

KUWAIT, Non-Kuwaitis (1994-2012)

	Number of cases							Percentage				Incidence rates per million person-years							MV % 0-19	DCO % 0-19			
	Age group							0-14		0-19		Age-specific					Cumulative						
	0	1-4	5-9	10-14	15-19	0-14	0-19	All	Group	All	Group	0	1-4	5-9	10-14	15-19	0-14	0-19			0-14	0-19	
I LEUKAEMIA	20	85	55	53	63	213	276	37.8	100.0	37.9	100.0	54.6	57.5	33.1	35.7	46.3	43.1	43.8	629	860	93.5	6.5	
a. Lymphoid	16	55	40	43	49	154	203	27.4	72.3	27.9	73.6	43.7	37.2	24.1	28.9	36.0	31.1	32.2	458	637	100.0	0.0	
b. Acute myeloid	3	16	8	5	8	32	40	5.7	15.0	5.5	14.5	8.2	10.8	4.8	3.4	5.9	6.5	6.4	92	122	100.0	0.0	
c. CMD	0	3	2	0	2	5	7	0.9	2.3	1.0	2.5	-	2.0	1.2	-	1.5	1.0	1.1	14	21	100.0	0.0	
d. MDS & other	0	3	1	1	1	5	6	0.9	2.3	0.8	2.2	-	2.0	0.6	0.7	0.7	1.0	1.0	15	18	100.0	0.0	
e. Unspecified	1	8	4	4	3	17	20	3.0	8.0	2.7	7.2	2.7	5.4	2.4	2.7	2.2	3.4	3.2	50	61	10.0	90.0	
II LYMPHOMA & RELATED	15	52	38	29	46	134	180	23.8	100.0	24.7	100.0	40.9	35.2	22.9	19.5	33.8	27.1	28.6	394	562	100.0	0.0	
a. Hodgkin	7	30	23	17	21	77	98	13.7	57.5	13.5	54.4	19.1	20.3	13.9	11.4	15.4	15.6	15.5	227	304	100.0	0.0	
b. Non-Hodgkin except BL	8	18	11	6	20	43	63	7.6	32.1	8.7	35.0	21.8	12.2	6.6	4.0	14.7	8.8	10.1	124	197	100.0	0.0	
c. Burkitt (BL)	0	2	3	6	5	11	16	2.0	8.2	2.2	8.9	-	1.4	1.8	4.0	3.7	2.2	2.5	35	53	100.0	0.0	
d. Lymphoreticular	0	2	0	0	0	2	2	0.4	1.5	0.3	1.1	-	1.4	-	-	-	0.4	0.3	5	5	100.0	0.0	
e. Unspecified	0	0	1	0	0	1	1	0.2	0.7	0.1	0.6	-	-	0.6	-	-	0.2	0.2	3	3	100.0	0.0	
III CNS NEOPLASMS †	2	14	17	13	17	46	63	8.2	100.0	8.7	100.0	5.5	9.5	10.2	8.8	12.5	9.2	9.9	138	201	92.1	1.6	
a. Ependymoma	0	0	3	1	3	4	7	0.7	8.7	1.0	11.1	-	-	1.8	0.7	2.2	0.8	1.1	12	23	100.0	0.0	
b. Astrocytoma	1	5	6	5	7	17	24	3.0	37.0	3.3	38.1	2.7	3.4	3.6	3.4	5.1	3.4	3.8	51	77	100.0	0.0	
c. CNS embryonal	1	6	5	4	3	16	19	2.8	34.8	2.6	30.2	2.7	4.1	3.0	2.7	2.2	3.2	3.0	47	59	89.5	0.0	
d. Other gliomas	0	0	1	0	0	1	1	0.2	2.2	0.1	1.6	-	-	0.6	-	-	0.2	0.2	3	3	0.0	0.0	
e. Other specified	0	3	1	3	3	7	10	1.2	15.2	1.4	15.9	-	2.0	0.6	2.0	2.2	1.4	1.6	21	32	90.0	0.0	
f. Unspecified CNS	0	0	1	0	1	1	2	0.2	2.2	0.3	3.2	-	-	0.6	-	0.7	0.2	0.3	3	7	50.0	50.0	
IV NEUROBLASTOMA	2	11	2	8	10	23	33	4.1	100.0	4.5	100.0	5.5	7.4	1.2	5.4	7.3	4.7	5.3	68	105	81.8	0.0	
a. (Ganglio)neuroblastoma	2	11	2	8	10	23	33	4.1	100.0	4.5	100.0	5.5	7.4	1.2	5.4	7.3	4.7	5.3	68	105	81.8	0.0	
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
V RETINOBLASTOMA	0	2	1	1	0	4	4	0.7	100.0	0.5	100.0	-	1.4	0.6	0.7	-	0.8	0.6	12	12	75.0	0.0	
VI RENAL TUMOURS	4	16	9	10	4	39	43	6.9	100.0	5.9	100.0	10.9	10.8	5.4	6.7	2.9	7.9	6.8	115	130	79.1	7.0	
a. Nephroblastoma	4	11	9	10	4	34	38	6.0	87.2	5.2	88.4	10.9	7.4	5.4	6.7	2.9	6.8	6.0	101	116	86.8	0.0	
b. Renal carcinoma	0	1	0	0	0	1	1	0.2	2.6	0.1	2.3	-	0.7	-	-	-	0.2	0.2	3	3	100.0	0.0	
