

KUWAIT (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	43	213	122	145	157	523	680	38.5	100.0	37.8	100.0	48.4	59.4	30.2	39.8	48.4	43.5	44.6	636	879	93.1	6.6	
a. Lymphoid	36	146	88	110	114	380	494	27.9	72.7	27.5	72.6	40.5	40.7	21.8	30.2	35.1	31.6	32.4	464	639	99.8	0.0	
b. Acute myeloid	5	38	20	19	24	82	106	6.0	15.7	5.9	15.6	5.6	10.6	5.0	5.2	7.4	6.8	7.0	99	136	100.0	0.0	
c. CMD	0	7	2	1	6	10	16	0.7	1.9	0.9	2.4	-	2.0	0.5	0.3	1.8	0.8	1.1	12	21	93.8	0.0	
d. MDS & other	1	5	2	2	1	10	11	0.7	1.9	0.6	1.6	1.1	1.4	0.5	0.5	0.3	0.8	0.7	12	13	100.0	0.0	
e. Unspecified	1	17	10	13	12	41	53	3.0	7.8	2.9	7.8	1.1	4.7	2.5	3.6	3.7	3.4	3.5	50	69	15.1	84.9	
II LYMPHOMA & RELATED	32	117	89	75	111	313	424	23.0	100.0	23.6	100.0	36.0	32.6	22.0	20.6	34.2	26.0	27.8	380	551	99.8	0.0	
a. Hodgkin	16	70	47	36	49	169	218	12.4	54.0	12.1	51.4	18.0	19.5	11.6	9.9	15.1	14.1	14.3	204	279	100.0	0.0	
b. Non-Hodgkin except BL	15	37	31	25	50	108	158	7.9	34.5	8.8	37.3	16.9	10.3	7.7	6.9	15.4	9.0	10.4	131	208	100.0	0.0	
c. Burkitt (BL)	1	7	10	12	10	30	40	2.2	9.6	2.2	9.4	1.1	2.0	2.5	3.3	3.1	2.4	2.6	38	53	100.0	0.0	
d. Lymphoreticular	0	2	0	0	1	2	3	0.1	0.6	0.2	0.7	-	0.6	-	-	0.3	0.2	0.2	2	4	100.0	0.0	
e. Unspecified	0	1	1	2	1	4	5	0.3	1.3	0.3	1.2	-	0.3	0.2	0.5	0.3	0.3	0.3	5	7	80.0	0.0	
III CNS NEOPLASMS †	12	42	39	40	52	133	185	9.8	100.0	10.3	100.0	13.5	11.7	9.7	11.0	16.0	11.0	12.1	164	244	93.0	3.2	
a. Ependymoma	0	2	4	4	7	10	17	0.7	7.5	0.9	9.2	-	0.6	1.0	1.1	2.2	0.8	1.1	13	23	100.0	0.0	
b. Astrocytoma	7	18	13	14	22	52	74	3.8	39.1	4.1	40.0	7.9	5.0	3.2	3.8	6.8	4.3	4.9	63	97	95.9	4.1	
c. CNS embryonal	4	16	15	14	16	49	65	3.6	36.8	3.6	35.1	4.5	4.5	3.7	3.8	4.9	4.0	4.2	60	85	93.8	0.0	
d. Other gliomas	1	0	3	2	1	6	7	0.4	4.5	0.4	3.8	1.1	-	0.7	0.5	0.3	0.5	0.4	8	9	71.4	0.0	
e. Other specified	0	6	2	6	4	14	18	1.0	10.5	1.0	9.7	-	1.7	0.5	1.6	1.2	1.2	1.2	17	24	94.4	0.0	
