

TURKEY, Samsun (2003-2012)

	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	ASR	0-19			0-14	0-19
I LEUKAEMIA	12	72	54	45	33	183	216	39.1	100.0	34.6	100.0	69.1	98.0	52.6	39.8	29.1	64.3	56.4	924	1070	100.0	0.0	
a. Lymphoid	3	59	39	22	20	123	143	26.3	67.2	22.9	66.2	17.3	80.3	38.0	19.5	17.6	44.3	38.3	628	717	100.0	0.0	
b. Acute myeloid	6	10	13	19	7	48	55	10.3	26.2	8.8	25.5	34.5	13.6	12.7	16.8	6.2	15.8	13.6	235	266	100.0	0.0	
c. CMD	0	1	0	1	4	2	6	0.4	1.1	1.0	2.8	-	1.4	-	0.9	3.5	0.7	1.3	10	28	100.0	0.0	
d. MDS & other	2	2	1	2	2	7	9	1.5	3.8	1.4	4.2	11.5	2.7	1.0	1.8	1.8	2.5	2.4	36	45	100.0	0.0	
e. Unspecified	1	0	1	1	0	3	3	0.6	1.6	0.5	1.4	5.8	-	1.0	0.9	-	1.0	0.8	15	15	100.0	0.0	
II LYMPHOMA & RELATED	0	16	17	24	29	57	86	12.2	100.0	13.8	100.0	-	21.8	16.6	21.2	25.5	18.3	19.9	277	405	100.0	0.0	
a. Hodgkin	0	7	4	6	13	17	30	3.6	29.8	4.8	34.9	-	9.5	3.9	5.3	11.5	5.8	7.1	85	142	100.0	0.0	
b. Non-Hodgkin except BL	0	7	5	14	13	26	39	5.6	45.6	6.3	45.3	-	9.5	4.9	12.4	11.5	8.1	8.9	125	182	100.0	0.0	
c. Burkitt (BL)	0	2	6	3	1	11	12	2.4	19.3	1.9	14.0	-	2.7	5.8	2.7	0.9	3.5	2.9	53	58	100.0	0.0	
d. Lymphoreticular	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified	0	0	2	1	2	3	5	0.6	5.3	0.8	5.8	-	-	1.9	0.9	1.8	0.9	1.1	14	23	100.0	0.0	
III CNS NEOPLASMS †	8	21	30	33	35	92	127	19.7	100.0	20.4	100.0	46.1	28.6	29.2	29.2	30.8	30.3	30.4	452	606	81.9	0.0	
a. Ependymoma	4	5	0	1	3	10	13	2.1	10.9	2.1	10.2	23.0	6.8	-	0.9	2.6	4.1	3.8	54	67	100.0	0.0	
b. Astrocytoma	1	3	7	9	14	20	34	4.3	21.7	5.4	26.8	5.8	4.1	6.8	8.0	12.3	6.2	7.6	96	158	100.0	0.0	
c. CNS embryonal	2	6	9	9	3	26	29	5.6	28.3	4.6	22.8	11.5	8.2	8.8	8.0	2.6	8.5	7.2	128	141	100.0	0.0	
d. Other gliomas	1	5	3	3	2	12	14	2.6	13.0	2.2	11.0	5.8	6.8	2.9	2.7	1.8	4.3	3.7	61	70	85.7	0.0	
e. Other specified	0	1	7	8	9	16	25	3.4	17.4	4.0	19.7	-	1.4	6.8	7.1	7.9	4.7	5.4	75	115	64.0	0.0	
f. Unspecified CNS	0	1	4	3	4	8	12	1.7	8.7	1.9	9.4	-	1.4	3.9	2.7	3.5	2.5	2.7	38	56	0.0	0.0	
IV NEUROBLASTOMA	14	10	3	2	1	29	30	6.2	100.0	4.8	100.0	80.6	13.6	2.9	1.8	0.9	11.7	9.3	156	160	100.0	0.0	
a. (Ganglio)neuroblastoma	14	10	3	2	0	29	29	6.2	100.0	4.6	96.7	80.6	13.6	2.9	1.8	-	11.7	9.1	156	156	100.0	0.0	
b. Peripheral nervous	0	0	0	0	1	0	1	-	-	0.2	3.3	-	-	-	0.9	-	0.2	-	4	4	100.0	0.0	
V RETINOBLASTOMA	3	4	0	0	0	7	7	1.5	100.0	1.1	100.0	17.3	5.4	-	-	-	3.0	2.3	39	39	100.0	0.0	
VI RENAL TUMOURS	3	11	6	1	0	21	21	4.5	100.0	3.4	100.0	17.3	15.0	5.8	0.9	-	8.1	6.3	111	111	100.0	0.0	
a. Nephroblastoma	3	10	6	1	0	20	20	4.3	95.2	3.2	95.2	17.3	13.6	5.8	0.9	-	7.7	6.0	105	105	100.0	0.0	
