable to risk fa	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
Physiological risk factors							
	0	0	5,070	6,192	11,594	14,669	27,413
High fasting plasma glucose	(0-0)	(0-0)	(4,088-6,236)	(4,895–7,581)	(9,313–14,011)	(11,597–18,019)	(22,502–32,931)
	0	0	2,052	2,966	6,056	8,933	16,562
High total cholesterol	(0-0)	(0-0)	(1,331–2,949)	(1,961–4,267)	(4,513–8,037)	(6,656–11,673)	(13,084–20,598)
	0	0	7,908	10,297	25,787	35,169	70,373
High blood pressure	(0-0)	(0-0)	(5,329–10,826)	(7,119–13,844)	(20,694–32,040)	(27,884–43,460)	(60,625–82,888)
	0	0	4,606	6,057	12,727	15,961	25,769
High body-mass index	(0-0)	(0-0)	(3,252–6,149)	(4,283–8,037)	(9,546–16,221)	(12,261–20,050)	(20,370–32,083)
	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	18,515	27,254	42,008	62,872	89,073
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(15,647–21,598)	(23,637–30,925)	(36,399–49,088)	(55,065–73,388)	(78,174–102,421)
	0	0	10,638	15,198	23,557	35,664	51,022
Diet low in fruits	(0-0)	(0-0)	(8,171-13,310)	(11,698–18,620)	(18,331-29,974)	(27,188-44,886)	(39,236-63,618)
	0	0	5,192	7,038	9,961	14,184	19,280
Diet low in vegetables	(0-0)	(0-0)	(3,063-7,296)	(4,380-9,614)	(5,825-14,138)	(8,119-20,389)	(10,746-27,371)
	0	0	4,422	6,048	8,680	12,501	16,758
Diet low in whole grains	(0-0)	(0-0)	(3,334-5,574)	(4,630-7,622)	(6,586–11,100)	(9,416–15,783)	(12,664–21,122)
	0	0	4,833	6,919	9,377	13,346	17,615
Diet low in nuts and seeds	(0-0)	(0-0)	(3,203-6,143)	(4,561-8,940)	(6,215-12,094)	(8,732-17,495)	(11,527–22,864)
	0	0	275	442	704	936	1,275
Diet low in milk	(0-0)	(0-0)	(78–491)	(123–771)	(202-1,215)	(252–1,608)	(360–2,225)
	0	0	64	118	200	282	390
Diet high in red meat	(0-0)	(0-0)	(17–110)	(30–212)	(54–354)	(76–488)	(104–668)
	0	0	1,655	2,488	3,384	5,156	6,856
Diet high in processed meat	(0-0)	(0-0)	(373–3,126)	(574–4,558)	(819–5,783)	(1,208–9,144)	(1,694–12,295)
	0	0	877	1,114	1,516	1,898	2,172
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(533–1,269)	(694–1,575)	(538–2,745)	(593–3,268)	(716–4,035)
	0	0	2,066	2,903	4,097	5,344	6,705
Diet low in fibre	(0-0)	(0-0)	(957–3,151)	(1,384–4,359)	(1,939–6,235)	(2,580–8,180)	(3,111–10,224)
210 10 // III 11020	0	0	343	544	856	1,093	1,445
Diet low in calcium	(0-0)	(0-0)	(206–482)	(312–743)	(518–1,147)	(710–1,453)	(976–1,918)
Diet low in culcium	0	0	3,186	4,518	6,011	8,475	11,005
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(2,320–4,065)	(3,274–5,853)	(4,409–7,840)	(6,051–11,089)	(7,802–14,454)
Diet low in searood officga-5 fatty acids	(0=0)	0	1,346	1,885	2,538	3,518	4,575
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(636–2,080)	(915–2,955)	(1,215–3,890)	(1,727–5,398)	(2,234–7,058)
Diet low in polyunsaturated raity acids	0	0	1,119	1,593	2,167	3,126	4,143
Diet high in trans fatty acids		(0-0)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	(1,529–2,953)	(2,240–4,232)	(2,945–5,551)
Diet nigh in trans latty acids	(0-0)	(0=0)	(771–1,495) 4,712	(1,112–2,112) 7,275	11,455	17,785	23,974
Diet high in sodium		•	,	· · · · · · · · · · · · · · · · · · ·	,	,	,
Diet ingn in souluin	(0-0)	(0–0)	(2,750–6,668)	(4,753–9,769)	(6,857–17,174)	(11,150–25,074)	(15,709–32,101)
Physical inactivity and low physical activity							
	2,688	3,608	4,299	4,477	5,850	6,208	7,864
Occupational risk factors	(2,035–3,657)	(2,728-4,817)	(3,347-5,548)	(3,506-5,649)	(4,254–7,633)	(4,498-8,069)	(5,395-10,804)
	81	119	159	210	339	490	843
Occupational carcinogens	(49–130)	(70–192)	(97–251)	(128-320)	(214–525)	(315–752)	(535-1,304)

Web table 2: Global deaths attributable to risk factor	Females,						
isk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	31	31	36	51	83	132	205
Occupational exposure to asbestos	(16–51)	(16–50)	(19–58)	(27-84)	(44–137)	(78–217)	(121-322)
	0	0	1	3	10	15	29
Occupational exposure to arsenic	(0-0)	(0-0)	(0-3)	(1–6)	(3–20)	(5–30)	(11–58)
	42	71	77	78	45	42	21
Occupational exposure to benzene	(16–83)	(28-139)	(30–148)	(30–149)	(17–86)	(16–78)	(8-41)
	0	0	0	0	1	1	2
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–3)
	0	0	0	0	2	2	5
Occupational exposure to cadmium	(0-0)	(0-0)	(0-0)	(0-1)	(1–3)	(1–4)	(2-9)
	0	0	1	2	6	9	18
Occupational exposure to chromium	(0-0)	(0-0)	(0-2)	(1–3)	(3–10)	(5–16)	(10–31)
	0	0	6	13	41	63	129
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(3–12)	(6–24)	(21–73)	(33-112)	(69-220)
	0	0	11	23	76	117	240
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(5–22)	(12–41)	(45–132)	(74–198)	(147-384)
	9	16	18	20	14	14	8
Occupational exposure to formaldehyde	(3–16)	(6–31)	(7–33)	(8–40)	(5–28)	(5–28)	(3-17)
	0	0	4	9	30	44	89
Occupational exposure to nickel	(0-0)	(0-0)	(1–11)	(2-21)	(7–65)	(11–103)	(23-196)
Occupational exposure to polycyclic aromatic	0	0	1	3	10	15	31
hydrocarbons	(0-0)	(0-0)	(1-3)	(1–6)	(4–18)	(7-28)	(14–56)
	0	0	4	7	25	37	75
Occupational exposure to silica	(0-0)	(0-0)	(2–7)	(4–14)	(14–43)	(22–65)	(44–121)
	0	0	1	1	3	6	11
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-2)	(0-6)	(1-12)	(1-19)	(3-32)
	178	272	343	401	628	712	963
Occupational asthmagens	(75–401)	(127–558)	(152–759)	(186-807)	(290-1,261)	(347-1,439)	(452-1,890)
	0	0	785	1,075	2,234	2,892	4,343
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(351-1,325)	(487-1,713)	(1,018-3,590)	(1,393-4,564)	(1,979-6,997)
	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,429	3,218	3,011	2,791	2,650	2,114	1,715
Occupational risk factors for injuries	(1,793-3,324)	(2,359-4,461)	(2,279-4,049)	(2,141-3,748)	(1,935-3,816)	(1,641-2,809)	(1,328-2,262)
	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
exual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 2: Global deaths attributable to risk factor	rs by age and sex in 1990						
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	5,993	7,441	10,030	10,165	9,865	8,496	12,361
Unimproved water and sanitation	(287–11,521)	(336–14,532)	(467–19,862)	(517–20,180)	(465–18,995)	(378–16,307)	(627–23,548)
	2,369	2,825	3,852	3,960	3,878	3,350	4,728
Unimproved water source	(162–4,916)	(181-5,902)	(255–8,376)	(293-8,347)	(257-8,011)	(208-7,025)	(313–9,603)
	4,204	5,313	7,132	7,183	6,938	5,955	8,738
Unimproved sanitation	(124–8,402)	(143–10,759)	(195–14,468)	(218–14,596)	(203–13,931)	(162–11,810)	(288–17,055)
Air pollution							
All pollution	54,046	73,336	111,707	142,119	165,987	199,110	387,304
Ambient particulate matter pollution	(38,883–69,091)	(51,273–95,704)	(81,389–142,223)	(98,529–186,124)	(114,686–214,281)	(137,890–251,054)	(275,527–489,629)
Amorent particulate matter politition	86,101	119,867	181,354	227,705	269,607	275,483	437,548
Household air pollution from solid fuels	(67,571–106,980)	(91,352–148,292)	(141,700–225,320)	(173,140–278,803)	(207,290–331,856)	(212,533–340,451)	(334,811–544,111)
Household all pollution from solid facis	2,131	3,709	6,429	8,711	10,818	11,346	20,444
11.2	(678–3,739)	(1,192–6,564)	(2,111–11,412)	(2,827–15,251)	(3,611–18,984)	(3,697–19,955)	(6,507–36,593)
Ambient ozone pollution	` ' '						` ' ' '
Other environmental risks	6,258	7,926	11,484	13,657	13,738	13,840	18,264
Other environmental risks	(5,028–7,783)	(6,428–9,801)	(9,310–14,088)	(11,230–16,420)	(11,372–16,579)	(11,569–16,433)	(14,945–21,739)
Residential radon							
Residential fador	6,258	7,926	11,484	13,657	13,738	13,840	18,264
Lead exposure	(5,028–7,783)	(6,428–9,801)	(9,310–14,088)	(11,230–16,420)	(11,372–16,579)	(11,569–16,433)	(14,945–21,739)
Zead onposare	1,091	1,227	1,637	1,924	2,369	2,691	8,036
Child and maternal undernutrition	(762–1,580)	(862–1,698)	(1,125–2,361)	(1,282–2,582)	(1,491–3,309)	(1,842–3,671)	(5,718–11,143)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,091	1,227	1,637	1,924	2,369	2,691	8,036
Iron deficiency	(762–1,580)	(862-1,698)	(1,125-2,361)	(1,282-2,582)	(1,491-3,309)	(1,842-3,671)	(5,718–11,143)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	76,992	115,908	162,547	205,181	226,541	228,343	364,226
Tobacco smoking, including second-hand smoke	(55,221–108,336)	(84,799–157,759)	(121,542–230,043)	(149,958–284,345)	(166,738–306,635)	(176,839–330,587)	(299,349–521,567)
m.i	67,068	102,666	142,633	178,619	194,404	185,776	278,639
Tobacco smoking	(44,818–97,996)	(71,940–145,381)	(101,766–209,931)	(123,696–260,353)	(130,651–274,247)	(133,885–290,612)	(214,605–429,742)
	9,924	13,242	19,914	26,562	32,137	42,567	85,587
Second-hand smoke	(6,198–13,638)	(8,265–18,667)	(12,680–26,957)	(17,227–35,711)	(20,395–43,278)	(27,442–56,929)	(57,225–112,448)
Alashal and dura yea	42,987	52,132	72,953	63,761	66,341	94,525	183,455
Alcohol and drug use	(36,781–50,217)	(43,936–61,070)	(61,864–85,562)	(51,391–77,982)	(51,127–82,619)	(69,818–120,014)	(121,787–248,429)
Alcohol use	41,760	50,944	71,603	63,449	66,037	94,204	182,936
Alcohol use	(35,541–48,952)	(42,790–60,020)	(60,510–84,200)	(51,159–77,551)	(50,920–82,365)	(69,520–119,674)	(121,208–247,457)

	Females,						
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	1,611	1,721	2,079	312	304	321	519
Drug use	(1,242–2,288)	(1,357–2,182)	(1,636–2,691)	(195–659)	(163–635)	(183–772)	(288–1,192)
Physiological risk factors							
	45,087	73,652	108,385	140,492	151,485	177,457	291,278
High fasting plasma glucose	(37,408–53,767)	(62,219–86,823)	(91,409–127,338)	(119,506–164,596)	(127,158–177,095)	(146,548–210,962)	(235,746–350,946)
	30,319	46,896	82,633	117,076	133,845	184,409	377,426
High total cholesterol	(23,938–38,209)	(38,424–57,765)	(68,268–98,865)	(96,950–138,842)	(107,313–162,954)	(135,403–235,836)	(309,562–448,311)
	115,508	186,025	284,342	420,833	500,191	706,140	1,518,025
High blood pressure	(100,112–132,648)	(164,527–214,740)	(254,571–323,796)	(382,943–466,796)	(455,565–558,576)	(650,568–770,223)	(1,406,171-1,641,440)
	42,747	62,339	101,668	126,957	139,184	188,706	349,783
High body-mass index	(34,193–52,226)	(50,993–74,846)	(83,811–121,354)	(105,409-149,973)	(114,292–165,765)	(154,513-222,922)	(276,789–422,768)
	1,924	2,262	3,130	4,198	4,931	8,543	25,466
Low bone mineral density	(1,447–2,528)	(1,699-3,019)	(2,280-4,308)	(3,107-5,472)	(3,711-6,459)	(6,278-11,265)	(19,176-33,059)
	154,130	209,480	324,050	436,074	517,508	683,350	1,418,810
Dietary risk factors and physical inactivity	(136,842–173,607)	(187,845-241,672)	(292,151-367,541)	(394,483-489,181)	(465,335–581,643)	(620,976–749,752)	(1,273,536-1,560,003)
	85,813	112,602	157,834	200,605	227,016	269,725	464,114
Diet low in fruits	(66,952–106,408)	(86,574–140,301)	(121,107–195,939)	(154,037-248,681)	(169,460-281,111)	(203,689–331,856)	(349,633–581,084)
	31,772	39,805	58,780	75,235	85,585	112,428	215,050
Diet low in vegetables	(18,703–45,113)	(23,776–56,840)	(37,604–80,563)	(48,756–105,133)	(56,138–117,344)	(73,352–151,662)	(138,443-291,901)
	27,641	35,454	52,925	67,044	76,350	97,041	175,736
Diet low in whole grains	(21,411–34,615)	(27,095–44,836)	(40,221–66,362)	(51,551–83,307)	(58,832–94,654)	(74,164–119,173)	(133,946–215,379)
C	31,465	41,616	68,941	93,780	108,731	148,956	326,906
Diet low in nuts and seeds	(20,000–41,539)	(26,285–56,298)	(44,040–91,218)	(58,963–123,498)	(67,212–144,350)	(91,323–198,325)	(196,128–439,292)
	2,039	2,697	3,700	4,298	4,366	4,997	7,583
Diet low in milk	(580–3,520)	(818–4,630)	(1,076–6,368)	(1,289–7,472)	(1,310–7,506)	(1,441-8,644)	(2,223–13,137)
	660	902	1,323	1,621	1,627	2,054	3,311
Diet high in red meat	(182–1,164)	(250–1,591)	(356–2,315)	(444–2,829)	(447–2,871)	(557–3,613)	(908–5,844)
	11,923	15,832	26,188	35,332	39,526	57,082	129,057
Diet high in processed meat	(2,813–20,933)	(3,739–27,106)	(5,947–45,298)	(7,879–61,701)	(8,422–69,687)	(12,111–100,327)	(26,220–229,386)
Diet ingn in processed meat	3,439	3,947	5,414	6,170	6,818	8,436	18,642
Diet high in sugar-sweetened beverages	(1,036–6,293)	(1,875–7,503)	(2,519–10,089)	(3,561–11,500)	(3,750–13,972)	(3,887–15,291)	(6,876–28,218)
Diet ingn in sugar sweetened severages	10,877	13,908	20,860	26,560	30,822	40,621	85,778
Diet low in fibre	(5,044–16,602)	(6,535–21,388)	(9,565–32,248)	(12,018–41,899)	(13,661–48,867)	(18,170–64,903)	(36,125–139,541)
Diet low in note	2,257	2,948	3,930	4,386	4,470	4,741	6,318
Diet low in calcium	(1,525–2,964)	(2,024–3,870)	(2,629–5,256)	(3,001–5,844)	(3,078–5,985)	(3,241–6,258)	(4,290–8,734)
Dict low in calcium	19,296	24,698	39,852	52,438	58,971	77,862	160,127
Diet low in seafood omega-3 fatty acids	· ·						
Diet low in searood omega-3 ratty acids	(13,913–25,289)	(17,807–32,910)	(28,973–51,998)	(37,878–67,905)	(42,443–76,441)	(56,124–99,071)	(114,316–205,616)
Diet low in polyunsaturated fatty acids	7,922	10,305	16,581	21,982	24,938	33,375	70,423
Diet fow iii poryunsaturated ratty acids	(3,791–12,394)	(5,011–15,798)	(7,862–26,049)	(10,643–33,817)	(11,907–38,651)	(16,113–51,273)	(33,354–109,141)
Dist high in town father a ide	6,654	8,749	13,661	18,207	20,770	25,850	58,696
Diet high in trans fatty acids	(4,755–8,719)	(6,284–11,560)	(9,777–17,960)	(13,023–23,430)	(14,593–26,779)	(18,266–33,300)	(41,495–75,692)
L Divition in	42,315	59,461	93,535	127,253	145,788	179,215	334,875
Diet high in sodium	(27,809–56,539)	(38,564–79,695)	(59,770–126,584)	(80,886–170,937)	(93,041–198,659)	(112,295–242,259)	(209,095–456,881)
Physical inactivity and low physical activity							
i nysicai mactivity and low physical activity							

Veb table 2: Global deaths attributable to risk factor	Females, 50-54 Years	Females, 55-59 Years	Females, 60-64 Years	Females, 65-69 Years	Females, 70-74 Years	Females, 75-79 Years	Females, 80+ Years
191	11,341	14,883	18,064	10,880	12,621	11.773	2,187
ccupational risk factors	(6,798–16,329)	(8,680–22,053)	(10,016–27,727)	(6,148–16,631)	(6,743–19,903)	(6,135–18,529)	(1,613–3,332)
1	1,362	2,191	2,796	2,266	2,180	1,542	2,187
Occupational carcinogens	(879–2,152)	(1,375–3,475)	(1,841–4,396)	(1,505–3,420)	(1,488–3,391)	(1,115–2,245)	(1,613–3,332)
	312	447	640	847	799	929	1,493
Occupational exposure to asbestos	(190–494)	(275–702)	(412-1,003)	(562-1,336)	(533-1,260)	(608-1,478)	(983–2,421)
	49	82	99	63	62	23	27
Occupational exposure to arsenic	(18–97)	(30–162)	(38–196)	(24–122)	(22–129)	(9-51)	(10-55)
•	26	36	46	64	62	84	75
Occupational exposure to benzene	(10–49)	(14–67)	(17–86)	(24–119)	(23–116)	(32–159)	(26–144)
• •	3	5	6	3	3	1	2
Occupational exposure to beryllium	(1–5)	(2–9)	(2–11)	(1–7)	(1–7)	(1–3)	(1–3)
1 1	8	13	16	10	10	4	5
Occupational exposure to cadmium	(3–14)	(5–24)	(7–30)	(4–18)	(4–19)	(2–7)	(2–9)
	31	51	63	40	39	15	18
Occupational exposure to chromium	(17–51)	(28–92)	(35–112)	(22–70)	(22–71)	(8–27)	(10–33)
1 1	216	362	448	280	272	106	125
Occupational exposure to diesel engine exhaust	(120–377)	(192–643)	(246–775)	(153–491)	(147–497)	(57–192)	(67–229)
	400	673	834	527	508	201	242
Occupational exposure to second-hand smoke	(257–654)	(419–1,105)	(521–1,420)	(339–873)	(321–920)	(131–358)	(162–415)
	8	11	11	14	12	14	9
Occupational exposure to formaldehyde	(3–16)	(4–20)	(4–23)	(6–29)	(5–23)	(6–28)	(4–18)
occupational emposare to formal deligible	149	250	306	193	191	74	87
Occupational exposure to nickel	(38–323)	(63–528)	(80–662)	(50–419)	(47–437)	(19–164)	(22–189)
Occupational exposure to polycyclic aromatic	51	86	107	67	65	26	31
hydrocarbons	(23–92)	(38–160)	(50–195)	(31–120)	(29–125)	(11–49)	(14–58)
nydrocurbons	125	209	255	160	157	60	71
Occupational exposure to silica	(78–211)	(125–362)	(153–454)	(99–273)	(98–289)	(37–111)	(44–128)
occupational enposare to sincu	18	31	43	27	28	10	13
Occupational exposure to sulfuric acid	(5–50)	(8–74)	(11–103)	(8–66)	(8–68)	(3–23)	(4–28)
overpunonar emposare to surraine actu	1,194	1,438	1,585	901	974	896	0
Occupational asthmagens	(592–2,404)	(687–2,787)	(706–3,108)	(431–1,594)	(436–1,741)	(423–1,626)	(0-0)
overpunona usumagens	7,346	10,304	13,140	7,528	9,340	9,294	0
Occupational particulate matter, gases, and fumes	(3,075–11,940)	(4,466–16,919)	(5,688–22,093)	(3,125–12,790)	(3,796–16,107)	(3,827–15,961)	(0-0)
Georgian particulate matter, gases, and runes	0	0	0	0	0	0	0
Occupational noise	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational noise	1,438	949	542	184	127	42	0
Occupational risk factors for injuries	(1,137–1,927)	(735–1,264)	(423–712)	(146–241)	(102–163)	(34–53)	(0-0)
occupational ribit ractors for injuries	0	0	0	0	0	0	0
Occupational low back pain	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
exual abuse and violence		,					· , ,
Childhood sexual abuse							
Intimate partner violence							

⁰ indicates zero deaths attributable; blank cells indicate that attributable deaths were not quantified

Web table 3: Global DALYs (in thousands) attribut	table to risk factors by age :	and sex in 2010					
,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	21,187	497	1,004	6,877	5,537	1,163	596
Unimproved water and sanitation	(866–40,957)	(23-998)	(45-1,945)	(298-13,001)	(242-10,497)	(45-2,257)	(24-1,232)
	7,775	196	378	2,675	2,161	399	194
Unimproved water source	(514–15,705)	(14-410)	(25–773)	(178-5,268)	(145-4,285)	(25-815)	(12-421)
	14,927	340	702	4,722	3,806	840	438
Unimproved sanitation	(377–29,705)	(9-718)	(19–1,410)	(123-9,234)	(100-7,526)	(21–1,693)	(11–917)
Air pollution							
The political	76,163	1,423	1,193	5,134	3,213	0	0
Ambient particulate matter pollution	(68,086–85,171)	(903–2,071)	(762–1,683)	(3,490–6,910)	(2,154–4,473)	(0-0)	(0-0)
	108,084	4,831	3,861	17,944	11,048	0	0
Household air pollution from solid fuels	(84,891–132,983)	(3,181–6,620)	(2,602–5,114)	(12,443–22,951)	(7,825–14,805)	(0-0)	(0-0)
r	2,456	0	0	0	0	0	0
Ambient ozone pollution	(837–4,299)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
7 millionent ozone ponution	16,051	0	0	0	3	12	9
Other environmental risks	(13,212–19,503)	(0-0)	(0-0)	(0-0)	(1–6)	(6–22)	(4–16)
Cure en inominental risks	2,114	0	0	0	0	0	0
Residential radon	(273–4,660)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Trestantial radon	13,936	0	0	0	3	12	9
Lead exposure	(11,750–16,327)	(0-0)	(0-0)	(0-0)	(1–6)	(6–22)	(4–16)
2000 Chposure	166,095	0	7,841	66,744	58,676	6,580	4,573
Child and maternal undernutrition	(139,685–193,981)	(0-0)	(4,684–10,683)	(54,093–80,472)	(48,384–70,282)	(4,355–9,552)	(3,021–6,589)
	47,537	0	7,837	36,176	3,524	0	0
Suboptimal breastfeeding	(29,868–67,518)	(0-0)	(4,680–10,678)	(21,735–52,955)	(352–7,682)	(0-0)	(0-0)
2 00 0F 1111111 01 01 111110	41,108	0	7,837	33,271	0	0	0
Non-exclusive breastfeeding	(23,668–58,913)	(0-0)	(4,680–10,678)	(18,610–48,581)	(0-0)	(0-0)	(0-0)
9	6,429	0	0	2,905	3,524	0	0
Discontinued breastfeeding	(605–14,426)	(0-0)	(0-0)	(268–6,661)	(352–7,682)	(0-0)	(0-0)
0	77,316	0	0	40,458	36,858	0	0
Childhood underweight	(64,497–91,943)	(0-0)	(0-0)	(33,383–48,094)	(30,210–44,425)	(0-0)	(0-0)
ŭ	48,225	0	4	3,717	11,670	6,580	4,573
Iron deficiency	(33,769–67,592)	(0-0)	(3–6)	(2,623–5,187)	(7,873–16,572)	(4,355–9,552)	(3,021–6,589)
	10,770	0	0	2,615	8,155	0	0
Vitamin A deficiency	(5,625–17,149)	(0-0)	(0-0)	(1,211-4,453)	(4,281-12,707)	(0-0)	(0-0)
	9,136	0	0	0	9,136	0	0
Zinc deficiency	(2,458–16,903)	(0-0)	(0-0)	(0-0)	(2,458–16,903)	(0-0)	(0-0)
	156,838	1,326	1,118	5,322	3,077	0	0
Tobacco smoking, including second-hand smoke	(136,543–173,057)	(849-1,900)	(748-1,527)	(3,615-7,121)	(2,116-4,148)	(0-0)	(0-0)
	136,907	0	0	0	0	0	0
Tobacco smoking	(117,201–153,778)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	19,931	1,326	1,118	5,322	3,077	0	0
Second-hand smoke	(15,707–24,223)	(849–1,900)	(748–1,527)	(3,615–7,121)	(2,116–4,148)	(0-0)	(0-0)
	120,611	47	40	240	630	220	536
Alcohol and drug use	(107,670–134,693)	(34–74)	(26–65)	(165–394)	(428–921)	(176–288)	(416–679)
	97,237	19	10	90	422	175	404
Alcohol use	(87,087–107,658)	(12-32)	(6–19)	(63–135)	(270-668)	(138–236)	(318–504)

