

PAKISTAN, Karachi (1995-2002)

	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	1	54	55	42	50	152	202	27.9	100.0	24.0	100.0	2.5	33.6	27.9	24.4	34.7	26.7	28.5	399	572	99.5	0.5
a. Lymphoid	1	42	43	24	16	110	126	20.2	72.4	15.0	62.4	2.5	26.1	21.8	14.0	11.1	19.4	17.5	286	341	99.2	0.8
b. Acute myeloid	0	10	6	12	20	28	48	5.1	18.4	5.7	23.8	-	6.2	3.0	7.0	13.9	4.9	6.9	75	144	100.0	0.0
c. CMD	0	0	1	2	3	3	6	0.6	2.0	0.7	3.0	-	-	0.5	1.2	2.1	0.5	0.9	8	19	100.0	0.0
d. MDS & other	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e. Unspecified	0	2	5	4	11	11	22	2.0	7.2	2.6	10.9	-	1.2	2.5	2.3	7.6	1.9	3.2	29	67	100.0	0.0
II LYMPHOMA & RELATED	0	18	53	48	51	119	170	21.8	100.0	20.2	100.0	-	11.2	26.9	27.9	35.4	20.2	23.7	319	496	98.2	0.0
a. Hodgkin	0	5	34	29	11	68	79	12.5	57.1	9.4	46.5	-	3.1	17.2	16.9	7.6	11.4	10.6	183	221	98.7	0.0
b. Non-Hodgkin except BL	0	6	14	14	34	34	68	6.2	28.6	8.1	40.0	-	3.7	7.1	8.1	23.6	5.8	9.8	91	209	100.0	0.0
c. Burkitt (BL)	0	6	2	2	0	10	10	1.8	8.4	1.2	5.9	-	3.7	1.0	1.2	-	1.8	1.4	26	26	100.0	0.0
d. Lymphoreticular	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e. Unspecified	0	1	3	3	6	7	13	1.3	5.9	1.5	7.6	-	0.6	1.5	1.7	4.2	1.2	1.9	19	40	84.6	0.0
III CNS NEOPLASMS	0	9	35	33	31	77	108	14.1	100.0	12.9	100.0	-	5.6	17.8	19.2	21.5	13.0	14.9	207	315	96.3	0.0
a. Ependymoma	0	2	2	3	2	7	9	1.3	9.1	1.1	8.3	-	1.2	1.0	1.7	1.4	1.2	1.3	19	26	100.0	0.0
b. Astrocytoma	0	1	17	21	17	39	56	7.2	50.6	6.7	51.9	-	0.6	8.6	12.2	11.8	6.5	7.7	107	166	96.4	0.0
c. CNS embryonal	0	2	9	3	3	14	17	2.6	18.2	2.0	15.7	-	1.2	4.6	1.7	2.1	2.4	2.3	37	47	100.0	0.0
d. Other gliomas	0	2	4	4	5	10	15	1.8	13.0	1.8	13.9	-	1.2	2.0	2.3	3.5	1.7	2.1	27	44	93.3	0.0
e. Other specified	0	0	1	1	3	2	5	0.4	2.6	0.6	4.6	-	-	0.5	0.6	2.1	0.3	0.7	5	16	100.0	0.0
f. Unspecified CNS	0	2	2	1	1	5	6	0.9	6.5	0.7	5.6	-	1.2	1.0	0.6	0.7	0.9	0.8	13	16	83.3	0.0
IV NEUROBLASTOMA	1	5	3	1	0	10	10	1.8	100.0	1.2	100.0	2.5	3.1	1.5	0.6	-	1.8	1.4	25	25	100.0	0.0
a. (Ganglio)neuroblastoma	1	5	3	1	0	10	10	1.8	100.0	1.2	100.0	2.5	3.1	1.5	0.6	-	1.8	1.4	25	25	100.0	0.0
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V RETINOBLASTOMA	0	10	5	0	0	15	15	2.8	100.0	1.8	100.0	-	6.2	2.5	-	-	2.7	2.1	38	38	100.0	0.0
VI RENAL TUMOURS	2	8	7	1	1	18	19	3.3	100.0	2.3	100.0	5.0	5.0	3.6	0.6	0.7	3.2	2.7	46	49	100.0	0.0
a. Nephroblastoma	2	8	7	0	0	17	17	3.1	94.4	2.0	89.5	5.0	5.0	3.6	-	-	3.1	2.4	43	43	100.0	0.0
b. Renal carcinoma	0	0	0	1	1	1	2	0.2	5.6	0.2	10.5	-	-	-	0.6	0.7	0.2	0.3	3	6	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VII HEPATIC TUMOURS	1	2	2	0	1	5	6	0.9	100.0	0.7	100.0	2.5	1.2	1.0	-	0.7	0.9	0.9	13	16	83.3	0.0
