

Annex Table 3 Burden of disease in DALYs by cause, sex and mortality stratum in WHO Regions,^a estimates for 2001

These figures were produced by WHO using the best available evidence. They are not necessarily the official statistics of Member States.

Cause ^b	SEX						AFRICA		THE AMERICAS			Cause ^b	EASTERN MEDITERRANEAN		EUROPE			SOUTH-EAST ASIA		WESTERN PACIFIC	
	Both sexes		Males		Females		Mortality stratum		Mortality stratum				Mortality stratum		Mortality stratum			Mortality stratum		Mortality stratum	
	(000)	% total	(000)	% total	(000)	% total	High child, high adult	High child, very high adult	Very low child, very low adult	Low child, low adult	High child, high adult		Low child, low adult	High child, high adult	Very low child, very low adult	Low child, low adult	Low child, high adult	Low child, low adult	High child, high adult	Very low child, very low adult	Low child, low adult
Population (000)	6 122 210		3 083 884		3 038 327		301 878	353 598	328 176	437 142	72 649	141 835	351 256	412 512	219 983	241 683	297 525	1 262 285	154 919	1 546 770	
TOTAL DALYs	1 467 257	100	768 131	100	699 126	100	147 899	209 985	46 520	81 270	17 427	23 007	113 214	53 075	38 936	59 212	61 290	357 554	16 430	241 438	
I. Communicable diseases, maternal and perinatal conditions and nutritional deficiencies	615 737	42.0	304 269	39.6	311 468	44.6	105 097	156 359	3 250	17 105	6 761	5 691	61 446	2 579	7 029	4 999	20 403	167 749	1 064	56 205	
Infectious and parasitic diseases	359 377	24.5	184 997	24.1	174 380	24.9	71 903	117 144	1 422	7 424	3 709	2 227	32 514	958	2 388	2 530	11 018	82 977	358	22 805	
Tuberculosis	36 040	2.5	22 629	2.9	13 411	1.9	3 987	4 954	15	532	397	175	2 813	57	469	1 152	3 549	12 419	46	5 472	
STDs excluding HIV	12 404	0.8	4 804	0.6	7 600	1.1	2 287	2 854	73	484	78	139	1 184	79	151	130	464	3 854	34	593	
Syphilis	5 400	0.4	2 984	0.4	2 416	0.3	1 398	1 842	2	65	32	3	584	3	6	7	45	1 283	1	128	
Chlamydia	3 494	0.2	295	0.0	3 199	0.5	373	434	53	235	14	96	296	60	94	79	250	1 199	25	286	
Gonorrhoea	3 320	0.2	1 437	0.2	1 883	0.3	516	577	16	178	30	37	287	15	42	39	165	1 236	7	174	
HIV/AIDS	88 429	6.0	45 457	5.9	42 973	6.1	12 513	54 947	465	1 161	1 141	15	1 698	208	43	657	1 850	11 758	7	1 966	
Diarrhoeal diseases	62 451	4.3	31 633	4.1	30 818	4.4	8 058	13 466	102	1 860	832	683	10 101	109	584	138	1 128	21 249	44	4 097	
Childhood diseases	48 268	3.3	24 102	3.1	24 166	3.5	14 476	10 522	52	191	247	59	7 129	65	298	30	1 529	11 431	35	2 203	
Pertussis	12 464	0.8	6 224	0.8	6 240	0.9	3 479	2 790	50	176	229	42	2 383	63	60	26	159	2 545	34	429	
Poliomyelitis	164	0.0	84	0.0	80	0.0	11	4	2	6	1	4	15	1	7	1	10	54	0	47	