b. Renal carcinoma	0	1	0	0	0	1	1	0.2	4.8	0.2	4.8	-	1.4	-	-	-	0.4	0.3	6	6	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VII HEPATIC TUMOURS	1	3	1	0	1	5	6	1.1	100.0	1.0	100.0	5.8	4.1	1.0	-	0.9	2.0	1.8	27	31	83.3	0.0	
a. Hepatoblastoma	1	3	1	0	0	5	5	1.1	100.0	0.8	83.3	5.8	4.1	1.0	-	-	2.0	1.6	27	27	100.0	0.0	
b. Hepatic carcinoma	0	0	0	0	1	0	1	-	-	0.2	16.7	-	-	-	0.9	-	0.2	-	4	4	0.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII BONE TUMOURS	1	0	6	10	17	17	34	3.6	100.0	5.4	100.0	5.8	-	5.8	8.8	15.0	4.9	7.2	79	154	100.0	0.0	
a. Osteosarcoma	0	0	1	6	8	7	15	1.5	41.2	2.4	44.1	-	-	1.0	5.3	7.0	1.9	3.0	31	67	100.0	0.0	
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c. Ewing & related	1	0	5	4	9	10	19	2.1	58.8	3.0	55.9	5.8	-	4.9	3.5	7.9	3.0	4.1	48	87	100.0	0.0	
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IX SOFT TISSUE SARCOMA	3	7	5	10	6	25	31	5.3	100.0	5.0	100.0	17.3	9.5	4.9	8.8	5.3	8.4	7.7	124	150	100.0	0.0	
a. Rhabdomyosarcoma	3	4	3	6	2	16	18	3.4	64.0	2.9	58.1	17.3	5.4	2.9	5.3	1.8	5.5	4.6	80	88	100.0	0.0	
b. Fibrosarcoma	0	0	1	0	1	1	2	0.2	4.0	0.3	6.5	-	-	1.0	-	0.9	0.3	0.4	5	9	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	0	2	1	3	1	6	7	1.3	24.0	1.1	22.6	-	2.7	1.0	2.7	0.9	1.9	1.7	29	34	100.0	0.0	
e. Unspecified	0	1	0	1	2	2	4	0.4	8.0	0.6	12.9	-	1.4	-	0.9	1.8	0.7	0.9	10	19	100.0	0.0	
X GERM CELL TUMOURS	2	8	2	5	12	17	29	3.6	100.0	4.6	100.0	11.5	10.9	1.9	4.4	10.6	6.2	7.2	87	140	100.0	0.0	
a. CNS germ cell	0	0	0	0	1	0	1	-	-	0.2	3.4	-	-	-	0.9	-	-	0.2	-	4	4	100.0	0.0
b. Other extragonadal	1	1	0	0	0	2	2	0.4	11.8	0.3	6.9	5.8	1.4	-	-	-	0.9	0.7	11	11	100.0	0.0	
c. Gonadal germ cell	1	7	2	5	11	15	26	3.2	88.2	4.2	89.7	5.8	9.5	1.9	4.4	9.7	5.3	6.3	76	124	100.0	0.0	
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XI CARCINOMA & MELANOMA	0	0	2	13	22	15	37	3.2	100.0	5.9	100.0	-	-	1.9	11.5	19.4	4.0	7.4	67	164	100.0	0.0	
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b. Thyroid	0	0	1	2	13	3	16	0.6	20.0	2.6	43.2	-	-	1.0	1.8	11.5	0.8	3.2	14	71	100.0	0.0	
c. Nasopharyngeal	0	0	0	0	2	0	2	-	-	0.3	5.4	-	-	-	1.8	-	0.4	-	9	9	100.0	0.0	
d. Melanoma	0	0	0	3	1	3	4	0.6	20.0	0.6	10.8	-	-	-	2.7	0.9	0.8	0.8	13	18	100.0	0.0	
e. Skin carcinoma	0	0	1	4	4	5	9	1.1	33.3	1.4	24.3	-	-	1.0	3.5	3.5	1.3	1.8	23	40	100.0	0.0	
f. Other & unspecified	0	0	0	4	2	4	6	0.9	26.7	1.0	16.2	-	-	-	3.5	1.8	1.0	1.2	18	26	100.0	0.0	
XII OTHER & UNSPECIFIED	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
a. Other specified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL	47	152	126	143	156	468	624	100.0	100.0	100.0	100.0	270.6	206.9	122.7	126.5	137.4	161.1	155.8	2341	3028	96.2	0.0	