a. Hepatoblastoma	0	1	0	0	0	1	1	0.2	20.0	0.1	16.7	-	0.6	-	-	-	0.2	0.1	2	2	0.0	0.0
b. Hepatic carcinoma	0	1	2	0	0	3	3	0.6	60.0	0.4	50.0	-	0.6	1.0	-	-	0.5	0.4	8	8	100.0	0.0
c. Unspecified	1	0	0	0	1	1	2	0.2	20.0	0.2	33.3	2.5	-	-	-	0.7	0.2	0.3	2	6	100.0	0.0
VIII BONE TUMOURS	0	2	6	35	36	43	79	7.9	100.0	9.4	100.0	-	1.2	3.0	20.4	25.0	7.3	11.3	122	247	98.7	0.0
a. Osteosarcoma	0	0	0	16	17	16	33	2.9	37.2	3.9	41.8	-	-	-	9.3	11.8	2.7	4.7	47	105	97.0	0.0
b. Chondrosarcoma	0	0	0	3	3	3	6	0.6	7.0	0.7	7.6	-	-	-	1.7	2.1	0.5	0.9	9	19	100.0	0.0
c. Ewing & related	0	1	5	13	10	19	29	3.5	44.2	3.5	36.7	-	0.6	2.5	7.6	6.9	3.2	4.0	53	88	100.0	0.0
d. Other specified	0	1	0	3	4	4	8	0.7	9.3	1.0	10.1	-	0.6	-	1.7	2.8	0.7	1.2	11	25	100.0	0.0
e. Unspecified	0	0	1	0	2	1	3	0.2	2.3	0.4	3.8	-	-	0.5	-	1.4	0.2	0.4	3	9	100.0	0.0
IX SOFT TISSUE SARCOMA	1	6	11	15	29	33	62	6.1	100.0	7.4	100.0	2.5	3.7	5.6	8.7	20.1	5.7	8.9	89	190	100.0	0.0
a. Rhabdomyosarcoma	0	5	6	6	12	17	29	3.1	51.5	3.5	46.8	-	3.1	3.0	3.5	8.3	3.0	4.2	45	87	100.0	0.0
b. Fibrosarcoma	0	0	0	3	2	3	5	0.6	9.1	0.6	8.1	-	-	-	1.7	1.4	0.5	0.7	9	16	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	1	0	1	-	-	0.1	1.6	-	-	-	-	0.7	-	0.2	-	3	100.0	0.0
d. Other specified	0	0	3	5	9	8	17	1.5	24.2	2.0	27.4	-	-	1.5	2.9	6.2	1.3	2.4	22	53	100.0	0.0
e. Unspecified	1	1	2	1	5	5	10	0.9	15.2	1.2	16.1	2.5	0.6	1.0	0.6	3.5	0.9	1.5	13	30	100.0	0.0
X GERM CELL TUMOURS	0	7	2	10	19	19	38	3.5	100.0	4.5	100.0	-	4.4	1.0	5.8	13.2	3.4	5.6	52	117	100.0	0.0
a. CNS germ cell	0	0	1	1	0	2	2	0.4	10.5	0.2	5.3	-	-	0.5	0.6	-	0.3	0.3	5	5	100.0	0.0
b. Other extragonadal	0	2	0	0	2	2	4	0.4	10.5	0.5	10.5	-	1.2	-	-	1.4	0.4	0.6	5	12	100.0	0.0
c. Gonadal germ cell	0	5	1	8	13	14	27	2.6	73.7	3.2	71.1	-	3.1	0.5	4.7	9.0	2.5	3.9	38	83	100.0	0.0
d. Gonadal carcinoma	0	0	0	0	4	0	4	-	-	0.5	10.5	-	-	-	-	2.8	-	0.6	-	14	100.0	0.0
e. Unspecified gonadal	0	0	0	1	0	1	1	0.2	5.3	0.1	2.6	-	-	-	0.6	-	0.2	0.1	3	3	100.0	0.0
XI CARCINOMA & MELANOMA	0	5	4	22	67	31	98	5.7	100.0	11.7	100.0	-	3.1	2.0	12.8	46.5	5.3	14.6	87	319	96.9	2.0
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
b. Thyroid	0	0	0	3	15	3	18	0.6	9.7	2.1	18.4	-	-	-	1.7	10.4	0.5	2.7	9	61	100.0	0.0
c. Nasopharyngeal	0	2	0	4	7	6	13	1.1	19.4	1.5	13.3	-	1.2	-	2.3	4.9	1.1	1.9	17	41	100.0	0.0
d. Melanoma	0	0	0	2	0	2	2	0.4	6.5	0.2	2.0	-	-	-	1.2	-	0.3	0.3	6	6	100.0	0.0
e. Skin carcinoma	0	0	0	0	2	0	2	-	-	0.2	2.0	-	-	-	-	1.4	-	0.3	-	7	100.0	0.0
f. Other & unspecified	0	3	4	13	43	20	63	3.7	64.5	7.5	64.3	-	1.9	2.0	7.6	29.8	3.4	9.4	55	205	95.2	3.2
XII OTHER & UNSPECIFIED	2	4	10	7	10	23	33	4.2	100.0	3.9	100.0	5.0	2.5	5.1	4.1	6.9	4.0	4.6	61	95	42.4	9.1