Diphtheria	185	0.0	96	0.0	89	0.0	24	24	0	2	7	0	16	0	1	1	7	96	0	7	
Measles	26 495	1.8	13 235	1.7	13 260	1.9	8 863	6 261	0	0	0	9	3 039	1	227	2	1 151	5 771	1	1 169	
Tetanus	8 960	0.6	4 462	0.6	4 497	0.6	2 098	1 444	0	6	10	4	1 676	0	3	0	202	2 964	0	551	
Meningitis	6 420	0.4	3 458	0.5	2 961	0.4	472	492	48	458	190	110	963	64	281	96	422	2 162	13	649	
Hepatitis B ^c	1 684	0.1	1 079	0.1	605	0.1	123	150	21	61	43	35	136	18	48	24	143	471	21	388	
Hepatitis C ^c	844	0.1	531	0.1	313	0.0	64	77	60	30	9	16	68	30	30	14	63	192	33	158	
Malaria	42 280	2.9	20 024	2.6	22 256	3.2	18 255	17 757	0	88	20	49	2 001	2	18	0	353	3 327	0	409	
Tropical diseases	12 994	0.9	8 741	1.1	4 252	0.6	3 138	3 113	11	576	218	51	1 004	0	8	0	247	4 144	4	480	
Trypanosomiasis	1 598	0.1	1 029	0.1	568	0.1	802	755	0	0	0	0	40	0	0	0	0	0	0	0	
Chagas disease	649	0.0	333	0.0	316	0.0	0	0	8	440	200	0	0	0	0	0	0	0	0	0	
Schistosomiasis	1 760	0.1	1 081	0.1	678	0.1	666	754	1	72	10	28	174	0	0	0	2	1	0	51	
Leishmaniasis	2 357	0.2	1 410	0.2	946	0.1	228	175	1	54	5	20	258	0	6	0	6	1 580	0	25	
Lymphatic filariasis	5 644	0.4	4 317	0.6	1 327	0.2	921	1 012	0	8	1	4	485	0	2	0	239	2 563	4	404	
Onchocerciasis	987	0.1	571	0.1	416	0.1	521	417	0	1	2	0	46	0	0	0	0	0	0	0	
Leprosy	177	0.0	98	0.0	79	0.0	8	8	0	18	0	0	16	0	0	0	18	101	0	7	
Dengue	653	0.0	287	0.0	366	0.1	2	4	0	24	66	9	76	0	0	0	79	281	0	112	
Japanese encephalitis	767	0.1	367	0.0	400	0.1	0	0	0	0	0	0	81	0	0	0	25	322	0	340	
Trachoma	3 997	0.3	1 082	0.1	2 915	0.4	708	818	0	0	0	238	364	0	0	0	81	167	2	1 619	
Intestinal nematode infections	4 706	0.3	2 410	0.3	2 296	0.3	297	377	11	511	102	48	219	0	8	0	487	1 063	6	1 576	
Ascariasis	1 181	0.1	604	0.1	577	0.1	49	72	3	144	26	20	42	0	7	0	113	156	1	547	
Trichuriasis	1 649	0.1	849	0.1	800	0.1	52	72	5	240	47	1	36	0	0	0	196	233	2	766	
Hookworm disease	1 825	0.1	932	0.1	893	0.1	195	231	3	127	20	27	138	0	0	0	177	657	2	246	
Respiratory infections	94 037	6.4	49 591	6.5	44 446	6.4	13 111	16 761	425	2 139	965	1 115	10 615	677	2 056	893	2 497	30 407	394	11 983	
Lower respiratory infections	90 748	6.2	47 902	6.2	42 846	6.1	12 830	16 400	373	1 980	891	1 050	10 327	614	1 973	814	2 358	29 619	372	11 147	
Upper respiratory infections	1 815	0.1	934	0.1	881	0.1	150	189	15	48	52	24	175	26	48	53	58	449	10	518	
Otitis media	1 474	0.1	755	0.1	719	0.1	132	172	38	110	21	40	113	37	34	25	81	338	13	318	
Maternal conditions	30 943	2.1	0	0.0	30 943	4.4	4 783	6 546	189	1 158	496	446	3 684	156	329	266	1 404	8 623	59	2 805	
Perinatal conditions	98 422	6.7	53 777	7.0	44 645	6.4	11 091	10 829	739	5 257	1 100	1 289	11 174	489	1 666	712	3 828	35 667	127	14 453	
