

Annex Table 3 Deaths by cause, sex and mortality stratum in WHO Regions^a, estimates for 1999

Cause ^b	SEX						AFRICA		THE AMERICAS		
	Both sexes		Males		Females		Mortality stratum		Mortality stratum		
							High child, high adult	High child, very high adult	Very low child, very low adult	Low child, low adult	High child, high adult
<i>Population (000)</i>	<i>5 961 628</i>		<i>3 002 288</i>		<i>2 959 340</i>		<i>286 350</i>	<i>330 085</i>	<i>318 235</i>	<i>424 932</i>	<i>69 898</i>
	(000)	% total	(000)	% total	(000)	% total	(000)	(000)	(000)	(000)	(000)
TOTAL DEATHS	55 965	100	29 158	100	26 807	100	4 381	6 055	2 641	2 490	556
I. Communicable diseases, maternal and perinatal conditions and nutritional deficiencies	17 380	31.1	8 734	30.0	8 645	32.2	2 931	4 429	185	519	175
Infectious and parasitic diseases	9 986	17.8	5 178	17.8	4 809	17.9	1 933	3 290	60	195	81
Tuberculosis	1 669	3.0	1 003	3.4	666	2.5	128	229	2	36	21
STDs excluding HIV	178	0.3	83	0.3	95	0.4	38	36	0	3	0
Syphilis	153	0.3	83	0.3	69	0.3	33	31	0	3	0
Chlamydia	16	0.0	0	0.0	16	0.1	3	3	0	0	0
Gonorrhoea	9	0.0	0	0.0	9	0.0	2	2	0	0	0
HIV/AIDS	2 673	4.8	1 302	4.5	1 371	5.1	458	1 696	19	45	17
Diarrhoeal diseases	2 213	4.0	1 119	3.8	1 094	4.1	371	394	2	49	23
Childhood diseases	1 554	2.8	798	2.7	755	2.8	373	367	0	20	1
Pertussis	295	0.5	157	0.5	138	0.5	67	66	0	14	0
Poliomyelitis	2	0.0	1	0.0	1	0.0	0	0	0	0	0
Diphtheria	4	0.0	2	0.0	2	0.0	0	0	0	0	0
Measles	875	1.6	451	1.5	424	1.6	258	256	0	1	0
Tetanus	377	0.7	188	0.6	189	0.7	47	44	0	5	0
Meningitis	171	0.3	90	0.3	81	0.3	19	22	1	11	2
Hepatitis	124	0.2	74	0.3	50	0.2	17	20	5	5	2
Malaria	1 086	1.9	553	1.9	532	2.0	481	472	0	2	0
Tropical diseases	171	0.3	94	0.3	77	0.3	43	51	0	23	0
Trypanosomiasis	66	0.1	37	0.1	30	0.1	29	35	0	0	0
Chagas disease	21	0.0	11	0.0	10	0.0	0	0	0	21	0
Schistosomiasis	14	0.0	8	0.0	6	0.0	3	3	0	2	0
Leishmaniasis	57	0.1	32	0.1	25	0.1	6	8	0	0	0
Lymphatic filariasis	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Onchocerciasis	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Leprosy	3	0.0	2	0.0	1	0.0	0	0	0	1	0
Dengue	13	0.0	6	0.0	7	0.0	0	0	0	0	0
Japanese encephalitis	6	0.0	3	0.0	3	0.0	0	0	0	0	0
Trachoma	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Intestinal nematode infections	16	0.0	8	0.0	7	0.0	2	3	0	2	2
Ascariasis	3	0.0	2	0.0	2	0.0	1	1	0	0	0
Trichuriasis	2	0.0	1	0.0	1	0.0	0	1	0	0	0
Hookworm disease	7	0.0	4	0.0	3	0.0	1	1	0	1	0
Respiratory infections	4 039	7.2	2 046	7.0	1 993	7.4	492	594	101	159	39
Acute lower respiratory infections	3 963	7.1	2 013	6.9	1 950	7.3	486	587	101	157	37
Acute upper respiratory infections	47	0.1	23	0.1	24	0.1	3	3	0	2	2
Otitis media	20	0.0	9	0.0	11	0.0	3	4	0	0	0
Maternal conditions	497	0.9	0	0.0	497	1.9	102	153	0	12	6
Perinatal conditions	2 356	4.2	1 273	4.4	1 084	4.0	319	296	15	103	35
