

REPUBLIC-OF-KOREA, Ulsan (2001-2012)

	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	7	43	31	37	25	118	143	34.7	100.0	29.1	100.0	51.9	70.4	33.6	35.5	24.9	47.1	42.1	681	806	100.0	0.0
a. Lymphoid	4	32	16	20	5	72	77	21.2	61.0	15.7	53.8	29.7	52.4	17.4	19.2	5.0	29.9	24.3	424	449	100.0	0.0
b. Acute myeloid	3	6	9	8	13	26	39	7.6	22.0	7.9	27.3	22.3	9.8	9.8	7.7	13.0	10.1	10.7	148	212	100.0	0.0
c. CMD	0	0	1	3	5	4	9	1.2	3.4	1.8	6.3	-	-	1.1	2.9	5.0	1.2	2.0	20	45	100.0	0.0
d. MDS & other	0	4	4	5	1	13	14	3.8	11.0	2.9	9.8	-	6.5	4.3	4.8	1.0	4.9	4.0	73	78	100.0	0.0
e. Unspecified	0	1	1	1	1	3	4	0.9	2.5	0.8	2.8	-	1.6	1.1	1.0	1.0	1.1	1.1	17	22	100.0	0.0
II LYMPHOMA & RELATED	2	8	14	12	11	36	47	10.6	100.0	9.6	100.0	14.8	13.1	15.2	11.5	11.0	13.4	12.9	201	255	97.9	0.0
a. Hodgkin	0	0	2	2	1	4	5	1.2	11.1	1.0	10.6	-	-	2.2	1.9	1.0	1.3	1.2	20	25	100.0	0.0
b. Non-Hodgkin except BL	1	0	6	2	6	9	15	2.6	25.0	3.1	31.9	7.4	-	6.5	1.9	6.0	3.2	3.8	49	79	100.0	0.0
c. Burkitt (BL)	0	3	2	4	2	9	11	2.6	25.0	2.2	23.4	-	4.9	2.2	3.8	2.0	3.4	3.1	50	60	100.0	0.0
d. Lymphoreticular	1	5	1	2	1	9	10	2.6	25.0	2.0	21.3	7.4	8.2	1.1	1.9	1.0	4.0	3.3	55	60	100.0	0.0
e. Unspecified	0	0	3	2	1	5	6	1.5	13.9	1.2	12.8	-	-	3.3	1.9	1.0	1.6	1.5	26	31	83.3	0.0
III CNS NEOPLASMS	5	15	18	18	11	56	67	16.5	100.0	13.6	100.0	37.1	24.6	19.5	17.3	11.0	21.7	19.3	318	373	77.6	4.5
a. Ependymoma	1	3	4	0	1	8	9	2.4	14.3	1.8	13.4	7.4	4.9	4.3	-	1.0	3.5	2.9	49	54	100.0	0.0
b. Astrocytoma	1	1	0	4	5	6	11	1.8	10.7	2.2	16.4	7.4	1.6	-	3.8	5.0	2.2	2.8	33	58	100.0	0.0
c. CNS embryonal	1	6	6	9	2	22	24	6.5	39.3	4.9	35.8	7.4	9.8	6.5	8.6	2.0	8.2	6.8	123	133	100.0	0.0
d. Other gliomas	1	4	5	2	2	12	14	3.5	21.4	2.9	20.9	7.4	6.5	5.4	1.9	2.0	4.9	4.2	70	80	57.1	0.0
e. Other specified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f. Unspecified CNS	1	1	3	3	1	8	9	2.4	14.3	1.8	13.4	7.4	1.6	3.3	2.9	1.0	2.9	2.5	44	49	0.0	33.3
IV NEUROBLASTOMA	6	9	0	1	1	16	17	4.7	100.0	3.5	100.0	44.5	14.7	-	1.0	1.0	8.1	6.5	105	110	76.5	0.0
a. (Ganglio)neuroblastoma	6	9	0	0	0	15	15	4.4	93.8	3.1	88.2	44.5	14.7	-	-	-	7.8	6.0	101	101	73.3	0.0
b. Peripheral nervous	0	0	0	1	1	1	2	0.3	6.3	0.4	11.8	-	-	-	1.0	1.0	0.3	0.4	5	10	100.0	0.0