a. Other specified	0	0	1	0	0	1	1	0.2	4.3	0.1	3.0	-	-	0.5	-	-	0.2	0.1	3	3	100.0	0.0
b. Other unspecified	2	4	9	7	10	22	32	4.0	95.7	3.8	97.0	5.0	2.5	4.6	4.1	6.9	3.8	4.5	58	93	40.6	9.4
TOTAL	8	130	193	214	295	545	840	100.0	100.0	100.0	100.0	19.9	80.9	97.9	124.5	204.6	94.3	119.1	1456	2478	96.2	0.7

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										0-14	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	0	34	36	29	28	99	127	33.7	34.2	1.9	1.7	1	20	19	13	22	53	75	19.2	22.3				
a. Lymphoid	0	26	30	17	12	73	85	24.9	22.8	2.0	2.1	1	16	13	7	4	37	41	13.5	11.8				
b. Acute myeloid	0	6	3	10	7	19	26	6.4	7.0	2.1	1.2	0	4	3	2	13	9	22	3.3	6.9				
c. CMD	0	0	1	1	3	2	5	0.6	1.4	2.0	5.0	0	0	0	1	0	1	1	0.4	0.3				
d. MDS & other	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
e. Unspecified	0	2	2	1	6	5	11	1.7	3.1	0.8	1.0	0	0	3	3	5	6	11	2.1	3.3				
II LYMPHOMA & RELATED	0	13	46	31	36	90	126	29.5	33.3	3.1	2.9	0	5	7	17	15	29	44	10.4	13.1				
a. Hodgkin	0	3	31	20	9	54	63	17.4	16.1	3.9	3.9	0	2	3	9	2	14	16	5.0	4.6				
b. Non-Hodgkin except BL	0	4	10	9	24	23	47	7.6	12.8	2.1	2.2	0	2	4	5	10	11	21	3.9	6.4				
c. Burkitt (BL)	0	5	2	1	0	8	8	2.9	2.2	4.0	4.0	0	1	0	1	0	2	2	0.7	0.6				
d. Lymphoreticular	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
e. Unspecified	0	1	3	1	3	5	8	1.7	2.2	2.5	1.6	0	0	0	2	3	2	5	0.7	1.6				
III CNS NEOPLASMS	0	6	17	20	21	43	64	14.1	17.0	1.3	1.5	0	3	18	13	10	34	44	11.9	12.6				
a. Ependymoma	0	2	0	2	2	4	6	1.4	1.7	1.3	2.0	0	0	2	1	0	3	3	1.0	0.8				
b. Astrocytoma	0	1	8	11	11	20	31	6.4	8.2	1.1	1.2	0	0	9	10	6	19	25	6.6	7.2				
c. CNS embryonal	0	1	6	3	2	10	12	3.3	3.1	2.5	2.4	0	1	3	0	1	4	5	1.4	1.4				
d. Other gliomas	0	1	2	3	4	6	10	2.0	2.7	1.5	2.0	0	1	2	1	1	4	5	1.4	1.4				
e. Other specified	0	0	0	0	2	0	2	-	0.6	0.0	0.7	0	0	1	1	1	2	3	0.7	0.9				
f. Unspecified CNS	0	1	1	1	0	3	3	1.0	0.8	1.5	1.0	0	1	1	0	1	2	3	0.7	0.9				
IV NEUROBLASTOMA	0	2	2	1	0	5	5	1.7	1.3	1.0	1.0	1	3	1	0	0	5	5	1.9	1.5				
a. (Ganglio)neuroblastoma	0	2	2	1	0	5	5	1.7	1.3	1.0	1.0	1	3	1	0	0	5	5	1.9	1.5				
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
V RETINOBLASTOMA	0	5	2	0	0	7	7	2.5	2.0	0.9	0.9	0	5	3	0	0	8	8	3.0	2.3				
VI RENAL TUMOURS	1	6	5	1	1	13	14	4.6	3.8	2.6	2.8	1	2	2	0	0	5	5	1.8	1.4				
a. Nephroblastoma	1	6	5	0	0	12	12	4.3	3.3	2.4	2.4	1	2	2	0	0	5	5	1.8	1.4				
b. Renal carcinoma	0	0	0	1	1	1	2	0.3	0.5	-	-	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	1	2	0	1	4	5	1.4	1.4	4.0	5.0	0	1	0	0	0	1	1	0.4	0.3				
a. Hepatoblastoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	1	0	0	0	1	1	0.4	0.3				
b. Hepatic carcinoma	0	1	2	0	0	3	3	1.0	0.8	-	-	0	0	0	0	0	0	0	-	-				