f. Unspecified CNS	0	0	2	0	2	2	4	0.1	1.5	0.2	2.2	-	-	0.5	-	0.6	0.2	0.3	2	6	25.0	75.0	
IV NEUROBLASTOMA	4	28	11	18	26	61	87	4.5	100.0	4.8	100.0	4.5	7.8	2.7	4.9	8.0	5.1	5.7	74	114	87.4	0.0	
a. (Ganglio)neuroblastoma	4	28	11	18	26	61	87	4.5	100.0	4.8	100.0	4.5	7.8	2.7	4.9	8.0	5.1	5.7	74	114	87.4	0.0	
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
V RETINOBLASTOMA	0	7	2	5	0	14	14	1.0	100.0	0.8	100.0	-	2.0	0.5	1.4	-	1.2	0.9	17	17	78.6	0.0	
VI RENAL TUMOURS	7	36	16	17	13	76	89	5.6	100.0	4.9	100.0	7.9	10.0	4.0	4.7	4.0	6.4	5.8	91	111	80.9	4.5	
a. Nephroblastoma	7	23	15	17	12	62	74	4.6	81.6	4.1	83.1	7.9	6.4	3.7	4.7	3.7	5.2	4.8	75	94	86.5	0.0	
b. Renal carcinoma	0	7	0	0	1	7	8	0.5	9.2	0.4	9.0	-	2.0	-	-	0.3	0.6	0.5	8	9	100.0	0.0	
c. Unspecified	0	6	1	0	0	7	7	0.5	9.2	0.4	7.9	-	1.7	0.2	-	-	0.6	0.5	8	8	0.0	57.1	
VII HEPATIC TUMOURS	1	7	4	4	11	16	27	1.2	100.0	1.5	100.0	1.1	2.0	1.0	1.1	3.4	1.3	1.8	19	36	88.9	0.0	
a. Hepatoblastoma	0	6	3	3	10	12	22	0.9	75.0	1.2	81.5	-	1.7	0.7	0.8	3.1	1.0	1.5	15	30	90.9	0.0	
b. Hepatic carcinoma	1	1	1	1	1	4	5	0.3	25.0	0.3	18.5	1.1	0.3	0.2	0.3	0.3	0.3	0.3	5	6	80.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII BONE TUMOURS	2	4	4	2	4	12	16	0.9	100.0	0.9	100.0	2.3	1.1	1.0	0.5	1.2	1.0	1.1	14	21	87.5	12.5	
a. Osteosarcoma	2	2	2	0	0	6	6	0.4	50.0	0.3	37.5	2.3	0.6	0.5	-	-	0.5	0.4	7	7	100.0	0.0	
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c. Ewing & related	0	2	0	0	2	2	4	0.1	16.7	0.2	25.0	-	0.6	-	-	0.6	0.2	0.3	2	5	100.0	0.0	
d. Other specified	0	0	1	1	1	2	3	0.1	16.7	0.2	18.8	-	-	0.2	0.3	0.3	0.2	0.2	3	4	100.0	0.0	
e. Unspecified	0	0	1	1	1	2	3	0.1	16.7	0.2	18.8	-	-	0.2	0.3	0.3	0.2	0.2	3	4	33.3	66.7	
IX SOFT TISSUE SARCOMA	14	28	28	25	33	95	128	7.0	100.0	7.1	100.0	15.8	7.8	6.9	6.9	10.2	7.9	8.4	116	167	100.0	0.0	