Web table 3: Global DALYs (in thousands) attribu	utable to risk factors by age a						
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	23,810	28	30	149	207	45	132
Drug use	(18,780–29,246)	(16-51)	(17–54)	(83-307)	(107-362)	(27–85)	(87-199)
Physiological risk factors							
	89,012	0	0	0	0	0	0
High fasting plasma glucose	(77,743–101,390)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	40,900	0	0	0	0	0	0
High total cholesterol	(31,662–50,484)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	173,556	0	0	0	0	0	0
High blood pressure	(155,939–189,025)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	93,609	0	0	0	0	0	0
High body-mass index	(77,107–110,600)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	5,216	0	0	0	0	0	0
Low bone mineral density	(4,133–6,418)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	248,884	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(232,462–264,494)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	104,095	0	0	0	0	0	0
Diet low in fruits	(81,833–124,169)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	38,559	0	0	0	0	0	0
Diet low in vegetables	(26,006–51,658)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	40,762	0	0	0	0	0	0
Diet low in whole grains	(32,112–48,486)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	51,289	0	0	0	0	0	0
Diet low in nuts and seeds	(33,482–65,959)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet 10 ii III Italia and beeds	2,101	0	0	0	0	0	0
Diet low in milk	(619–3,544)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dict low in mink	1,853	0	0	0	0	0	0
Diet high in red meat	(870–2,946)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet nigh in red niedt	20,939	0	0	0	0	0	0
Diet high in processed meat	· · · · · · · · · · · · · · · · · · ·						
Diet nigh in processed meat	(6,982–33,468)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet high in sugar-sweetened beverages	5,250	0	0	0	0	0	0
Diet nigh in sugai-sweetened beverages	(3,052–7,402)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low in fibre	16,452	0	0	0	0	0	0
Diet low in libre	(7,401–25,783)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
D' (1 ' 1'	2,590	0	0	0	0	0	0
Diet low in calcium	(1,873–3,322)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
D' 1	28,199	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(20,624–35,974)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	11,680	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(5,360–17,798)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	11,592	0	0	0	0	0	0
Diet high in trans fatty acids	(8,395–14,623)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	61,231	0	0	0	0	0	0
Diet high in sodium	(40,124–80,342)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	69,318	0	0	0	0	0	0
Physical inactivity and low physical activity	(58,646-80,182)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attributa	ble to risk factors by age	and sex in 2010					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	62,488	0	0	0	0	0	0
Occupational risk factors	(49,471–76,240)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
•	2,681	0	0	0	0	0	0
Occupational carcinogens	(1,773–3,689)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1	653	0	0	0	0	0	0
Occupational exposure to asbestos	(389–840)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	63	0	0	0	0	0	0
Occupational exposure to arsenic	(24–114)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	92	0	0	0	0	0	0
Occupational exposure to benzene	(39–163)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	4	0	0	0	0	0	0
Occupational exposure to beryllium	(2–6)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 1	13	0	0	0	0	0	0
Occupational exposure to cadmium	(6–21)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	45	0	0	0	0	0	0
Occupational exposure to chromium	(27–66)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1	523	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(292–789)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 1	572	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(386–762)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	25	0	0	0	0	0	0
Occupational exposure to formaldehyde	(11–47)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
The state of the s	215	0	0	0	0	0	0
Occupational exposure to nickel	(58–443)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	96	0	0	0	0	0	0
hydrocarbons	(45–156)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
nyarovaronis	382	0	0	0	0	0	0
Occupational exposure to silica	(239–526)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 1	71	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(21–152)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 1	2,020	0	0	0	0	0	0
Occupational asthmagens	(1,441–2,871)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
ı C	9,142	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(4,377–14,250)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	3,451	0	0	0	0	0	0
Occupational noise	(2,072-5,574)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
•	23,444	0	0	0	0	0	0
Occupational risk factors for injuries	(17,736–30,904)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	21,750	0	0	0	0	0	0
Occupational low back pain	(14,492–30,533)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	23,519	0	0	0	0	36	338
Sexual abuse and violence	(17,961–30,322)	(0-0)	(0-0)	(0-0)	(0-0)	(25–51)	(241–455)
	7,833	0	0	0	0	36	338
Childhood sexual abuse	(5,964–10,005)	(0-0)	(0-0)	(0-0)	(0-0)	(25–51)	(241–455)
	16,794	0	0	0	0	0	0
Intimate partner violence	(11,373–23,087)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attribut	able to risk factors by ag	e and sex in 2010					
web table 3. Global Did is (in thousands) attribute	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	588	640	625	523	449	362	343
Unimproved water and sanitation	(22–1,216)	(24-1,282)	(25-1,247)	(20-1,005)	(16-892)	(13–717)	(12-681)
	197	219	219	181	151	119	108
Unimproved water source	(12–431)	(13-461)	(14-462)	(12-376)	(10-314)	(7–251)	(7–227)
	428	462	448	375	326	266	256
Unimproved sanitation	(10-898)	(10–947)	(11–927)	(9–746)	(7–663)	(6–545)	(5–527)
Air pollution							
_	0	0	1,300	1,720	2,560	4,020	5,034
Ambient particulate matter pollution	(0-0)	(0-0)	(942-1,672)	(1,266-2,191)	(1,919–3,196)	(3,018-5,014)	(3,709–6,319)
	0	0	1,769	2,236	3,085	4,521	5,424
Household air pollution from solid fuels	(0-0)	(0-0)	(1,255-2,370)	(1,608-3,007)	(2,165-4,117)	(3,191-5,976)	(3.830 - 7.250)
	0	0	22	24	37	54	87
Ambient ozone pollution	(0-0)	(0-0)	(7–45)	(7–49)	(12–69)	(17–100)	(28-164)
The state of the s	0	0	326	455	557	831	1,122
Other environmental risks	(0-0)	(0-0)	(210–475)	(308–636)	(439–787)	(647–1,170)	(911–1,378)
	0	0	11	20	40	88	154
Residential radon	(0-0)	(0-0)	(1–27)	(2–48)	(5–100)	(11–209)	(20–352)
	0	0	315	436	517	743	968
Lead exposure	(0-0)	(0-0)	(200–466)	(291–615)	(405–743)	(583–1,064)	(797–1,158)
1	3,151	3,387	2,862	2,381	2,099	1,737	1,380
Child and maternal undernutrition	(2,247–4,367)	(2,464–4,535)	(2,093–3,837)	(1,726–3,207)	(1,509–2,830)	(1,249–2,395)	(976–1,933)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,151	3,387	2,862	2,381	2,099	1,737	1,380
Iron deficiency	(2,247–4,367)	(2,464-4,535)	(2,093-3,837)	(1,726-3,207)	(1,509-2,830)	(1,249-2,395)	(976-1,933)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	179	3,227	5,265	9,390	12,619
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(121–237)	(2,489-4,466)	(3,703-7,028)	(7,467-11,508)	(10,798–14,465)
	0	0	0	2,997	4,986	8,979	12,032
Tobacco smoking	(0-0)	(0-0)	(0-0)	(2,263-4,240)	(3,409–6,735)	(7,027-11,103)	(10,203–13,935)
	0	0	179	230	280	411	587
Second-hand smoke	(0-0)	(0-0)	(121–237)	(159–301)	(190–365)	(279–543)	(394–768)
	6,298	11,774	12,218	10,290	11,415	11,132	11,297
Alcohol and drug use	(5,275–7,426)	(9,862–13,798)	(10,370–14,182)	(8,805–11,877)	(9,932-13,084)	(9,853-12,582)	(10,082–12,676)
	4,638	7,124	7,220	6,609	8,683	9,165	9,952
Alcohol use	(3,907–5,475)	(6,012–8,308)	(6,154–8,337)	(5,725–7,597)	(7,588-10,000)	(8,090–10,455)	(8,855–11,138)

Web table 3: Global DALYs (in thousands) attrib							
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	1,674	4,690	5,046	3,712	2,768	2,011	1,396
Drug use	(1,254–2,172)	(3,566-5,877)	(3,852-6,317)	(2,865–4,624)	(2,198–3,410)	(1,607–2,448)	(1,102-1,745)
Physiological risk factors							
,	0	0	1,562	2,063	3,629	4,931	7,631
High fasting plasma glucose	(0-0)	(0-0)	(1,296–1,863)	(1,694–2,483)	(3,010–4,311)	(4,140-5,943)	(6,515–8,862)
	0	0	429	600	1,342	2,073	3,298
High total cholesterol	(0-0)	(0-0)	(290–579)	(397–827)	(982–1,744)	(1,525–2,697)	(2,533–4,129)
<u> </u>	0	0	2,009	2,476	4,573	6,591	11,439
High blood pressure	(0-0)	(0-0)	(1,582–2,443)	(1,951-2,994)	(3,813-5,324)	(5,463-7,642)	(10,064-12,774)
	0	0	1,884	2,389	4,383	6,220	8,934
High body-mass index	(0-0)	(0-0)	(1,473–2,365)	(1,841–2,979)	(3,528–5,325)	(4,961–7,582)	(7,297–10,756)
	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	3,873	5,460	8,387	13,242	18,324
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(3,453–4,315)	(4,903–6,044)	(7,612–9,170)	(12,013–14,437)	(16,698–19,962)
The state of the s	0	0	1,852	2,508	3,805	6,140	8,497
Diet low in fruits	(0-0)	(0-0)	(1,436–2,249)	(1,931–3,047)	(2,945–4,599)	(4,772–7,365)	(6,516–10,132)
	0	0	922	1,191	1,675	2,500	3,334
Diet low in vegetables	(0-0)	(0-0)	(596–1,225)	(792–1,578)	(1,071–2,244)	(1,616–3,328)	(2,143–4,418)
Diet iow in vegetables	0	0	975	1,317	1,906	2,846	3,606
Diet low in whole grains	(0-0)	(0-0)	(763–1,183)	(1,010–1,599)	(1,485–2,308)	(2,227–3,408)	(2,841–4,332)
Diet low in whole grains	(0-0)	0	992	1,396	2,025	3,147	4,142
Diet low in nuts and seeds		(0-0)				· ·	
Diet low in nuts and seeds	(0-0)	` '	(667–1,268)	(931–1,796) 50	(1,351–2,642) 76	(2,113–4,041) 111	(2,712–5,373) 161
Diet low in milk		0					
Diet low in mink	(0-0)	(0-0)	(10–63) 51	(15–86)	(20–131)	(31–189) 167	(47–281) 196
Diet high in red meat				78	123		
Diet nigh in red meat	(0-0)	(0-0)	(20–90)	(30–135)	(48–214)	(64–288)	(81–331)
District in annual most	0	0	506	719	1,002	1,485	1,941
Diet high in processed meat	(0-0)	(0-0)	(203–813)	(295–1,146)	(410–1,623)	(554–2,449)	(701–3,157)
D' (1' 1 '	0	0	186	227	271	377	449
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(112–275)	(137–314)	(110–457)	(141–659)	(169–732)
D: (1 ' 61	0	0	402	546	798	1,185	1,529
Diet low in fibre	(0–0)	(0-0)	(178–628)	(243–845)	(343–1,231)	(523–1,851)	(682–2,419)
D' : 1	0	0	46	62	93	134	189
Diet low in calcium	(0-0)	(0-0)	(33–62)	(45–82)	(67–125)	(98–179)	(139–251)
	0	0	605	840	1,201	1,873	2,430
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(428–776)	(588–1,099)	(839–1,554)	(1,385–2,433)	(1,740–3,147)
	0	0	280	381	532	794	1,022
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(135–431)	(178–577)	(252–810)	(377–1,222)	(466–1,554)
	0	0	300	409	561	840	1,080
Diet high in trans fatty acids	(0-0)	(0-0)	(216–389)	(287–526)	(402–721)	(601–1,081)	(759–1,379)
	0	0	680	1,036	1,693	2,918	4,139
Diet high in sodium	(0-0)	(0-0)	(348–992)	(647–1,401)	(1,072-2,319)	(1,883-3,919)	(2,748-5,481)
	0	0	1,354	1,900	2,805	4,132	5,428
Physical inactivity and low physical activity	(0-0)	(0-0)	(1,104–1,619)	(1,579-2,269)	(2,322-3,308)	(3,427-4,904)	(4,592-6,310)
	3,629	6,105	6,918	6,612	6,590	6,451	6,034
Occupational risk factors	(2,835–4,631)	(4,799-7,729)	(5,333-8,727)	(5,220-8,223)	(5,143-8,276)	(5,018-8,167)	(4,657-7,539)

Web table 3: Global DALYs (in thousands) attributal	ole to risk factors by ago	e and sex in 2010					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	17	26	32	37	56	105	194
Occupational carcinogens	(11–24)	(16–40)	(19–47)	(24–54)	(36–80)	(70–151)	(127–272)
	7	8	8	9	12	21	40
Occupational exposure to asbestos	(4–10)	(4–11)	(4–11)	(5–12)	(7–16)	(13–29)	(23–53)
Occupational exposure to arsenic	0	0	0	0	1	2	5
Occupational exposure to arsenic	(0–0) 8	(0–0) 16	(0–0) 14	(0–1) 12	(0–2) 6	(1–5) 6	(2–9)
Occupational exposure to benzene	(3–15)	(7–28)	(6–25)	(5–21)	(2–11)	(3–11)	(1–5)
Occupational exposure to benzene	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–1)
	0	0	0	0	0	1	1
Occupational exposure to cadmium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)
	0	0	0	0	1	2	4
Occupational exposure to chromium	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(1–3)	(2-5)
	0	0	2	4	10	20	40
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(1–3)	(2–6)	(5–15)	(11–31)	(23–61)
	0	0	2	4	11	23	45
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(1–4)	(3–6)	(7–15)	(16–31)	(31–60)
0 (1 (6 111 1	2	3	3	3	2	2	1
Occupational exposure to formaldehyde	(1–3)	(1–6)	(1–6)	(1–6)	(1–4)	(1–5)	(0-3)
Occupational exposure to nickel	0 (0-0)	0	1 (0–2)	2	4	8	17
Occupational exposure to mcker Occupational exposure to polycyclic aromatic	0	(0-0)	0-2)	(0–3)	(1–9)	(2–18)	(4–35) 7
hydrocarbons	(0-0)	(0-0)	(0–1)	(0–1)	(1–3)	(2–6)	(3–12)
nydrocarbons	0	0	1	3	7	14	29
Occupational exposure to silica	(0-0)	(0-0)	(1–2)	(2–4)	(4–10)	(9–20)	(18–40)
1 1	0	0	0	0	1	4	7
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-0)	(0-1)	(0-3)	(1–8)	(2-17)
	172	199	186	159	165	169	188
Occupational asthmagens	(111–254)	(134–284)	(129–263)	(110-225)	(116–236)	(122-249)	(132–281)
	0	0	437	495	605	721	856
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(202–718)	(222–810)	(285–975)	(339–1,161)	(412–1,336)
	149	248	316	371	352	387	382
Occupational noise	(80–253)	(137–415)	(181–527)	(216–610)	(208–581)	(230–630)	(228–618)
Occupational risk factors for injuries	2,201	3,913	3,987	3,369	2,868	2,347	1,818
Occupational risk factors for injuries	(1,638–3,082) 1,090	(2,892–5,394) 1,719	(2,915–5,476) 1,960	(2,460–4,617) 2,180	(2,061–3,918) 2,544	(1,680–3,282) 2,721	(1,290–2,573)
Occupational low back pain	(696–1,585)	(1,133–2,449)	(1,309–2,759)	(1,463–3,059)	(1,709–3,564)	(1,827–3,846)	2,596 (1,748–3,703)
occupational low back pain	2,774	3,384	2,974	2,536	2,368	2,142	1,829
Sexual abuse and violence	(1,968–3,970)	(2,497–4,588)	(2,203–3,882)	(1,942–3,286)	(1,763–3,095)	(1,591–2,857)	(1,355–2,429)
	997	1,084	924	784	735	693	626
Childhood sexual abuse	(720–1,351)	(790–1,449)	(686–1,229)	(583–1,025)	(556–956)	(525–900)	(477–800)
	1,954	2,477	2,194	1,868	1,740	1,546	1,283
Intimate partner violence	(1,136-3,109)	(1,635-3,546)	(1,476-3,033)	(1,310-2,597)	(1,186-2,421)	(1,029-2,219)	(834–1,844)

Web table 3: Global DALYs (in thousands) attributa	ble to risk factors by ag	e and sex in 2010					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	313	320	351	314	303	203	181
Unimproved water and sanitation	(13-625)	(12–636)	(13–723)	(11–642)	(12–619)	(7–415)	(7–380)
	98	95	102	92	83	57	49
Unimproved water source	(7–205)	(6–200)	(7–217)	(6–197)	(5–181)	(4–124)	(3–107)
	233	243	269	240	236	157	141
Unimproved sanitation	(6–483)	(6–500)	(7–570)	(6–505)	(6–508)	(3–333)	(4–296)
Air pollution							
	6,786	8,383	8,354	7,722	7,670	5,931	5,719
Ambient particulate matter pollution	(5,044-8,392)	(6,291-10,400)	(6,322-10,185)	(5,626-9,614)	(5,456-9,640)	(4,275-7,316)	(4,199–7,096)
	7,222	8,812	8,982	8,748	8,338	6,144	5,119
Household air pollution from solid fuels	(5,043-9,671)	(6,002-12,085)	(6,332-11,790)	(5,963-11,784)	(5,626-11,358)	(4,213-8,346)	(3,451-7,114)
	149	242	324	392	426	350	350
Ambient ozone pollution	(51–270)	(82-421)	(111–574)	(129-693)	(149-744)	(116-620)	(119-619)
1	1,610	2,024	2,101	2,031	1,990	1,547	1,434
Other environmental risks	(1,288–2,023)	(1,590–2,548)	(1,653–2,626)	(1,644–2,504)	(1,633–2,436)	(1,288–1,851)	(1,220–1,672)
	247	343	348	306	271	181	106
Residential radon	(32–544)	(44–785)	(44–774)	(39–667)	(36–586)	(25–398)	(15–223)
	1,363	1,681	1,753	1,725	1,720	1,366	1,328
Lead exposure	(1,128–1,641)	(1,408–1,995)	(1,467–2,062)	(1,446–2,021)	(1,445–1,998)	(1,161-1,582)	(1,135–1,528)
	1,153	954	760	583	487	381	366
Child and maternal undernutrition	(792–1,635)	(657-1,340)	(531-1,070)	(414–822)	(346–686)	(271–533)	(265–497)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,153	954	760	583	487	381	366
Iron deficiency	(792–1,635)	(657-1,340)	(531-1,070)	(414-822)	(346–686)	(271–533)	(265–497)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	16,947	20,836	20,562	18,298	16,813	11,903	9,957
Tobacco smoking, including second-hand smoke	(14,623–19,292)	(17,788–23,293)	(17,475–23,109)	(15,314–20,405)	(13,790–19,020)	(9,604–13,608)	(8,074–11,511)
	16,131	19,799	19,455	17,195	15,571	10,893	8,871
Tobacco smoking	(13,788–18,465)	(16,822–22,344)	(16,411–22,067)	(14,247–19,421)	(12,468–17,875)	(8,571–12,644)	(6,929–10,474)
	816	1,037	1,107	1,103	1,242	1,011	1,086
Second-hand smoke	(558–1,063)	(715–1,341)	(761–1,431)	(744–1,424)	(837–1,603)	(677–1,331)	(722–1,418)
	11,000	10,149	7,932	4,428	4,404	3,173	3,387
Alcohol and drug use	(9,825–12,183)	(9,125–11,220)	(7,135–8,752)	(3,904–4,969)	(3,807–5,013)	(2,673-3,656)	(2,706–4,029)
	10,179	9,671	7,671	4,351	4,351	3,143	3,360
Alcohol use	(9,074–11,317)	(8,659–10,698)	(6,897-8,488)	(3,822–4,890)	(3,760-4,961)	(2,636-3,625)	(2,683–3,990)

Web table 3: Global DALYs (in thousands) attribu	itable to risk factors by ago	e and sex in 2010					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	880	539	313	78	53	31	28
Drug use	(715–1,090)	(434–665)	(252–398)	(59–114)	(39–97)	(22–59)	(18–56)
Physiological risk factors							
	9,324	11,995	11,585	10,839	10,417	7,782	7,253
High fasting plasma glucose	(8,027–10,808)	(10,372–13,609)	(10,061-13,136)	(9,494-12,217)	(9,156-11,790)	(6,806-8,784)	(6,282-8,278)
	4,394	5,372	5,348	4,843	5,174	3,854	4,172
High total cholesterol	(3,345-5,530)	(4,155-6,627)	(4,124-6,634)	(3,763-5,954)	(3,853-6,457)	(2,736-5,005)	(3,212-5,237)
	14,823	21,084	21,120	22,553	23,766	20,375	22,748
High blood pressure	(13,013–16,659)	(19,044–23,072)	(19,137–23,093)	(20,599–24,520)	(21,749–25,817)	(18,721-22,034)	(20,806–24,693)
	11,008	12,211	11,895	9,832	9,966	7,297	7,591
High body-mass index	(8,986–13,075)	(10,074–14,489)	(9,882–14,029)	(8,094–11,602)	(8,303-11,697)	(6,000-8,593)	(6,248-8,997)
	600	687	715	702	718	722	1,072
Low bone mineral density	(429–783)	(517–871)	(549–908)	(535–883)	(549–909)	(566–899)	(862–1,323)
•	24,898	30,539	30,850	29,683	30,858	25,140	27,628
Dietary risk factors and physical inactivity	(22,855–26,854)	(28,153–32,873)	(28,539–33,162)	(27,431–32,032)	(28,447–33,218)	(23,217–26,881)	(25,303–29,847)
and the state of t	11,582	14,028	13,359	12,436	12,144	9,324	8,420
Diet low in fruits	(9,142–13,835)	(11,043–16,747)	(10,388–15,993)	(9,678–15,000)	(9,193–14,898)	(7,067–11,363)	(6,353–10,454)
Diet 10 W III II III	4,329	4,877	4,592	4,209	4,313	3,317	3,299
Diet low in vegetables	(2,838–5,799)	(3,263–6,562)	(3,091–6,163)	(2,807–5,686)	(2,864–5,776)	(2,208–4,445)	(2,189–4,470)
Diet iow in regenation	4,546	5,211	4,899	4,365	4,415	3,397	3,279
Diet low in whole grains	(3,572–5,435)	(4,087–6,224)	(3,881–5,812)	(3,437–5,236)	(3,463–5,284)	(2,669–4,076)	(2,529–3,931)
Diet low in whole grains	5,544	6,463	6,247	5,699	5,851	4,571	5,212
Diet low in nuts and seeds	(3,676–7,216)	(4,130–8,447)	(3,980–8,111)	(3,635–7,451)	(3,660–7,746)	(2,832–6,080)	(3,111–7,066)
Diet low in hats and seeds	220	280	282	259	255	196	173
Diet low in milk	(64–372)	(82–483)	(81–476)	(79–434)	(75–426)	(57–335)	(51–290)
Dict low in mink	217	235	210	176	167	123	109
Diet high in red meat	(96–353)	(110–377)	(99–331)	(84–273)	(80–259)	(58–190)	(51–169)
Diet nigh in fed meat	2,455	2,661	2,488	2,123	2,115	1,601	1,843
Diet high in processed meat	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	*	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	*
Diet nigh in processed meat	(823–3,973) 549	(861–4,361) 671	(780–4,078)	(646–3,488)	(613–3,524) 503	(458–2,634)	(506–3,105) 435
Diet high in sugar-sweetened beverages			604	600			
Diet nigh in sugar-sweetened beverages	(194–877)	(221–962)	(205–869)	(414–869)	(345–761)	(255–791)	(217–787)
Diet low in fibre	1,900	2,112	1,907	1,637	1,679	1,322	1,435
Diet low iii libre	(832–2,974)	(939–3,295)	(865–3,008)	(730–2,589)	(746–2,652)	(595–2,080)	(631–2,276)
D' (1 ' 1'	259	335	341	321	322	254	233
Diet low in calcium	(192–338)	(243–434)	(249–441)	(231–413)	(226–422)	(175–339)	(150–324)
	3,206	3,644	3,430	3,063	3,085	2,325	2,497
Diet low in seafood omega-3 fatty acids	(2,300–4,121)	(2,654–4,639)	(2,427–4,388)	(2,253–3,925)	(2,236–3,949)	(1,678–3,011)	(1,791–3,230)
	1,329	1,489	1,405	1,251	1,232	937	1,028
Diet low in polyunsaturated fatty acids	(602–2,040)	(699–2,259)	(644–2,155)	(578–1,926)	(565–1,921)	(435–1,426)	(480–1,577)
	1,369	1,475	1,407	1,212	1,140	860	941
Diet high in trans fatty acids	(975–1,732)	(1,059–1,875)	(1,010–1,782)	(873–1,546)	(822–1,462)	(621–1,095)	(677–1,202)
	5,934	7,658	8,098	8,074	8,183	6,407	6,411
Diet high in sodium	(3,962–7,854)	(5,059–10,082)	(5,395–10,587)	(5,257–10,725)	(5,281–10,919)	(4,103-8,577)	(4,001-8,637)
	6,915	8,283	8,405	7,935	8,249	6,637	7,274
Physical inactivity and low physical activity	(5,828–8,064)	(6,981–9,618)	(7,075-9,796)	(6,698-9,208)	(6,844–9,675)	(5,458–7,867)	(5,838–8,669)

Web table 3: Global DALYs (in thousands) attributal	ble to risk factors by ag	e and sex in 2010					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	5,638	5,154	3,868	2,141	1,940	1,286	121
Occupational risk factors	(4,330–7,095)	(3,948–6,551)	(2,864–4,982)	(1,520–2,814)	(1,361–2,600)	(869–1,775)	(81–161)
	295	488	492	349	310	159	121
Occupational carcinogens	(193–422)	(311–710)	(318–694)	(226–482)	(194–431)	(105–215)	(81–161)
	64	84	98	90	88	67	57
Occupational exposure to asbestos	(36–87)	(48–112)	(59–127)	(54–117)	(52–115)	(41–89)	(36–75)
0	7	13	13	8	7	3	2
Occupational exposure to arsenic	(3–13)	(5–25)	(5–24)	(3–15)	(3–13)	(1–5)	(1–4)
Occupational expenses to hongone	3	4	4	5	5	5	2
Occupational exposure to benzene	(1–5)	(2–8)	(2–7)	(2–9)	(2–8)	(2–9)	(1–4)
Occupational expenses to hemiliam	0	1	1	0	0	0	0
Occupational exposure to beryllium	(0-1)	(0–1)	(0–1)	(0-1)	(0-1)	(0-0)	(0-0)
Occupational exposure to cadmium	2	3	3	2	1	1	0
Occupational exposure to cadmium	(1–2) 5	(1–5) 10	(1–4)	(1–3) 6	(1–2)	(0-1)	(0-1)
Occupational exposure to chromium	(3–8)	(6–14)	(5–14)	(3–9)	•	-	1
Occupational exposure to enformum	61	110	108	69	(3–8) 59	(1–3)	(1–2) 16
Occupational exposure to diesel engine exhaust	(34–94)	(61–171)	(60–165)	(37–104)	(31–91)	(12–36)	(8–25)
Occupational exposure to diesel engine exhaust	(34–94)	120	117	74	64	25	18
Occupational exposure to second-hand smoke	(46–92)	(80–164)	(79–159)	(48–98)	(41–86)	(16–34)	(11–25)
Occupational exposure to second-nand smoke	(40–92)	2	(79–139)	2	1	1	0
Occupational exposure to formaldehyde	(0-3)	(1–4)	(0-3)	(1–3)	(0-2)	(0-2)	(0-1)
Occupational exposure to formulating to	25	45	44	28	24	10	7
Occupational exposure to nickel	(7–51)	(12–95)	(12–92)	(7–56)	(6–50)	(3–20)	(2–15)
Occupational exposure to polycyclic aromatic	11	20	20	13	11	4	3
hydrocarbons	(5–18)	(9–34)	(9–33)	(6–20)	(5–18)	(2–7)	(1–5)
ny arotatoons	44	81	79	51	44	18	12
Occupational exposure to silica	(28–62)	(49–113)	(48–110)	(31–70)	(25–61)	(10–25)	(7–17)
1 1	11	14	13	9	7	3	2
Occupational exposure to sulfuric acid	(3–25)	(4–31)	(4–28)	(3–19)	(2–15)	(1–6)	(1–4)
	192	193	155	95	85	61	0
Occupational asthmagens	(134–295)	(135–309)	(108–246)	(65–156)	(59–137)	(42–99)	(0-0)
	1,079	1,307	1,254	842	861	685	0
Occupational particulate matter, gases, and fumes	(527–1,672)	(650–1,995)	(581–2,008)	(368-1,363)	(381-1,400)	(312-1,102)	(0-0)
	425	292	273	112	116	28	0
Occupational noise	(253–684)	(166-472)	(155–439)	(64–183)	(65–192)	(12-52)	(0-0)
	1,337	906	432	155	89	21	0
Occupational risk factors for injuries	(957-1,958)	(640-1,314)	(309-613)	(110-227)	(64–128)	(16–31)	(0-0)
	2,312	1,966	1,263	589	479	332	0
Occupational low back pain	(1,544–3,241)	(1,316–2,746)	(836–1,761)	(380-839)	(310–680)	(214–476)	(0-0)
	1,559	1,247	858	560	413	267	232
Sexual abuse and violence	(1,156–2,108)	(907-1,694)	(615–1,164)	(399–764)	(287–571)	(187–372)	(159–332)
	539	419	275	164	108	64	46
Childhood sexual abuse	(415–704)	(322–543)	(211–362)	(123–214)	(80–140)	(47–84)	(34–61)
	1,088	881	619	420	322	212	191
Intimate partner violence	(694–1,591)	(559–1,282)	(397–915)	(263–616)	(201–475)	(133–311)	(120-287)