c. Unspecified	1	0	0	0	1	1	2	0.4	0.6	-	-	0	0	0	0	0	0	0	-	-				
VIII BONE TUMOURS	0	2	3	19	19	24	43	7.8	11.5	1.3	1.2	0	0	3	16	17	19	36	6.7	11.0				
a. Osteosarcoma	0	0	0	7	10	7	17	2.2	4.6	0.8	1.1	0	0	0	9	7	9	16	3.2	4.9				
b. Chondrosarcoma	0	0	0	1	2	1	3	0.3	0.8	0.5	1.0	0	0	0	2	1	2	3	0.7	0.9				
c. Ewing & related	0	1	3	9	5	13	18	4.2	4.7	2.2	1.6	0	0	2	4	5	6	11	2.1	3.3				
d. Other specified	0	1	0	2	2	3	5	1.0	1.4	3.0	1.7	0	0	0	1	2	1	3	0.4	1.0				
e. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	2	1	3	0.3	0.9				
IX SOFT TISSUE SARCOMA	0	4	6	7	21	17	38	5.7	10.5	1.1	1.6	1	2	5	8	8	16	24	5.7	7.1				
a. Rhabdomyosarcoma	0	3	4	4	10	11	21	3.7	5.8	1.8	2.6	0	2	2	2	2	6	8	2.2	2.4				
b. Fibrosarcoma	0	0	0	2	1	2	3	0.6	0.8	2.0	1.5	0	0	0	1	1	1	2	0.4	0.6				
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.3				
d. Other specified	0	0	1	1	6	2	8	0.6	2.2	0.3	0.9	0	0	2	4	3	6	9	2.1	2.6				
e. Unspecified	0	1	1	0	4	2	6	0.7	1.7	0.7	1.5	1	0	1	1	1	3	4	1.1	1.2				
X GERM CELL TUMOURS	0	3	1	1	4	5	9	1.8	2.5	0.4	0.3	0	4	1	9	15	14	29	5.1	9.0				
a. CNS germ cell	0	0	1	0	0	1	1	0.3	0.2	1.0	1.0	0	0	0	1	0	1	1	0.4	0.3				
b. Other extragonadal	0	0	0	0	0	0	0	-	-	0.0	0.0	0	2	0	0	2	2	4	0.8	1.3				
c. Gonadal germ cell	0	3	0	1	4	4	8	1.5	2.3	0.4	0.4	0	2	1	7	9	10	19	3.6	5.8				
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	4	0	4	-	1.4				
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	0	1	1	0.4	0.3				
XI CARCINOMA & MELANOMA	0	5	4	15	31	24	55	8.0	15.2	3.4	1.3	0	0	0	7	36	7	43	2.5	14.1				
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
b. Thyroid	0	0	0	2	4	2	6	0.6	1.7	2.0	0.5	0	0	0	1	11	1	12	0.4	4.0				
c. Nasopharyngeal	0	2	0	4	4	6	10	2.0	2.7	-	3.3	0	0	0	0	3	0	3	-	1.0				
d. Melanoma	0	0	0	1	0	1	1	0.3	0.2	1.0	1.0	0	0	0	1	0	1	1	0.4	0.3				
e. Skin carcinoma	0	0	0	0	2	0	2	-	0.6	-	-	0	0	0	0	0	0	0	-	-				
f. Other & unspecified	0	3	4	8	21	15	36	5.0	9.9	3.0	1.3	0	0	0	5	22	5	27	1.8	8.8				
XII OTHER & UNSPECIFIED	1	2	6	4	8	13	21	4.3	5.7	1.3	1.8	1	2	4	3	2	10	12	3.6	3.5				
a. Other specified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	0.3	0.3				
b. Other unspecified	1	2	6	4	8	13	21	4.3	5.7	1.4	1.9	1	2	3	3	2	9	11	3.3	3.2				
TOTAL	3	83	130	128	170	344	514	115.1	138.5	1.7	1.6	5	47	63	86	125	201	326	72.3	98.2				

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	Age group	Males	Females
Person-years	0	202 888	198 847
	1-4	811 552	795 388
	5-9	1 012 985	958 240
	10-14	909 035	809 935
	15-19	775 470	666 570
Total	0-14	2 936 460	2 762 410
	0-19	3 711 930	3 428 980
Average annual population	0-14	367 058	345 301
	0-19	463 991	428 623

Please consult the quality indicators for this registry