a. Rhabdomyosarcoma	4	12	14	5	11	35	46	2.6	36.8	2.6	35.9	4.5	3.3	3.5	1.4	3.4	2.9	3.0	42	59	100.0	0.0	
b. Fibrosarcoma	0	2	0	1	2	3	5	0.2	3.2	0.3	3.9	-	0.6	-	0.3	0.6	0.3	0.3	4	7	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	8	14	13	19	20	54	74	4.0	56.8	4.1	57.8	9.0	3.9	3.2	5.2	6.2	4.5	4.8	67	98	100.0	0.0	
e. Unspecified	2	0	1	0	0	3	3	0.2	3.2	0.2	2.3	2.3	-	0.2	-	-	0.3	0.2	3	3	100.0	0.0	
X GERM CELL TUMOURS	4	14	6	16	11	40	51	2.9	100.0	2.8	100.0	4.5	3.9	1.5	4.4	3.4	3.3	3.3	50	66	94.1	5.9	
a. CNS germ cell	1	2	0	2	0	5	5	0.4	12.5	0.3	9.8	1.1	0.6	-	0.5	-	0.4	0.3	6	6	100.0	0.0	
b. Other extragonadal	3	10	5	14	5	32	37	2.4	80.0	2.1	72.5	3.4	2.8	1.2	3.8	1.5	2.6	2.4	40	48	100.0	0.0	
c. Gonadal germ cell	0	1	0	0	0	1	1	0.1	2.5	0.1	2.0	-	0.3	-	-	-	0.1	0.1	1	1	100.0	0.0	
d. Gonadal carcinoma	0	0	0	0	3	0	3	-	-	0.2	5.9	-	-	-	-	0.9	-	0.2	-	5	5	100.0	0.0
e. Unspecified gonadal	0	1	1	0	3	2	5	0.1	5.0	0.3	9.8	-	0.3	0.2	-	0.9	0.2	0.3	2	7	40.0	60.0	
XI CARCINOMA & MELANOMA	4	6	16	11	7	37	44	2.7	100.0	2.4	100.0	4.5	1.7	4.0	3.0	2.2	3.0	2.8	46	57	95.5	0.0	
a. Adrenocortical	0	1	4	2	1	7	8	0.5	18.9	0.4	18.2	-	0.3	1.0	0.5	0.3	0.6	0.5	9	10	75.0	0.0	
b. Thyroid	1	3	4	4	3	12	15	0.9	32.4	0.8	34.1	1.1	0.8	1.0	1.1	0.9	1.0	1.0	15	20	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	0.1	2.7	0.1	2.3	-	-	-	0.3	-	0.1	0.1	1	1	100.0	0.0	
f. Other & unspecified	3	2	8	4	3	17	20	1.3	45.9	1.1	45.5	3.4	0.6	2.0	1.1	0.9	1.4	1.3	21	26	100.0	0.0	
XII OTHER & UNSPECIFIED	2	8	15	15	13	40	53	2.9	100.0	2.9	100.0	2.3	2.2	3.7	4.1	4.0	3.3	3.4	50	70	13.2	77.4	
a. Other specified	0	0	0	1	3	1	4	0.1	2.5	0.2	7.5	-	-	-	0.3	0.9	0.1	0.3	1	6	100.0	0.0	
b. Other unspecified	2	8	15	14	10	39	49	2.9	97.5	2.7	92.5	2.3	2.2	3.7	3.8	3.1	3.2	3.2	49	64	6.1	83.7	
TOTAL	125	510	352	373	438	1360	1798	100.0	100.0	100.0	100.0	140.8	142.3	87.1	102.5	135.0	112.8	117.8	1658	2333	91.8	5.6	