Web table 3: Global DALYs (in thousands) attributa	ble to risk factors by age	and sex in 2010					
(Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	11,022	282	535	3,606	2,894	621	304
Unimproved water and sanitation	(458–21,162)	(11–582)	(22-1,086)	(145–7,051)	(125-5,657)	(25-1,264)	(13-633)
	4,080	113	202	1,419	1,154	216	99
Unimproved water source	(266-8,172)	(7–239)	(13-419)	(92-2,888)	(74-2,304)	(14-450)	(6–218)
	7,735	191	373	2,462	1,969	447	223
Unimproved sanitation	(190–15,338)	(5–418)	(9–787)	(61-5,034)	(48-4,012)	(11–937)	(5-482)
Air pollution							
1	46,732	849	676	2,802	1,744	0	0
Ambient particulate matter pollution	(41,393–52,602)	(497–1,331)	(416–1,019)	(1,853–3,957)	(1,101-2,623)	(0-0)	(0-0)
·	60,170	2,885	2,182	9,898	6,166	0	0
Household air pollution from solid fuels	(45,087–75,153)	(1,761–4,370)	(1,428–3,102)	(6,673–13,353)	(4,242–9,078)	(0-0)	(0-0)
-	1,440	0	0	0	0	0	0
Ambient ozone pollution	(506–2,563)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1	9,434	0	0	0	2	7	5
Other environmental risks	(7,476–12,045)	(0-0)	(0-0)	(0-0)	(1–4)	(3–13)	(2–9)
	1,514	0	0	0	0	0	0
Residential radon	(191–3,383)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	7,920	0	0	0	2	7	5
Lead exposure	(6,491–9,683)	(0-0)	(0-0)	(0-0)	(1–4)	(3–13)	(2–9)
	83,202	0	4,319	35,720	31,250	3,656	2,439
Child and maternal undernutrition	(67,963–99,704)	(0-0)	(2,507–6,136)	(28,074–44,025)	(25,312–38,390)	(2,406–5,314)	(1,603-3,537)
	25,572	0	4,318	19,471	1,783	0	0
Suboptimal breastfeeding	(15,540–37,260)	(0-0)	(2,506–6,135)	(11,387–29,065)	(171–4,021)	(0-0)	(0-0)
	22,258	0	4,318	17,940	0	0	0
Non-exclusive breastfeeding	(12,464–32,936)	(0-0)	(2,506–6,135)	(9,884–27,008)	(0-0)	(0-0)	(0-0)
	3,314	0	0	1,532	1,783	0	0
Discontinued breastfeeding	(324–7,377)	(0-0)	(0-0)	(142–3,512)	(171-4,021)	(0-0)	(0-0)
	41,270	0	0	21,465	19,805	0	0
Childhood underweight	(33,478–50,007)	(0-0)	(0-0)	(16,932–26,531)	(15,520-24,962)	(0-0)	(0-0)
	19,974	0	1	2,025	6,036	3,656	2,439
Iron deficiency	(13,595–28,289)	(0-0)	(1-1)	(1,418-2,808)	(4,082-8,602)	(2,406-5,314)	(1,603-3,537)
	5,672	0	0	1,341	4,331	0	0
Vitamin A deficiency	(2,904–9,348)	(0-0)	(0-0)	(604-2,344)	(2,283-7,091)	(0-0)	(0-0)
	4,880	0	0	0	4,880	0	0
Zinc deficiency	(1,203-9,316)	(0-0)	(0-0)	(0-0)	(1,203-9,316)	(0-0)	(0-0)
	115,496	787	629	2,923	1,669	0	0
Tobacco smoking, including second-hand smoke	(98,595–130,090)	(488-1,207)	(396–904)	(1,957-4,030)	(1,080-2,407)	(0-0)	(0-0)
	105,635	0	0	0	0	0	0
Tobacco smoking	(88,332–120,347)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	9,861	787	629	2,923	1,669	0	0
Second-hand smoke	(7,669–12,312)	(488–1,207)	(396–904)	(1,957–4,030)	(1,080-2,407)	(0-0)	(0-0)
	90,578	29	25	140	361	136	373
Alcohol and drug use	(79,476–101,772)	(20–54)	(13–48)	(80-270)	(229–577)	(105–188)	(285–476)
	74,662	10	6	51	257	108	294
Alcohol use	(65,764–83,831)	(6–19)	(3–12)	(34–87)	(153–449)	(82–149)	(226–373)

Web table 3: Global DALYs (in thousands) attrib	utable to risk factors by age a	and sex in 2010					
()	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	16,248	19	20	88	104	28	79
Drug use	(12,679–20,132)	(9-39)	(9-42)	(35–216)	(40–191)	(15–58)	(50–119)
Physiological risk factors	40 140	0	0	0	0	0	0
High fasting plasma glucose	49,148	0			0		
righ fasting plasma glucose	(41,619–57,197)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
High total cholesterol	23,179				0	0	0
right total cholesterol	(17,148–29,650)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
High blood pressure	99,566	0	0		0	0	0
rigii blood piessule	(88,193–110,943)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
High hade week in day	48,310	0	0	0	0	0	0
High body-mass index	(39,429–57,750)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
T 1 1 1 1	3,105	0	0	0	0	0	0
Low bone mineral density	(2,295–3,831)	(0–0)	(0-0)	(0–0)	(0–0)	(0-0)	(0–0)
	146,574	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(135,045–157,419)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	65,523	0	0	0	0	0	0
Diet low in fruits	(51,056–78,959)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	24,169	0	0	0	0	0	0
Diet low in vegetables	(16,503–32,480)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	24,881	0	0	0	0	0	0
Diet low in whole grains	(19,486–29,709)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	32,615	0	0	0	0	0	0
Diet low in nuts and seeds	(21,258–41,958)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,171	0	0	0	0	0	0
Diet low in milk	(350–1,977)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,026	0	0	0	0	0	0
Diet high in red meat	(484–1,629)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	12,901	0	0	0	0	0	0
Diet high in processed meat	(4,012–21,421)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,142	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(1,755–4,330)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	10,893	0	0	0	0	0	0
Diet low in fibre	(4,903–17,191)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,570	0	0	0	0	0	0
Diet low in calcium	(1,113–2,058)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	18,300	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(13,267–23,201)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	7,521	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(3,455–11,583)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	7,339	0	0	0	0	0	0
Diet high in trans fatty acids	(5,240–9,300)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
<i>y</i>	37,378	0	0	0	0	0	0
Diet high in sodium	(24,639–49,428)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	37,007	0	0	0	0	0	0
Physical inactivity and low physical activity	(30,583–43,466)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 11,010 at that they and low physical activity	(50,505-45,400)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attributa							
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	48,317	0	0	0	0	0	0
Occupational risk factors	(38,407–58,677)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,087	0	0	0	0	0	0
Occupational carcinogens	(1,315–2,928)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	521	0	0	0	0	0	0
Occupational exposure to asbestos	(279–709)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	45	0	0	0	0	0	0
Occupational exposure to arsenic	(17–84)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to benzene	52	0	0	0	0	0	0
Occupational exposure to benzene	(21–92)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to beryllium	3	0	0	0	0	0	0
Occupational exposure to beryllium	(1–5)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
0	10	0	0	0	0	0	0
Occupational exposure to cadmium	(4–16)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to chromium	32	0	0	0	0	0	0
Occupational exposure to chromium	(17–48)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
Occupational exposure to diesel engine exhaust	442	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(232–682)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0	405	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(244–544)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)
0	17	0	0	0	0	0	0
Occupational exposure to formaldehyde	(6–31)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0	151	0	0	0	0	0	0
Occupational exposure to nickel	(38–312)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	73	0	0	0	0	0	0
hydrocarbons	(33–119)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational expenses to cilian	333	0		~	0	0	0
Occupational exposure to silica	(199–463)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)	(0-0)
Occupational exposure to sulfuric acid	66	0	0	0	0	0	0
Occupational exposure to sulturic acid	(19–143)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational asthmagens	1,359	0	0 (0-0)	0	0	0	0
Occupational astimagens	(917–2,153)	(0-0)	()	(0-0)	(0–0)	(0-0)	(0-0)
Occupational particulate matter, gases, and fumes	6,682	0	0		0	0	0
Occupational particulate matter, gases, and fumes	(3,293–10,311)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational noise	2,284 (1,348–3,649)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
Occupational noise	22,434	0	0	0	0	0	(0-0)
Occupational risk factors for injuries	(16,711–29,943)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational risk factors for injuries	13,471	0	0	0	0	0	0
Occupational low back pain	(8,968–18,945)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational low back pain	3,588	0	0	0	0	11	117
exual abuse and violence	(2,669–4,679)	(0-0)	(0-0)	(0-0)	(0-0)	(8–16)	(84–158)
periodic did violence	3,588	0	0	0	0	11	(84–138)
Childhood sexual abuse	(2,669–4,679)	(0-0)	(0-0)	(0-0)	(0-0)	(8–16)	(84–158)
Cinidiood sexual abuse	(2,009–4,079)	0	0	0	0	0	(84–138)
Intimate partner violence	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attributable to			Melas	Melaa	Melaa	Melas	Malaa
Di-L	Males, 15-19 Years	Males, 20-24 Years	Males, 25-29 Years	Males, 30-34 Years	Males, 35-39 Years	Males, 40-44 Years	Males, 45-49 Years
Risk	309	312			241		
Unimproved water and sanitation			310	276		201	190
Ommproved water and samtation	(11–664) 102	(12–638) 105	(12–638) 105	(11–559) 92	(9–485) 78	(7–422) 63	(6–395) 58
Unimproved water source	(6–229)	(6–227)	(6–229)	(6–193)	(5–163)	(4–137)	(4–123)
Ommproved water source	226	226	224	201	178	150	142
Unimproved sanitation	(5–498)	(5–464)	(5–480)	(5–418)	(4–372)	(3–321)	(3–311)
<u>-</u>	(3 470)	(3 404)	(5 400)	(3 410)	(4 3/2)	(5 521)	(3 311)
Air pollution							
	0	0	860	1,162	1,730	2,730	3,408
Ambient particulate matter pollution	(0-0)	(0-0)	(613-1,114)	(838-1,509)	(1,259-2,205)	(2,019-3,419)	(2,512-4,341)
	0	0	1,024	1,333	1,839	2,751	3,266
Household air pollution from solid fuels	(0-0)	(0-0)	(666-1,464)	(872-1,867)	(1,233-2,544)	(1,835-3,749)	(2,215–4,527)
	0	0	12	14	21	33	53
Ambient ozone pollution	(0-0)	(0-0)	(3–27)	(4–30)	(7–43)	(10-66)	(18-109)
	0	0	135	205	327	498	725
Other environmental risks	(0-0)	(0-0)	(101-218)	(159–328)	(257–438)	(388–695)	(568-918)
	0	0	7	12	26	57	105
Residential radon	(0-0)	(0-0)	(1-18)	(1-31)	(3-62)	(6–135)	(13-243)
	0	0	128	193	302	441	620
Lead exposure	(0-0)	(0-0)	(95-212)	(148-314)	(235-407)	(351–597)	(493–764)
	987	710	563	500	474	425	408
Child and maternal undernutrition	(665–1,412)	(492–994)	(397–783)	(353–699)	(331–671)	(291–599)	(281–574)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
5	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
I J.C'.:	987	710	563	500	474	425	408
Iron deficiency	(665–1,412)	(492–994)	(397–783)	(353–699)	(331–671)	(291–599)	(281–574)
Vitamin A deficiency	0	0	0	0	0	0	0
Vitallili A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)	(0-0)
Zinc deficiency							0
Zinc deficiency	(0-0)	(0–0)	(0–0) 90	(0–0) 2,642	(0–0) 4,213	(0–0) 7,425	(0-0) 10,069
Tobacco smoking, including second-hand smoke	(0-0)						
100acco smoking, including second-nand smoke	0	(0-0)	(60–123) 0	(1,962–3,688) 2,528	(2,767–5,793) 4,102	(5,651–9,336) 7,246	(8,511–11,741) 9,823
Tobacco smoking	(0-0)	(0-0)	(0-0)	(1,857–3,566)	(2,646–5,662)	(5,451–9,137)	(8,230–11,512)
Touces smoking	0	0	90	115	(2,646–3,662)	(3,431–9,137)	246
Second-hand smoke	(0-0)	(0-0)	(60–123)	(77–153)	(71–154)	(119–242)	(164–330)
Second hand smoke	4,824	9,104	9,512	8,098	9,179	8,945	9,018
Alcohol and drug use	(4,033–5,706)	(7,657–10,710)	(8,036–11,030)	(6,905–9,391)	(7,946–10,558)	(7,853–10,118)	(7,935–10,170)
	3,775	5,963	6,069	5,522	7,263	7,577	8,096
Alcohol use	(3,118–4,508)	(4,963–7,047)	(5,099–7,099)	(4,724–6,438)	(6,263–8,385)	(6,621–8,645)	(7,066–9,149)
	1,061	3,178	3,486	2,603	1,946	1,402	959

Physiological risk factors	Web table 3: Global DALYs (in thousands) attributable to	risk factors by age and sex	in 2010					
Physiological risk fictors		Males,	Males,	Males,	Males,	Males,	Males,	Males,
Part	Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
Part								
High fasting plasma glacose	Physiological risk factors	0	0	000	1.004	2.100	2.004	1.660
	III ale facella a ul anno altre anno							
High tool cholescerol	High fasting plasma glucose	` ,	. ,	, , ,	, , ,			
High blood pressure	Hi-h 4-4-1 -h -141							
High blood pressure	righ total cholesterol	. ,	()	. ,		. , ,		
High body-mass index	High blood massages							
High body-mass index	High blood pressure	` ,	, ,					
Die low in mineral density	High hady mass index					,		
Decidence mineral density (0-0)	righ body-mass maex	()	(,	. , ,				
Diet any risk factors and physical inactivity	Larry hand mineral density			~				
Diet lay risk factors and physical inactivity	Low bone mineral density	` ,	()	\ /	(/	\ /	(/	(/
Diet low in fruits	Dietom miels feetoms and abresical inactivity						· · · · · · · · · · · · · · · · · · ·	
Diet low in fruits	Dictary fisk factors and physical mactivity	()	()			. , , ,		
Diet low in vegetables	Diat love in fruits							
Diet low in vegetables	Diet low in fruits	. ,						
Diet low in whole grains	Diet leve in vegestehles							
Diet low in whole grains	Diet low iii vegetables	()	()					
Diet low in nuts and seeds	Diet levy in vyhole emaine							
Diet low in muts and seeds	Diet low iii whole grains	` ,						
Diet low in milk	Diet less in meter and accele							
Diet low in milk	Diet low in nuts and seeds	. ,	. ,					
Diet high in red meat	Dist 1 in ill-							
Diet high in red meat (0-0) (0-0) (12-50) (17-77) (28-123) (36-162) (47-183) (47-1	Diet low in milk	` ,	()					
Diet high in processed meat	Dist high in and most							
Diet high in processed meat	Diet nigh in fed meat	. ,	. ,				,	. ,
Diet high in sugar-sweetened beverages (0-0) (0-0) (57-186) (64-215) (63-305) (81-427) (99-485) (90-48	Diet high in processed most							
Diet high in sugar-sweetened beverages (0-0) (0-0) (57-186) (64-215) (63-305) (81-427) (99-485) Diet low in fibre 0 0 287 397 582 867 1.124 0 0 0.0 126-457) (173-633) (245-912) (379-1,373) (479-1,801) Diet low in calcium 0 0 26 36 52 71 105 Diet low in calcium (0-0) (0-0) (18-36) (24-49) (37-72) (51-100) (77-141) 0 0 0 428 610 886 1,386 1,813 Diet low in seafood omega-3 fatty acids (0-0) (0-0) (296-570) (418-821) (610-1,173) (1,004-1,833) (1,251-2,380) Diet low in polyunsaturated fatty acids (0-0) 0 195 270 382 575 746 Diet high in trans fatty acids (0-0) 0 0 1(137-269) (188-376) (271-507) (409-776) (524-1,004)	Diet nigh in processed meat	` ,	()		, ,			
Diet low in fibre 0 0 0 287 397 582 867 1,124	Diet high in sugar sweetened heverages							
Diet low in fibre (0-0) (0-0) (126-457) (173-633) (245-912) (379-1,373) (479-1,801) Diet low in calcium 0 0 26 36 52 71 105 Diet low in calcium (0-0) (0-0) (18-36) (24-49) (37-72) (51-100) (77-141) 0 0 428 610 86 1,386 1,813 Diet low in seafood omega-3 fatty acids (0-0) (0-0) (296-570) (418-821) (610-1,173) (1,004-1,833) (1,251-2,380) Diet low in polyunsaturated fatty acids (0-0) (0-0) (90-308) (125-414) (178-590) (269-898) (334-1,147) Diet high in trans fatty acids (0-0) (0-0) (137-269) (188-376) (271-507) (409-776) (524-1,004) Diet high in trans fatty acids (0-0) (0-0) (137-269) (188-376) (271-507) (409-776) (524-1,004) Diet high in sodium (0-0) (0-0) (165-612) (351-924) (674-1,523) (1,2	Diet ingii in sugai-sweetened beverages	()	. ,				. ,	. ,
Diet low in calcium 0	Diet low in fibre							
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12 17 21 24 39 75 146	Occupational risk factors	•						
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	Occupational carcinogens							

Web table 3: Global DALYs (in thousands) attributable to	Males,						
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	5	6	6	6	9	16	30
Occupational exposure to asbestos	(2-8)	(3–9)	(2-9)	(3–9)	(4–12)	(8-22)	(15–43)
	0	0	0	0	1	2	3
Occupational exposure to arsenic	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(1–3)	(1–6)
	5	9	8	6	3	3	2
Occupational exposure to benzene	(2–9)	(4–16)	(3–14)	(3–11)	(1–6)	(1–5)	(1–3)
	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	1
Occupational exposure to cadmium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)
	0	0	0	0	1	1	2
Occupational exposure to chromium	(0-0)	(0-0)	(0-0)	(0-0)	(0–1)	(1–2)	(1–4)
	0	0	2	3	8	16	33
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(1–3)	(1–5)	(4–12)	(8–25)	(18–51)
	0	0	2	3	7	14	30
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(1–2)	(2–4)	(4–11)	(9–21)	(19–42)
	1	2	2	2	1	2	1
Occupational exposure to formaldehyde	(0–2)	(1–4)	(1–4)	(1–3)	(0-2)	(0-4)	(0-2)
	0	0	1	1	2	5	11
Occupational exposure to nickel	(0-0)	(0-0)	(0–1)	(0-2)	(1–5)	(1–11)	(3–23)
Occupational exposure to polycyclic aromatic	0	0	0	0	1	3	5
hydrocarbons	(0-0)	(0-0)	(0-0)	(0-1)	(1–2)	(1–4)	(2–9)
	0	0	1	2	6	12	24
Occupational exposure to silica	(0-0)	(0-0)	(1–2)	(1–3)	(3–9)	(7–17)	(15–35)
	0	0	0	0	1	3	7
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-0)	(0-1)	(0-3)	(1–7)	(2–15)
	105	126	123	105	106	109	124
Occupational asthmagens	(65–159)	(83–187)	(83–181)	(70–157)	(70–168)	(71-172)	(80–209)
	0	0	304	344	408	491	590
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(146–491)	(160–560)	(198–658)	(241–780)	(288–924)
	98	167	210	243	228	247	244
Occupational noise	(51–166)	(89–276)	(120–350)	(140–405)	(133–377)	(145–411)	(142–398)
	2,091	3,750	3,825	3,230	2,741	2,242	1,737
Occupational risk factors for injuries	(1,532–2,970)	(2,732-5,206)	(2,752-5,302)	(2,313-4,461)	(1,922–3,777)	(1,570-3,178)	(1,197–2,490)
	666	1,064	1,234	1,360	1,545	1,632	1,556
Occupational low back pain	(429–982)	(697-1,528)	(814–1,751)	(914–1,913)	(1,035-2,180)	(1,087-2,308)	(1,040-2,205)
	394	516	444	378	354	335	309
exual abuse and violence	(285–535)	(363–719)	(318-604)	(273–516)	(255–471)	(243–452)	(227–409)
	394	516	444	378	354	335	309
Childhood sexual abuse	(285–535)	(363–719)	(318-604)	(273–516)	(255–471)	(243–452)	(227–409)
	0	0	0	0	0	0	0
Intimate partner violence	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attributa	ble to risk factors by age	and sex in 2010					
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	175	168	167	136	131	87	79
Unimproved water and sanitation	(7–367)	(7–346)	(6–368)	(5–292)	(5-292)	(3-199)	(3–173)
	54	49	49	40	36	24	21
Unimproved water source	(3–114)	(3–104)	(3–108)	(3–84)	(2-80)	(2-54)	(1–49)
	132	128	127	103	102	68	62
Unimproved sanitation	(4–286)	(3–272)	(3–298)	(2–234)	(3–237)	(1–164)	(1–140)
Air pollution							
	4,624	5,630	5,413	4,815	4,479	3,237	2,574
Ambient particulate matter pollution	(3,422-5,857)	(4,228–7,023)	(4,083–6,674)	(3,498-6,042)	(3,177-5,625)	(2,357-4,005)	(1,882-3,176)
	4,413	5,247	5,113	4,740	4,240	2,949	2,123
Household air pollution from solid fuels	(2,925–6,143)	(3,354–7,533)	(3,349–7,065)	(2,928–6,693)	(2,543-6,083)	(1,737–4,251)	(1,229–3,161)
	95	144	193	234	250	205	186
Ambient ozone pollution	(31–179)	(47–267)	(65–357)	(78–424)	(88–448)	(70–370)	(63–334)
r	1,062	1,326	1,334	1,231	1,130	819	627
Other environmental risks	(821–1,380)	(1,002–1,728)	(1,020–1,738)	(949–1,590)	(885–1,459)	(655–1,039)	(512–766)
	177	253	258	225	196	128	70
Residential radon	(22–393)	(31–580)	(33–570)	(29–503)	(26–426)	(17–282)	(10–148)
	885	1,073	1,075	1,007	934	691	558
Lead exposure	(711–1,114)	(857–1,331)	(870–1,323)	(813–1,243)	(761–1,141)	(563–841)	(460–673)
I	378	353	304	243	195	147	130
Child and maternal undernutrition	(263–530)	(245–496)	(213–423)	(174–339)	(138–270)	(104–205)	(96–176)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Ç	378	353	304	243	195	147	130
Iron deficiency	(263–530)	(245–496)	(213–423)	(174–339)	(138–270)	(104–205)	(96–176)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	13,353	16,199	15,714	13,635	12,089	8,269	5,790
Tobacco smoking, including second-hand smoke	(11,445–15,434)	(13,587–18,470)	(13,156–17,916)	(11,247–15,546)	(9,621–14,003)	(6,280–9,556)	(4,545–6,887)
	12,986	15,726	15,208	13,134	11,560	7,877	5,446
Tobacco smoking	(11,014–15,114)	(13,140–18,102)	(12,643–17,420)	(10,720–15,002)	(9,069–13,501)	(5,884–9,216)	(4,205–6,550)
	367	473	506	501	529	393	344
Second-hand smoke	(255–479)	(328–608)	(350–658)	(336–647)	(360–682)	(264–511)	(231–449)
	8,654	7,721	5,822	3,016	2,601	1,694	1,326
Alcohol and drug use	(7,656–9,714)	(6,858–8,624)	(5,142–6,524)	(2,586–3,453)	(2,195–3,001)	(1,394–1,989)	(1,015–1,608)
	8,097	7,400	5,650	2,966	2,570	1,676	1,312
Alcohol use	(7,145–9,098)	(6,538–8,276)	(4,986–6,335)	(2,549–3,395)	(2,162–2,973)	(1,377–1,968)	(1,003–1,595)

Web table 3: Global DALYs (in thousands) attributal	ole to risk factors by age	e and sex in 2010					
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	597	360	205	50	31	18	14
Drug use	(472–764)	(286–454)	(161–262)	(34–78)	(21–56)	(12–37)	(8–31)
Physiological risk factors							
	5,700	7,120	6,601	5,788	5,240	3,718	3,021
High fasting plasma glucose	(4,738–6,704)	(5,961-8,287)	(5,525–7,733)	(4,868–6,762)	(4,412-6,119)	(3,155-4,313)	(2,566-3,484)
	3,047	3,435	3,211	2,616	2,473	1,612	1,233
High total cholesterol	(2,203-3,966)	(2,485-4,419)	(2,344-4,117)	(1,942-3,392)	(1,812-3,210)	(1,142-2,144)	(908–1,583)
	9,833	13,579	13,083	13,092	12,725	9,955	8,772
High blood pressure	(8,496–11,205)	(12,037-15,162)	(11,597-14,643)	(11,687–14,538)	(11,459-14,108)	(8,888-11,037)	(7,845–9,759)
	6,241	6,647	6,310	4,990	4,783	3,188	2,712
High body-mass index	(5,086–7,449)	(5,439–7,891)	(5,204–7,451)	(4,066–5,945)	(3.891-5.714)	(2,580–3,843)	(2,174–3,296)
	404	434	471	426	453	397	520
Low bone mineral density	(263–556)	(303–573)	(328–625)	(301–564)	(316–603)	(291–513)	(397–655)
,	16,349	19,863	19,430	17,840	17,190	12,951	11,431
Dietary risk factors and physical inactivity	(14,655–17,882)	(17,878–21,505)	(17,635–21,230)	(16,217–19,558)	(15,484–18,825)	(11,732–14,088)	(10,368–12,459)
The state of the s	7,976	9,563	8,822	7,823	7,102	5,038	3,736
Diet low in fruits	(6,146–9,695)	(7,391–11,525)	(6,784–10,742)	(6,076–9,538)	(5,167–8,749)	(3,667–6,222)	(2,769–4,726)
	3,006	3,337	3,027	2,616	2,464	1,743	1,387
Diet low in vegetables	(1,977–4,026)	(2,182–4,530)	(2,051–4,111)	(1,730–3,573)	(1,627–3,376)	(1,152–2,378)	(927–1,883)
Diet iow in vegetables	3,071	3,451	3,116	2,641	2,449	1,728	1,334
Diet low in whole grains	(2,377–3,737)	(2,666–4,181)	(2,434–3,768)	(2,042–3,221)	(1,906–2,963)	(1,340–2,093)	(1,028–1,612)
Diet iow in whole grains	4,038	4,550	4,154	3,564	3,319	2,386	2,140
Diet low in nuts and seeds	(2,605–5,324)	(2,900–5,933)	(2,642–5,394)	(2,265–4,697)	(2,078–4,405)	(1,479–3,152)	(1,308–2,905)
Diet low in fluts and seeds	121	161	166	153	145	107	82
Diet low in milk	(36–205)	(48–280)	(48–281)	(47–259)	(44–244)	(31–180)	(24–137)
Dict low in link	120	133	120	101	92	66	50
Diet high in red meat	(54–197)	(62–210)	(55–186)	(48–155)	(43–144)	(29–102)	(22–78)
Diet nigh in red meat	1,691	1,790			1,179	822	741
Diet high in processed meat	· · · · · · · · · · · · · · · · · · ·		1,612	1,302			
Diet nigh in processed meat	(513–2,905)	(531–3,029)	(462–2,775)	(371–2,270)	(335–2,017)	(234–1,410)	(202–1,280)
Diet high in sugar sweetened hevereges	375	437	383	342	267	185	177
Diet high in sugar-sweetened beverages	(115–616)	(131–632)	(119–536)	(229–608)	(182–536)	(117–429)	(88–339)
D' (1 ' C')	1,393	1,509	1,306	1,066	1,003	728	631
Diet low in fibre	(608–2,240)	(664–2,359)	(577–2,068)	(477–1,696)	(455–1,601)	(331–1,139)	(280–1,002)
Bird in the	148	202	213	205	204	161	147
Diet low in calcium	(107–197)	(144–267)	(152–282)	(142–276)	(137–277)	(106–220)	(86–221)
	2,376	2,603	2,305	1,927	1,747	1,207	1,013
Diet low in seafood omega-3 fatty acids	(1,678–3,072)	(1,867–3,361)	(1,626–2,952)	(1,383–2,499)	(1,261–2,263)	(870–1,574)	(716–1,324)
	964	1,047	934	783	704	494	427
Diet low in polyunsaturated fatty acids	(441–1,497)	(487–1,596)	(426–1,457)	(360–1,207)	(315–1,110)	(222–756)	(193–665)
	967	1,014	913	742	639	448	393
Diet high in trans fatty acids	(675–1,255)	(709-1,288)	(641-1,173)	(522–947)	(452–829)	(322–575)	(280–501)
	4,058	5,184	5,305	5,045	4,753	3,442	2,786
Diet high in sodium	(2,696-5,404)	(3,431-6,897)	(3,505-7,017)	(3,285-6,769)	(3,075-6,399)	(2,231–4,610)	(1,731-3,779)
	4,053	4,801	4,749	4,309	4,168	3,125	2,736
Physical inactivity and low physical activity	(3,312-4,827)	(3,928-5,699)	(3,908-5,656)	(3,568-5,096)	(3,374-4,982)	(2,510-3,748)	(2,167–3,322)