† includes 50 non-malignant

Please consult the quality indicators for this registry

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	Males										M/F ratio		Females									
	Number of cases in age groups										0-14	0-19	Number of cases in age groups									
	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	6	42	26	21	15	95	110	66.6	57.5	1.1	1.0	6	30	28	24	18	88	106	61.9	55.2		
a. Lymphoid	1	35	17	10	8	63	71	45.5	38.4	1.1	1.0	2	24	22	12	12	60	72	43.1	38.2		
b. Acute myeloid	4	5	8	8	3	25	28	16.5	13.9	1.1	1.0	2	5	5	11	4	23	27	15.1	13.3		
c. CMD	0	0	0	0	2	0	2	-	0.8	0.0	0.5	0	1	0	1	2	2	4	1.4	1.9		
d. MDS & other	1	2	1	2	2	6	8	4.1	4.0	6.0	8.0	1	0	0	0	0	1	1	0.9	0.7		
e. Unspecified	0	0	0	1	0	1	1	0.5	0.4	0.5	0.5	1	0	1	0	0	2	2	1.5	1.2		
II LYMPHOMA & RELATED	0	11	13	19	15	43	58	26.8	26.6	3.1	2.1	0	5	4	5	14	14	28	9.5	13.0		
a. Hodgkin	0	6	2	3	6	11	17	7.7	8.4	1.8	1.3	0	1	2	3	7	6	13	3.7	5.7		
b. Non-Hodgkin except BL	0	3	5	12	6	20	26	11.6	11.4	3.3	2.0	0	4	0	2	7	6	13	4.5	6.3		
c. Burkitt (BL)	0	2	5	3	1	10	11	6.3	5.2	10.0	11.0	0	0	1	0	0	1	1	0.6	0.5		
d. Lymphoreticular	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	0	0	1	1	2	2	4	1.1	1.7	2.0	4.0	0	0	1	0	0	1	1	0.6	0.5		
III CNS NEOPLASMS †	6	10	15	16	15	47	62	30.7	29.6	1.0	1.0	2	11	15	17	20	45	65	29.8	31.1		
a. Ependymoma	3	4	0	1	1	8	9	6.3	5.3	4.0	2.3	1	1	0	0	2	2	4	1.7	2.2		
b. Astrocytoma	1	1	4	2	10	8	18	5.1	7.9	0.7	1.1	0	2	3	7	4	12	16	7.3	7.3		
c. CNS embryonal	2	3	4	6	1	15	16	9.7	7.9	1.4	1.2	0	3	5	3	2	11	13	7.4	6.5		
d. Other gliomas	0	2	1	2	0	5	5	3.3	2.6	0.7	0.6	1	3	2	1	2	7	9	5.3	4.9		
e. Other specified	0	0	3	4	2	7	9	3.9	3.8	0.8	0.6	0	1	4	4	7	9	16	5.5	7.1		
f. Unspecified CNS	0	0	3	1	1	4	5	2.4	2.2	1.0	0.7	0	1	1	2	3	4	7	2.6	3.2		
IV NEUROBLASTOMA	9	3	1	2	0	15	15	11.6	9.0	1.1	1.0	5	7	2	0	1	14	15	11.8	9.5		
a. (Ganglio)neuroblastoma	9	3	1	2	0	15	15	11.6	9.0	1.1	1.1	5	7	2	0	0	14	14	11.8	9.1		
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.4		
V RETINOBLASTOMA	1	1	0	0	0	2	2	1.7	1.3	0.4	0.4	2	3	0	0	0	5	5	4.4	3.4		
VI RENAL TUMOURS	2	4	2	0	0	8	8	6.2	4.8	0.6	0.6	1	7	4	1	0	13	13	10.1	7.8		
a. Nephroblastoma	2	3	2	0	0	7	7	5.4	4.2	0.5	0.5	1	7	4	1	0	13	13	10.1	7.8		
b. Renal carcinoma	0	1	0	0	0	1	1	0.8	0.6	-	-	0	0	0	0	0	0	0	-	-		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VII HEPATIC TUMOURS	1	2	0	0	1	3	4	2.5	2.3	1.5	2.0	0	1	1	0	0	2	2	1.5	1.2		