Nutritional deficiencies	493	0.9	236	0.8	257	1.0	85	95	9	50	13
Protein-energy malnutrition	272	0.5	133	0.5	139	0.5	52	58	4	34	9
Iodine deficiency	9	0.0	6	0.0	4	0.0	1	1	0	0	0
Vitamin A deficiency	61	0.1	30	0.1	31	0.1	17	20	0	0	0
Anaemias	133	0.2	60	0.2	73	0.3	14	16	5	16	4

Cause ^b	EASTERN MEDITERRANEAN		EUROPE			SOUTH-EAST ASIA		WESTERN PACIFIC	
	Mortality stratum		Mortality stratum			Mortality stratum		Mortality stratum	
	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
<i>Population (000)</i>	<i>136 798</i>	<i>348 468</i>	<i>410 233</i>	<i>215 276</i>	<i>246 336</i>	<i>288 750</i>	<i>1 219 492</i>	<i>152 882</i>	<i>1 513 894</i>
	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)
TOTAL DEATHS	900	3 318	4 084	1 817	3 156	1 944	12 326	1 115	11 182
I. Communicable diseases, maternal and perinatal conditions and nutritional deficiencies	132	1 364	240	184	107	574	5 025	120	1 396
Infectious and parasitic diseases	60	697	53	72	52	266	2 651	19	558
Tuberculosis	13	99	6	19	35	152	571	4	355
STDs excluding HIV	0	19	0	0	0	1	80	0	2
Syphilis	0	18	0	0	0	0	65	0	2
Chlamydia	0	0	0	0	0	0	10	0	0
Gonorrhoea	0	0	0	0	0	0	5	0	0
HIV/AIDS	0	29	7	4	4	36	324	1	33
Diarrhoeal diseases	28	272	2	25	3	27	951	1	66
Childhood diseases	12	179	0	11	2	26	516	2	45
Pertussis	2	35	0	4	1	2	93	2	10
Poliomyelitis	0	0	0	0	0	0	1	0	0
Diphtheria	0	0	0	0	0	0	3	0	0
Measles	8	89	0	4	0	18	223	0	17
Tetanus	1	54	0	3	1	6	196	0	18
Meningitis	3	22	2	4	3	10	59	0	13
Hepatitis	0	4	4	1	0	4	31	5	26
Malaria	0	44	0	0	0	10	59	0	16
Tropical diseases	1	8	0	1	0	1	40	0	2
Trypanosomiasis	0	2	0	0	0	0	0	0	0
Chagas disease	0	0	0	0	0	0	0	0	0
Schistosomiasis	1	1	0	1	0	1	0	0	2
Leishmaniasis	0	3	0	0	0	0	40	0	0
Lymphatic filariasis	0	0	0	0	0	0	0	0	0
Onchocerciasis	0	0	0	0	0	0	0	0	0
Leprosy	0	0	0	0	0	0	2	0	0
Dengue	0	0	0	0	0	0	12	0	0
Japanese encephalitis	0	0	0	0	0	0	1	0	4
Trachoma	0	0	0	0	0	0	0	0	0
Intestinal nematode infections	0	1	0	0	0	1	5	0	1
Ascariasis	0	0	0	0	0	0	1	0	0
Trichuriasis	0	0	0	0	0	0	1	0	0
Hookworm disease	0	0	0	0	0	0	3	0	0
Respiratory infections	37	306	166	73	36	108	1 415	96	418
Acute lower respiratory infections	37	301	164	60	33	106	1 382	95	417
Acute upper respiratory infections	0	3	2	13	3	1	14	1	0
Otitis media	0	2	0	0	0	1	10	0	0
Maternal conditions	3	36	1	2	1	14	144	0	21
Perinatal conditions	26	287	11	34	17	180	671	2	361
Nutritional deficiencies	6	38	9	4	1	16	143	1	21
Protein-energy malnutrition	3	23	3	1	0	7	73	1	4
Iodine deficiency	0	1	0	0	0	0	6	0	0
Vitamin A deficiency	0	5	0	0	0	0	19	0	0
Anaemias	1	7	6	2	1	7	47	0	3

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	Both sexes		Males		Females		Mortality stratum		Mortality stratum		
							High child, high adult	High child, very high adult	Very low child, very low adult	Low child, low adult	High child, high adult