Web table 3: Global DALYs (in thousands) attributal	ble to risk factors by ag	e and sex in 2010					
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	4,105	3,785	2,837	1,657	1,489	979	92
Occupational risk factors	(3,193-5,134)	(2,936–4,747)	(2,120-3,626)	(1,184-2,192)	(1,041-2,012)	(654–1,359)	(55–121)
	229	386	393	282	247	127	92
Occupational carcinogens	(143–335)	(233–563)	(241–563)	(172–390)	(146–350)	(77–173)	(55–121)
	50	68	81	74	72	54	44
Occupational exposure to asbestos	(26–71)	(34–94)	(44–110)	(41–102)	(40–98)	(30–75)	(24–60)
	5	10	9	6	5	2	1
Occupational exposure to arsenic	(2–10)	(3–18)	(4–18)	(2–11)	(2–10)	(1–4)	(0–3)
	2	2	2	3	3	3	1
Occupational exposure to benzene	(1–3)	(1–4)	(1–4)	(1–5)	(1–5)	(1–5)	(0–2)
0 4 1 4 1 11	0	1	1	0	0	0	0
Occupational exposure to beryllium	(0-1)	(0–1)	(0-1)	(0-1)	(0-1)	(0-0)	(0-0)
0	1	2	2	1	1	0	0
Occupational exposure to cadmium	(0-2)	(1–4)	(1–3)	(1–2)	(0-2)	(0-1)	(0-0)
0	4	7	7	4	4	1	1
Occupational exposure to chromium	(2–6)	(4–10)	(4–10)	(2–6)	(2–5)	(1–2)	(0–1)
Occupational exposure to diesel engine exhaust	51	94	92	60	51	20	14
Occupational exposure to diesel engine exhaust	(27–81)	(48–148)	(49–142)	(31–92)	(24–77)	(10–32)	(6–20)
Occumational armaguma to accound hand amolto	47	86	85	55	46	18	12
Occupational exposure to second-hand smoke	(28–65)	(52–118)	(51–116)	(32–74)	(26–62)	(10–25)	(7–17)
Occupational exposure to formaldehyde	1	1	1	1	1	1	0
Occupational exposure to formaldenyde	(0–2) 17	(0-3)	(0–2) 32	(0–3) 21	(0–2) 17	(0-1)	(0-0)
Occupational exposure to nickel	(4–36)	32 (8–69)	(8–67)	(5–43)	(4–37)	7 (2–15)	5 (1–10)
Occupational exposure to mcker Occupational exposure to polycyclic aromatic	(4–30)	15	15	10	(4–37)	3	2
hydrocarbons	(4–14)	(7–26)	(7–25)	(4–16)	(3–14)	(1–6)	(1–4)
nydrocarbons	38	70	69	45	39	16	11
Occupational exposure to silica	(22–55)	(41–101)	(41–98)	(26–63)	(21–53)	(8–22)	(5–15)
Occupational exposure to since	10	13	12	8	6	2	2
Occupational exposure to sulfuric acid	(3–23)	(4–28)	(3–26)	(2–18)	(2–14)	(1–5)	(0-4)
occupational enposate to suitaile actu	132	136	111	72	65	46	0
Occupational asthmagens	(86–230)	(88–240)	(71–198)	(43–130)	(40–114)	(28–80)	(0-0)
2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	774	958	925	665	681	543	0
Occupational particulate matter, gases, and fumes	(391–1,211)	(480–1,464)	(433–1,473)	(295–1,078)	(302–1,097)	(250–875)	(0-0)
1 1 70 7	276	199	186	82	84	20	0
Occupational noise	(163–440)	(113–322)	(105–299)	(46–133)	(47–137)	(8–38)	(0-0)
-	1,279	870	414	149	86	21	0
Occupational risk factors for injuries	(900–1,897)	(603–1,280)	(291–592)	(105–221)	(61–124)	(15–30)	(0-0)
	1,415	1,236	809	407	326	222	0
Occupational low back pain	(951–1,999)	(833–1,740)	(539–1,152)	(264–585)	(211–466)	(144–320)	(0-0)
	263	196	122	69	42	24	14
Sexual abuse and violence	(194–357)	(145–265)	(90-167)	(49–95)	(31–57)	(17–33)	(10–19)
	263	196	122	69	42	24	14
Childhood sexual abuse	(194–357)	(145–265)	(90-167)	(49–95)	(31–57)	(17–33)	(10–19)
	0	0	0	0	0	0	0
Intimate partner violence	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attribut	table to risk factors by age a	nd sex in 2010					
·	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	10,165	215	469	3,271	2,643	542	292
Unimproved water and sanitation	(428–19,650)	(10-443)	(21–937)	(144-6,349)	(117-5,122)	(20-1,075)	(10-607)
	3,694	83	176	1,257	1,007	184	95
Unimproved water source	(242–7,511)	(6-178)	(12-372)	(84–2,556)	(69-2,071)	(12–388)	(6-199)
	7,192	149	329	2,260	1,836	393	215
Unimproved sanitation	(187–14,099)	(4–318)	(9-689)	(59–4,548)	(49–3,658)	(9-810)	(5–452)
Air pollution							
	29,431	574	517	2,333	1,469	0	0
Ambient particulate matter pollution	(25,722–33,273)	(339–919)	(309-764)	(1,554-3,271)	(973-2,105)	(0-0)	(0-0)
	47,914	1,945	1,679	8,046	4,881	0	0
Household air pollution from solid fuels	(37,929–58,289)	(1,264–2,835)	(1,122-2,307)	(5,454–10,828)	(3,393–6,615)	(0-0)	(0-0)
	1,016	0	0	0	0	0	0
Ambient ozone pollution	(331–1,758)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,617	0	0	0	1	5	3
Other environmental risks	(5,322–7,938)	(0-0)	(0-0)	(0-0)	(0-3)	(2-9)	(2–6)
	600	0	0	0	0	0	0
Residential radon	(84–1,355)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,017	0	0	0	1	5	3
Lead exposure	(4,915–7,231)	(0-0)	(0-0)	(0-0)	(0-3)	(2-9)	(2–6)
•	82,894	0	3,522	31,024	27,426	2,923	2,134
Child and maternal undernutrition	(69,171–98,757)	(0-0)	(2,135–4,989)	(24,986–37,901)	(22,504–32,654)	(1,958–4,229)	(1,421-3,081)
	21,965	0	3,519	16,705	1,741	0	0
Suboptimal breastfeeding	(13,717–31,340)	(0-0)	(2,132–4,986)	(9,895–24,505)	(174–3,840)	(0-0)	(0-0)
	18,850	0	3,519	15,332	0	0	0
Non-exclusive breastfeeding	(10,926–27,569)	(0-0)	(2,132–4,986)	(8,690–22,846)	(0-0)	(0-0)	(0-0)
· ·	3,114	0	0	1,373	1,741	0	0
Discontinued breastfeeding	(296–6,915)	(0-0)	(0-0)	(128–3,185)	(174–3,840)	(0-0)	(0-0)
•	36,045	0	0	18,993	17,053	0	0
Childhood underweight	(29,430–43,394)	(0-0)	(0-0)	(15,240-22,982)	(13,581–20,993)	(0-0)	(0-0)
	28,251	0	3	1,692	5,634	2,923	2,134
Iron deficiency	(20,195–39,063)	(0-0)	(2-5)	(1,192-2,375)	(3,822-7,961)	(1,958-4,229)	(1,421-3,081)
	5,098	0	0	1,274	3,824	0	0
Vitamin A deficiency	(2,566–8,168)	(0-0)	(0-0)	(566-2,263)	(1,941-6,186)	(0-0)	(0-0)
	4,256	0	0	0	4,256	0	0
Zinc deficiency	(1,131–7,821)	(0-0)	(0-0)	(0-0)	(1,131-7,821)	(0-0)	(0-0)
	41,342	539	489	2,399	1,407	0	0
Tobacco smoking, including second-hand smoke	(30,473–48,563)	(330-825)	(318-690)	(1,594–3,255)	(951-1,921)	(0-0)	(0-0)
	31,272	0	0	0	0	0	0
Tobacco smoking	(19,859–38,467)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	10,070	539	489	2,399	1,407	0	0
Second-hand smoke	(7,931–12,429)	(330-825)	(318-690)	(1,594-3,255)	(951-1,921)	(0-0)	(0-0)
	30,033	18	15	100	268	84	163
Alcohol and drug use	(26,232–34,432)	(11–31)	(8-24)	(61-148)	(161-418)	(63–114)	(127-207)
	22,575	9	4	39	165	67	110
Alcohol use	(19,542–25,693)	(5-18)	(2-10)	(25-63)	(95–267)	(50-91)	(86–138)

Web table 3: Global DALYs (in thousands) attribu	table to risk factors by age an	d sex in 2010					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	7,562	9	11	61	104	18	53
Drug use	(5,922–9,471)	(4–17)	(4–17)	(27–104)	(40-195)	(8-36)	(34–81)
Physiological risk factors	20.064	0	0	0	0	0	0
II:-b-ft:	39,864	0	0	0	0	0	0
High fasting plasma glucose	(34,103–45,972)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
III-b total -b-lt1	17,721	0	0	0	0	0	0
High total cholesterol	(13,153–22,508)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
TT' 1 11 1	73,991	0	0	0	0	0	0
High blood pressure	(66,161–81,931)	(0-0)	(0–0)	(0–0)	(0-0)	(0-0)	(0-0)
****	45,300	0	0	0	0	0	0
High body-mass index	(37,218–54,219)	(0-0)	(0–0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,111	0	0	0	0	0	0
Low bone mineral density	(1,627–2,618)	(0-0)	(0-0)	(0–0)	(0-0)	(0-0)	(0-0)
	102,310	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(94,930–110,079)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	38,573	0	0	0	0	0	0
Diet low in fruits	(29,923–46,512)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	14,389	0	0	0	0	0	0
Diet low in vegetables	(9,434–19,284)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	15,881	0	0	0	0	0	0
Diet low in whole grains	(12,615–18,949)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	18,674	0	0	0	0	0	0
Diet low in nuts and seeds	(11,716–24,404)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	931	0	0	0	0	0	0
Diet low in milk	(264–1,605)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	827	0	0	0	0	0	0
Diet high in red meat	(374–1,362)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	8,038	0	0	0	0	0	0
Diet high in processed meat	(2,932–12,685)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,108	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(1,052–3,335)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
<i>v v v</i>	5,559	0	0	0	0	0	0
Diet low in fibre	(2,500–8,639)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,019	0	0	0	0	0	0
Diet low in calcium	(720–1,319)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2.00 10 W III CALCIAIN	9,899	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(7,241–12,596)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
210 10 Will boarood official 5 fatty dolds	4,159	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(1,973–6,396)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
210t 10w in porjunsaturated ratty acids	4,253	0	0	0	0	0	0
Diet high in trans fatty acids	· ·		(0-0)		(0-0)		
Diet ingii iii tians fatty acius	(3,106–5,416)	(0-0)	0	(0-0)	0	(0-0)	(0-0)
Diet high in godium	23,852						
Diet high in sodium	(15,544–31,682)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dhysical inactivity and low-basis at activity	32,311	0	0	0	0	0	0
Physical inactivity and low physical activity	(27,698–37,217)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attributa	ble to risk factors by age an	d sex in 2010					
,	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	14,171	0	0	0	0	0	0
Occupational risk factors	(10,344–18,842)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	594	0	0	0	0	0	0
Occupational carcinogens	(368–855)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	132	0	0	0	0	0	0
Occupational exposure to asbestos	(61–184)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	18	0	0	0	0	0	0
Occupational exposure to arsenic	(7–33)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	40	0	0	0	0	0	0
Occupational exposure to benzene	(15–72)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1	0	0	0	0	0	0
Occupational exposure to beryllium	(0-2)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1 1	3	0	0	0	0	0	0
Occupational exposure to cadmium	(1–6)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational coposate to cuantum	13	0	0	0	0	0	0
Occupational exposure to chromium	(7–21)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to emornium	81	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(42–126)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to dieser engine exhaust	167	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(95–228)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to second-hand smoke	9	0	0	0	0	0	0
Occupational exposure to formaldehyde							
Occupational exposure to formaldehyde	(4–16)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
0	64	0	0	0	0	0	0
Occupational exposure to nickel	(18–132)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	23	0	0	0	0	0	0
hydrocarbons	(10–39)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	49	0	0	0	0	0	0
Occupational exposure to silica	(26–71)	(0-0)	(0–0)	(0–0)	(0–0)	(0-0)	(0–0)
	6	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(2–13)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	661	0	0	0	0	0	0
Occupational asthmagens	(407–994)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,460	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(1,105–4,025)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,167	0	0	0	0	0	0
Occupational noise	(696–1,870)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,010	0	0	0	0	0	0
Occupational risk factors for injuries	(771–1,331)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	8,279	0	0	0	0	0	0
Occupational low back pain	(5,502-11,602)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	19,931	0	0	0	0	25	220
Sexual abuse and violence	(14,524–26,397)	(0-0)	(0-0)	(0-0)	(0-0)	(17–35)	(152–305)
	4,244	0	0	0	0	25	220
Childhood sexual abuse	(3,082-5,533)	(0-0)	(0-0)	(0-0)	(0-0)	(17–35)	(152–305)
	16,794	0	0	0	0	0	0
Intimate partner violence	(11,373–23,087)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)

Web table 3: Global DALYs (in thousands) attribut	able to risk factors by ag	e and sex in 2010					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	279	328	315	247	208	161	154
Unimproved water and sanitation	(10-579)	(12-659)	(13-631)	(9-483)	(7–418)	(6–333)	(6-316)
	95	114	114	89	73	55	49
Unimproved water source	(6–210)	(7–243)	(7–234)	(6–187)	(4–153)	(4-120)	(3–106)
	202	236	224	175	149	116	114
Unimproved sanitation	(5–428)	(5–485)	(6–459)	(4–354)	(4-310)	(3-249)	(3–240)
Air pollution							
	0	0	441	559	830	1,291	1,626
Ambient particulate matter pollution	(0-0)	(0-0)	(311–586)	(397–729)	(604–1,077)	(936–1,683)	(1,159–2,078)
	0	0	745	903	1,246	1,770	2,158
Household air pollution from solid fuels	(0-0)	(0-0)	(526–994)	(663–1,213)	(893–1,667)	(1,245–2,350)	(1,554–2,858)
	0	0	10	10	16	21	34
Ambient ozone pollution	(0-0)	(0-0)	(3–22)	(3–24)	(4–32)	(6–42)	(11–65)
	0	0	191	250	230	333	397
Other environmental risks	(0-0)	(0-0)	(97-310)	(132–388)	(163-391)	(235–558)	(313-490)
	0	0	4	7	15	31	48
Residential radon	(0-0)	(0-0)	(0-10)	(1–20)	(2-37)	(4–74)	(7–112)
	0	0	187	243	215	302	348
Lead exposure	(0-0)	(0-0)	(93-306)	(126-380)	(152-373)	(209-524)	(277–426)
	2,164	2,677	2,299	1,881	1,624	1,312	972
Child and maternal undernutrition	(1,549–2,974)	(1,951-3,565)	(1,676-3,058)	(1,368-2,506)	(1,173-2,185)	(941-1,799)	(691-1,359)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,164	2,677	2,299	1,881	1,624	1,312	972
Iron deficiency	(1,549–2,974)	(1,951–3,565)	(1,676–3,058)	(1,368–2,506)	(1,173–2,185)	(941-1,799)	(691–1,359)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	89	584	1,052	1,965	2,550
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(59–120)	(407–1,612)	(719–1,745)	(1,265–2,790)	(1,784–3,331)
T 1 1'	0	0	0	469	884	1,733	2,209
Tobacco smoking	(0-0)	(0-0)	(0-0)	(291–1,499)	(561–1,557)	(1,019–2,572)	(1,428–2,994)
Cooond hand amaka	0	0	89	115	168	232	341
Second-hand smoke	(0-0)	(0-0)	(59–120)	(79–153)	(111–227)	(146–327)	(228–465)
Alachel and drug yea	1,474	2,670	2,707	2,191	2,236	2,187	2,279
Alcohol and drug use	(1,200–1,783)	(2,157–3,217)	(2,172–3,284)	(1,812–2,634)	(1,872–2,785)	(1,869–2,660)	(1,979–2,685)
Alcohol use	863	1,161	1,150	1,087	1,421	1,588	1,857
Aiconol use	(714–1,055)	(973–1,390)	(966–1,361)	(919–1,278)	(1,181–1,930)	(1,350–2,002)	(1,598–2,223)
Deno	613	1,512	1,561	1,109	822	608	437
Drug use	(453–818)	(1,127-1,910)	(1,176–2,010)	(848–1,417)	(639–1,036)	(477–765)	(343–545)

Web table 3: Global DALYs (in thousands) attribut	table to risk factors by ag	e and sex in 2010					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
Physiological risk factors							
I hystological fisk factors	0	0	664	839	1,439	1,947	2,968
High fasting plasma glucose	(0-0)	(0-0)	(543–821)	(677–1,024)	(1,159–1,767)	(1,573–2,365)	(2,484–3,535)
Tingii Tuoting Piuoniu giuvose	0	0	127	168	358	541	996
High total cholesterol	(0-0)	(0-0)	(78–184)	(103–246)	(243–494)	(357–746)	(728–1,271)
ingii totai enotestero:	0	0	546	631	1,453	2,021	3,912
High blood pressure	(0-0)	(0-0)	(391–732)	(444–836)	(1,143–1,780)	(1,573–2,498)	(3,336–4,499)
8	0	0	797	989	1,967	2,596	4,023
High body-mass index	(0-0)	(0-0)	(614–1,004)	(760–1,240)	(1,537–2,443)	(2,024–3,202)	(3,226–4,914)
	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
,	0	0	1,450	1,996	3,087	4,761	6,474
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(1,260-1,652)	(1,771–2,247)	(2,720–3,476)	(4,184–5,288)	(5,794–7,191)
	0	0	616	802	1,236	1,976	2,709
Diet low in fruits	(0-0)	(0-0)	(465–762)	(619–1,005)	(948–1,519)	(1,516–2,400)	(2,109–3,259)
	0	0	304	376	534	784	1,037
Diet low in vegetables	(0-0)	(0-0)	(189–417)	(237–511)	(323–739)	(487-1,087)	(623–1,415)
	0	0	341	443	641	944	1,188
Diet low in whole grains	(0-0)	(0-0)	(262–426)	(336–551)	(490–793)	(738-1,152)	(937–1,451)
	0	0	301	402	562	861	1,111
Diet low in nuts and seeds	(0-0)	(0-0)	(197–409)	(259–543)	(362-745)	(527-1,158)	(709-1,455)
	0	0	16	22	35	53	74
Diet low in milk	(0-0)	(0-0)	(4–29)	(6–38)	(9-61)	(16–93)	(20–128)
	0	0	22	34	54	74	87
Diet high in red meat	(0-0)	(0-0)	(8–40)	(13–59)	(20-92)	(28-127)	(35–147)
	0	0	182	250	343	495	619
Diet high in processed meat	(0-0)	(0-0)	(82-304)	(119-417)	(166-558)	(222-801)	(273–980)
	0	0	68	82	98	133	150
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(32–101)	(35–121)	(42–209)	(52–323)	(63–302)
	0	0	115	149	216	318	404
Diet low in fibre	(0-0)	(0-0)	(53–182)	(69–232)	(98-339)	(144–497)	(182–632)
	0	0	20	27	41	62	84
Diet low in calcium	(0-0)	(0-0)	(12–28)	(17–37)	(28–59)	(44–87)	(59–114)
	0	0	177	230	315	487	617
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(122–243)	(157–318)	(221–429)	(328–676)	(423–818)
	0	0	85	111	150	219	276
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(42–130)	(53–171)	(72–236)	(106–346)	(131–424)
	0	0	99	128	171	252	315
Diet high in trans fatty acids	(0-0)	(0-0)	(69–136)	(89–173)	(122–230)	(173–339)	(222–410)
B. d. L. P.	0	0	296	408	609	1,012	1,334
Diet high in sodium	(0-0)	(0-0)	(157–413)	(265–536)	(378–874)	(636–1,402)	(877–1,770)
N . 1	0	0	563	788	1,189	1,732	2,282
Physical inactivity and low physical activity	(0-0)	(0-0)	(461–677)	(657–943)	(973–1,414)	(1,423–2,049)	(1,900–2,680)
	657	982	1,202	1,307	1,524	1,657	1,636
Occupational risk factors	(471–879)	(715–1,298)	(875–1,600)	(951–1,746)	(1,094–2,046)	(1,182–2,231)	(1,162–2,185)
	5	10	11	13	17	31	49
Occupational carcinogens	(3–8)	(5–16)	(6–18)	(8–21)	(10–26)	(18–46)	(27–76)

	Females,						
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	2	2	2	2	4	6	10
Occupational exposure to asbestos	(1–3)	(1–3)	(1–3)	(1–4)	(1–5)	(3–9)	(4–14)
	0	0	0	0	0	1	2
Occupational exposure to arsenic	(0-0)	(0–0)	(0-0)	(0-0)	(0–1)	(0–2)	(1–3)
	3	7	6	6	3	3	1
Occupational exposure to benzene	(1–6)	(2–13)	(2–11)	(2–10)	(1–5)	(1–6)	(1–3)
O	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0–0)	(0–0)	(0-0)	(0-0)	(0-0)
Occupational expenses to admire	0	0	0	0	0	0	0
Occupational exposure to cadmium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-1)
Occupational exposure to chromium	0	0	· ·		0	•	1
Occupational exposure to emolinum	(0-0)	(0-0)	(0-0)	(0–0)	(0-1)	(0–1) 4	(1–2) 7
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	-	•		•	·
Occupational exposure to dieser engine exhaust	(0=0)	(0=0)	(0-1)	(0-2)	(1–3)	(2–7) 8	(3–12) 15
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(0-2)	(1–3)	(2–7)	(4–12)	(8–23)
Occupational exposure to second-hand smoke	(0-0)	(0=0)	1	1 1	1	(4–12)	0
Occupational exposure to formaldehyde	(0-1)	(0-3)	(0-2)	(0-3)	(0-1)	(0-2)	(0-1)
Occupational exposure to formalidely de	0	0	0	1	2	3	6
Occupational exposure to nickel	(0-0)	(0-0)	(0-1)	(0-2)	(0-4)	(1–7)	(1–13)
Occupational exposure to polycyclic aromatic	0	0	0	0	1	1	2
hydrocarbons	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(0-2)	(1–4)
nydrocarbons	0	0	0	0	1	2	4
Occupational exposure to silica	(0-0)	(0-0)	(0-0)	(0-1)	(1–2)	(1–4)	(2-7)
1	0	0	0	0	0	0	1
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0–1)	(0-2)
• •	67	73	63	55	59	60	64
Occupational asthmagens	(36–110)	(43–114)	(38–98)	(34–82)	(36–91)	(39–90)	(41–94)
	0	0	133	151	197	231	266
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(57–227)	(63–256)	(85–329)	(99–385)	(118-439)
	50	82	106	128	124	140	138
Occupational noise	(28-86)	(44–139)	(60-179)	(71–209)	(73–207)	(81-232)	(81-223)
	110	163	163	139	127	106	80
Occupational risk factors for injuries	(85-142)	(125–215)	(122–214)	(106–185)	(90-179)	(76–145)	(58–113)
	424	654	726	820	1,000	1,089	1,040
Occupational low back pain	(272–618)	(435–932)	(486–1,019)	(550-1,149)	(670-1,408)	(725–1,538)	(695–1,466)
	2,380	2,868	2,530	2,157	2,015	1,807	1,520
xual abuse and violence	(1,594–3,553)	(2,035–3,986)	(1,818–3,418)	(1,594–2,912)	(1,439–2,708)	(1,286–2,481)	(1,069–2,093)
a	603	568	481	406	381	358	316
Childhood sexual abuse	(410–887)	(391–806)	(335–661)	(294–544)	(278–515)	(261–479)	(234–420)
	1,954	2,477	2,194	1,868	1,740	1,546	1,283
Intimate partner violence	(1,136–3,109)	(1,635-3,546)	(1,476–3,033)	(1,310-2,597)	(1,186–2,421)	(1,029-2,219)	(834–1,844)

Web table 3: Global DALYs (in thousands) attribut							
	Females,						
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	138	152	184	179	172	115	102
Unimproved water and sanitation	(5–278)	(6–318)	(7–398)	(6–393)	(6–377)	(4–253)	(4–226)
	45	46	53	52	47	32	28
Unimproved water source	(3–92)	(3–102)	(3–115)	(3–116)	(3–108)	(2–75)	(2–66)
	101	115	141	137	134	89	79
Unimproved sanitation	(2–211)	(3–249)	(4–320)	(3–315)	(3–314)	(2–206)	(2–180)
Air pollution							
•	2,161	2,753	2,941	2,908	3,190	2,694	3,145
Ambient particulate matter pollution	(1,574–2,726)	(1,957–3,493)	(2,113–3,685)	(2,066-3,714)	(2,253–4,069)	(1,894–3,383)	(2,299-3,970)
	2,810	3,565	3,869	4,008	4,098	3,195	2,996
Household air pollution from solid fuels	(2,007–3,671)	(2,489–4,716)	(2,783–5,028)	(2,840–5,300)	(2,957–5,459)	(2,281–4,288)	(2,076–4,123)
	55	98	131	158	176	145	163
Ambient ozone pollution	(17–101)	(31–181)	(43–238)	(48–281)	(60–317)	(47–253)	(53–288)
Ambient ozone ponution	` ′		. , ,		. ,		. , ,
Other environmental risks	547	698	767	800	860	728	807
Other environmental risks	(424–687)	(542–864)	(599–948)	(634–978)	(686–1,037)	(597–871)	(670–950)
Residential radon	70	90	90	82	74	53	37
Residential radon	(9–157)	(14–205)	(12–201)	(12–181)	(11–165)	(8–123)	(5–81)
Y 1	478	608	678	718	786	675	770
Lead exposure	(384–589)	(486–742)	(540–833)	(578–868)	(637–953)	(560–812)	(643–904)
	776	601	457	340	292	234	236
Child and maternal undernutrition	(528–1,104)	(412–851)	(318–647)	(240–486)	(208–411)	(166–327)	(169–324)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	776	601	457	340	292	234	236
Iron deficiency	(528–1,104)	(412–851)	(318–647)	(240–486)	(208–411)	(166–327)	(169–324)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	3,594	4,637	4,848	4,663	4,724	3,634	4,167
Tobacco smoking, including second-hand smoke	(2,471–4,446)	(3,128–5,618)	(3,262–5,941)	(3,165–5,670)	(3,118–5,779)	(2,470–4,496)	(2,847–5,109)
	3,145	4,072	4,247	4,061	4,011	3,016	3,425
Tobacco smoking	(1,992–4,008)	(2,503-5,090)	(2,670-5,330)	(2,522-5,109)	(2,380-5,118)	(1,842-3,870)	(2,069–4,366)
	448	565	601	602	714	618	742
Second-hand smoke	(299–598)	(387–740)	(404–797)	(408–792)	(486–931)	(410-824)	(493–977)
	2,346	2,428	2,110	1,413	1,803	1,480	2,061
Alcohol and drug use	(2,041-2,707)	(2,096-2,814)	(1,793-2,461)	(1,149-1,691)	(1,422-2,165)	(1,139–1,813)	(1,480-2,586)
	2,082	2,271	2,022	1,385	1,781	1,467	2,047
Alcohol use	(1,807-2,427)	(1,949-2,642)	(1,707-2,374)	(1,124–1,666)	(1,401-2,145)	(1,126-1,802)	(1,467-2,574)