† includes 46 non-malignant

Please consult the quality indicators for this registry

KUWAIT (1994-2012)

	Males										M/F ratio		Females											
	Number of cases in age groups										0-14	0-19	Number of cases in age groups										0-14	0-19
	0	1-4	5-9	10-14	15-19	0-14	0-19	ASR per million	0-14	0-19			0	1-4	5-9	10-14	15-19	0-14	0-19	ASR per million	0-14	0-19		
I LEUKAEMIA	21	121	70	84	80	296	376	48.1	47.9	1.3	1.2	22	92	52	61	77	227	304	38.7	41.1				
a. Lymphoid	17	85	46	61	57	209	266	34.0	33.9	1.2	1.2	19	61	42	49	57	171	228	29.1	30.8				
b. Acute myeloid	3	18	16	12	13	49	62	7.9	7.9	1.5	1.4	2	20	4	7	11	33	44	5.7	6.0				
c. CMD	0	2	1	1	3	4	7	0.7	0.9	0.7	0.8	0	5	1	0	3	6	9	1.0	1.2				
d. MDS & other	0	3	0	2	1	5	6	0.8	0.8	1.0	1.2	1	2	2	0	0	5	5	0.9	0.7				
e. Unspecified	1	13	7	8	6	29	35	4.7	4.5	2.4	1.9	0	4	3	5	6	12	18	2.0	2.4				
II LYMPHOMA & RELATED	18	78	56	44	62	196	258	31.9	33.0	1.7	1.6	14	39	33	31	49	117	166	19.9	22.5				
a. Hodgkin	10	50	32	22	22	114	136	18.6	17.3	2.1	1.7	6	20	15	14	27	55	82	9.3	11.1				
b. Non-Hodgkin except BL	8	21	16	14	34	59	93	9.6	12.0	1.2	1.4	7	16	15	11	16	49	65	8.3	8.8				
c. Burkitt (BL)	0	5	7	6	6	18	24	2.9	3.0	1.5	1.5	1	2	3	6	4	12	16	2.0	2.1				
d. Lymphoreticular	0	2	0	0	0	2	2	0.3	0.3	-	2.0	0	0	0	0	1	0	1	-	0.1				
e. Unspecified	0	0	1	2	0	3	3	0.5	0.4	3.0	1.5	0	1	0	0	1	1	2	0.2	0.3				
III CNS NEOPLASMS †	5	22	22	26	23	75	98	12.1	12.4	1.3	1.1	7	20	17	14	29	58	87	9.9	11.8				
a. Ependymoma	0	1	2	3	4	6	10	0.9	1.3	1.5	1.4	0	1	2	1	3	4	7	0.7	1.0				
b. Astrocytoma	3	9	8	10	10	30	40	4.8	5.1	1.4	1.2	4	9	5	4	12	22	34	3.8	4.7				
c. CNS embryonal	1	10	7	7	5	25	30	4.0	3.8	1.0	0.9	3	6	8	7	11	24	35	4.0	4.7				
d. Other gliomas	1	0	2	1	1	4	5	0.6	0.6	2.0	2.5	0	0	1	1	0	2	2	0.3	0.3				
e. Other specified	0	2	2	5	2	9	11	1.4	1.4	1.8	1.6	0	4	0	1	2	5	7	0.9	1.0				
f. Unspecified CNS	0	0	1	0	1	1	2	0.2	0.3	1.0	1.0	0	0	1	0	1	1	2	0.2	0.3				
IV NEUROBLASTOMA	0	15	8	12	10	35	45	5.7	5.7	1.3	1.1	4	13	3	6	16	26	42	4.5	5.8				
a. (Ganglio)neuroblastoma	0	15	8	12	10	35	45	5.7	5.7	1.3	1.1	4	13	3	6	16	26	42	4.5	5.8				
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
V RETINOBLASTOMA	0	4	2	3	0	9	9	1.5	1.1	1.8	1.8	0	3	0	2	0	5	5	0.9	0.7				
VI RENAL TUMOURS	3	25	11	12	6	51	57	8.3	7.3	2.0	1.8	4	11	5	5	7	25	32	4.3	4.3				
a. Nephroblastoma	3	18	10	12	6	43	49	7.0	6.2	2.3	2.0	4	5	5	5	6	19	25	3.2	3.4				
b. Renal carcinoma	0	3	0	0	0	3	3	0.5	0.4	0.8	0.6	0	4	0	0	1	4	5	0.7	0.7				
c. Unspecified	0	4	1	0	0	5	5	0.8	0.6	2.5	2.5	0	2	0	0	0	2	2	0.4	0.3				
VII HEPATIC TUMOURS	1	1	2	1	8	5	13	0.8	1.7	0.5	0.9	0	6	2	3	3	11	14	1.9	1.9				
a. Hepatoblastoma	0	1	1	0	7	2	9	0.3	1.2	0.2	0.7	0	5	2	3	3	10	13	1.7	1.8				