c. Unspecified	0	4	0	0	0	4	4	0.7	10.3	0.5	9.3	-	2.7	-	-	-	0.8	0.7	11	11	0.0	75.0	
VII HEPATIC TUMOURS	0	2	1	1	5	4	9	0.7	100.0	1.2	100.0	-	1.4	0.6	0.7	3.7	0.8	1.5	12	30	88.9	0.0	
a. Hepatoblastoma	0	1	0	1	5	2	7	0.4	50.0	1.0	77.8	-	0.7	-	0.7	3.7	0.4	1.1	6	24	100.0	0.0	
b. Hepatic carcinoma	0	1	1	0	0	2	2	0.4	50.0	0.3	22.2	-	0.7	0.6	-	-	0.4	0.3	6	6	50.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII BONE TUMOURS	0	4	2	1	0	7	7	1.2	100.0	1.0	100.0	-	2.7	1.2	0.7	-	1.4	1.1	20	20	100.0	0.0	
a. Osteosarcoma	0	2	2	0	0	4	4	0.7	57.1	0.5	57.1	-	1.4	1.2	-	-	0.8	0.6	11	11	100.0	0.0	
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c. Ewing & related	0	2	0	0	0	2	2	0.4	28.6	0.3	28.6	-	1.4	-	-	-	0.4	0.3	5	5	100.0	0.0	
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified	0	0	0	1	0	1	1	0.2	14.3	0.1	14.3	-	-	-	0.7	-	0.2	0.2	3	3	100.0	0.0	
IX SOFT TISSUE SARCOMA	6	14	14	12	8	46	54	8.2	100.0	7.4	100.0	16.4	9.5	8.4	8.1	5.9	9.3	8.5	137	166	100.0	0.0	
a. Rhabdomyosarcoma	2	7	8	3	2	20	22	3.6	43.5	3.0	40.7	5.5	4.7	4.8	2.0	1.5	4.0	3.5	59	66	100.0	0.0	
b. Fibrosarcoma	0	1	0	0	0	1	1	0.2	2.2	0.1	1.9	-	0.7	-	-	-	0.2	0.2	3	3	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	4	6	6	9	6	25	31	4.4	54.3	4.3	57.4	10.9	4.1	3.6	6.1	4.4	5.0	4.9	75	97	100.0	0.0	
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X GERM CELL TUMOURS	1	5	2	7	1	15	16	2.7	100.0	2.2	100.0	2.7	3.4	1.2	4.7	0.7	3.0	2.5	46	50	100.0	0.0	
a. CNS germ cell	1	1	0	1	0	3	3	0.5	20.0	0.4	18.8	2.7	0.7	-	0.7	-	0.6	0.5	9	9	100.0	0.0	
b. Other extragonadal	0	4	1	6	1	11	12	2.0	73.3	1.6	75.0	-	2.7	0.6	4.0	0.7	2.2	1.9	34	38	100.0	0.0	
c. Gonadal germ cell	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified gonadal	0	0	1	0	0	1	1	0.2	6.7	0.1	6.3	-	-	0.6	-	-	0.2	0.2	3	3	100.0	0.0	
XI CARCINOMA & MELANOMA	0	1	6	5	6	12	18	2.1	100.0	2.5	100.0	-	0.7	3.6	3.4	4.4	2.4	2.8	38	60	100.0	0.0	
a. Adrenocortical	0	0	2	0	1	2	3	0.4	16.7	0.4	16.7	-	-	1.2	-	0.7	0.4	0.5	6	10	100.0	0.0	
b. Thyroid	0	1	1	1	2	3	5	0.5	25.0	0.7	27.8	-	0.7	0.6	0.7	1.5	0.6	0.8	9	16	100.0	0.0	
c. Nasopharyngeal	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Melanoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Skin carcinoma	0	0	0	1	0	1	1	0.2	8.3	0.1	5.6	-	-	-	0.7	-	0.2	0.2	3	3	100.0	0.0	
f. Other & unspecified	0	0	3	3	3	6	9	1.1	50.0	1.2	50.0	-	-	1.8	2.0	2.2	1.2	1.4	19	30	100.0	0.0	
XII OTHER & UNSPECIFIED	0	5	10	5	5	20	25	3.6	100.0	3.4	100.0	-	3.4	6.0	3.4	3.7	4.0	3.9	61	79	8.0	84.0	
a. Other specified	0	0	0	0	1	0	1	-	-	0.1	4.0	-	-	-	-	0.7	-	0.2	-	4	4	100.0	0.0
b. Other unspecified	0	5	10	5	4	20	24	3.6	100.0	3.3	96.0	-	3.4	6.0	3.4	2.9	4.0	3.7	61	75	4.2	87.5	
TOTAL	50	211	157	145	165	563	728	100.0	100.0	100.0	100.0	136.4	142.6	94.6	97.6	121.2	113.6	115.3	1668	2274	91.3	5.9	