Web table 3: Global DALYs (in thousands) attribu			F1	E1	F1	F1	E1
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	283	179	108	28	22	13	14
Drug use	(220–358)	(140–228)	(85–138)	(19–42)	(14–41)	(8–27)	(8–30)
Physiological risk factors							
	3,624	4,875	4,985	5,051	5,177	4,064	4,232
High fasting plasma glucose	(3,056–4,285)	(4,143-5,674)	(4,262-5,711)	(4,359–5,746)	(4,394–5,957)	(3,458–4,679)	(3,524–4,911)
	1,347	1,937	2,138	2,227	2,701	2,242	2,939
High total cholesterol	(995–1,734)	(1,438-2,475)	(1,585-2,709)	(1,656-2,808)	(1,909-3,502)	(1,530-3,022)	(2,167-3,784)
	4,990	7,504	8,037	9,461	11,041	10,420	13,976
High blood pressure	(4,254-5,744)	(6,605-8,507)	(7,030-9,016)	(8,477-10,562)	(9,932-12,164)	(9,396-11,498)	(12,685–15,323)
	4,767	5,564	5,585	4,842	5,184	4,108	4,879
High body-mass index	(3,856-5,740)	(4,573-6,685)	(4,622-6,674)	(3,997-5,766)	(4,323-6,120)	(3,381-4,873)	(3,990-5,835)
	197	252	244	277	265	325	552
Low bone mineral density	(133–278)	(176-342)	(176–323)	(205–363)	(197–347)	(245-417)	(415–697)
	8,549	10,676	11,420	11,843	13,668	12,189	16,197
Dietary risk factors and physical inactivity	(7,717–9,437)	(9,616–11,762)	(10,276-12,487)	(10,768-13,035)	(12,443–14,843)	(11,133-13,298)	(14,739-17,548)
	3,606	4,466	4,537	4,614	5,042	4,285	4,684
Diet low in fruits	(2,836–4,305)	(3,439–5,411)	(3,529-5,520)	(3,500-5,668)	(3,822–6,192)	(3,251-5,249)	(3,532-5,796)
	1,323	1,539	1,565	1,593	1,849	1,575	1,912
Diet low in vegetables	(835–1,835)	(984–2,101)	(1,007–2,127)	(1,035-2,182)	(1,216–2,510)	(1,052–2,138)	(1,248–2,586)
J	1,475	1,760	1,783	1,725	1,966	1,669	1,945
Diet low in whole grains	(1,145–1,768)	(1,358–2,127)	(1,386–2,157)	(1,344–2,092)	(1,542–2,370)	(1,299–2,022)	(1,502–2,353)
	1,506	1,913	2,093	2,136	2,533	2,185	3,072
Diet low in nuts and seeds	(954–1,993)	(1,220–2,577)	(1,294–2,809)	(1,337–2,859)	(1,550–3,406)	(1,332–2,928)	(1,813–4,183)
	99	119	117	106	110	89	91
Diet low in milk	(27–174)	(34–205)	(31–202)	(31–184)	(31–188)	(25–153)	(25–156)
2 3 3 7 3 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3	96	103	90	76	75	58	59
Diet high in red meat	(41–160)	(46–168)	(43–147)	(36–121)	(35–120)	(28–90)	(28–92)
Diet ingli in red med	764	871	876	821	936	778	1,102
Diet high in processed meat	(307–1,246)	(327–1,415)	(304–1,458)	(261–1,414)	(282–1,596)	(228–1,303)	(302–1,923)
Diet ingil in processed meat	174	235	221	259	236	193	258
Diet high in sugar-sweetened beverages	(72–359)	(76–407)	(71–384)	(82–403)	(78–386)	(120–420)	(112–494)
Diet ingii in sugar-sweetened beverages	507	604	601	571	676	594	804
Diet low in fibre							
Diet low in note	(230–782)	(274–936)	(272–937)	(255–893)	(291–1,068)	(262–954)	(347–1,288)
Diet low in calcium	112	133	128	115	118	93	86
Diet low in calcium	(77–149)	(92–177)	(90–175)	(80–150)	(79–154)	(63–123)	(58–114)
Diet 1inf1 2 f-tti1-	830	1,041	1,125	1,136	1,338	1,117	1,484
Diet low in seafood omega-3 fatty acids	(594–1,094)	(739–1,363)	(782–1,476)	(821–1,498)	(948–1,754)	(808–1,448)	(1,078–1,929)
D: .1	365	442	471	468	529	443	601
Diet low in polyunsaturated fatty acids	(171–568)	(212–686)	(221–735)	(226–738)	(259–820)	(214–686)	(288–928)
D: .1:11	402	461	493	470	501	412	549
Diet high in trans fatty acids	(290–522)	(327–598)	(353–652)	(338–619)	(365–647)	(299–528)	(390–718)
	1,876	2,474	2,794	3,029	3,430	2,965	3,625
Diet high in sodium	(1,211–2,501)	(1,589–3,299)	(1,814–3,739)	(1,932–4,041)	(2,177–4,581)	(1,888–3,989)	(2,272–4,929)
	2,862	3,482	3,655	3,626	4,081	3,512	4,538
Physical inactivity and low physical activity	(2,422-3,326)	(2,938-4,061)	(3,118-4,230)	(3,073-4,193)	(3,407–4,816)	(2,894–4,118)	(3,634–5,414)

Web table 3: Global DALYs (in thousands) attributal	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	1,533	1,369	1,031	484	451	308	30
Occupational risk factors	(1,099-2,045)	(988-1,835)	(740-1,389)	(338–651)	(309-610)	(203-425)	(17-42)
	65	103	99	67	63	32	30
Occupational carcinogens	(39–97)	(60–157)	(56–148)	(39–97)	(35–91)	(18–45)	(17–42)
	13	16	17	16	16	13	14
Occupational exposure to asbestos	(6–20)	(7–23)	(8-24)	(7–22)	(7–22)	(6–18)	(7–19)
	2	4	3	2	2	1	1
Occupational exposure to arsenic	(1–4)	(1–7)	(1–7)	(1–4)	(1–4)	(0-1)	(0-1)
	1	2	2	2	2	2	1
Occupational exposure to benzene	(0-2)	(1–4)	(1–3)	(1–4)	(1–3)	(1–4)	(0-2)
	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0–0)	(0–0)	(0-0)	(0–0)	(0-0)
	0	1	1	0	0	0	0
Occupational exposure to cadmium	(0-1)	(0-1)	(0–1)	(0–1)	(0–1)	(0–0)	(0-0)
	2	3	3	2	1	1	0
Occupational exposure to chromium	(1–3)	(1–5)	(1–4)	(1–2)	(1–2)	(0-1)	(0-1)
	10	17	16	9	9	3	3
Occupational exposure to diesel engine exhaust	(5–16)	(9–27)	(8–25)	(5–15)	(4–14)	(1–5)	(1–5)
	20	34	32	20	18	7	6
Occupational exposure to second-hand smoke	(11–30)	(20–49)	(18–48)	(11–28)	(9–26)	(3–9)	(3–9)
0 (1 (111 1	0	0	0	0	0	0	0
Occupational exposure to formaldehyde	(0-1)	(0-1)	(0-1)	(0-1)	(0-1)	(0-1)	(0-0)
Occupational exposure to nickel	8	13	12	7	7	3	2
	(2–16)	(3–29)	(3–27)	(2–16)	(2–15)	(1–6)	(1–5)
Occupational exposure to polycyclic aromatic	-			3	3	1	1
hydrocarbons	(1–5)	(2–8)	(2–8)	(1–5)	(1–4)	(0–2)	(0-2)
Occupational exposure to silica	6 (3–9)	10	9	6	5	-	2
Occupational exposure to sinca	(3–9)	(6–16)	(5–14)	(3–9)	(3–8)	(1–3)	(1–3)
Occupational exposure to sulfuric acid	(0-2)	(0-2)	(0-3)	(0–1)	(0-2)	(0-1)	(0-0)
Occupational exposure to sulture acid	60	57	44	23	20	15	0
Occupational asthmagens	(40–89)	(37–85)	(27–68)	(13–36)	(11–33)	(9–23)	(0-0)
occupational astimagens	305	350	329	177	180	142	0
Occupational particulate matter, gases, and fumes	(137–493)	(159–569)	(144–546)	(71–300)	(75–307)	(58–240)	(0-0)
paraeanae maner, gases, and runies	149	94	87	30	31	8	0
Occupational noise	(89–239)	(53–155)	(49–145)	(17–49)	(18–52)	(3–14)	(0-0)
1	58	36	18	6	3	1	0
Occupational risk factors for injuries	(42–81)	(25–50)	(13–26)	(4–8)	(3–5)	(1–1)	(0-0)
	897	730	454	182	153	110	0
Occupational low back pain	(597–1,253)	(480–1,024)	(296–642)	(116–266)	(99–222)	(71–161)	(0-0)
1	1,296	1,052	736	492	371	244	218
exual abuse and violence	(909–1,810)	(721–1,464)	(509–1,041)	(334–690)	(246–525)	(161–343)	(145–317)
	276	224	153	95	65	40	33
Childhood sexual abuse	(203–371)	(164–299)	(114–206)	(69–127)	(47–88)	(29–55)	(24–45)
	1,088	881	619	420	322	212	191
Intimate partner violence	(694–1,591)	(559–1,282)	(397–915)	(263–616)	(201–475)	(133–311)	(120–287)

0 indicates zero deaths attributable; blank cells indicate that attributable deaths were not quantified

Web table 4: Global DALYs (in thousands) attribut	table to risk factors by age	and sex in 1990					
Risk	Both Sexes, All Ages	Both Sexes, 0-6 Days	Both Sexes, 7-27 Days	Both Sexes, 28-364 Days	Both Sexes, 1-4 Years	Both Sexes, 5-9 Years	Both Sexes, 10-14 Years
	52,169	1,535	3,693	19,101	17,174	2,410	1,035
Unimproved water and sanitation	(2,700–93,073)	(71-2,871)	(183-6,757)	(981–34,717)	(932-30,328)	(106-4,483)	(43-1,998)
	21,172	607	1,465	7,759	7,183	932	408
Unimproved water source	(1,517-40,491)	(42-1,197)	(104-2,893)	(559–15,141)	(530-13,717)	(63-1,842)	(25-830)
	36,050	1,076	2,578	13,161	11,730	1,701	723
Unimproved sanitation	(1,115–66,871)	(30–2,109)	(81–4,904)	(405–24,937)	(377–21,680)	(46–3,273)	(18–1,438)
Air pollution							
	81,699	2,910	3,045	12,321	8,225	0	0
Ambient particulate matter pollution	(71,012–92,859)	(1,926-4,014)	(2,083-4,107)	(8,469-16,159)	(5,658–11,004)	(0-0)	(0-0)
	170,693	10,088	10,709	42,869	30,083	0	0
Household air pollution from solid fuels	(139,087–199,504)	(7,130-12,913)	(7,702-13,500)	(31,206-53,102)	(22,143-38,133)	(0-0)	(0-0)
	2,534	0	0	0	0	0	0
Ambient ozone pollution	(851–4,426)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	5,365	0	0	0	9	27	17
Other environmental risks	(4,534–6,279)	(0-0)	(0-0)	(0-0)	(4–16)	(14–46)	(9–29)
Residential radon							
	5,365	0	0	0	9	27	17
Lead exposure	(4,534–6,279)	(0-0)	(0-0)	(0-0)	(4–16)	(14–46)	(9–29)
	339,965	0	21,231	147,452	135,125	7,628	5,169
Child and maternal undernutrition	(289,845–402,489)	(0-0)	(13,610–28,398)	(123,776–172,966)	(111,065–169,647)	(5,130–11,002)	(3,478–7,459)
	110,261	0	21,227	81,098	7,936	0	0
Suboptimal breastfeeding	(69,615–153,539)	(0-0)	(13,607–28,395)	(49,773–115,296)	(845–16,932)	(0-0)	(0-0)
2 10 of 1	96,330	0	21,227	75,102	0	0	0
Non-exclusive breastfeeding	(57,274–135,861)	(0-0)	(13,607–28,395)	(43,823–107,837)	(0-0)	(0-0)	(0-0)
Tion one and the oreastreeding	13,931	0	0	5,996	7,936	0	0
Discontinued breastfeeding	(1,443–30,062)	(0-0)	(0-0)	(591–13,535)	(845–16,932)	(0-0)	(0-0)
Discontinued oreastreeding	197,741	0	0	97,653	100,088	0	0
Childhood underweight	(169,224–238,276)	(0-0)	(0-0)	(84,072–114,151)	(83,373–124,897)	(0-0)	(0-0)
	51,841	0	3	3,973	11,706	7,628	5,169
Iron deficiency	(37,477–71,202)	(0-0)	(2–5)	(2,930–5,403)	(8,190–16,430)	(5,130–11,002)	(3,478–7,459)
	30,288	0	0	7,636	22,652	0	0
Vitamin A deficiency	(14,884–54,488)	(0-0)	(0-0)	(3,529–13,078)	(11,177–42,339)	(0-0)	(0-0)
y	24,375	0	0	0	24,375	0	0
Zinc deficiency	(5,385–45,685)	(0-0)	(0-0)	(0-0)	(5,385–45,685)	(0-0)	(0-0)
•	151,766	3,178	3,429	14,537	9,270	0	0
Tobacco smoking, including second-hand smoke	(136,367–169,522)	(2,150–4,265)	(2,357–4,558)	(10,246–18,781)	(6,514–12,127)	(0-0)	(0-0)
	113,740	0	0	0	0	0	0
Tobacco smoking	(100,454–131,675)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	38,026	3,178	3,429	14,537	9,270	0	0
Second-hand smoke	(28,832–47,544)	(2,150–4,265)	(2,357–4,558)	(10,246–18,781)	(6,514–12,127)	(0-0)	(0-0)
	88,510	36	30	145	532	277	524
Alcohol and drug use	(78,717–98,794)	(23–58)	(16–49)	(94–247)	(322–820)	(214–352)	(413–667)
	73,715	19	11	82	386	242	420
Alcohol use	(66,090–82,089)	(13–30)	(6–19)	(54–114)	(233–580)	(190–292)	(335–523)
	(00,070-02,009)	(13-30)	(0-17)	(37-117)	(233-300)	(170-272)	(333-343)

Web table 4: Global DALYs (in thousands) attri	butable to risk factors by age a	nd sex in 1990					
Risk	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
NISK	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	15,171	16	19	63	146	35	104
Drug use	(11,714–19,369)	(6–37)	(7–37)	(29–150)	(50-304)	(15–74)	(66-161)
Physiological risk factors							
nysiological risk factors	56,358	0	0	0	0	0	0
High fasting plasma glucose	(48,720–65,030)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
riigii rustiiig plusiiiu giucose	39,526	0	0	0	0	0	0
High total cholesterol	(32,704–47,202)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Then total endesteror	137,017	0	0	0	0	0	0
High blood pressure	(124,360–149,366)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
riigii olood pressure	51,565	0	0	0	0	0	0
High body-mass index	(40,786–62,557)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
ingi oog mass mass	3,125	0	0	0	0	0	0
Low bone mineral density	(2,589–3,811)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
20 cone innertal density	172,929	0	0	0	0	0	0
Dietary risk factors and physical inactivity	(160,885–185,502)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
retary risk ractors and physical maetricy	80,453	0	0	0	0	0	0
Diet low in fruits	(63,298–95,763)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low in Italia	31,558	0	0	0	0	0	0
Diet low in vegetables	(21,349–41,921)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low in vegetables	29,404	0	0	0	0	0	0
Diet low in whole grains	(23,097–35,134)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low iii whole grains	40,525	0	0	0	0	0	0
Diet low in nuts and seeds	(26,308–51,741)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dict low in fluts and seeds	1,527	0	0	0	0	0	0
Diet low in milk	(461–2,555)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dict low in linik	1,208	0	0	0	0	0	0
Diet high in red meat	(571–1,909)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet nigh in red niedt	17,359	0	0	0	0	0	0
Diet high in processed meat	(5,137–27,949)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet nigh in processed meat	3,756	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(2,332–5,389)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet high in sugar-sweetened beverages	13,347	0	0	0	0	0	0
Diet low in fibre	(5,970–20,751)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low in noic	1,836	0	0	0	0	0	0
Diet low in calcium	(1,316–2,368)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dict low in calcium	21,740	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	· · · · · · · · · · · · · · · · · · ·						
Diet low in searood onlega-3 ratty acids	(15,869–27,537) 9,912	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet low in polyunsaturated fatty acids	· ·	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
Diet low in poryunsaturated ratty acids	(4,655–14,976)	0	0	0	0	0-0)	(0-0)
Diet high in trans fatty acids	8,064						
Diet nigh in trans ratty acids	(5,893–10,305)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Diet high in sodium	46,183	_	0		0	-	-
Diet ingli ili sodiulii	(30,363–60,604)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Dhysical inactivity and 1111							
Physical inactivity and low physical activity							

Web table 4: Global DALYs (in thousands) attributal	ole to risk factors by age	and sex in 1990					
Risk	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
KISK	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	55,414	0	0	0	0	0	0
Occupational risk factors	(45,312–66,718)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,758	0	0	0	0	0	0
Occupational carcinogens	(1,220-2,477)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	484	0	0	0	0	0	0
Occupational exposure to asbestos	(354–695)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	41	0	0	0	0	0	0
Occupational exposure to arsenic	(16–77)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	65	0	0	0	0	0	0
Occupational exposure to benzene	(27–112)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2	0	0	0	0	0	0
Occupational exposure to beryllium	(1–4)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	7	0	0	0	0	0	0
Occupational exposure to cadmium	(3–12)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	26	0	0	0	0	0	0
Occupational exposure to chromium	(16–40)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	332	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(192–517)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	358	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(255–500)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	18	0	0	0	0	0	0
Occupational exposure to formaldehyde	(8–32)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	128	0	0	0	0	0	0
Occupational exposure to nickel	(34–266)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	54	0	0	0	0	0	0
hydrocarbons	(26–92)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	230	0	0	0	0	0	0
Occupational exposure to silica	(154–328)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	57	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(16–122)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,129	0	0	0	0	0	0
Occupational asthmagens	(1,419-3,222)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	9,552	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(4,385–14,636)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,869	0	0	0	0	0	0
Occupational noise	(1,698-4,582)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	21,265	0	0	0	0	0	0
Occupational risk factors for injuries	(16,644-26,702)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	17,841	0	0	0	0	0	0
Occupational low back pain	(11,846–24,945)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Sexual abuse and violence							
Childhood sexual abuse							
	ĺ						
Intimate partner violence							

Web table 4: Global DALYs (in thousands) attribut	table to risk factors by ag	e and sex in 1990					
,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	881	875	772	676	621	480	452
Unimproved water and sanitation	(38–1,689)	(37–1,638)	(36–1,434)	(33–1,242)	(31–1,128)	(24–897)	(22-833)
	344	340	306	268	246	190	176
Unimproved water source	(22–708)	(22–691)	(21–604)	(18–537)	(18–484)	(14–376)	(13–348)
The state of the s	619	616	539	472	435	335	318
Unimproved sanitation	(17–1,225)	(16–1,197)	(16–1,046)	(14–903)	(12–815)	(11–642)	(9–606)
Air pollution							
1	0	0	1,260	1,704	2,336	3,025	3,657
Ambient particulate matter pollution	(0-0)	(0-0)	(915–1,588)	(1,246-2,137)	(1.788-2.908)	(2,277-3,803)	(2,687–4,565)
•	0	0	2,011	2,579	3,405	4,176	5,080
Household air pollution from solid fuels	(0-0)	(0-0)	(1,532–2,534)	(1,944–3,230)	(2,574–4,286)	(3,145-5,189)	(3,879–6,320)
-	0	0	25	29	50	63	97
Ambient ozone pollution	(0-0)	(0-0)	(8–46)	(9–53)	(16–89)	(20–114)	(30–173)
	0	0	250	320	270	350	407
Other environmental risks	(0-0)	(0-0)	(145–376)	(198–464)	(219–337)	(286–425)	(340–479)
	(0 0)	(0 0)	(1.0 570)	(1)0 101)	(21) 337,	(200 .20)	(3.0 1/)
Residential radon							
	0	0	250	320	270	350	407
Lead exposure	(0-0)	(0-0)	(145–376)	(198-464)	(219–337)	(286–425)	(340-479)
	3,801	3,918	3,284	2,765	2,458	1,718	1,262
Child and maternal undernutrition	(2,743-5,233)	(2,919-5,137)	(2,423-4,305)	(2,063-3,641)	(1,834–3,255)	(1,257-2,286)	(916-1,710)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
*	3,801	3,918	3,284	2,765	2,458	1,718	1,262
Iron deficiency	(2,743–5,233)	(2,919–5,137)	(2,423–4,305)	(2,063–3,641)	(1,834–3,255)	(1,257–2,286)	(916–1,710)
77	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
7: 1-6:-:	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Tohogo smoking including second hand smales	0	0	186	3,195	5,098	7,911	9,304
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(125–244)	(2,435–4,208)	(3,493–6,822)	(6,329–9,627) 7,608	(8,084–10,829)
Tobacco smoking		0		2,953	4,852	, , , , , , , , , , , , , , , , , , ,	8,889
1 Obacco Shoking	(0-0)	(0-0)	(0–0) 186	(2,205–3,980)	(3,233–6,610)	(5,984–9,364)	(7,606–10,392) 416
Second-hand smoke	-	(0-0)			(162–336)		
Second-Hand SHIORC	(0–0) 5,628	9,112	(125–244) 9,014	(166–313) 7,952	(162–336) 8,921	(198–422) 7,705	(273–562) 6,935
Alcohol and drug use	(4,733–6,618)	(7,584–10,715)	(7,565–10,577)	(6,797–9,194)	(7,755–10,196)	(6,806–8,690)	(6,166–7,767)
riconor and drug use	4,318	5,729	5,604	5,539	7,326	6,766	6,384
Alcohol use	(3,656–5,090)	(4,853–6,691)	(4,792–6,477)	(4,804–6,345)	(6,438–8,418)	(6,007–7,696)	(5,673–7,173)
Theories ase	(3,030–3,090)	(4,033-0,031)	(4,/92-0,4//)	(4,004-0,343)	(0,430-0,410)	(0,007-7,030)	(3,073-7,173)

Web table 4: Global DALYs (in thousands) attribu			D 1 G	D 11 G	D 1 G	D 3 G	D 41 G
	Both Sexes,						
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	1,320	3,422	3,452	2,447	1,634	973	587
Drug use	(984–1,757)	(2,592–4,367)	(2,578–4,421)	(1,853–3,152)	(1,251–2,100)	(755–1,256)	(460–749)
Physiological risk factors							
	0	0	1,144	1,492	2,528	2,920	4,282
High fasting plasma glucose	(0-0)	(0-0)	(948–1,381)	(1,231-1,804)	(2,115-3,011)	(2,427-3,487)	(3,640-4,987)
	0	0	454	698	1,389	1,888	2,608
High total cholesterol	(0-0)	(0-0)	(332–600)	(524–909)	(1,121-1,690)	(1,541-2,311)	(2,149-3,149)
	0	0	1,671	2,153	3,925	4,891	7,844
High blood pressure	(0-0)	(0-0)	(1,272-2,078)	(1,665–2,632)	(3,270–4,584)	(4,069–5,698)	(6,937–8,811)
	0	0	1,032	1,346	2,491	3,093	3,972
High body-mass index	(0-0)	(0-0)	(720–1,370)	(944–1,777)	(1,876–3,133)	(2,350–3,889)	(3,106–4,905)
2 ,	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
2011 cone immerat density	0	0	3,178	4,563	6,524	8,808	11,213
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(2,854–3,473)	(4,163–4,928)	(5,925–7,131)	(8,073–9,575)	(10,183–12,231)
Dictary 119k factors and physical macriticy	0	0	1,733	2,393	3,375	4,575	5,894
Diet low in fruits	(0-0)	(0-0)	(1,375–2,072)	(1,854–2,834)	(2,650–4,059)	(3,581–5,460)	(4,590–7,089)
Diet low in muits	0	0	860	1,137	1,489	1,907	2,327
Diet low in vegetables		(0-0)					
Diet low in vegetables	(0-0)	` '	(540–1,152)	(750–1,504)	(953–1,985)	(1,224–2,559)	(1,476–3,119)
Diet low in whole grains	0	0	834	1,145	1,545	1,947	2,265
Diet low in whole grains	(0-0)	(0-0)	(658–994)	(905–1,355)	(1,210–1,847)	(1,538–2,338)	(1,784–2,705)
Diet 1i	0	0	912	1,324	1,786	2,339	2,777
Diet low in nuts and seeds	(0-0)	(0-0)	(628–1,124)	(902–1,643)	(1,222–2,248)	(1,571–2,949)	(1,852–3,511)
751 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .	0	0	38	56	75	89	112
Diet low in milk	(0-0)	(0-0)	(10–64)	(17–96)	(23–126)	(27–148)	(33–189)
	0	0	39	60	86	101	109
Diet high in red meat	(0-0)	(0-0)	(16–66)	(25–101)	(36–144)	(41–168)	(48–176)
	0	0	407	631	875	1,161	1,331
Diet high in processed meat	(0-0)	(0-0)	(150–646)	(230-1,012)	(317-1,369)	(397–1,858)	(422–2,116)
	0	0	152	182	238	289	325
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(100-209)	(128-242)	(90-379)	(102-452)	(121–514)
	0	0	406	567	760	925	1,047
Diet low in fibre	(0-0)	(0-0)	(187-618)	(261-868)	(348-1,167)	(422-1,418)	(466-1,630)
	0	0	48	71	94	107	131
Diet low in calcium	(0-0)	(0-0)	(31-63)	(45–91)	(65-121)	(76-135)	(94–165)
	0	0	549	787	1,042	1,366	1,594
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(402–687)	(578–985)	(761-1,300)	(997-1,742)	(1,151-2,017)
-	0	0	264	370	491	627	731
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(128–395)	(182–556)	(232–746)	(294–946)	(343–1,109)
·	0	0	200	287	387	520	621
Diet high in trans fatty acids	(0-0)	(0-0)	(143–258)	(205–365)	(279–496)	(383–662)	(449–791)
į	0	0	637	997	1,521	2,177	2,825
Diet high in sodium	(0-0)	(0-0)	(333–916)	(631–1,351)	(966–2,083)	(1,430–2,913)	(1,915–3,710)
Physical inactivity and low physical activity							
1 mysical mactivity and low physical activity	4,762	6,282	6,399	5,985	5,712	4,789	4,359
Occupational risk factors	(3,838–5,821)	0,202	(5,238–7,706)	3,703	(4,594–6,986)	4,707	(3,479–5,380)