a. Hepatoblastoma	1	2	0	0	0	3	3	2.5	1.9	1.5	1.5	0	1	1	0	0	2	2	1.5	1.2		
b. Hepatic carcinoma	0	0	0	0	1	0	1	-	0.4	-	-	0	0	0	0	0	0	0	-	-		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	0	3	3	11	6	17	3.4	6.9	0.5	1.0	1	0	3	7	6	11	17	6.4	7.4		
a. Osteosarcoma	0	0	0	1	4	1	5	0.5	2.0	0.2	0.5	0	0	1	5	4	6	10	3.2	4.1		
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
c. Ewing & related	0	0	3	2	7	5	12	2.9	5.0	1.0	1.7	1	0	2	2	2	5	7	3.2	3.3		
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
IX SOFT TISSUE SARCOMA	2	5	4	8	2	19	21	12.3	10.3	3.2	2.1	1	2	1	2	4	6	10	4.3	4.9		
a. Rhabdomyosarcoma	2	2	2	5	1	11	12	7.1	5.9	2.2	2.0	1	2	1	1	1	5	6	3.8	3.3		
b. Fibrosarcoma	0	0	1	0	1	1	2	0.6	0.9	-	-	0	0	0	0	0	0	0	-	-		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	0	2	1	3	0	6	6	3.8	2.9	-	6.0	0	0	0	0	1	0	1	-	0.4		
e. Unspecified	0	1	0	0	0	1	1	0.8	0.6	1.0	0.3	0	0	0	1	2	1	3	0.5	1.2		
X GERM CELL TUMOURS	1	5	0	1	11	7	18	5.5	8.6	0.7	1.6	1	3	2	4	1	10	11	6.9	5.7		
a. CNS germ cell	0	0	0	0	1	0	1	-	0.4	-	-	0	0	0	0	0	0	0	-	-		
b. Other extragonadal	0	0	0	0	0	0	0	-	-	0.0	0.0	1	1	0	0	0	2	2	1.7	1.4		
c. Gonadal germ cell	1	5	0	1	10	7	17	5.5	8.2	0.9	1.9	0	2	2	4	1	8	9	5.1	4.4		
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	0	-	-		
XI CARCINOMA & MELANOMA	0	0	2	4	7	6	13	3.3	5.3	0.7	0.5	0	0	0	9	15	9	24	4.7	9.6		
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
b. Thyroid	0	0	1	1	0	2	2	1.1	0.9	2.0	0.1	0	0	0	1	13	1	14	0.5	5.6		
c. Nasopharyngeal	0	0	0	0	1	0	1	-	0.4	-	1.0	0	0	0	0	1	0	1	-	0.4		
d. Melanoma	0	0	0	0	1	0	1	-	0.4	0.0	0.3	0	0	0	3	0	3	3	1.6	1.2		
e. Skin carcinoma	0	0	1	1	3	2	5	1.1	2.0	0.7	1.3	0	0	0	3	1	3	4	1.6	1.6		
f. Other & unspecified	0	0	0	2	2	2	4	1.0	1.6	1.0	2.0	0	0	0	2	0	2	2	1.0	0.8		
XII OTHER & UNSPECIFIED	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
a. Other specified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
TOTAL	28	83	66	74	77	251	328	170.5	162.4	1.2	1.1	19	69	60	69	79	217	296	151.3	148.9		

† includes 20 non-malignant in males and 30 non-malignant in females

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	Age group	Males	Females
Person-years	0	89 217	84 489
	1-4	375 581	358 972
	5-9	523 610	503 376
	10-14	573 845	556 642
	15-19	573 791	561 539
Total	0-14	1 562 253	1 503 479
	0-19	2 136 044	2 065 018
Average annual population	0-14	156 225	150 348
	0-19	213 604	206 502

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