† includes 14 non-malignant

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	Males										M/F ratio		Females									
			Number of cases in age groups					ASR per million		0-14	0-19			Number of cases in age groups					ASR per million			
	0	1-4	5-9	10-14	15-19	0-14	0-19	0-14	0-19			0	1-4	5-9	10-14	15-19	0-14	0-19	0-14	0-19		
I LEUKAEMIA	9	48	32	28	39	117	156	46.0	47.5	1.2	1.3	11	37	23	25	24	96	120	40.0	39.6		
a. Lymphoid	5	33	21	21	28	80	108	31.4	32.9	1.1	1.1	11	22	19	22	21	74	95	30.8	31.4		
b. Acute myeloid	3	6	7	3	7	19	26	7.5	7.9	1.5	1.9	0	10	1	2	1	13	14	5.5	4.6		
c. CMD	0	1	1	0	2	2	4	0.8	1.2	0.7	1.3	0	2	1	0	0	3	3	1.3	1.0		
d. MDS & other	0	2	0	1	1	3	4	1.2	1.2	1.5	2.0	0	1	1	0	0	2	2	0.8	0.6		
e. Unspecified	1	6	3	3	1	13	14	5.1	4.3	3.3	2.3	0	2	1	1	2	4	6	1.7	2.0		
II LYMPHOMA & RELATED	7	37	27	16	31	87	118	34.2	36.0	1.9	1.9	8	15	11	13	15	47	62	19.6	20.6		
a. Hodgkin	3	23	17	10	12	53	65	20.8	19.8	2.2	2.0	4	7	6	7	9	24	33	10.0	11.0		
b. Non-Hodgkin except BL	4	10	6	4	17	24	41	9.5	12.6	1.3	1.9	4	8	5	2	3	19	22	8.0	7.3		
c. Burkitt (BL)	0	2	3	2	2	7	9	2.7	2.7	1.8	1.3	0	0	0	4	3	4	7	1.6	2.3		
d. Lymphoreticular	0	2	0	0	0	2	2	0.8	0.6	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	0	0	1	0	0	1	1	0.4	0.3	-	-	0	0	0	0	0	0	0	-	-		
III CNS NEOPLASMS †	0	8	7	9	9	24	33	9.3	10.0	1.1	1.1	2	6	10	4	8	22	30	9.1	9.9		
a. Ependymoma	0	0	1	1	2	2	4	0.8	1.2	1.0	1.3	0	0	2	0	1	2	3	0.8	1.0		
b. Astrocytoma	0	4	2	5	4	11	15	4.3	4.5	1.8	1.7	1	1	4	0	3	6	9	2.5	3.0		
c. CNS embryonal	0	4	3	0	0	7	7	2.8	2.1	0.8	0.6	1	2	2	4	3	9	12	3.7	4.0		
d. Other gliomas	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	0.4	0.3		
e. Other specified	0	0	1	3	2	4	6	1.5	1.8	1.3	1.5	0	3	0	0	1	3	4	1.3	1.4		
f. Unspecified CNS	0	0	0	0	1	0	1	-	0.3	0.0	1.0	0	0	1	0	0	1	1	0.4	0.3		
IV NEUROBLASTOMA	0	4	2	4	5	10	15	3.9	4.5	0.8	0.8	2	7	0	4	5	13	18	5.5	6.1		
a. (Ganglio)neuroblastoma	0	4	2	4	5	10	15	3.9	4.5	0.8	0.8	2	7	0	4	5	13	18	5.5	6.1		
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
V RETINOBLASTOMA	0	2	1	1	0	4	4	1.6	1.2	-	-	0	0	0	0	0	0	0	-	-		
VI RENAL TUMOURS	0	10	7	6	3	23	26	9.0	7.9	1.4	1.5	4	6	2	4	1	16	17	6.7	5.6		
a. Nephroblastoma	0	8	7	6	3	21	24	8.2	7.3	1.6	1.7	4	3	2	4	1	13	14	5.4	4.6		
b. Renal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	1	0	0	0	1	1	0.4	0.3		
c. Unspecified	0	2	0	0	0	2	2	0.8	0.6	1.0	1.0	0	2	0	0	0	2	2	0.9	0.7		
VII HEPATIC TUMOURS	0	0	1	0	4	1	5	0.4	1.5	0.3	1.3	0	2	0	1	1	3	4	1.3	1.3		