Web table 4: Global DALYs (in thousands) attributal	ble to risk factors by ag	e and sex in 1990					
, , , , , , , , , , , , , , , , , , , ,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	15	20	24	29	49	74	132
Occupational carcinogens	(10–21)	(13–29)	(16–35)	(20–42)	(34–70)	(50–104)	(90–190)
Occupational exposure to asbestos	7	7	6	8	12	19	29
Occupational exposure to aspestos	(5–10) 0	(5–10)	(4–9)	(5–11)	(8–16)	(13–27)	(21–41)
Occupational exposure to arsenic	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–3)	(1–7)
o confined and on the second	7	11	10	9	5	4	2
Occupational exposure to benzene	(3–12)	(4–19)	(4–18)	(4–16)	(2-9)	(2-7)	(1–4)
	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	1
Occupational exposure to cadmium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)
Occupational exposure to chromium	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	1 (0–1)	1 (1–2)	2 (1–3)
Occupational exposure to enformation	(0=0)	0	2	3	9	13	27
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(1–2)	(2–4)	(5–13)	(7–20)	(16–43)
1 1	0	0	2	3	10	15	30
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(1–3)	(2-5)	(7–14)	(10–21)	(21–43)
	1	3	2	2	2	2	1
Occupational exposure to formaldehyde	(1–2)	(1–4)	(1–4)	(1–4)	(1–3)	(1–3)	(0-2)
Occupational exposure to nickel	0	0	1	1	3	5	11
Occupational exposure to incker Occupational exposure to polycyclic aromatic	(0-0)	(0-0)	(0-1)	0-2)	(1–7)	(1–11)	(3–23)
hydrocarbons	(0-0)	(0-0)	(0-0)	(0–1)	(1–2)	(1–4)	(2–7)
nydrocarbons	0	0	1	2	6	9	19
Occupational exposure to silica	(0-0)	(0-0)	(1–2)	(1–3)	(4–9)	(6–13)	(12–27)
	0	0	0	0	1	3	5
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-0)	(0-1)	(0-3)	(1–6)	(2–12)
	209	208	181	156	170	158	179
Occupational asthmagens	(135–306)	(137–297)	(123–259) 405	(107–224)	(113–251)	(106–238)	(115–298) 794
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(186–657)	468 (217–755)	602 (281–950)	650 (310–995)	(391–1,218)
Occupational particulate matter, gases, and funes	174	239	291	343	310	292	275
Occupational noise	(94–295)	(131–403)	(163–485)	(194–568)	(181–505)	(171–472)	(163–433)
•	2,898	3,991	3,630	3,001	2,477	1,733	1,285
Occupational risk factors for injuries	(2,201–3,741)	(3,026-5,040)	(2,801-4,653)	(2,337-3,786)	(1,866-3,214)	(1,321-2,274)	(972-1,666)
	1,466	1,823	1,867	1,987	2,104	1,882	1,693
Occupational low back pain	(958–2,091)	(1,199–2,577)	(1,231–2,599)	(1,315–2,779)	(1,398–2,928)	(1,249–2,623)	(1,127–2,363)
Sexual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 4: Global DALYs (in thousands) attribut	able to risk factors by ag	e and sex in 1990					
	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,	Both Sexes,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	452	447	486	398	305	202	174
Unimproved water and sanitation	(21-835)	(22-847)	(22-896)	(21–748)	(14–558)	(9-372)	(9-324)
	176	170	186	153	119	78	65
Unimproved water source	(12–345)	(11–342)	(13–372)	(11-309)	(8-236)	(5–155)	(4-130)
	319	318	345	281	215	142	124
Unimproved sanitation	(9-613)	(10-623)	(10-670)	(9-549)	(7–412)	(4–275)	(4–241)
Air pollution							
•	5,582	6,563	7,885	7,377	6,221	5,100	4,489
Ambient particulate matter pollution	(4,159–6,983)	(4,828–8,207)	(5,881–9,689)	(5,294–9,410)	(4,414–7,891)	(3,579–6,369)	(3,247–5,659)
· ·	7.668	9,110	10,997	10,538	9,314	6,777	5,289
Household air pollution from solid fuels	(5,879–9,620)	(6,724–11,326)	(8,273–13,654)	(7,647–13,189)	(6,871–11,540)	(5,035–8,421)	(4,022–6,522)
	179	263	390	428	412	322	276
Ambient ozone pollution	(57–314)	(88–456)	(129–683)	(142–748)	(134–726)	(108–565)	(91–492)
· microni ozone ponanon	584	652	753	674	492	345	215
Other environmental risks	(489–684)	(553–771)	(634–879)	(574–786)	(419–573)	(297–399)	(182–249)
Residential radon							
	584	652	753	674	492	345	215
Lead exposure	(489–684)	(553–771)	(634–879)	(574–786)	(419–573)	(297–399)	(182–249)
	1,025	850	739	552	407	313	272
Child and maternal undernutrition	(715–1,431)	(597–1,195)	(523–1,031)	(398–760)	(293–558)	(228–429)	(208–359)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
6	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
U	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Ŭ	1,025	850	739	552	407	313	272
Iron deficiency	(715–1,431)	(597–1,195)	(523–1,031)	(398–760)	(293–558)	(228–429)	(208–359)
•	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	13,775	16,747	19,420	17,269	12,854	9,275	6,317
Tobacco smoking, including second-hand smoke	(11,866–15,749)	(14,544–19,051)	(17,017–22,411)	(14,981–20,070)	(11,100–15,231)	(8,069–11,039)	(5,609–7,452)
	13,135	15,969	18,428	16,226	11,891	8,357	5,431
Tobacco smoking	(11,153–15,181)	(13,705–18,313)	(16,091–21,493)	(13,891–19,137)	(10,085–14,358)	(7,100–10,183)	(4,711–6,669)
	640	778	992	1,043	963	918	886
Second-hand smoke	(422–839)	(520-1,030)	(672-1,284)	(691–1,349)	(643-1,255)	(606-1,193)	(596-1,145)
	7,551	6,883	6,541	3,729	2,676	2,316	2,004
Alcohol and drug use	(6,782–8,397)	(6,195–7,606)	(5,886–7,238)	(3,256–4,217)	(2,260–3,120)	(1,900–2,745)	(1,502–2,487)
	7,191	6,656	6,390	3,692	2,658	2,305	1,997
Alcohol use	(6,451-8,008)	(5,994–7,356)	(5,716–7,108)	(3,224–4,180)	(2,243-3,100)	(1,890–2,735)	(1,493–2,477)

Web table 4: Global DALYs (in thousands) attrib	Both Sexes,						
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
NISK	403	275	201	37	18	11	7
Drug use	(320–520)	(226–336)	(167–247)	(27–55)	(13–30)	(8–22)	(5–14)
	(320 020)	(220 330)	(10, 21,)	(27 88)	(13-30)	(0 22)	(5 11)
Physiological risk factors							
	5,699	7,319	8,204	7,678	6,090	5,005	3,997
High fasting plasma glucose	(4,853–6,635)	(6,325–8,408)	(7,074–9,431)	(6,659–8,748)	(5,275–6,952)	(4,333–5,699)	(3,400–4,615)
	3,963	4,637	5,950	5,642	4,509	4,113	3,675
High total cholesterol	(3,285–4,769)	(3,861-5,556)	(5,015-7,077)	(4,706-6,700)	(3,670-5,470)	(3,100-5,176)	(3,051-4,378)
	11,326	15,565	18,789	20,302	17,398	16,798	16,355
High blood pressure	(9,986–12,688)	(14,144–17,099)	(17,122–20,518)	(18,779-21,990)	(15,983–18,870)	(15,609–18,085)	(15,177–17,548)
	5,485	6,151	7,415	6,633	5,215	4,722	4,011
High body-mass index	(4,299–6,699)	(4,895-7,441)	(5,987-8,869)	(5,354-7,911)	(4,214-6,238)	(3,819-5,642)	(3,189-4,849)
	364	410	469	477	406	440	559
Low bone mineral density	(281–463)	(319–529)	(378–582)	(381–602)	(328–516)	(358–540)	(455–681)
	16,992	20,025	24,185	23,520	19,876	17,703	16,341
Dietary risk factors and physical inactivity	(15,592–18,348)	(18,412-21,778)	(22,361-26,078)	(21,692–25,406)	(18,142–21,541)	(16,251-19,023)	(14,856–17,805)
· ·	8,865	10,262	11,491	10,671	8,691	7,019	5,483
Diet low in fruits	(7,020–10,585)	(8,115–12,234)	(9,021–13,818)	(8,317–12,855)	(6,689–10,512)	(5,413-8,526)	(4,176–6,823)
	3,373	3,703	4,293	3,960	3,227	2,849	2,433
Diet low in vegetables	(2,203–4,537)	(2,407–4,992)	(2,897–5,702)	(2,663–5,335)	(2,117–4,333)	(1,889–3,787)	(1,566–3,288)
·· ·	3,204	3,495	3,981	3,589	2,901	2,469	2,029
Diet low in whole grains	(2,538–3,827)	(2,760–4,199)	(3,119–4,769)	(2,799–4,334)	(2,272–3,508)	(1,919–2,996)	(1,558–2,461)
Diet iow in whole grains	4,147	4,592	5,573	5,277	4,257	3,872	3,670
Diet low in nuts and seeds	(2,753–5,279)	(3,014–5,851)	(3,611–7,110)	(3,363–6,810)	(2,666–5,544)	(2,402-5,140)	(2,207–4,955)
Diet 10 W III little und seeds	158	190	220	205	159	131	94
Diet low in milk	(48–266)	(58–317)	(66–372)	(62–346)	(48–267)	(39–223)	(28–160)
Dict low in link	136	145	155	136	99	83	61
Diet high in red meat	(62–219)	(68–228)	(73–241)	(63–209)	(47–154)	(37–128)	(27–94)
Diet nigh in red meat	(/	,	,	,	· /	,	. ,
Diet high in processed meat	1,850	1,977	2,323	2,137	1,640	1,552	1,474
Diet nigh in processed meat	(553–3,006)	(582–3,193)	(651–3,828)	(573–3,531)	(428–2,730)	(394–2,589)	(356–2,515)
Dist high in any and the distance of house	425	429	461	406	329	265	255
Diet high in sugar-sweetened beverages	(150–669)	(275–680)	(287–739)	(242–646)	(182–558)	(128–407)	(102–334)
D' (1 ' C'1	1,456	1,544	1,734	1,553	1,262	1,103	991
Diet low in fibre	(650–2,282)	(702–2,394)	(772–2,718)	(691–2,442)	(563–1,988)	(488–1,736)	(423–1,597)
	183	222	257	243	197	163	121
Diet low in calcium	(135–235)	(163–285)	(186–332)	(171–316)	(137–262)	(109–223)	(76–169)
	2,347	2,511	2,995	2,757	2,166	1,911	1,714
Diet low in seafood omega-3 fatty acids	(1,696–3,006)	(1,829-3,186)	(2,178-3,847)	(2,008–3,521)	(1,573-2,776)	(1,371–2,443)	(1,223–2,202)
	1,055	1,144	1,348	1,242	979	871	790
Diet low in polyunsaturated fatty acids	(502–1,610)	(549–1,747)	(622–2,070)	(592–1,891)	(462–1,494)	(411–1,339)	(370–1,217)
	844	932	1,086	1,040	829	689	630
Diet high in trans fatty acids	(614–1,091)	(679–1,202)	(788–1,396)	(755-1,327)	(598–1,066)	(495–881)	(453–807)
	4,453	5,497	6,864	6,849	5,656	4,728	3,979
Diet high in sodium	(2,952-5,835)	(3,617–7,226)	(4,470–8,965)	(4,424–9,125)	(3,657–7,497)	(3,033-6,330)	(2,500-5,385)
Physical inactivity and low physical activity							

Web table 4: Global DALYs (in thousands) attributa	Both Sexes,	Both Sexes,	Both Sexes,				
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
MSK	4,538	4,182	3,631	2,002	1,659	1,063	52
Occupational risk factors	(3,550–5,633)	(3,106–5,214)	(2,592–4,662)	(1,386–2,665)	(1,097–2,245)	(678–1,485)	(40–71)
Secupational fisk factors	(5,550–5,055)	310	351	237	166	86	52
Occupational carcinogens	(142–304)	(205–439)	(238–505)	(166–331)	(117–243)	(64–121)	(40–71)
occupational careinogens	44	60	77	81	58	47	30
Occupational exposure to asbestos	(31–62)	(43–87)	(56–112)	(59–116)	(42–85)	(34–68)	(23–44)
Occupational exposure to assessos	6	9	9	5	4	1	(23–44)
Occupational exposure to arsenic	(2–10)	(3–16)	(4–18)	(2–10)	(1–7)	(0-2)	(0-1)
Occupational exposure to arsenic	2	3	3	3	3	3	1
Occupational exposure to benzene	(1-4)	(1–5)	(1–5)	(1–6)	(1–5)	(1–5)	(0-2)
Occupational exposure to belizene	0	0	1	0	0	0	0
Occupational exposure to beryllium	(0-1)	(0–1)	(0–1)		(0-0)	(0-0)	(0-0)
Occupational exposure to berymum	1	2	2	(0–0)	(0-0)	0	0
Occupational exposure to cadmium	-		=		-	(0-0)	
Occupational exposure to caumium	(0-2)	(1–3) 5	(1–3) 6	(0-2)	(0-1)	(0-0)	(0-0)
Occupational exposure to chromium	•						
Occupational exposure to chromium	(2–5) 46	(3–8) 69	(4–9) 76	(2–5) 42	(1–4)	(0–1) 10	(0-1)
Occupational exposure to diesel engine exhaust							6
Occupational exposure to diesel engine exhaust	(26–70)	(39–107)	(44–119)	(24–67)	(17–47)	(6–17)	(3–9)
Occupational armagum to second hand ample	49	74	81	45	31	11	6
Occupational exposure to second-hand smoke	(33–68)	(52–103)	(58–115)	(31–65)	(22–47)	(8–16)	(4–9)
	1	1	1	1	1	1	0
Occupational exposure to formaldehyde	(0-2)	(0-2)	(0-2)	(0-2)	(0-1)	(0-1)	(0-0)
	18	27	29	16	11	4	2
Occupational exposure to nickel	(5–36)	(7–55)	(8–60)	(4–34)	(3–24)	(1–8)	(1–5)
Occupational exposure to polycyclic aromatic	7	11	12	7	5	2	1
hydrocarbons	(3–12)	(5–19)	(6–21)	(3–12)	(2–8)	(1–3)	(0-2)
	31	48	53	29	20	7	4
Occupational exposure to silica	(20–45)	(31–69)	(35–76)	(19–44)	(14–31)	(5–11)	(3–6)
	9	11	12	7	4	2	1
Occupational exposure to sulfuric acid	(3–20)	(3–24)	(3–26)	(2–16)	(1–10)	(0–4)	(0-2)
	203	208	192	112	92	61	0
Occupational asthmagens	(128–343)	(127–344)	(115–337)	(64–197)	(52–160)	(35–109)	(0-0)
	1,170	1,407	1,545	960	901	650	0
Occupational particulate matter, gases, and fumes	(555–1,779)	(649–2,167)	(698–2,392)	(420–1,559)	(389–1,455)	(285–1,048)	(0-0)
	320	218	217	87	83	19	0
Occupational noise	(190-500)	(124–349)	(122–345)	(50–143)	(47–135)	(8–35)	(0-0)
	1,004	679	355	128	68	16	0
Occupational risk factors for injuries	(765–1,288)	(514–880)	(269–458)	(95–170)	(51–90)	(12–20)	(0-0)
	1,629	1,361	971	478	349	230	0
Occupational low back pain	(1,093–2,277)	(911-1,912)	(646–1,376)	(310–689)	(226–502)	(149–329)	(0-0)
Sexual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 4: Global DALYs (in thousands) attributa	able to risk factors by age	and sex in 1990					
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	27,045	839	2,035	10,145	8,709	1,266	526
Unimproved water and sanitation	(1,409–49,439)	(41-1,659)	(106–3,844)	(537–18,838)	(465–16,072)	(57–2,411)	(22-1,017)
	11,075	337	811	4,157	3,713	492	206
Unimproved water source	(792–21,250)	(23-704)	(56-1,624)	(303-8,120)	(270-7,302)	(33-990)	(13–424)
-	18,610	583	1,418	6,962	5,895	892	368
Unimproved sanitation	(593–35,486)	(17-1,213)	(46-2,825)	(222-13,557)	(193–11,473)	(24–1,762)	(9-736)
Air pollution							
1	46,667	1,710	1,739	6,727	4,362	0	0
Ambient particulate matter pollution	(40,185–53,381)	(1,057–2,431)	(1,135–2,409)	(4,555–9,113)	(2,893–6,030)	(0-0)	(0-0)
·	91,432	5,936	6,141	23,627	16,288	0	0
Household air pollution from solid fuels	(71,850–109,298)	(3,829–7,906)	(4,125–8,001)	(16,670–30,164)	(11,339–21,432)	(0-0)	(0-0)
•	1,409	0	0	0	0	0	0
Ambient ozone pollution	(460–2,456)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
F	2,876	0	0	0	5	16	10
Other environmental risks	(2,406–3,459)	(0-0)	(0-0)	(0-0)	(2–10)	(8–27)	(5–17)
		,	,	,	,	,	()
Residential radon							
	2,876	0	0	0	5	16	10
Lead exposure	(2,406-3,459)	(0-0)	(0-0)	(0-0)	(2-10)	(8-27)	(5–17)
	175,366	0	11,943	79,554	70,667	4,092	2,759
Child and maternal undernutrition	(146,049–211,406)	(0-0)	(7,210-16,418)	(65,288–95,221)	(57,021-91,212)	(2,717-5,950)	(1,840-4,025)
	59,902	0	11,942	44,001	3,959	0	0
Suboptimal breastfeeding	(36,953-84,059)	(0-0)	(7,209-16,417)	(26,545-62,907)	(425-8,431)	(0-0)	(0-0)
	52,729	0	11,942	40,787	0	0	0
Non-exclusive breastfeeding	(30,540-75,288)	(0-0)	(7,209-16,417)	(23,469–59,694)	(0-0)	(0-0)	(0-0)
	7,173	0	0	3,214	3,959	0	0
Discontinued breastfeeding	(767–15,819)	(0-0)	(0-0)	(321–7,183)	(425–8,431)	(0-0)	(0-0)
	104,713	0	0	52,369	52,344	0	0
Childhood underweight	(87,668–128,697)	(0-0)	(0-0)	(43,805–61,923)	(41,987–67,060)	(0-0)	(0-0)
	21,451	0	1	2,175	6,072	4,092	2,759
Iron deficiency	(14,947–30,321)	(0-0)	(0-1)	(1,596–2,957)	(4,244–8,518)	(2,717-5,950)	(1,840–4,025)
	15,689	0	0	3,945	11,744	0	0
Vitamin A deficiency	(7,475–29,165)	(0-0)	(0-0)	(1,802–6,813)	(5,410–22,805)	(0-0)	(0-0)
	12,666	0	0	0	12,666	0	0
Zinc deficiency	(2,938–23,883)	(0-0)	(0-0)	(0-0)	(2,938–23,883)	(0-0)	(0-0)
	104,840	1,855	1,953	8,008	4,943	0	0
Tobacco smoking, including second-hand smoke	(91,849–119,255)	(1,146–2,571)	(1,274–2,671)	(5,455–10,613)	(3,281–6,727)	(0-0)	(0-0)
m.,	84,956	0	0	0	0	0	0
Tobacco smoking	(73,038–97,937)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	19,884	1,855	1,953	8,008	4,943	0	0
Second-hand smoke	(14,493–25,591)	(1,146–2,571)	(1,274–2,671)	(5,455–10,613)	(3,281–6,727)	(0-0)	(0-0)
	65,660	21	18	81	305	173	364
Alcohol and drug use	(57,545–73,925)	(12–39)	(8–34)	(46–150)	(172–486)	(130–232)	(284–469)
A1 1 1	55,770	11	6	48	238	153	304
Alcohol use	(49,280–62,723)	(7–18)	(3–11)	(30–74)	(137–379)	(117–192)	(239–383)

	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	10,178	10	12	33	67	20	60
Drug use	(7,787–13,073)	(3–25)	(3–26)	(11–91)	(16–159)	(6–55)	(37–98)
hysiological risk factors							
High fasting plasma glucose	30,177 (25,148–34,980)	0	0	0	0	0	0
riigii fastiiig piasiiia giucose	(25,148–34,980)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
High total cholesterol	(18,230–27,029)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Tilgii total cilolesteroi	73,120	0	0	0	0	0	0
High blood pressure	(65,538–81,302)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	
riigii blood pressure	25,391	0	0-0)	(0-0)	0	0	(0-0)
High body-mass index			-	*			
Tilgii body-mass maex	(19,752–31,108)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Low bone mineral density	1,764	0			0	0	0
Low boile illilieral delisity	(1,448–2,208)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)	(0-0)
vietary risk factors and physical inactivity	100,320	0	0	0	0	0	0
netary fisk factors and physical mactivity	(92,232–108,625)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
D' (1 ' C ')	47,979	0	0	0	0	0	0
Diet low in fruits	(37,530–57,842)	(0-0)	(0–0)	(0–0)	(0-0)	(0-0)	(0-0)
B' . 1	18,755	0	0	0	0	0	0
Diet low in vegetables	(12,859–24,939)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	17,033	0	0	0	0	0	0
Diet low in whole grains	(13,513–20,522)	(0-0)	(0-0)	(0–0)	(0-0)	(0-0)	(0-0)
	24,918	0	0	0	0	0	0
Diet low in nuts and seeds	(16,268–31,946)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	818	0	0	0	0	0	0
Diet low in milk	(248–1,366)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	642	0	0	0	0	0	0
Diet high in red meat	(306–1,014)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	10,477	0	0	0	0	0	0
Diet high in processed meat	(2,801–17,479)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2,250	0	0	0	0	0	0
Diet high in sugar-sweetened beverages	(1,365–3,267)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	8,485	0	0	0	0	0	0
Diet low in fibre	(3,787–13,262)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,083	0	0	0	0	0	0
Diet low in calcium	(752–1,406)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	13,620	0	0	0	0	0	0
Diet low in seafood omega-3 fatty acids	(9,915–17,307)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,185	0	0	0	0	0	0
Diet low in polyunsaturated fatty acids	(2,891–9,362)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	4,979	0	0	0	0	0	0
Diet high in trans fatty acids	(3,571–6,413)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	26,807	0	0	0	0	0	0
Diet high in sodium	(17,646–35,273)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Physical inactivity and low physical activity							

Web table 4: Global DALYs (in thousands) attributa			M. L.	Mala	Malan	Milion	M.1
0.1	Males,	Males,	Males,	Males,	Males,	Males,	Males,
lisk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
annesticus I siste for the second	42,660	0	0	0	0	0	0
occupational risk factors	(35,146–50,545)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational carcinogens	1,346	0	0	0	0	0	0
Occupational carcinogens	(917–1,958) 362	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to asbestos	(236–555)	(0-0)	(0-0)	0	(0-0)	(0-0)	(0-0)
Occupational exposure to aspestos	29	0	0	(0-0)	0	0	0
Occupational exposure to arsenic	(11–56)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to disente	36	0	0	0	0	0	0
Occupational exposure to benzene	(15–64)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to benzene	2	0	0	0	0	0	0
Occupational exposure to beryllium	(1-3)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to beryman	5	0	0	0	0	0	0
Occupational exposure to cadmium	(2-9)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to cualificati	18	0	0	0	0	0	0
Occupational exposure to chromium	(11–28)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational enposate to emornium	278	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(158–436)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to dieser engine exhaust	257	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(173–383)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to second hand smoke	11	0	0	0	0	0	0
Occupational exposure to formaldehyde	(4–20)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational exposure to formal delifie	90	0	0	0	0	0	0
Occupational exposure to nickel	(24–191)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	41	0	0	0	0	0	0
hydrocarbons	(19–71)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
nydrocarbons	199	0	0	0	0	0	0
Occupational exposure to silica	(129–297)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	52	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(14–114)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,467	0	0	0	0	0	0
Occupational asthmagens	(874–2,439)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	6,808	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(3,162–10,425)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
· · ·	1,936	0	0	0	0	0	0
Occupational noise	(1,149–3,103)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	20,175	0	0	0	0	0	0
Occupational risk factors for injuries	(15,588–25,639)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	10,929	0	0	0	0	0	0
Occupational low back pain	(7,340–15,116)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
		<u> </u>					
exual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 4: Global DALYs (in thousands) attributable to	risk factors by age and sex	in 1990					
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	442	421	381	345	315	255	240
Unimproved water and sanitation	(18–869)	(19-814)	(19–730)	(16-649)	(16-596)	(13-490)	(12–475)
	172	164	149	134	121	99	92
Unimproved water source	(10–358)	(11–335)	(10-309)	(8–272)	(9–243)	(7–201)	(6–193)
	310	296	268	244	223	180	170
Unimproved sanitation	(8–632)	(8-599)	(8–535)	(7–475)	(7–436)	(6–366)	(5–349)
A							
Air pollution		0	7.00	1.076	1 401	1.022	2 220
A 1-1	0	0	766	1,076	1,481	1,933	2,338
Ambient particulate matter pollution	(0-0)	(0-0)	(560–971)	(794–1,345)	(1,129–1,840)	(1,441–2,426)	(1,738–2,905)
Household air pollution from solid fuels			1,087	1,440	1,862	2,312	2,811
Household all pollution from solid fuels	(0-0)	(0–0)	(755–1,425)	(1,010–1,892)	(1,316–2,459)	(1,612–2,990)	(1,983–3,615)
A	0	0	12	15	25	34	55
Ambient ozone pollution	(0-0)	(0-0)	(4–23)	(5–28)	(8–47)	(11–64)	(16–98)
Other environmental risks			79	112	149	197	246
Other environmental risks	(0-0)	(0-0)	(63–109)	(89–145)	(122–182)	(164–237)	(203–300)
Residential radon							
Residential radon	0	0	79	112	149	197	246
Lead exposure	(0-0)	(0-0)	(63–109)	(89–145)	(122–182)	(164–237)	(203–300)
Lead exposure	1,188	857	671	591	541	434	396
Child and maternal undernutrition	(817–1,705)	(590–1,203)	(466–939)	(414–829)	(377–758)	(302–611)	(277–552)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1,188	857	671	591	541	434	396
Iron deficiency	(817–1,705)	(590-1,203)	(466–939)	(414-829)	(377–758)	(302-611)	(277–552)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
L	0	0	80	2,425	3,754	5,830	7,233
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(53–107)	(1,739–3,233)	(2,345–5,327)	(4,456–7,292)	(6,166–8,467)
T-l	0	0	0	2,320	3,669	5,705	7,067
Tobacco smoking	(0-0)	(0-0)	(0-0)	(1,639–3,138)	(2,253–5,239)	(4,313–7,150)	(5,994–8,292)
Second-hand smoke	0	0	80	105	85	125	165
Second-Hally Shioke	(0-0)	(0-0)	(53–107)	(71–142)	(55–124)	(84–172)	(112–221)
Alcohol and drug use	4,321	7,072	7,000	6,286	7,145	6,111	5,465
rationol and drug use	(3,612–5,139) 3,518	(5,928–8,342) 4,820	(5,876–8,218) 4,708	(5,368–7,263)	(6,150–8,231) 6,032	(5,341–6,928) 5,462	(4,815–6,136) 5,090
Alcohol use	(2,928–4,166)			4,620	(5,225–6,942)	5,462 (4,798–6,245)	
niconor use	(2,928–4,166)	(4,017–5,674) 2,287	(3,971–5,515) 2,330	(3,935–5,350) 1,695	(5,225-6,942)	(4, /98–6,245)	(4,484–5,751) 401
Drug use							
Diug use	(601–1,087)	(1,723-2,916)	(1,762-2,983)	(1,277-2,190)	(868-1,482)	(516–870)	(310–520)