V RETINOBLASTOMA	3	8	0	0	0	11	11	3.2	100.0	2.2	100.0	22.3	13.1	-	-	-	5.7	4.4	74	74	72.7	0.0
VI RENAL TUMOURS	3	7	1	0	1	11	12	3.2	100.0	2.4	100.0	22.3	11.5	1.1	-	1.0	5.5	4.5	72	77	100.0	0.0
a. Nephroblastoma	3	7	1	0	0	11	11	3.2	100.0	2.2	91.7	22.3	11.5	1.1	-	-	5.5	4.3	72	72	100.0	0.0
b. Renal carcinoma	0	0	0	0	1	0	1	-	-	0.2	8.3	-	-	-	-	1.0	-	0.2	-	5	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VII HEPATIC TUMOURS	2	3	1	0	1	6	7	1.8	100.0	1.4	100.0	14.8	4.9	1.1	-	1.0	2.9	2.5	39	44	100.0	0.0
a. Hepatoblastoma	2	3	0	0	0	5	5	1.5	83.3	1.0	71.4	14.8	4.9	-	-	-	2.6	2.0	34	34	100.0	0.0
b. Hepatic carcinoma	0	0	1	0	1	1	2	0.3	16.7	0.4	28.6	-	-	1.1	-	1.0	0.4	0.5	5	10	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII BONE TUMOURS	1	2	4	16	21	23	44	6.8	100.0	9.0	100.0	7.4	3.3	4.3	15.4	20.9	7.4	10.5	119	223	97.7	2.3
a. Osteosarcoma	0	1	3	9	11	13	24	3.8	56.5	4.9	54.5	-	1.6	3.3	8.6	11.0	4.1	5.6	66	121	100.0	0.0
b. Chondrosarcoma	0	0	0	1	5	1	6	0.3	4.3	1.2	13.6	-	-	-	1.0	5.0	0.3	1.3	5	30	100.0	0.0
c. Ewing & related	1	1	1	4	4	7	11	2.1	30.4	2.2	25.0	7.4	1.6	1.1	3.8	4.0	2.5	2.8	38	58	100.0	0.0
d. Other specified	0	0	0	2	0	2	2	0.6	8.7	0.4	4.5	-	-	-	1.9	-	0.6	0.4	10	10	100.0	0.0
e. Unspecified	0	0	0	0	1	0	1	-	-	0.2	2.3	-	-	-	-	1.0	-	0.2	-	5	0.0	100.0
IX SOFT TISSUE SARCOMA	1	3	3	3	12	10	22	2.9	100.0	4.5	100.0	7.4	4.9	3.3	2.9	12.0	4.0	5.8	58	117	100.0	0.0
a. Rhabdomyosarcoma	0	3	2	3	1	8	9	2.4	80.0	1.8	40.9	-	4.9	2.2	2.9	1.0	3.1	2.6	45	50	100.0	0.0
b. Fibrosarcoma	0	0	0	0	1	0	1	-	-	0.2	4.5	-	-	-	-	1.0	-	0.2	-	5	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Other specified	1	0	0	0	5	1	6	0.3	10.0	1.2	27.3	7.4	-	-	-	5.0	0.5	1.5	7	32	100.0	0.0
e. Unspecified	0	0	1	0	5	1	6	0.3	10.0	1.2	27.3	-	-	1.1	-	5.0	0.4	1.4	5	30	100.0	0.0
X GERM CELL TUMOURS	4	2	6	14	19	26	45	7.6	100.0	9.2	100.0	29.7	3.3	6.5	13.4	18.9	9.1	11.3	140	235	97.8	0.0
a. CNS germ cell	1	1	3	7	2	12	14	3.5	46.2	2.9	31.1	7.4	1.6	3.3	6.7	2.0	4.0	3.6	63	73	92.9	0.0
b. Other extragonadal	1	0	0	0	2	1	3	0.3	3.8	0.6	6.7	7.4	-	-	-	2.0	0.5	0.9	7	17	100.0	0.0
c. Gonadal germ cell	2	1	3	6	10	12	22	3.5	46.2	4.5	48.9	14.8	1.6	3.3	5.8	10.0	4.3	5.6	65	115	100.0	0.0