Nutritional deficiencies	32 958	2.2	15 905	2.1	17 054	2.4	4 209	5 079	476	1 127	490	615	3 460	299	591	599	1 656	10 075	125	4 158	
Protein-energy malnutrition	16 680	1.1	8 491	1.1	8 190	1.2	2 635	2 946	33	731	257	178	1 981	25	115	57	691	5 107	17	1 907	
Iodine deficiency	2 502	0.2	1 741	0.2	761	0.1	216	642	5	65	22	90	398	2	162	311	57	417	0	115	
Vitamin A deficiency	981	0.1	402	0.1	579	0.1	386	439	0	0	0	0	45	0	1	0	3	96	0	11	
Iron-deficiency anaemia	12 039	0.8	4 918	0.6	7 121	1.0	959	1 049	434	294	207	345	933	267	288	204	821	4 050	105	2 083	

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	Both sexes		Males		Females		Mortality stratum		Mortality stratum				Mortality stratum		Mortality stratum			Mortality stratum		Mortality stratum	
	(000)	% total	(000)	% total	(000)	% total	High child, high adult	High child, very high adult	Very low child, very low adult	Low child, low adult	High child, high adult		Low child, low adult	High child, high adult	Very low child, very low adult	Low child, low adult	Low child, high adult	Low child, low adult	High child, high adult	Very low child, very low adult	Low child, low adult
Population (000)	6 122 210		3 083 884		3 038 327		301 878	353 598	328 176	437 142	72 649	141 835	351 256	412 512	219 983	241 683	297 525	1 262 285	154 919	1 546 770	
	(000)	% total	(000)	% total	(000)	% total	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	
II. Noncommunicable conditions	672 865	45.9	346 575	45.1	326 290	46.7	30 030	36 075	38 642	50 328	8 432	13 282	39 329	46 259	27 473	42 170	31 866	144 703	13 720	150 556	
Malignant neoplasms	76 716	5.2	40 943	5.3	35 772	5.1	2 956	3 881	5 555	4 513	883	1 084	2 824	8 554	3 330	5 486	3 027	10 630	2 743	21 248	
Mouth and oropharynx cancers	3 734	0.3	2 693	0.4	1 041	0.1	132	284	101	128	14	43	203	277	110	216	199	1 365	58	603	
Oesophagus cancer	4 191	0.3	2 712	0.4	1 478	0.2	60	238	133	134	8	39	106	239	78	133	43	732	92	2 155	
Stomach cancer	8 149	0.6	5 067	0.7	3 082	0.4	214	204	139	398	141	135	131	454	296	714	97	550	404	4 273	
Colon/rectum cancer	5 762	0.4	3 089	0.4	2 673	0.4	144	166	593	287	38	64	144	1 028	279	570	279	372	373	1 426	
Liver cancer	7 317	0.5	5 132	0.7	2 185	0.3	431	500	127	180	63	46	129	276	106	132	363	483	276	4 205	
Pancreas cancer	1 948	0.1	1 099	0.1	849	0.1	34	52	249	143	22	20	34	379	121	208	60	133	148	346	
Trachea/bronchus/lung cancers	11 258	0.8	8 065	1.0	3 194	0.5	98	157	1 400	474	26	122	218	1 660	642	1 021	368	1 310	420	3 341	
Melanoma and other skin cancers	671	0.0	377	0.0	294	0.0	38	59	123	61	11	4	19	140	45	66	11	27	26	41	
Breast cancer	6 317	0.4	23	0.0	6 294	0.9	187	300	666	427	60	86	332	993	296	514	395	839	201	1 021	