Web table 4: Global DALYs (in thousands) attributable	to risk factors by age and sex i	in 1990					
Risk	Males, 15-19 Years	Males, 20-24 Years	Males, 25-29 Years	Males, 30-34 Years	Males, 35-39 Years	Males, 40-44 Years	Males, 45-49 Years
Physiological risk factors							
	0	0	649	863	1,511	1,746	2,601
High fasting plasma glucose	(0-0)	(0-0)	(517–787)	(698–1,055)	(1,237-1,811)	(1,433-2,089)	(2,156-3,047)
	0	0	317	514	1,045	1,439	1,868
High total cholesterol	(0-0)	(0-0)	(226-422)	(372–673)	(831-1,273)	(1,143-1,762)	(1,509-2,274)
	0	0	1,166	1,545	2,536	3,202	4,839
High blood pressure	(0-0)	(0-0)	(899-1,435)	(1,210-1,865)	(2,112-2,979)	(2,684-3,761)	(4,234-5,523)
	0	0	586	785	1,392	1,821	2,201
High body-mass index	(0-0)	(0-0)	(404–784)	(545–1,041)	(1,045-1,756)	(1,360-2,302)	(1,695–2,728)
	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
L	0	0	1,922	2,849	4,120	5,633	7,266
Dietary risk factors and physical inactivity	(0–0)	(0-0)	(1,707–2,128)	(2,542–3,129)	(3,725–4,525)	(5,111–6,197)	(6,573–7,991)
	0	0	1,070	1,522	2,150	2,922	3,794
Diet low in fruits	(0-0)	(0-0)	(834–1,310)	(1,177–1,845)	(1,648–2,610)	(2,270–3,577)	(2,913–4,636)
	0	0	536	734	970	1,248	1,531
Diet low in vegetables	(0-0)	(0-0)	(334–719)	(489–980)	(631–1,305)	(822–1,655)	(993–2,069)
District to the state of	0	0	504	721	983	1,244	1,448
Diet low in whole grains	(0–0)	(0-0)	(395–606)	(562–869)	(767–1,191)	(960–1,519)	(1,132–1,756)
But the state of t	0	0	595	901	1,259	1,672	1,993
Diet low in nuts and seeds	(0–0)	(0-0)	(403–749)	(599–1,123)	(838–1,587)	(1,112–2,141)	(1,320–2,533)
D' 1 ' ''	0	0	21	32	40	47	61
Diet low in milk	(0–0)	(0-0)	(6–36)	(9–55)	(12–67)	(14–78)	(18–100)
D' (1' 1 ' 1 ')	0	0	22	33	47	55	60
Diet high in red meat	(0-0)	(0-0)	(9–37)	(14–57)	(20–80)	(22–92)	(27–97)
Dist high in annual most	0	0	252	413	595	802	924
Diet high in processed meat	(0-0)	(0-0)	(82–418)	(133–695)	(186–983)	(234–1,373)	(257–1,540)
Diet high in sugar sweetened haverages	0	0	93	112	144	175	206
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(61–133)	(78–152)	(54–225)	(62–275)	(74–318)
Diet low in fibre	0	0	270	391	532	660	750
Diet low ill lible	(0-0)	(0-0)	(125–418) 28	(179–603) 41	(240–828)	(289–1,021) 58	(325–1,179) 73
Diet low in calcium							
Diet low ill calciulii	(0-0)	(0-0)	(17–36) 362	(25–54) 543	(33–67) 747	(40–73) 991	(53–92) 1,161
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(260–456)	(389–685)	(542–940)	(728–1,275)	(830–1,481)
Diet iow in scarood officga-5 fatty acids	0	0	175	254	348	451	526
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(83–264)	(121–382)	(163–525)	(209–685)	(246–809)
Diet low in poryunsaturated ratty acids	0	0	126	189	265	364	437
Diet high in trans fatty acids	(0-0)	(0-0)	(88–162)	(133–242)	(188–342)	(262–468)	(310–564)
2 to mgn in truth race, acres	(0-0)	0	339	574	914	1,333	1,815
Diet high in sodium	(0-0)	(0-0)	(153–542)	(325–834)	(569–1,267)	(866–1,800)	(1,213–2,403)
	(0-0)	(0-0)	(133-344)	(323-034)	(30)-1,207)	(000–1,000)	(1,213-2,403)
Physical inactivity and low physical activity	3,837	5,176	5,184	4,710	4,338	3,524	3,150
Occupational risk factors	· · · · · · · · · · · · · · · · · · ·						
occupational flox factors	(3,091–4,730)	(4,102–6,320) 12	(4,216–6,309) 15	(3,843–5,738)	(3,509–5,261)	(2,841–4,303) 52	(2,553–3,844)
Occupational carcinogens	(6–13)	(8–18)	(10–22)	(12–25)	(21–47)	(34–75)	(65–144)
occupational careinogens	(0-13)	(0-10)	(10-22)	(12-23)	(21-47)	(34-73)	(03-144)

eb table 4: Global DALYs (in thousands) attributable to	Males,	Males,	Males,	Males,	Males,	Males,	Males,
isk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	4	5	4	5	8	13	21
Occupational exposure to asbestos	(3–8)	(3–8)	(2–7)	(3–8)	(5–12)	(8-20)	(13–32)
	0	0	0	0	1	1	2
Occupational exposure to arsenic	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–4)
	4	6	5	5	2	2	1
Occupational exposure to benzene	(2–7)	(2–11)	(2–10)	(2–8)	(1–5)	(1–4)	(0-2)
	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational exposure to cadmium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)
	0	0	0	0	0	1	1
Occupational exposure to chromium	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(1-2)
	0	0	1	2	7	10	22
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(1–2)	(1–3)	(4–10)	(6–17)	(12-35)
	0	0	1	2	6	10	21
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(1-2)	(1–3)	(4–9)	(6-14)	(14-30)
	1	1	1	1	1	1	1
Occupational exposure to formaldehyde	(0-1)	(1-2)	(1-2)	(1-2)	(0-2)	(0-2)	(0-1)
	0	0	0	1	2	3	7
Occupational exposure to nickel	(0-0)	(0-0)	(0-1)	(0-1)	(1–4)	(1–7)	(2-15)
Occupational exposure to polycyclic aromatic	0	0	0	0	1	2	3
hydrocarbons	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–3)	(2-5)
·	0	0	1	1	5	7	16
Occupational exposure to silica	(0-0)	(0-0)	(0-1)	(1–2)	(3–7)	(4–11)	(10-23)
	0	0	0	0	1	2	5
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-0)	(0-1)	(0-2)	(1–6)	(1-12)
	128	134	121	103	111	103	121
Occupational asthmagens	(79–197)	(84–198)	(76–184)	(64–159)	(66–184)	(62–172)	(67–232)
	0	0	262	301	373	409	514
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(124–425)	(143–486)	(177–589)	(196–633)	(256–786)
	116	161	195	227	205	190	180
Occupational noise	(62–200)	(87–278)	(110-331)	(128–378)	(119–333)	(110-310)	(106–284)
	2,731	3,786	3,452	2,850	2,347	1,640	1,217
Occupational risk factors for injuries	(2,047–3,571)	(2,840–4,833)	(2,616–4,472)	(2,189–3,643)	(1,743-3,066)	(1,233-2,179)	(911–1,599)
ı J	853	1,083	1,139	1,211	1,271	1,129	1,019
Occupational low back pain	(561–1,225)	(719–1,516)	(762–1,589)	(804–1,683)	(839–1,772)	(742–1,574)	(677–1,412)
xual abuse and violence		, , ,	, , , , ,	,,	, , , ,	, , ,	
Addi dodo dia violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 4: Global DALYs (in thousands) attributa	ble to risk factors by ag	e and sex in 1990					
	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	229	210	218	173	131	86	79
Unimproved water and sanitation	(11–437)	(11–408)	(10-452)	(9-340)	(6–250)	(4–171)	(4–156)
	88	80	83	66	50	33	28
Unimproved water source	(6–175)	(5–165)	(5–174)	(4–134)	(3–100)	(2–67)	(2–59)
	163	149	155	123	93	61	57
Unimproved sanitation	(4–324)	(4–301)	(5–341)	(4–251)	(3–185)	(2–125)	(2–118)
Air pollution							
1	3,598	4,236	4,908	4,264	3,333	2,451	1,744
Ambient particulate matter pollution	(2,711–4,544)	(3,172–5,334)	(3,692–6,034)	(3,066–5,424)	(2,385-4,227)	(1,760-3,073)	(1,258–2,196)
	4,298	5,086	5,939	5,327	4,414	2,943	1,922
Household air pollution from solid fuels	(3,002-5,633)	(3,450–6,696)	(3,986–7,878)	(3,347–7,164)	(2,688–5,883)	(1,758–3,979)	(1,142–2,616)
1	105	152	226	245	230	176	133
Ambient ozone pollution	(34–188)	(49–265)	(74–403)	(80–434)	(75–408)	(58–309)	(44–234)
7 Minorent Ozone ponution	354	399	444	372	251	159	83
Other environmental risks	(292–431)	(333–488)	(369–543)	(310–453)	(209–305)	(133–191)	(69–99)
	(2)2 (31)	(333 100)	(30) 313)	(510 155)	(20) 303)	(155 171)	(0))))
Residential radon							
	354	399	444	372	251	159	83
Lead exposure	(292–431)	(333–488)	(369–543)	(310–453)	(209–305)	(133–191)	(69–99)
	372	346	316	243	174	126	98
Child and maternal undernutrition	(260–515)	(241–485)	(223–436)	(174–334)	(124–237)	(91–172)	(75–132)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	372	346	316	243	174	126	98
Iron deficiency	(260-515)	(241–485)	(223-436)	(174–334)	(124–237)	(91-172)	(75–132)
	0	0	0	0	0	0	0
Vitamin A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	10,608	12,720	14,738	12,442	8,653	6,020	3,578
Tobacco smoking, including second-hand smoke	(8,942–12,307)	(10,829–14,570)	(12,564–16,777)	(10,653–14,512)	(7,302-10,379)	(5,185-7,200)	(3,133-4,138)
	10,335	12,366	14,283	11,986	8,254	5,673	3,297
Tobacco smoking	(8,643–12,016)	(10,480–14,254)	(12,069–16,364)	(10,112–14,055)	(6,873–9,950)	(4,784–6,904)	(2,847–3,893)
	273	353	455	455	399	348	281
Second-hand smoke	(191–363)	(245–465)	(315–596)	(316–592)	(273–518)	(238–450)	(192–362)
	5,806	5,169	4,600	2,348	1,546	1,092	738
Alcohol and drug use	(5,175–6,492)	(4,614–5,818)	(4,059–5,175)	(2,012-2,710)	(1,271–1,827)	(885–1,311)	(567–915)
	5,564	5,016	4,501	2,324	1,535	1,086	735
Alcohol use	(4,968–6,235)	(4,466-5,638)	(3,959–5,068)	(1,990–2,689)	(1,259–1,817)	(878–1,306)	(564–913)

Web table 4: Global DALYs (in thousands) attribu	table to risk factors by age	e and sex in 1990					
,	Males,	Males,	Males,	Males,	Males,	Males,	Males,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	272	185	130	24	11	6	3
Drug use	(211–361)	(150–231)	(105–163)	(17–37)	(7–18)	(4–13)	(2–7)
Physiological risk factors							
I nystorogram risk ractors	3,407	4,295	4,603	3,931	2,920	2,172	1,479
High fasting plasma glucose	(2,814–4,012)	(3,587–5,017)	(3,790–5,414)	(3,284–4,576)	(2,426–3,414)	(1,805–2,540)	(1,224–1,733)
	2,789	3,069	3,661	3,000	2,127	1,624	1,066
High total cholesterol	(2,274–3,340)	(2,499–3,685)	(3,007–4,377)	(2,448–3,645)	(1,675–2,585)	(1,231–2,035)	(862–1,301)
<u> </u>	7,027	9,556	11,067	10,891	8,528	7,228	5,535
High blood pressure	(6,145–7,972)	(8,599–10,678)	(9,952–12,385)	(9,939–12,072)	(7,738–9,471)	(6,574–7,892)	(5,026–6,078)
	3,081	3,321	3,822	3,110	2,270	1,769	1,233
High body-mass index	(2,379–3,793)	(2,605–4,033)	(3,019–4,648)	(2,456–3,787)	(1,780–2,768)	(1,393–2,153)	(949–1,525)
2 ,	232	247	296	273	241	225	249
Low bone mineral density	(168–307)	(183–328)	(230–391)	(214–358)	(191–318)	(177–282)	(201–313)
	11,092	13,114	15,256	13,699	10,660	8,432	6,278
Dietary risk factors and physical inactivity	(10,110–12,124)	(11,897–14,419)	(13,897–16,766)	(12,519–15,001)	(9,500–11,719)	(7,657–9,153)	(5,650–6,901)
Dietary 1151 Increase and physical macrify	5,767	6,735	7,319	6,305	4,754	3,436	2,205
Diet low in fruits	(4,500–7,018)	(5,213–8,138)	(5,627–8,883)	(4,938–7,664)	(3,543–5,893)	(2,563–4,230)	(1,654–2,777)
Dict low in Irules	2,221	2,450	2,732	2,315	1,738	1,351	930
Diet low in vegetables	(1,469–2,990)	(1,607–3,354)	(1,858–3,640)	(1,576–3,086)	(1,167–2,379)	(906–1,812)	(620–1,255)
Diet low in vegetables	2,061	2,240	2,446	2,017	1,499	1,123	748
Diet low in whole grains	(1,610–2,492)	(1,753–2,706)	(1,932–2,960)	(1,580–2,456)	(1,167–1,828)	(877–1,360)	(580–908)
Diet low in whole grains	2,931	3,197	3,656	3,154	2,314	1,855	1,391
Diet low in nuts and seeds	(1,941–3,764)	(2,096–4,090)	(2,358–4,680)	(2,018–4,085)	(1,439–3,058)	(1,154–2,445)	(844–1,866)
Dict low in fluts and seeds	86	108	123	112	83	64	40
Diet low in milk	(26–145)	(33–181)	(37–208)	(34–189)	(25–141)	(19–108)	(12–67)
Dict low in mink	75	81	85	71	50	39	25
Diet high in red meat	(34–120)	(38–125)	(39–132)	(33–111)	(23–78)	(17–60)	(11–38)
Diet nigh in red nicat	1,276	1,340	1,491	1,249	873	726	537
Diet high in processed meat	(335–2,148)	(355–2,256)	(391–2,576)	(318–2,149)	(221–1,498)	(180–1,242)	(129–923)
Diet nigh in processed nicat	269	277	293	248	193	136	104
Diet high in sugar-sweetened beverages	(91–419)			(137–391)	(96–324)	(63–206)	(44–138)
Diet ingii in sugar-sweetened beverages	1,038	(161–438) 1,081	(169–465) 1,155	952	710	551	395
Diet low in fibre	'						
Diet low iii fible	(453–1,642) 104	(479–1,713) 132	(507–1,829) 155	(424–1,495) 149	(318–1,114)	(245–864) 100	(175–626) 75
Diet low in calcium							
Diet low in calcium	(74–132)	(94–167)	(110–203)	(99–198)	(79–163)	(62–140)	(42–111)
Diet low in seafood omega-3 fatty acids	1,679	1,770	1,981	1,655	1,176	911	644
Diet low in seafood omega-3 fatty acids	(1,199–2,165)	(1,281–2,274)	(1,435–2,542)	(1,196–2,128)	(853–1,517)	(654–1,171)	(457–834)
Diet law in maly uncertainted fetty and 1-	748	798	887	744	534	419	300
Diet low in polyunsaturated fatty acids	(354–1,141)	(375–1,225)	(409–1,362)	(351–1,137)	(251–823)	(197–647)	(140–465)
Diet high in trong fatty! J-	587	641	707	628	459	339	239
Diet high in trans fatty acids	(413–761)	(462–836)	(506–925)	(443–819)	(327–597)	(242–441)	(170–310)
Dist bish in sedimon	2,894	3,596	4,343	4,023	3,083	2,307	1,586
Diet high in sodium	(1,922–3,812)	(2,397–4,788)	(2,814–5,751)	(2,608–5,379)	(1,996–4,111)	(1,469–3,092)	(987–2,163)
Physical inactivity and low physical activity							
i mysical mactivity and low physical activity							

Risk 59-84 Years 55-89 Years 60-64 Years 56-89 Years 70-74 Years 75-79 Years 80-1 0ccupational risk factors (2,608-4,006) (2,237-3,777) (1,944-3,430) (1,01-2,085) (852-1,733) (216-1,137) (27 Occupational curcinogens (103-244) (2,537-3,777) (1,944-3,430) (1,01-2,085) (87-195) (67-77) (67-67) (67-67) (67-67) (47-97) (22-54) (12 (1,01-2,018) (1,01-2,018) (1,01-2,018) (1,01-2,018) (1,01-2,018) (1,01-2,018) (1,01-2,018) (2,01-2,018) (1,01-2,018) (2,01-2,018) (1,01-2,018) (2,01-2,018) (1,01-2,018)	Web table 4: Global DALYs (in thousands) attributal			Males,	Males,	Males,	Males,	Males,
2.272 3.064 2.889 1.575 1.292 81	n' 1	Males,	Males,	/		′	′	Maies, 80+ Years
Compational risk factors Compational risk factors Compational risk factors Compational carcinogens Compational c	USK							37
164 244 280 189 129 66	togunational risk factors	· '	<i>'</i>	<i>'</i>	,	· · · · · · · · · · · · · · · · · · ·		
Cocupational carcinogens	eccupational risk factors				() / /	, , ,		(27–53) 37
Occupational exposure to ashestos (21-59) (30-73) (39-95) (41-97) (20-70) (23-54) (12	Occupational carcinogens							(27–53)
Occupational exposure to asbestos (21-50) (30-72) (39-75) (41-97) (20-70) (23-54) (12	Occupational caremogens	()	()	()	()	()	()	20
A	Occupational exposure to ashestos							(13–32)
Occupational exposure to arsenic C-8 C-12 C-13 C-12 C-13 C-12 C-13 C-13 C-14 C-13 C-14 C-13 C-14 C	Occupational exposure to assestos							0
1	Occupational exposure to arsenic							(0-1)
Occupational exposure to benzene	Occupational exposure to arseme	\ /	()	()	()	()	(/	1
Occupational exposure to beryllium	Occupational exposure to benzene							(0-1)
Occupational exposure to beryllium	Occupational exposure to benzene	\ /	\ /	· /	. ,	\ /	. ,	0
1	Occupational exposure to hervilium	-						(0-0)
Occupational exposure to cadmium Occupational exposure to chromium Occupational exposure to chromium (14) (26) (3.77) (14) (13) (0-1) (Occupational exposure to berymum	` '	` '	(,	()	()	` '	0
Occupational exposure to chromium	Occupational exposure to cadmium		_					
Occupational exposure to chromium (1-4) (2-6) (3-7) (1-4) (1-3) (0-1)	Occupational exposure to cadmium	(-)	. ,	()	(- /		()	(0-0)
Occupational exposure to diesel engine exhaust (21–60) (32–91) (37–102) (20–58) (14–40) (5–15) (3 – 5 – 5 – 5 – 5 – 6 – 6 – 6 – 1 – 6 – 6 – 1 – 6 – 6 – 1 – 6 – 6	Occupational exposure to abromium	=						0
Occupational exposure to diesel engine exhaust (21-60) (32-91) (37-102) (20-58) (14-40) (5-15) (3 3 3 8 3 3 6 6 3 4 23 8 8 6 6 3 4 23 8 8 6 6 6 6 6 6 6 6	Occupational exposure to emolinum	\ /	(/	. ,	()	` '	, ,	(0–1)
Socupational exposure to second-hand smoke (22-51) (35-77) (40-87) (22-50) (15-35) (6-13) (3-10) (15-35) (6-13) (3-10) (15-35) (6-13) (3-10) (15-35) (6-13) (3-10) (15-35)	Occupational exposure to diesal engine exhaust							5
Occupational exposure to second-hand smoke (22–51) (35–77) (40–87) (22–50) (15–35) (6–13) (3 Occupational exposure to formaldehyde 1 1 1 1 1 0–1 0 0–1 0–1 0–1 0 0 0 0–1 0 0–1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Occupational exposure to diesel engine exhaust				. ,		. /	(3–8)
1	Occumational armaguma to second hand smales							4
Occupational exposure to formaldehyde (0-1) (0-2) (0-1)	Occupational exposure to second-nand smoke	` /	\ /	` /	` /	,	(/	(3–7)
12	Occupational averagements formulatively		-					0
Occupational exposure to nickel (3-26) (5-40) (6-45) (3-25) (2-17) (1-6) (Coupational exposure to polycyclic aromatic hydrocarbons 6 9 10 5 4 1 hydrocarbons (3-9) (4-15) (5-17) (3-9) (2-6) (1-2) (0 27 42 47 26 18 6 6 Occupational exposure to silica (17-40) (26-61) (30-67) (17-40) (12-28) (4-10) (2 9 10 11 6 4 2 2 0	Occupational exposure to formaldenyde	. /	. ,	()	. ,	. ,	. ,	(0-0)
Occupational exposure to polycyclic aromatic hydrocarbons 6 9 10 5 4 1 hydrocarbons (3–9) (4–15) (5–17) (3–9) (2–6) (1–2) (0 Occupational exposure to silica (17–40) (26–61) (30–67) (17–40) (12–28) (4–10) (2 Occupational exposure to sulfuric acid (2–19) (3–23) (3–24) (2–15) (1–9) (0–3) (0 Occupational exposure to sulfuric acid (2–19) (3–23) (3–24) (2–15) (1–9) (0–3) (0 143 151 142 89 73 48 0 0 143 151 142 89 73 48 0<	0							2
hydrocarbons (3–9) (4–15) (5–17) (3–9) (2–6) (1–2) (0 27 42 47 26 18 6 (17–40) (26–61) (30–67) (17–40) (12–28) (4–10) (2 9 10 11 6 4 2 0ccupational exposure to sulfuric acid (2–19) (3–23) (3–24) (2–15) (1–9) (0–3) (0 143 151 142 89 73 48 0ccupational asthmagens (77–270) (80–283) (73–276) (44–173) (36–134) (24–91) (0 0ccupational particulate matter, gases, and fumes (383–1,201) (46–1,517) (525–1,753) (34–1,239) (314–1,151) (227–810) (0 0ccupational noise (125–335) (86–244) (88–247) (38–110) (36–104) (6–27) (0 0ccupational risk factors for injuries (717–1,245) (487–852) (255–445) (91–167) (49–88) (11–20) (0 0ccupational low back pain (665–1,382) (584–1,194) (422–885) (221–478) (159–345) (101–220) (0 0ccupational buse and violence	* *	(/	()	()	\ /	()	(/	(0–3)
Occupational exposure to silica 27	1 1 1 7 7							1
Occupational exposure to silica (17-40) (26-61) (30-67) (17-40) (12-28) (4-10) (26-10) 9 10 11 6 4 2 Occupational exposure to sulfuric acid (2-19) (3-23) (3-24) (2-15) (1-9) (0-3) (0 Occupational asthmagens (77-270) (80-283) (73-276) (44-173) (36-134) (24-91) (0 Occupational particulate matter, gases, and fumes (383-1,201) (462-1,517) (525-1,753) (342-1,239) (314-1,151) (227-810) (0 Occupational noise (125-335) (86-244) (88-247) (38-110) (36-104) (6-27) (0 Occupational risk factors for injuries (717-1,245) (487-852) (255-445) (91-167) (49-88) (11-20) (0 Occupational low back pain (665-1,382) (584-1,194) (422-885) (221-478) (159-345) (101-220) (0	hydrocarbons	. /		. ,	. ,	. ,		(0-1)
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Occupational particulate matter, gases, and fumes (383-1,201) (462-1,517) (525-1,753) (342-1,239) (314-1,151) (227-810) (0 212 151 154 67 64 15 Occupational noise (125-335) (86-244) (88-247) (38-110) (36-104) (6-27) (0 954 651 342 124 66 15 Occupational risk factors for injuries (717-1,245) (487-852) (255-445) (91-167) (49-88) (11-20) (0 995 865 633 335 241 154 Occupational low back pain (665-1,382) (584-1,194) (422-885) (221-478) (159-345) (101-220) (0 exceptional data and violence	Occupational astnmagens	,	,	,	,	,	,	(0–0)
212 151 154 67 64 15			<i>'</i>	<i>'</i>				0
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954 651 342 124 66 15 Occupational risk factors for injuries (717–1,245) (487–852) (255–445) (91–167) (49–88) (11–20) (0 995 865 633 335 241 154 Occupational low back pain (665–1,382) (584–1,194) (422–885) (221–478) (159–345) (101–220) (0 example and violence	0 " 1 "							0
Occupational risk factors for injuries (717–1,245) (487–852) (255–445) (91–167) (49–88) (11–20) (0 995 865 633 335 241 154 Occupational low back pain (665–1,382) (584–1,194) (422–885) (221–478) (159–345) (101–220) (0 exual abuse and violence	Occupational noise	, ,	,	,	,	,	· /	(0-0)
995 865 633 335 241 154 Occupational low back pain (665–1,382) (584–1,194) (422–885) (221–478) (159–345) (101–220) (0 example 20 and violence								0
Occupational low back pain (665–1,382) (584–1,194) (422–885) (221–478) (159–345) (101–220) (0 exual abuse and violence	Occupational risk factors for injuries				. , ,			(0-0)
exual abuse and violence								0
	Occupational low back pain	(665–1,382)	(584–1,194)	(422–885)	(221–478)	(159–345)	(101–220)	(0-0)
	exual abuse and violence							
Childhood sexual abuse	count abuse and violence							
	Childhood sexual abuse							
Intimate partner violence	Intimata partner violence							

Web table 4: Global DALYs (in thousands) attribut	table to risk factors by age ar	d sex in 1990					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	25,123	696	1,658	8,956	8,465	1,144	509
Unimproved water and sanitation	(1,262–45,792)	(29-1,380)	(81-3,115)	(444–16,476)	(444–15,452)	(50-2,150)	(21–973)
	10,097	270	654	3,603	3,470	440	202
Unimproved water source	(722–19,424)	(17–582)	(44-1,287)	(255–7,059)	(256-6,779)	(30-894)	(13-429)
	17,441	492	1,161	6,199	5,835	809	355
Unimproved sanitation	(522–32,889)	(13–1,015)	(36–2,280)	(184–11,928)	(180–11,136)	(22–1,569)	(8–705)
Air pollution							
-	35,032	1,200	1,306	5,595	3,863	0	0
Ambient particulate matter pollution	(29,974–40,402)	(769-1,688)	(872-1,748)	(3,784-7,451)	(2,616-5,125)	(0-0)	(0-0)
	79,261	4,152	4,568	19,242	13,795	0	0
Household air pollution from solid fuels	(64,684–93,004)	(2,848-5,503)	(3,214-5,783)	(13,955–24,153)	(10,096-17,469)	(0-0)	(0-0)
<u>-</u>	1,125	0	0	0	0	0	0
Ambient ozone pollution	(375–1,990)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
1	2,489	0	0	0	4	11	7
Other environmental risks	(1,974–3,015)	(0-0)	(0-0)	(0-0)	(1–7)	(6–19)	(4–12)
	(1,2,1,1,2,0,10)	(* *)	(* *)	(* *)	(- ,)	(* ->)	()
Residential radon							
	2,489	0	0	0	4	11	7
Lead exposure	(1,974–3,015)	(0-0)	(0-0)	(0-0)	(1–7)	(6–19)	(4–12)
•	164,599	0	9,288	67,898	64,458	3,536	2,410
Child and maternal undernutrition	(139,926–192,077)	(0-0)	(5,953-12,426)	(55,921–80,266)	(52,644-79,349)	(2,394–5,048)	(1,633-3,439)
	50,359	0	9,285	37,097	3,977	0	0
Suboptimal breastfeeding	(32,186–70,526)	(0-0)	(5,950–12,423)	(22,897–52,842)	(420-8,546)	(0-0)	(0-0)
•	43,601	0	9,285	34,315	0	0	0
Non-exclusive breastfeeding	(26,173–62,072)	(0-0)	(5,950-12,423)	(20,089–49,656)	(0-0)	(0-0)	(0-0)
	6,758	0	0	2,782	3,977	0	0
Discontinued breastfeeding	(696–14,710)	(0-0)	(0-0)	(263-6,354)	(420-8,546)	(0-0)	(0-0)
	93,028	0	0	45,284	47,744	0	0
Childhood underweight	(78,656–112,766)	(0-0)	(0-0)	(37,921–53,845)	(39,053-58,791)	(0-0)	(0-0)
	30,390	0	3	1,798	5,634	3,536	2,410
Iron deficiency	(22,473–40,703)	(0-0)	(2-4)	(1,309-2,477)	(3,930-7,995)	(2,394-5,048)	(1,633-3,439)
	14,598	0	0	3,690	10,908	0	0
Vitamin A deficiency	(7,068–25,637)	(0-0)	(0-0)	(1,660-6,332)	(5,260-19,557)	(0-0)	(0-0)
	11,709	0	0	0	11,709	0	0
Zinc deficiency	(2,640–22,049)	(0-0)	(0-0)	(0-0)	(2,640-22,049)	(0-0)	(0-0)
	46,926	1,323	1,475	6,529	4,327	0	0
Tobacco smoking, including second-hand smoke	(39,634–58,092)	(898-1,833)	(1,018–1,963)	(4,481–8,555)	(2,933–5,668)	(0-0)	(0-0)
	28,784	0	0	0	0	0	0
Tobacco smoking	(21,829–40,090)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	18,142	1,323	1,475	6,529	4,327	0	0
Second-hand smoke	(13,748–22,355)	(898–1,833)	(1,018–1,963)	(4,481–8,555)	(2,933–5,668)	(0-0)	(0-0)
	22,851	14	12	64	227	104	160
Alcohol and drug use	(19,812–26,197)	(8–23)	(5–20)	(37–104)	(117–363)	(76–132)	(125–204)
	17,945	9	4	34	148	89	116
Alcohol use	(15,470–20,768)	(5–15)	(2-10)	(21–49)	(83–223)	(67-110)	(93–143)