b. Hepatic carcinoma	1	0	1	1	1	3	4	0.5	0.5	3.0	4.0	0	1	0	0	0	1	1	0.2	0.1				
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
VIII BONE TUMOURS	1	2	3	1	3	7	10	1.1	1.3	1.4	1.7	1	2	1	1	1	5	6	0.9	0.8				
a. Osteosarcoma	1	2	2	0	0	5	5	0.8	0.6	5.0	5.0	1	0	0	0	0	1	1	0.2	0.1				
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
c. Ewing & related	0	0	0	0	1	0	1	-	0.1	0.0	0.3	0	2	0	0	1	2	3	0.4	0.4				
d. Other specified	0	0	1	0	1	1	2	0.2	0.3	1.0	2.0	0	0	0	1	0	1	1	0.2	0.1				
e. Unspecified	0	0	0	1	1	1	2	0.2	0.3	1.0	2.0	0	0	1	0	0	1	1	0.2	0.1				
IX SOFT TISSUE SARCOMA	10	14	17	17	19	58	77	9.4	9.8	1.6	1.5	4	14	11	8	14	37	51	6.3	6.9				
a. Rhabdomyosarcoma	4	5	10	4	6	23	29	3.7	3.7	1.9	1.7	0	7	4	1	5	12	17	2.1	2.3				
b. Fibrosarcoma	0	0	0	0	2	0	2	-	0.3	0.0	0.7	0	2	0	1	0	3	3	0.5	0.4				
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
d. Other specified	5	9	7	13	11	34	45	5.5	5.7	1.7	1.6	3	5	6	6	9	20	29	3.4	3.9				
e. Unspecified	1	0	0	0	0	1	1	0.2	0.1	0.5	0.5	1	0	1	0	0	2	2	0.3	0.3				
X GERM CELL TUMOURS	3	6	3	9	7	21	28	3.4	3.6	1.1	1.2	1	8	3	7	4	19	23	3.2	3.1				
a. CNS germ cell	1	1	0	2	0	4	4	0.6	0.5	4.0	4.0	0	1	0	0	0	1	1	0.2	0.1				
b. Other extragonadal	2	3	3	7	4	15	19	2.4	2.4	0.9	1.1	1	7	2	7	1	17	18	2.9	2.4				
c. Gonadal germ cell	0	1	0	0	0	1	1	0.2	0.1	-	-	0	0	0	0	0	0	0	-	-				
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	3	0	3	-	0.4				
e. Unspecified gonadal	0	1	0	0	3	1	4	0.2	0.5	1.0	4.0	0	0	1	0	0	1	1	0.2	0.1				
XI CARCINOMA & MELANOMA	4	3	10	5	1	22	23	3.5	2.9	1.5	1.1	0	3	6	6	6	15	21	2.5	2.8				
a. Adrenocortical	0	0	3	1	0	4	4	0.6	0.5	1.3	1.0	0	1	1	1	1	3	4	0.5	0.5				
b. Thyroid	1	2	2	2	0	7	7	1.1	0.9	1.4	0.9	0	1	2	2	3	5	8	0.8	1.1				
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	0.2	0.1				
f. Other & unspecified	3	1	5	2	1	11	12	1.8	1.5	1.8	1.5	0	1	3	2	2	6	8	1.0	1.1				
XII OTHER & UNSPECIFIED	0	3	8	6	7	17	24	2.7	3.0	0.7	0.8	2	5	7	9	6	23	29	3.9	3.9				
a. Other specified	0	0	0	0	2	0	2	-	0.3	0.0	1.0	0	0	0	1	1	1	2	0.2	0.3				
b. Other unspecified	0	3	8	6	5	17	22	2.7	2.8	0.8	0.8	2	5	7	8	5	22	27	3.7	3.6				
TOTAL	66	294	212	220	226	792	1018	128.3	129.6	1.4	1.3	59	216	140	153	212	568	780	96.6	105.5				

† includes 27 non-malignant in males and 19 non-malignant in females

Please consult the quality indicators for this registry

KUWAIT (1994-2012)

	Age group	Males	Females
Person-years	0	453 310	434 711
	1-4	1 828 455	1 755 108
	5-9	2 066 743	1 973 086
	10-14	1 869 887	1 768 813
	15-19	1 687 498	1 555 897
Total	0-14	6 218 395	5 931 718
	0-19	7 905 893	7 487 615
Average annual population	0-14	327 284	312 196
	0-19	416 100	394 085

Please consult the quality indicators for this registry