Cervix uteri cancer	3 827	0.3	...	...	3 827	0.5	288	505	94	300	77	54	121	105	114	163	240	1 349	35	384
Corpus uteri cancer	937	0.1	...	...	937	0.1	13	20	88	170	54	8	17	131	78	133	29	34	32	128
Ovary cancer	1 605	0.1	...	...	1 605	0.2	47	91	149	95	16	16	64	229	83	157	129	239	56	235
Prostate cancer	1 495	0.1	1 495	0.2	...	...	149	125	212	159	32	13	38	335	64	101	41	114	59	52
Bladder cancer	1 548	0.1	1 059	0.1	490	0.1	74	65	109	52	6	26	213	254	89	125	47	270	40	178	
Lymphomas, multiple myeloma	4 360	0.3	2 403	0.3	1 957	0.3	353	362	376	230	51	130	292	437	168	137	203	1 107	113	400	
Leukaemia	4 660	0.3	2 670	0.3	1 989	0.3	145	232	252	360	88	101	330	323	182	211	228	759	96	1 352	
Other neoplasms	1 773	0.1	904	0.1	869	0.1	31	44	104	136	22	35	191	176	38	65	333	271	68	259	
Diabetes mellitus	15 446	1.1	7 328	1.0	8 118	1.2	358	460	1 388	1 798	226	418	833	1 083	526	682	1 098	3 417	377	2 783	
Nutritional/endocrine disorders	8 232	0.6	3 763	0.5	4 469	0.6	754	897	802	1 181	252	242	629	637	177	184	402	537	229	1 310	
Neuropsychiatric disorders	191 260	13.0	93 488	12.2	97 772	14.0	7 868	9 412	13 845	18 598	2 927	4 234	10 555	14 727	7 015	8 858	8 538	39 553	3 757	41 373	
Unipolar depressive disorders	65 911	4.5	26 279	3.4	39 632	5.7	1 939	2 258	5 152	5 687	887	1 211	3 623	4 091	2 587	2 612	2 874	17 299	1 005	14 685	
Bipolar affective disorder	13 708	0.9	6 932	0.9	6 776	1.0	767	899	516	1 037	176	360	832	617	473	450	705	2 946	241	3 691	
Schizophrenia	15 891	1.1	8 117	1.1	7 774	1.1	755	871	522	1 237	208	448	994	591	569	443	1 054	3 629	234	4 336	
Epilepsy	6 787	0.5	3 617	0.5	3 171	0.5	455	690	173	729	147	125	479	244	191	192	335	1 879	66	1 082	
Alcohol use disorders	19 843	1.4	16 623	2.2	3 221	0.5	251	752	2 497	3 435	344	16	178	2 129	610	1 690	570	1 435	480	5 456	
Alzheimer and other dementias	12 437	0.8	5 393	0.7	7 043	1.0	287	324	1 472	774	59	172	400	3 153	452	967	446	1 681	530	1 719	
Parkinson disease	1 599	0.1	771	0.1	828	0.1	31	38	230	51	7	25	173	287	65	80	54	190	107	261	
Multiple sclerosis	1 442	0.1	624	0.1	818	0.1	52	41	113	102	16	33	72	156	60	86	64	272	30	346	
Drug use disorders	7 116	0.5	5 556	0.7	1 560	0.2	590	642	786	806	233	488	606	757	180	447	124	859	246	351	
Post-traumatic stress disorder	3 266	0.2	906	0.1	2 360	0.3	143	167	181	203	32	79	185	207	125	130	180	705	81	847	
Obsessive-compulsive disorder	4 819	0.3	2 074	0.3	2 745	0.4	380	447	223	543	87	186	335	256	270	281	172	822	63	755	
Panic disorder	6 636	0.5	2 254	0.3	4 383	0.6	347	408	269	499	85	177	408	321	245	238	363	1 470	127	1 679	
Insomnia (primary)	3 406	0.2	1 467	0.2	1 939	0.3	136	158	264	316	48	34	155	346	117	158	116	842	130	584	