Population (000)	5 961 628		3 002 288		2 959 340		286 350	330 085	318 235	424 932	69 898
	(000)	% total	(000)	% total	(000)	% total	(000)	(000)	(000)	(000)	(000)
II. Noncommunicable conditions	33 484	59.8	17 039	58.4	16 445	61.3	1 074	1 226	2 283	1 648	324
Malignant neoplasms	7 065	12.6	3 915	13.4	3 150	11.7	234	289	632	335	65
Mouth and oropharynx	282	0.5	185	0.6	97	0.4	5	6	11	10	1
Esophagus	381	0.7	250	0.9	131	0.5	19	25	16	13	1
Stomach	801	1.4	489	1.7	312	1.2	21	27	19	42	12
Colon/rectum	509	0.9	263	0.9	246	0.9	6	6	76	24	2
Liver	589	1.1	410	1.4	179	0.7	44	56	6	6	3
Pancreas	194	0.3	102	0.4	91	0.3	6	8	32	6	2
Trachea/bronchus/lung	1 193	2.1	860	2.9	333	1.2	14	16	180	41	5
Melanoma and other skin cancers	74	0.1	38	0.1	36	0.1	2	3	3	3	0
Breast	467	0.8	0	0.0	467	1.7	12	15	56	27	5
Cervix	237	0.4	0	0.0	237	0.9	24	32	6	18	6
Corpus uteri	79	0.1	0	0.0	79	0.3	1	1	9	10	0
Ovary	105	0.2	0	0.0	105	0.4	4	4	15	3	2
Prostate	255	0.5	255	0.9	0	0.0	14	18	45	22	2
Bladder	138	0.2	100	0.3	39	0.1	8	10	16	6	0
Lymphoma	295	0.5	170	0.6	125	0.5	13	15	47	15	4
Leukaemia	268	0.5	142	0.5	127	0.5	7	8	27	15	4
Other neoplasms	102	0.2	53	0.2	49	0.2	2	2	9	10	2
Diabetes mellitus	777	1.4	335	1.2	441	1.6	18	20	74	98	44
Nutritional/endocrine disorders	306	0.5	155	0.5	151	0.6	22	24	27	54	11
Neuropsychiatric disorders	911	1.6	473	1.6	438	1.6	38	43	120	44	13
Unipolar major depression	1	0.0	1	0.0	1	0.0	0	0	0	0	0
Bipolar affective disorder	5	0.0	2	0.0	3	0.0	0	0	0	0	0
Psychoses	18	0.0	9	0.0	9	0.0	0	0	1	0	0
Epilepsy	95	0.2	61	0.2	35	0.1	11	13	2	6	2
Alcohol dependence	60	0.1	52	0.2	8	0.0	0	1	6	10	3
Alzheimer and other dementias	271	0.5	98	0.3	173	0.6	2	2	60	5	0
Parkinson disease	84	0.2	42	0.1	42	0.2	1	2	14	0	0
Multiple sclerosis	17	0.0	7	0.0	10	0.0	0	0	3	1	0
Drug dependence	5	0.0	5	0.0	1	0.0	0	0	0	0	0
Post traumatic stress disorder	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Obsessive-compulsive disorders	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Panic disorder	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Sense organ disorders	2	0.0	1	0.0	2	0.0	0	1	0	0	0
Glaucoma	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Cataracts	1	0.0	0	0.0	1	0.0	0	0	0	0	0
Cardiovascular diseases	16 970	30.3	8 059	27.6	8 911	33.2	447	488	1 086	760	96
Rheumatic heart disease	376	0.7	154	0.5	222	0.8	17	18	6	6	2
Ischaemic heart disease	7 089	12.7	3 556	12.2	3 533	13.2	153	159	551	294	41
Cerebrovascular disease	5 544	9.9	2 530	8.7	3 014	11.2	153	180	187	207	24
Inflammatory cardiac disease	454	0.8	238	0.8	216	0.8	17	17	30	12	2
Respiratory diseases	3 575	6.4	1 897	6.5	1 678	6.3	104	122	162	121	19
Chronic obstructive pulmonary disease	2 660	4.8	1 420	4.9	1 240	4.6	50	59	118	39	5
Asthma	186	0.3	92	0.3	94	0.4	9	10	6	6	2