d. Gonadal carcinoma	0	0	0	1	5	1	6	0.3	3.8	1.2	13.3	-	-	-	1.0	5.0	0.3	1.3	5	30	100.0	0.0
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XI CARCINOMA & MELANOMA	0	1	3	18	45	22	67	6.5	100.0	13.6	100.0	-	1.6	3.3	17.3	44.9	6.6	15.2	109	334	100.0	0.0
a. Adrenocortical	0	1	0	0	0	1	1	0.3	4.5	0.2	1.5	-	1.6	-	-	-	0.5	0.4	7	7	100.0	0.0
b. Thyroid	0	0	1	8	33	9	42	2.6	40.9	8.6	62.7	-	-	1.1	7.7	32.9	2.6	9.4	44	208	100.0	0.0
c. Nasopharyngeal	0	0	0	0	1	0	1	-	-	0.2	1.5	-	-	-	-	1.0	-	0.2	-	5	100.0	0.0
d. Melanoma	0	0	1	2	0	3	3	0.9	13.6	0.6	4.5	-	-	1.1	1.9	-	0.9	0.7	15	15	100.0	0.0
e. Skin carcinoma	0	0	0	0	1	0	1	-	-	0.2	1.5	-	-	-	-	1.0	-	0.2	-	5	100.0	0.0
f. Other & unspecified	0	0	1	8	10	9	19	2.6	40.9	3.9	28.4	-	-	1.1	7.7	10.0	2.6	4.2	44	94	100.0	0.0
XII OTHER & UNSPECIFIED	2	2	1	0	4	5	9	1.5	100.0	1.8	100.0	14.8	3.3	1.1	-	4.0	2.4	2.8	32	52	55.6	0.0
a. Other specified	1	1	0	0	3	2	5	0.6	40.0	1.0	55.6	7.4	1.6	-	-	3.0	1.0	1.5	13	28	100.0	0.0
b. Other unspecified	1	1	1	0	1	3	4	0.9	60.0	0.8	44.4	7.4	1.6	1.1	-	1.0	1.4	1.3	19	24	0.0	0.0
TOTAL	36	103	82	119	151	340	491	100.0	100.0	100.0	100.0	267.2	168.6	89.0	114.3	150.6	134.0	137.8	1948	2701	94.1	0.8

Please consult the quality indicators for this registry

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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	5	21	16	24	19	66	85	48.4	45.4	1.3	1.5	2	22	15	13	6	52	58	45.6	38.3		
a. Lymphoid	4	14	9	14	5	41	46	30.8	25.9	1.3	1.5	0	18	7	6	0	31	31	28.7	22.3		
b. Acute myeloid	1	3	3	5	7	12	19	8.5	9.5	0.9	0.9	2	3	6	3	6	14	20	11.8	12.1		
c. CMD	0	0	1	2	5	3	8	1.7	3.4	3.0	8.0	0	0	0	1	0	1	1	0.6	0.5		
d. MDS & other	0	3	2	2	1	7	8	5.3	4.5	1.2	1.3	0	1	2	3	0	6	6	4.4	3.4		
e. Unspecified	0	1	1	1	1	3	4	2.2	2.1	-	-	0	0	0	0	0	0	0	-	-		
II LYMPHOMA & RELATED	1	6	10	10	10	27	37	18.6	18.5	3.0	3.7	1	2	4	2	1	9	10	7.5	6.3		
a. Hodgkin	0	0	2	1	1	3	4	1.8	1.8	3.0	4.0	0	0	0	1	0	1	1	0.6	0.5		
b. Non-Hodgkin except BL	0	0	3	1	5	4	9	2.5	4.0	0.8	1.5	1	0	3	1	1	5	6	4.0	3.6		
c. Burkitt (BL)	0	3	1	4	2	8	10	5.7	5.2	8.0	10.0	0	0	1	0	0	1	1	0.8	0.6		
d. Lymphoreticular	1	3	1	2	1	7	8	5.6	4.8	3.5	4.0	0	2	0	0	0	2	2	2.2	1.7		
e. Unspecified	0	0	3	2	1	5	6	3.0	2.7	-	-	0	0	0	0	0	0	0	-	-		