Migraine	7 565	0.5	2 053	0.3	5 511	0.8	187	246	500	735	148	144	405	742	254	238	341	1 682	153	1 788	
Sense organ disorders	38 742	2.6	18 759	2.4	19 983	2.9	2 086	2 234	1 681	1 793	307	879	2 457	2 234	1 024	1 819	2 995	10 585	806	7 841	
Glaucoma	1 152	0.1	456	0.1	696	0.1	158	163	15	89	6	68	141	44	37	102	34	71	8	217	
Cataracts	8 269	0.6	3 896	0.5	4 373	0.6	863	857	40	304	118	174	695	19	87	236	599	2 959	18	1 299	
Hearing loss, adult onset	25 873	1.8	13 185	1.7	12 688	1.8	942	1 072	1 402	1 168	149	574	1 464	1 857	768	1 299	2 199	6 917	661	5 400	
Cardiovascular diseases	144 471	9.8	77 155	10.0	67 316	9.6	5 388	5 976	6 950	7 194	1 001	2 935	8 855	9 201	8 495	16 440	6 104	35 427	2 391	28 115	
Rheumatic heart disease	6 112	0.4	2 615	0.3	3 497	0.5	359	405	42	108	11	68	510	78	137	217	228	2 336	20	1 593	
Hypertensive heart disease	7 306	0.5	3 630	0.5	3 676	0.5	256	304	324	563	118	294	537	317	515	349	593	866	41	2 229	
Ischaemic heart disease	58 725	4.0	33 826	4.4	24 899	3.6	1 614	1 644	3 523	2 688	295	1 514	3 839	3 867	3 702	8 431	2 246	17 990	772	6 601	
Cerebrovascular disease	45 870	3.1	23 603	3.1	22 267	3.2	1 508	1 810	1 448	2 332	277	489	1 875	2 590	2 496	5 357	1 971	7 981	1 099	14 637	
Inflammatory heart disease	5 670	0.4	3 272	0.4	2 398	0.3	358	414	400	418	24	79	386	278	324	600	254	1 320	78	737	

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	(000)	% total	(000)	% total	(000)	% total	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	
Respiratory diseases	62 842	4.3	34 634	4.5	28 208	4.0	3 126	4 144	2 986	4 848	761	674	3 125	3 195	1 699	2 149	2 366	14 042	1 053	18 674	
Chronic obstructive pulmonary disease	29 917	2.0	17 012	2.2	12 905	1.8	505	608	1 552	1 359	86	178	828	1 777	737	1 201	895	6 441	380	13 372	
Asthma	15 010	1.0	8 036	1.0	6 973	1.0	943	1 300	777	1 539	282	304	999	706	369	290	543	3 630	375	2 952	
Digestive diseases	50 173	3.4	28 303	3.7	21 869	3.1	2 864	3 506	1 705	3 759	782	545	3 622	2 447	2 027	2 682	2 523	12 791	706	10 214	
Peptic ulcer disease	4 585	0.3	2 922	0.4	1 663	0.2	144	196	53	136	39	38	235	133	153	219	258	1 712	35	1 234	
Cirrhosis of the liver	15 051	1.0	9 765	1.3	5 286	0.8	527	621	494	1 164	274	133	940	922	687	1 014	854	4 206	201	3 015	
Appendicitis	418	0.0	245	0.0	173	0.0	25	33	14	37	14	7	20	16	9	21	27	96	5	94	
Diseases of the genitourinary system	15 010	1.0	8 822	1.1	6 188	0.9	1 271	1 509	595	1 055	265	349	1 114	549	565	725	823	2 729	225	3 236	
Nephritis/nephrosis	8 236	0.6	4 527	0.6	3 709	0.5	651	771	238	488	166	120	757	195	273	220	479	1 865	99	1 915	
Benign prostatic hypertrophy	2 428	0.2	2 428	0.3	...	...	126	143	87	200	28	67	133	121	64	76	116	526	50	690