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<i>Population (000)</i>	<i>136 798</i>	<i>348 468</i>	<i>410 233</i>	<i>215 276</i>	<i>246 336</i>	<i>288 750</i>	<i>1 219 492</i>	<i>152 882</i>	<i>1 513 894</i>
	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)
II. Noncommunicable conditions	709	1 609	3 642	1 479	2 655	1 089	6 281	920	8 542
Malignant neoplasms	74	200	1 066	248	480	283	886	336	1 937
Mouth and oropharynx	2	14	25	7	16	12	113	6	53
Esophagus	2	10	28	7	15	9	59	12	166
Stomach	4	14	71	26	75	39	73	56	322
Colon/rectum	3	7	140	22	57	10	28	43	84
Liver	4	13	24	7	2	33	39	34	319
Pancreas	3	5	51	9	3	6	13	20	27
Trachea/bronchus/lung	12	21	209	50	99	44	75	61	366
Melanoma and other skin cancers	1	1	7	4	1	14	2	3	31
Breast	1	12	91	15	36	23	91	13	70
Cervix	4	12	8	8	11	10	51	3	44
Corpus uteri	1	1	16	4	11	3	6	3	11
Ovary	1	4	25	4	1	5	20	5	11
Prostate	2	7	70	8	12	2	29	10	13
Bladder	3	6	36	7	1	4	16	6	19
Lymphoma	9	18	53	11	13	8	48	14	27
Leukaemia	5	14	36	10	14	10	53	9	55
Other neoplasms	1	3	27	3	4	5	10	9	14
Diabetes mellitus	16	38	87	28	21	37	143	17	136
Nutritional/endocrine disorders	9	20	24	7	4	14	3	9	77
Neuropsychiatric disorders	15	47	152	24	33	41	150	20	171
Unipolar major depression	0	0	0	0	0	0	0	0	1
Bipolar affective disorder	0	0	0	0	0	0	4	0	0
Psychoses	0	1	1	0	0	2	9	0	4
Epilepsy	1	6	6	4	4	5	19	1	16
Alcohol dependence	0	1	12	3	1	4	7	1	9
Alzheimer and other dementias	1	5	77	2	1	20	41	8	46
Parkinson disease	1	2	20	1	0	2	12	4	26
Multiple sclerosis	0	0	4	1	2	0	5	0	1
Drug dependence	0	0	4	0	0	0	0	0	0
Post traumatic stress disorder	0	0	0	0	0	0	0	0	0
Obsessive-compulsive disorders	0	0	0	0	0	0	0	0	0
Panic disorder	0	0	0	0	0	0	0	0	0
Sense organ disorders	0	0	0	0	0	0	0	0	0
Glaucoma	0	0	0	0	0	0	0	0	0
Cataracts	0	0	0	0	0	0	0	0	0
Cardiovascular diseases	462	907	1 802	981	1 841	428	3 752	392	3 527
Rheumatic heart disease	11	28	11	14	15	12	116	3	117
Ischaemic heart disease	196	405	823	372	968	160	2 078	121	767
Cerebrovascular disease	116	212	471	255	623	193	804	166	1 952
Inflammatory cardiac disease	20	41	26	22	25	13	144	7	80
Respiratory diseases	42	114	201	62	124	104	473	55	1 871
Chronic obstructive pulmonary disease	28	61	144	41	90	46	249	22	1 708
Asthma	4	10	12	5	9	20	34	7	50

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Population (000)	5 961 628		3 002 288		2 959 340		286 350	330 085	318 235	424 932	69 898
	(000)	% total	(000)	% total	(000)	% total	(000)	(000)	(000)	(000)	(000)
Digestive diseases	2 049	3.7	1 241	4.3	808	3.0	96	114	93	137	47
Peptic ulcer disease	266	0.5	161	0.6	105	0.4	6	8	6	11	3
Cirrhosis of the liver	909	1.6	614	2.1	294	1.1	32	39	30	62	28
Appendicitis	43	0.1	27	0.1	16	0.1	1	2	1	2	1
Diseases of the genitourinary system	900	1.6	497	1.7	403	1.5	57	63	52	48	15
Nephritis/nephrosis	697	1.2	372	1.3	325	1.2	39	41	29	35	12