Web table 4: Global DALYs (in thousands) attrib										
	Females,	Females,	Females,	Females,	Females,	Females,	Females,			
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years			
	4,993	6	7	30	79	15	44			
Drug use	(3,811–6,417)	(2–11)	(2–13)	(12–66)	(19–175)	(5–34)	(27–70)			
Physiological risk factors										
•	26,181	0	0	0	0	0	0			
High fasting plasma glucose	(22,243–30,349)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	17,006	0	0	0	0	0	0			
High total cholesterol	(13,940–20,640)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	63,897	0	0	0	0	0	0			
High blood pressure	(57,903–70,789)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	26,174	0	0	0	0	0	0			
High body-mass index	(20,911–31,642)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
3	1,361	0	0	0	0	0	0			
Low bone mineral density	(1,102–1,686)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
20 W cone mineral density	72,609	0	0	0	0	0	0			
Dietary risk factors and physical inactivity	(66,495–79,085)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
Dictary fish factors and physical macrivity	32,474	0	0	0	0	0	0			
Diet low in fruits	(25,061–39,155)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
Dict low in fidits	12,803	0	0	0	0	0	0			
Diet low in vegetables	(8,412–17,503)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
Diet low in vegetables	12,370	0	0	0	0	0	0			
Diet low in whole grains	(9,625–14,895)		(0-0)	(0-0)	(0-0)	(0-0)				
Diet low iii whole grains	15,607	(0-0)	0	0	0	0	(0-0)			
Diet low in nuts and seeds					(0-0)					
Diet low in fluts and seeds	(9,915–20,208)	(0-0)	(0-0)	(0-0)	. ,	(0-0)	(0-0)			
Diet low in milk	710	0	0	0	0	0	0			
Diet low in milk	(210–1,210)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
D' (1' 1 ' 1 ')	566	0	0	0	0	0	0			
Diet high in red meat	(263–903)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
Division of the second	6,882	0	0	0	0	0	0			
Diet high in processed meat	(2,340–11,119)	(0-0)	(0-0)	(0–0)	(0–0)	(0-0)	(0-0)			
5	1,506	0	0	0	0	0	0			
Diet high in sugar-sweetened beverages	(861–2,498)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
5	4,862	0	0	0	0	0	0			
Diet low in fibre	(2,188–7,562)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	753	0	0	0	0	0	0			
Diet low in calcium	(521–975)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	8,120	0	0	0	0	0	0			
Diet low in seafood omega-3 fatty acids	(5,900–10,388)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	3,727	0	0	0	0	0	0			
Diet low in polyunsaturated fatty acids	(1,788–5,709)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	3,085	0	0	0	0	0	0			
Diet high in trans fatty acids	(2,226–3,944)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
	19,376	0	0	0	0	0	0			
Diet high in sodium	(12,521–25,596)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)			
Physical inactivity and low physical activity										

Web table 4: Global DALYs (in thousands) attributal			E 1	F1	F1	F1	E1
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	All Ages	0-6 Days	7-27 Days	28-364 Days	1-4 Years	5-9 Years	10-14 Years
	12,754	0	0	0	0	0	0
Occupational risk factors	(9,357–16,658)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	412	0	0	0	0	0	0
Occupational carcinogens	(284–611)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	122	0	0	0	0	0	0
Occupational exposure to asbestos	(78–189)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	12	0	0	0	0	0	0
Occupational exposure to arsenic	(5–24)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	28	0	0	0	0	0	0
Occupational exposure to benzene	(11–52)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	1	0	0	0	0	0	0
Occupational exposure to beryllium	(0–1)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	2	0	0	0	0	0	0
Occupational exposure to cadmium	(1–3)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	8	0	0	0	0	0	0
Occupational exposure to chromium	(4–13)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	54	0	0	0	0	0	0
Occupational exposure to diesel engine exhaust	(31–88)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	100	0	0	0	0	0	0
Occupational exposure to second-hand smoke	(69–162)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
-	7	0	0	0	0	0	0
Occupational exposure to formaldehyde	(3–13)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	37	0	0	0	0	0	0
Occupational exposure to nickel	(10–79)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational exposure to polycyclic aromatic	13	0	0	0	0	0	0
hydrocarbons	(6–23)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
,	31	0	0	0	0	0	0
Occupational exposure to silica	(21–52)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	5	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(1–12)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
overpulsonal emposale to salitaine acid	662	0	0	0	0	0	0
Occupational asthmagens	(366–1,062)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
occupational astimagens	2,745	0	0	0	0	0	0
Occupational particulate matter, gases, and fumes	(1,216–4,406)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational particulate matter, gases, and rumes	933	0	0	0	0	0	0
Occupational noise					(0-0)		
Occupational noise	(550–1,489)	(0-0)	(0-0)	(0-0)	0	(0-0)	(0-0)
Occupational risk factors for injuries	1,090						
Occupational fisk factors for injuries	(836–1,437)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Occupational low heak nein	6,912	0	0	0	0	0	0
Occupational low back pain	(4,487–9,835)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
layyal ahyaa and vialanaa							
Sexual abuse and violence							
CLUB 1 1 1							
Childhood sexual abuse							
Intimate partner violence							

Web table 4: Global DALYs (in thousands) attribut	able to risk factors by ag	e and sex in 1990					
,	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	439	454	391	330	307	225	212
Unimproved water and sanitation	(21-875)	(18-864)	(17–754)	(15-626)	(14–578)	(10-426)	(10-402)
	171	176	157	134	124	91	84
Unimproved water source	(12–361)	(11–361)	(10-321)	(9-269)	(9-253)	(6–187)	(6–176)
	309	320	272	228	212	156	149
Unimproved sanitation	(10-632)	(8-627)	(8-536)	(6–451)	(6-420)	(4–308)	(5–291)
Air pollution							
	0	0	493	628	855	1,092	1,319
Ambient particulate matter pollution	(0-0)	(0-0)	(358–656)	(453–825)	(634–1,122)	(791–1,437)	(934–1,709)
	0	0	925	1,139	1,543	1,865	2,270
Household air pollution from solid fuels	(0-0)	(0-0)	(705-1,179)	(881–1,443)	(1,198–1,925)	(1,463–2,323)	(1,780–2,829)
	0	0	13	14	25	29	42
Ambient ozone pollution	(0-0)	(0-0)	(4–24)	(4–25)	(8–46)	(9–51)	(14–75)
	0	0	171	207	121	153	161
Other environmental risks	(0-0)	(0-0)	(73–282)	(95–336)	(87–169)	(112–213)	(129–199)
Residential radon							
	0	0	171	207	121	153	161
Lead exposure	(0-0)	(0-0)	(73–282)	(95–336)	(87–169)	(112–213)	(129–199)
	2,613	3,061	2,613	2,173	1,917	1,284	866
Child and maternal undernutrition	(1,910–3,537)	(2,289–4,016)	(1,913–3,417)	(1,601–2,846)	(1,405–2,537)	(950–1,689)	(635–1,158)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0–0)
N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
D' (11 (C)	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Childhaad and damadaha	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Iron deficiency	2,613	3,061	2,613	2,173	1,917	1,284	866
Iron deficiency	(1,910–3,537)	(2,289–4,016)	(1,913–3,417)	(1,601–2,846)	(1,405–2,537)	(950–1,689)	(635–1,158)
Vitamin A deficiency	0	0	0	0	0	0	0
Vitaliili A deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Zinc deficiency	0	0	106	770	1,344	2,080	2,072
Tobacco smoking, including second-hand smoke	(0-0)	(0-0)	(71–147)	(553–1,692)	(861–2,158)	(1,408–2,899)	(1,512–2,882)
100acco smoking, including second-nand smoke	0	0	0	633	1,183	1,903	1,821
Tobacco smoking	(0-0)	(0-0)	(0-0)	(423–1,543)	(676–2,014)	(1,186–2,740)	(1,265–2,701)
100acco billoking	0	0	106	137	161	177	251
Second-hand smoke	(0-0)	(0-0)	(71–147)	(93–184)	(96–237)	(103–265)	(153–360)
	1,307	2,041	2,014	1,666	1,776	1,594	1,470
Alcohol and drug use	(1,068–1,593)	(1,637–2,502)	(1,621–2,455)	(1,384–1,996)	(1,498–2,137)	(1,368–1,900)	(1,259–1,718)
and any	800	909	896	919	1,294	1,304	1,294
Alcohol use	(666–968)	(755–1,089)	(756–1,059)	(787–1,063)	(1,091–1,634)	(1,113–1,604)	(1,096–1,532)
	508	1,135	1,122	752	489	298	186
Drug use	(372–684)	(842–1,466)	(828–1,459)	(560–977)	(369–631)	(226–382)	(143–238)
- O	(372-004)	(072-1,700)	(020 -1,737)	(300-711)	(505-051)	(220-302)	(145-250)

Web table 4: Global DALYs (in thousands) attribu	table to risk factors by ag	e and sex in 1990					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
Physiological risk factors							
Filysiological fisk factors	0	0	495	629	1,018	1,174	1,681
High fasting plasma glucose	(0-0)	(0-0)	(402–605)	(515–770)	(837–1,244)	(955–1,435)	(1,395–2,003)
Ingli insuing prosing gravose	0	0	137	184	343	449	740
High total cholesterol	(0-0)	(0-0)	(90–193)	(123–259)	(258–456)	(336–582)	(582–919)
	0	0	505	608	1,389	1,689	3,005
High blood pressure	(0-0)	(0-0)	(343–688)	(419–816)	(1,111–1,712)	(1,343–2,069)	(2,592–3,518)
8	0	0	446	560	1,100	1,272	1,771
High body-mass index	(0-0)	(0-0)	(310–601)	(393–743)	(817–1,410)	(946–1,621)	(1,363–2,233)
<i>6</i> ,	0	0	0	0	0	0	0
Low bone mineral density	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
·	0	0	1,256	1,715	2,404	3,175	3,947
Dietary risk factors and physical inactivity	(0-0)	(0-0)	(1.082-1.440)	(1,508–1,926)	(2,121–2,751)	(2,829–3,639)	(3,502–4,469)
	0	0	664	872	1,225	1,652	2,100
Diet low in fruits	(0-0)	(0-0)	(512-824)	(670–1,062)	(957–1,544)	(1,260-2,063)	(1,627–2,599)
	0	0	324	404	519	659	796
Diet low in vegetables	(0-0)	(0-0)	(197-449)	(256–547)	(312–727)	(387–935)	(459-1,120)
	0	0	329	425	562	703	816
Diet low in whole grains	(0-0)	(0-0)	(256–406)	(332–521)	(438–693)	(559–867)	(633-1,007)
-	0	0	318	422	527	666	785
Diet low in nuts and seeds	(0-0)	(0-0)	(211–403)	(281–551)	(352–678)	(437–873)	(520-1,005)
	0	0	16	24	35	42	51
Diet low in milk	(0-0)	(0-0)	(5–29)	(7–42)	(10-60)	(11–72)	(14–89)
	0	0	17	27	39	46	49
Diet high in red meat	(0-0)	(0-0)	(7–31)	(11–46)	(16–66)	(19–77)	(21–81)
	0	0	154	219	280	359	407
Diet high in processed meat	(0-0)	(0-0)	(63–253)	(93–348)	(124–431)	(152–576)	(163–647)
	0	0	59	70	95	114	118
Diet high in sugar-sweetened beverages	(0-0)	(0-0)	(36–84)	(44–99)	(33-171)	(36–203)	(40-239)
	0	0	135	176	227	265	296
Diet low in fibre	(0-0)	(0-0)	(62–206)	(83–266)	(106–347)	(127–408)	(136–455)
	0	0	20	30	43	49	58
Diet low in calcium	(0-0)	(0-0)	(12–29)	(17–40)	(26-57)	(32–65)	(39–77)
	0	0	188	244	295	374	433
Diet low in seafood omega-3 fatty acids	(0-0)	(0-0)	(137-240)	(177–316)	(216-385)	(267-490)	(307–569)
	0	0	89	116	143	176	204
Diet low in polyunsaturated fatty acids	(0-0)	(0-0)	(42-137)	(57–178)	(69–219)	(86–272)	(99–313)
	0	0	74	98	122	156	184
Diet high in trans fatty acids	(0-0)	(0-0)	(52–99)	(69–129)	(86–163)	(112–208)	(132–243)
	0	0	298	423	607	844	1,010
Diet high in sodium	(0-0)	(0-0)	(172–417)	(283–565)	(367–901)	(529–1,189)	(663–1,346)
Physical inactivity and low physical activity							
	925	1,106	1,216	1,274	1,374	1,265	1,209
Occupational risk factors	(671–1,258)	(808-1,480)	(895-1,604)	(945–1,689)	(1,019-1,811)	(936-1,662)	(889–1,587)
	6	8	9	11	17	22	33
Occupational carcinogens	(3–9)	(5–12)	(6–15)	(7–17)	(11–26)	(14–33)	(21-52)

Veb table 4: Global DALYs (in thousands) attributabl	Females,						
Risk	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45-49 Years
	2	2	2	3	4	6	8
Occupational exposure to asbestos	(1–4)	(1–3)	(1–3)	(2-5)	(2–7)	(4–10)	(5–13)
	0	0	0	0	0	1	1
Occupational exposure to arsenic	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(0-2)
	3	5	5	4	2	2	1
Occupational exposure to benzene	(1–6)	(2–9)	(2–9)	(2–8)	(1–4)	(1–3)	(0-2)
	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational exposure to cadmium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	1
Occupational exposure to chromium	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(0-1)
	0	0	0	1	2	3	5
Occupational exposure to diesel engine exhaust	(0-0)	(0-0)	(0-1)	(0-1)	(1–4)	(1–5)	(3–9)
	0	0	1	1	4	5	10
Occupational exposure to second-hand smoke	(0-0)	(0-0)	(0–1)	(1–2)	(2–6)	(3–9)	(6–15)
	1	1	1	1	1	1	0
Occupational exposure to formaldehyde	(0-1)	(0-2)	(0-2)	(0-2)	(0-1)	(0-1)	(0-1)
	0	0	0	0	1	2	4
Occupational exposure to nickel	(0-0)	(0-0)	(0–1)	(0-1)	(0-3)	(0-5)	(1–8)
Occupational exposure to polycyclic aromatic	0	0	0	0	0	1	1
hydrocarbons	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(1–2)
	0	0	0	0	1	2	3
Occupational exposure to silica	(0-0)	(0-0)	(0-0)	(0-1)	(1–2)	(1–3)	(2-5)
	0	0	0	0	0	0	0
Occupational exposure to sulfuric acid	(0-0)	(0-0)	(0-0)	(0-0)	(0-1)	(0-1)	(0-1)
	81	74	60	53	59	55	58
Occupational asthmagens	(41–134)	(41–118)	(34–96)	(30–84)	(33–97)	(32–93)	(31–97)
	0	0	144	167	229	240	281
Occupational particulate matter, gases, and fumes	(0-0)	(0-0)	(62–237)	(75–272)	(105–373)	(113–380)	(129–448)
	58	78	96	117	105	102	95
Occupational noise	(30–104)	(41–135)	(53–161)	(65–195)	(61–172)	(59–163)	(56–150)
	167	206	178	151	130	93	67
Occupational risk factors for injuries	(123–229)	(151–285)	(134–239)	(116–202)	(95–187)	(72–124)	(52–89)
	613	740	729	776	833	753	674
Occupational low back pain	(387–896)	(472–1,060)	(464–1,046)	(504–1,101)	(543–1,186)	(496–1,073)	(442–958)
xual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

Web table 4: Global DALYs (in thousands) attributa	able to risk factors by ag	e and sex in 1990					
	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	223	237	268	224	174	116	95
Unimproved water and sanitation	(11–426)	(11–461)	(12–527)	(11–442)	(8–335)	(5–220)	(5–182)
***	88	90	103	87	69	46	37
Unimproved water source	(6–180)	(6–186)	(7–223)	(6–182)	(5–142)	(3–95)	(2–75)
TT-i	156	169	190	158	122	81	67
Unimproved sanitation	(5–310)	(5–339)	(5–383)	(5–321)	(4–245)	(2–159)	(2–131)
Air pollution							
i in ponunon	1,984	2,326	2,977	3,113	2,888	2.649	2,745
Ambient particulate matter pollution	(1,436–2,517)	(1,643–3,012)	(2,176–3,789)	(2,148–4,072)	(2,003–3,735)	(1,838–3,359)	(1,957–3,467)
The state of the s	3,370	4,024	5,058	5,210	4,900	3,834	3,367
Household air pollution from solid fuels	(2,656–4,135)	(3,093–4,945)	(3,969–6,261)	(3,993–6,378)	(3,784–6,012)	(2,995–4,734)	(2,615–4,173)
•	74	111	164	183	182	146	143
Ambient ozone pollution	(23–129)	(36–197)	(54–291)	(59–321)	(61–319)	(48–257)	(45–256)
Ambient ozone ponution	230	253	308	302	242	187	132
Other environmental risks	(185–284)	(206–310)	(250–376)	(249–363)	(200–292)	(156–221)	(108–157)
	(103 204)	(200 510)	(230 370)	(24) 303)	(200 2)2)	(130 221)	(100 137)
Residential radon							
	230	253	308	302	242	187	132
Lead exposure	(185–284)	(206-310)	(250–376)	(249–363)	(200–292)	(156–221)	(108–157)
-	653	504	423	308	233	188	173
Child and maternal undernutrition	(452–922)	(353–711)	(301-592)	(222–432)	(168–321)	(136–257)	(132–233)
	0	0	0	0	0	0	0
Suboptimal breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Non-exclusive breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Discontinued breastfeeding	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Childhood underweight	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
T 1-C:-:	653	504	423	308	233	188	173
Iron deficiency	(452–922)	(353–711)	(301–592)	(222–432)	(168–321)	(136–257)	(132–233)
Vitamin A deficiency	0 (0-0)	(0-0)	(0-0)	(0-0)	0 (0–0)	(0-0)	0 (0–0)
Vitaliili A deficiency	0	0	0	0	0	0	0
Zinc deficiency	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
Zine deficiency	3,167	4,028	4,682	4,827	4,202	3,255	2,740
Tobacco smoking, including second-hand smoke	(2,274–4,377)	(2,974–5,433)	(3,481–6,512)	(3,575–6,692)	(3,082–5,667)	(2,535–4,617)	(2,229–3,903)
<i>5,</i> 1	2,800	3,603	4,145	4,240	3,638	2,685	2,134
Tobacco smoking	(1,896–4,076)	(2,544–5,032)	(2,955–5,957)	(2,971–6,171)	(2,502–5,136)	(1,952–4,131)	(1,632–3,256)
	367	425	537	588	564	571	605
Second-hand smoke	(236–500)	(272–593)	(344–723)	(384–790)	(363–753)	(371–758)	(404–797)
	1,745	1,715	1,941	1,381	1,130	1,224	1,266
Alcohol and drug use	(1,501-2,033)	(1,457-2,009)	(1,648-2,283)	(1,107-1,692)	(873–1,416)	(895–1,557)	(822-1,718)
	1,627	1,640	1,889	1,368	1,123	1,219	1,262
Alcohol use	(1,391–1,907)	(1,385–1,932)	(1,597–2,232)	(1,098-1,679)	(865-1,409)	(890–1,551)	(819–1,710)

Web table 4: Global DALYs (in thousands) attributa	ble to risk factors by ag	e and sex in 1990					
· ·	Females,	Females,	Females,	Females,	Females,	Females,	Females,
Risk	50-54 Years	55-59 Years	60-64 Years	65-69 Years	70-74 Years	75-79 Years	80+ Years
	131	91	71	13	7	5	4
Drug use	(103–165)	(73–111)	(58–88)	(9–20)	(5–13)	(3–11)	(2–8)
Physiological risk factors							
,	2,292	3,023	3,601	3,747	3,170	2,834	2,518
High fasting plasma glucose	(1,914–2,719)	(2,567–3,517)	(3,052–4,178)	(3,219–4,347)	(2,718–3,675)	(2,388–3,299)	(2,064–2,943)
	1,174	1,569	2,289	2,642	2,382	2,488	2,609
High total cholesterol	(929–1,465)	(1,284–1,931)	(1,881–2,751)	(2,187–3,149)	(1,907–2,925)	(1,835–3,179)	(2,136–3,131)
	4,298	6,009	7,722	9,411	8,870	9,570	10,820
High blood pressure	(3,740–4,930)	(5,339–6,902)	(6,929–8,749)	(8,619–10,422)	(8,066–9,857)	(8,826–10,385)	(10,016–11,698)
	2,404	2,830	3,592	3,523	2,945	2,953	2,777
High body-mass index	(1,861–2,955)	(2,267–3,442)	(2,912–4,308)	(2,881–4,187)	(2,404–3,509)	(2,407–3,509)	(2,193–3,357)
2 ,	132	163	173	204	165	215	309
Low bone mineral density	(93–177)	(118–220)	(132–225)	(157–262)	(127–210)	(170–269)	(243–387)
	5,900	6,911	8,929	9,822	9,215	9,271	10,063
Dietary risk factors and physical inactivity	(5,285–6,597)	(6,231–7,897)	(8,052–10,040)	(8,879–10,951)	(8,325–10,289)	(8,414–10,158)	(9,060–11,062)
Dietary risk ractors and physical macervity	3,098	3,527	4,172	4,367	3,936	3,583	3,278
Diet low in fruits	(2,429–3,812)	(2,736–4,338)	(3,194–5,142)	(3,353–5,388)	(2,937–4,865)	(2,719–4,409)	(2,471–4,102)
Diet low in fruits	1,151	1,252	1,561	1,646	1,490	1,498	1,503
Diet low in vegetables	(698–1,618)	(769–1,776)	(1,010–2,133)	(1,080–2,291)	(976–2,046)	(981–2,019)	(965–2,053)
Dict low in vegetables	1,143	1,255	1,536	1,571	1,402	1,346	1,281
Diet low in whole grains	(894–1,399)	(974–1,554)	(1,191–1,906)			(1,036–1,642)	(979–1,559)
Diet low ill whole grains	1,216	1,395	1,917	(1,216–1,924) 2,123	(1,088–1,725) 1,943	2,017	2,279
Diet low in nuts and seeds	(780–1,593)	(889–1,831)	(1,217–2,523)	(1,335–2,775)	(1,202–2,574)	(1,242–2,689)	(1,371–3,062)
Diet low in fluts and seeds	72	83	96	93	(1,202–2,374)	(1,242–2,089)	(1,3/1=3,002)
Diet low in milk							
Diet low ill milk	(21–124)	(25–141)	(28–166)	(28–161)	(23–130)	(19–116)	(16–93)
Dist high in and most	61	64	70	65	49	44	36
Diet high in red meat	(28–101)	(30–106)	(32–111)	(30–102)	(22–76)	(20–69)	(16–57)
Diethick in managed manet	574	636	833	888	768	826	938
Diet high in processed meat	(209–912)	(228–1,013)	(261–1,353)	(260–1,470)	(214–1,293)	(213–1,385)	(228–1,632)
D' (1) 1 1	157	153	168	158	136	128	151
Diet high in sugar-sweetened beverages	(49–307)	(72–312)	(79–337)	(90–306)	(74–283)	(58–230)	(53–224)
D' 1 ' C'I	419	464	579	601	552	551	596
Diet low in fibre	(191–645)	(215–714)	(261–911)	(270–942)	(243–868)	(246–877)	(252–966)
	80	90	102	95	77	63	46
Diet low in calcium	(54–104)	(62–118)	(69–137)	(65–126)	(54–103)	(44–84)	(32–62)
	668	741	1,014	1,102	990	1,000	1,070
Diet low in seafood omega-3 fatty acids	(482–876)	(534–987)	(737-1,323)	(796–1,427)	(713–1,284)	(721-1,273)	(764–1,374)
	307	346	462	498	446	452	489
Diet low in polyunsaturated fatty acids	(147–477)	(167–532)	(217–721)	(238–765)	(212–690)	(216–696)	(231–756)
	257	292	379	412	371	350	391
Diet high in trans fatty acids	(183–338)	(212–385)	(270-492)	(296–529)	(262–477)	(247–449)	(278–503)
	1,559	1,900	2,521	2,826	2,573	2,421	2,394
Diet high in sodium	(1,024–2,073)	(1,230-2,552)	(1,610-3,399)	(1,800-3,788)	(1,648–3,487)	(1,517–3,268)	(1,492-3,260)
Physical inactivity and low physical activity							

Veb table 4: Global DALYs (in thousands) attributab	Females, 50-54 Years	Females, 55-59 Years	Females, 60-64 Years	Females, 65-69 Years	Females, 70-74 Years	Females, 75-79 Years	Females, 80+ Years
AVAL	1,265	1,118	941	427	367	252	15
ccupational risk factors	(921–1,655)	(783–1,473)	(650–1,261)	(288–582)	(239–509)	(160–356)	(11–22)
	48	66	72	48	37	20	15
Occupational carcinogens	(31–75)	(42–105)	(47–114)	(32–73)	(25–58)	(15–29)	(11–22)
	11	14	16	18	14	12	10
Occupational exposure to asbestos	(7–17)	(8–21)	(11–26)	(12–28)	(9–21)	(8–19)	(7–16)
1	2	2	3	1	1	0	0
Occupational exposure to arsenic	(1–3)	(1–5)	(1–5)	(1–3)	(0-2)	(0-1)	(0-0)
	1	1	1	1	1	1	1
Occupational exposure to benzene	(0-2)	(0-2)	(0-2)	(1–3)	(0-2)	(0-2)	(0-1)
	0	0	0	0	0	0	0
Occupational exposure to beryllium	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)	(0-0)
	0	0	0	0	0	0	0
Occupational exposure to cadmium	(0-0)	(0-1)	(0-1)	(0-0)	(0-0)	(0-0)	(0-0)
·	1	2	2	1	1	0	0
Occupational exposure to chromium	(1–2)	(1–3)	(1–3)	(0-1)	(0-1)	(0-0)	(0-0)
•	8	11	11	6	5	1	1
Occupational exposure to diesel engine exhaust	(4–13)	(6–19)	(6-20)	(3–10)	(3–8)	(1–2)	(0-2)
·	14	20	21	11	9	3	2
Occupational exposure to second-hand smoke	(9–23)	(13–33)	(13–36)	(7–18)	(5–16)	(2-5)	(1–3)
•	0	0	0	0	0	0	0
Occupational exposure to formaldehyde	(0-1)	(0-1)	(0-1)	(0-1)	(0-0)	(0-0)	(0-0)
· · ·	5	8	8	4	3	1	1
Occupational exposure to nickel	(1–11)	(2–16)	(2–17)	(1–9)	(1–7)	(0-2)	(0-1)
Occupational exposure to polycyclic aromatic	2	3	3	1	1	0	0
hydrocarbons	(1–3)	(1–5)	(1–5)	(1-3)	(0-2)	(0-1)	(0-0)
·	4	6	7	3	3	1	1
Occupational exposure to silica	(3–7)	(4–11)	(4–12)	(2–6)	(2-5)	(0-1)	(0-1)
	1	1	1	1	0	0	0
Occupational exposure to sulfuric acid	(0-2)	(0-2)	(0-3)	(0-1)	(0-1)	(0-0)	(0-0)
	60	57	49	23	19	13	0
Occupational asthmagens	(33–102)	(29-99)	(24–91)	(11–38)	(9–33)	(7–24)	(0-0)
	365	404	405	190	182	138	0
Occupational particulate matter, gases, and fumes	(161–585)	(177–655)	(179-674)	(78–319)	(75–311)	(57–234)	(0-0)
	109	66	63	20	19	4	0
Occupational noise	(64-170)	(37–106)	(35–100)	(11–33)	(11–32)	(2-8)	(0-0)
	50	28	14	4	2	1	0
Occupational risk factors for injuries	(39–67)	(22–38)	(11–18)	(3–5)	(2–3)	(0-1)	(0-0)
	634	496	338	143	107	76	0
Occupational low back pain	(417–896)	(321–704)	(213-493)	(87–215)	(66–162)	(47–114)	(0-0)
xual abuse and violence							
Childhood sexual abuse							
Intimate partner violence							

⁰ indicates zero deaths attributable; blank cells indicate that attributable deaths were not quantified