Skin diseases	2 171	0.1	1 183	0.2	989	0.1	335	425	73	171	42	21	145	88	37	133	241	309	19	133	
Musculoskeletal diseases	29 798	2.0	13 007	1.7	16 792	2.4	1 037	1 144	1 923	2 178	304	485	1 203	2 448	1 468	1 902	1 564	5 085	982	8 077	
Rheumatoid arthritis	4 757	0.3	1 353	0.2	3 404	0.5	127	141	324	532	83	99	218	423	271	359	117	855	142	1 065	
Osteoarthritis	16 372	1.1	6 621	0.9	9 750	1.4	625	687	1 045	969	117	227	577	1 489	930	1 210	931	2 474	649	4 442	
Congenital abnormalities	28 083	1.9	14 330	1.9	13 753	2.0	1 715	2 161	685	2 284	514	962	3 121	566	679	697	1 191	7 616	221	5 670	
Oral diseases	8 148	0.6	3 956	0.5	4 191	0.6	242	282	352	820	147	419	655	353	393	347	661	1 712	141	1 623	
Dental caries	4 677	0.3	2 371	0.3	2 306	0.3	180	212	180	696	129	201	367	200	192	164	251	1 062	76	767	
Periodontal disease	296	0.0	150	0.0	146	0.0	14	17	13	21	3	5	19	16	11	13	15	98	6	46	
Edentulism	3 057	0.2	1 398	0.2	1 659	0.2	43	48	156	95	13	210	262	134	189	169	389	517	58	775	
III. Injuries	178 656	12.2	117 287	15.3	61 368	8.8	12 771	17 551	4 628	13 837	2 235	3 960	12 439	4 237	4 434	12 042	9 021	45 102	1 646	34 677	
Unintentional	129 853	8.9	82 378	10.7	47 475	6.8	9 403	10 886	3 053	7 288	1 679	3 296	9 033	3 121	3 371	7 614	7 032	36 900	994	26 184	
Road traffic accidents	37 719	2.6	26 187	3.4	11 532	1.6	2 786	3 527	1 348	2 712	459	1 312	2 273	1 251	651	1 615	3 934	7 245	323	8 286	
Poisoning	7 508	0.5	4 706	0.6	2 802	0.4	488	662	315	73	20	66	367	128	132	1 860	172	1 662	42	1 521	
Falls	15 672	1.1	9 835	1.3	5 837	0.8	411	472	378	696	130	350	1 098	635	547	853	713	4 939	185	4 266	
Fires	10 974	0.7	4 686	0.6	6 287	0.9	837	827	96	143	37	242	1 013	62	165	668	307	6 008	26	542	
Drowning	11 778	0.8	8 150	1.1	3 628	0.5	1 648	1 353	112	478	109	154	690	76	176	603	329	2 201	66	3 781	
Other unintentional injuries	46 202	3.1	28 814	3.8	17 389	2.5	3 233	4 045	804	3 186	926	1 171	3 592	969	1 700	2 017	1 577	14 844	350	7 787	
Intentional	48 802	3.3	34 910	4.5	13 893	2.0	3 369	6 666	1 575	6 549	555	738	3 406	1 116	1 063	4 428	1 989	8 203	653	8 493	
Self-inflicted	19 923	1.4	11 579	1.5	8 345	1.2	284	461	808	635	99	291	690	947	512	1 995	864	5 768	617	5 952	
Violence	20 167	1.4	15 831	2.1	4 336	0.6	2 248	2 895	684	5 653	452	324	618	144	320	1 916	521	1 978	35	2 378	
War	8 309	0.6	7 193	0.9	1 116	0.2	836	3 309	70	236	4	113	2 040	24	211	490	600	246	0	130	

^a See the List of Member States by WHO Region and mortality stratum.^b Estimates for specific causes may not sum to broader cause groupings due to omission of residual categories.^c Does not include liver cancer and cirrhosis deaths resulting from chronic hepatitis virus infection.

... Data not available or not applicable.