Benign prostatic hypertrophy	45	0.1	45	0.2	0	0.0	3	4	1	1	0
Skin diseases	61	0.1	27	0.1	34	0.1	10	13	4	4	1
Musculoskeletal diseases	107	0.2	37	0.1	69	0.3	6	8	12	7	2
Rheumatoid arthritis	19	0.0	7	0.0	12	0.0	1	1	2	0	0
Osteoarthritis	1	0.0	0	0.0	1	0.0	0	0	0	0	0
Congenital abnormalities	652	1.2	348	1.2	304	1.1	39	40	14	29	8
Oral diseases	1	0.0	0	0.0	0	0.0	0	0	0	0	0
Dental caries	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Periodontal disease	0	0.0	0	0.0	0	0.0	0	0	0	0	0
Edentulism	0	0.0	0	0.0	0	0.0	0	0	0	0	0
III. Injuries	5 101	9.1	3 385	11.6	1 716	6.4	376	400	172	322	58
Unintentional	3 412	6.1	2 284	7.8	1 128	4.2	224	232	113	183	35
Road traffic accidents	1 230	2.2	908	3.1	323	1.2	91	97	48	87	13
Poisoning	257	0.5	170	0.6	87	0.3	15	16	12	3	1
Falls	347	0.6	206	0.7	142	0.5	9	11	20	17	4
Fires	258	0.5	111	0.4	147	0.5	16	13	4	4	1
Drowning	447	0.8	294	1.0	153	0.6	42	37	4	18	3
Other unintentional injuries	865	1.5	589	2.0	276	1.0	51	58	24	51	12
Intentional	1 689	3.0	1 101	3.8	588	2.2	152	168	59	140	22
Self-inflicted	893	1.6	545	1.9	348	1.3	32	37	38	21	3
Homicide and violence	527	0.9	392	1.3	135	0.5	65	72	21	107	14
War	269	0.5	164	0.6	105	0.4	55	59	0	12	6

^a See list of Member States by WHO Region and mortality stratum (pp.204–205).^b Estimates for specific causes may not sum to broader cause groupings due to omission of residual categories.

Cause ^b	EASTERN MEDITERRANEAN		EUROPE			SOUTH-EAST ASIA		WESTERN PACIFIC	
	Mortality stratum		Mortality stratum			Mortality stratum		Mortality stratum	
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	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)	(000)
Digestive diseases	38	105	186	77	101	102	426	45	483
Peptic ulcer disease	1	10	18	6	13	20	71	5	88
Cirrhosis of the liver	10	42	69	41	51	45	248	15	196
Appendicitis	0	3	1	0	1	1	24	0	7
Diseases of the genitourinary system	41	71	59	36	26	45	191	26	171
Nephritis/nephrosis	36	61	39	30	11	36	167	23	137
Benign prostatic hypertrophy	0	3	2	1	3	1	18	0	8
Skin diseases	1	4	8	1	2	5	4	1	3
Musculoskeletal diseases	1	3	18	2	4	10	5	5	24
Rheumatoid arthritis	0	0	4	0	0	2	4	2	2
Osteoarthritis	0	0	0	0	0	0	0	0	0
Congenital abnormalities	9	97	12	11	15	22	238	4	115
Oral diseases	0	0	0	0	0	0	0	0	0
Dental caries	0	0	0	0	0	0	0	0	0
Periodontal disease	0	0	0	0	0	0	0	0	0
Edentulism	0	0	0	0	0	0	0	0	0
III. Injuries	59	346	201	154	395	281	1 020	76	1 241
Unintentional	51	241	141	102	240	199	794	48	809
Road traffic accidents	30	90	45	39	46	123	231	16	274
Poisoning	7	19	6	11	70	7	32	1	56
Falls	3	24	48	12	16	18	64	8	94
Fires	3	23	3	5	12	7	148	2	18
Drowning	4	28	4	10	25	16	94	6	154
Other unintentional injuries	4	56	34	24	71	29	224	15	213
Intentional	7	105	60	52	155	82	226	28	432
Self-inflicted	5	30	54	21	91	36	135	27	363
Homicide and violence	1	37	5	7	50	11	71	1	66
War	1	38	1	23	15	35	20	0	4