a. Hepatoblastoma	0	0	0	0	4	0	4	-	1.2	0.0	1.3	0	1	0	1	1	2	3	0.8	1.0		
b. Hepatic carcinoma	0	0	1	0	0	1	1	0.4	0.3	1.0	1.0	0	1	0	0	0	1	1	0.4	0.3		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	2	2	1	0	5	5	2.0	1.5	2.5	2.5	0	2	0	0	0	2	2	0.9	0.7		
a. Osteosarcoma	0	2	2	0	0	4	4	1.6	1.2	-	-	0	0	0	0	0	0	0	-	-		
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
c. Ewing & related	0	0	0	0	0	0	0	-	-	0.0	0.0	0	2	0	0	0	2	2	0.9	0.7		
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	0	0	0	1	0	1	1	0.4	0.3	-	-	0	0	0	0	0	0	0	-	-		
IX SOFT TISSUE SARCOMA	5	5	9	8	3	27	30	10.5	9.1	1.4	1.3	1	9	5	4	5	19	24	7.9	7.9		
a. Rhabdomyosarcoma	2	2	6	3	0	13	13	5.0	3.9	1.9	1.4	0	5	2	0	2	7	9	2.9	3.0		
b. Fibrosarcoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	1	0	0	0	1	1	0.4	0.3		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	3	3	3	5	3	14	17	5.5	5.2	1.3	1.2	1	3	3	4	3	11	14	4.6	4.6		
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
X GERM CELL TUMOURS	1	3	0	4	0	8	8	3.1	2.4	1.1	1.0	0	2	2	3	1	7	8	2.9	2.6		
a. CNS germ cell	1	1	0	1	0	3	3	1.2	0.9	-	-	0	0	0	0	0	0	0	-	-		
b. Other extragonadal	0	2	0	3	0	5	5	1.9	1.5	0.8	0.7	0	2	1	3	1	6	7	2.5	2.3		
c. Gonadal germ cell	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	0.4	0.3		
XI CARCINOMA & MELANOMA	0	1	3	1	1	5	6	1.9	1.8	0.7	0.5	0	0	3	4	5	7	12	2.8	4.0		
a. Adrenocortical	0	0	1	0	0	1	1	0.4	0.3	1.0	0.5	0	0	1	0	1	1	2	0.4	0.7		
b. Thyroid	0	1	0	0	0	1	1	0.4	0.3	0.5	0.3	0	0	1	1	2	2	4	0.8	1.3		
c. Nasopharyngeal	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Melanoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	0	1	1	0.4	0.3		
f. Other & unspecified	0	0	2	1	1	3	4	1.1	1.2	1.0	0.8	0	0	1	2	2	3	5	1.2	1.7		
XII OTHER & UNSPECIFIED	0	2	6	2	4	10	14	3.8	4.2	1.0	1.3	0	3	4	3	1	10	11	4.1	3.5		
a. Other specified	0	0	0	0	1	0	1	-	0.3	-	-	0	0	0	0	0	0	0	-	-		
b. Other unspecified	0	2	6	2	3	10	13	3.8	3.9	1.0	1.2	0	3	4	3	1	10	11	4.1	3.5		
TOTAL	22	122	97	80	99	321	420	125.7	127.7	1.3	1.4	28	89	60	65	66	242	308	100.8	101.8		

† includes 9 non-malignant in males and 5 non-malignant in females

Please consult the quality indicators for this registry

KUWAIT, Non-Kuwaitis (1994-2012)

	Age group	Males	Females
Person-years	0	187 549	178 999
	1-4	756 486	722 693
	5-9	853 651	806 005
	10-14	774 975	710 458
	15-19	735 684	626 066
Total	0-14	2 572 661	2 418 155
	0-19	3 308 345	3 044 221
Average annual population	0-14	135 403	127 271
	0-19	174 123	160 222

Please consult the quality indicators for this registry