III CNS NEOPLASMS	3	6	12	12	7	33	40	22.9	20.6	1.4	1.5	2	9	6	6	4	23	27	20.3	17.7		
a. Ependymoma	0	0	3	0	1	3	4	2.0	1.9	0.6	0.8	1	3	1	0	0	5	5	5.1	4.0		
b. Astrocytoma	1	1	0	2	3	4	7	3.0	3.6	2.0	1.8	0	0	0	2	2	2	4	1.2	1.9		
c. CNS embryonal	1	4	4	7	1	16	17	11.1	9.0	2.7	2.4	0	2	2	2	1	6	7	4.9	4.3		
d. Other gliomas	0	1	3	1	1	5	6	3.5	3.1	0.7	0.8	1	3	2	1	1	7	8	6.5	5.5		
e. Other specified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
f. Unspecified CNS	1	0	2	2	1	5	6	3.3	3.0	1.7	2.0	0	1	1	1	0	3	3	2.5	1.9		
IV NEUROBLASTOMA	2	7	0	0	1	9	10	8.9	7.3	1.3	1.4	4	2	0	1	0	7	7	7.2	5.6		
a. (Ganglio)neuroblastoma	2	7	0	0	0	9	9	8.9	6.9	1.5	1.5	4	2	0	0	0	6	6	6.6	5.1		
b. Peripheral nervous	0	0	0	0	1	0	1	-	0.4	0.0	1.0	0	0	0	1	0	1	1	0.6	0.5		
V RETINOBLASTOMA	3	5	0	0	0	8	8	7.9	6.1	2.7	2.7	0	3	0	0	0	3	3	3.3	2.6		
VI RENAL TUMOURS	0	4	0	0	0	4	4	3.9	3.1	0.6	0.5	3	3	1	0	1	7	8	7.3	6.2		
a. Nephroblastoma	0	4	0	0	0	4	4	3.9	3.1	0.6	0.6	3	3	1	0	0	7	7	7.3	5.7		
b. Renal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.5		
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	3.0	2.7	1.0	1.3	1	1	1	0	0	3	3	3.0	2.3		
a. Hepatoblastoma	1	2	0	0	0	3	3	3.0	2.3	1.5	1.5	1	1	0	0	0	2	2	2.2	1.7		
b. Hepatic carcinoma	0	0	0	0	1	0	1	-	0.4	0.0	1.0	0	0	1	0	0	1	1	0.8	0.6		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	0	2	5	15	7	22	3.9	9.2	0.4	1.0	1	2	2	11	6	16	22	11.5	11.8		
a. Osteosarcoma	0	0	2	3	7	5	12	2.8	5.1	0.6	1.0	0	1	1	6	4	8	12	5.5	6.2		
b. Chondrosarcoma	0	0	0	0	5	0	5	-	2.1	0.0	5.0	0	0	0	1	0	1	1	0.6	0.5		
c. Ewing & related	0	0	0	1	3	1	4	0.5	1.6	0.2	0.6	1	1	1	3	1	6	7	4.8	4.2		
d. Other specified	0	0	0	1	0	1	1	0.5	0.4	1.0	1.0	0	0	0	1	0	1	1	0.6	0.5		
e. Unspecified	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.5		
IX SOFT TISSUE SARCOMA	1	2	1	1	5	5	10	4.1	5.3	1.0	0.8	0	1	2	2	7	5	12	3.8	6.4		
a. Rhabdomyosarcoma	0	2	0	1	0	3	3	2.5	1.9	0.6	0.5	0	1	2	2	1	5	6	3.8	3.5		
b. Fibrosarcoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.5		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	1	0	0	0	1	1	2	1.0	1.2	-	0.5	0	0	0	0	4	0	4	-	2.0		
e. Unspecified	0	0	1	0	4	1	5	0.7	2.2	-	5.0	0	0	0	0	1	0	1	-	0.5		
X GERM CELL TUMOURS	3	1	3	4	6	11	17	8.0	8.7	0.7	0.6	1	1	3	10	13	15	28	10.5	14.5		
a. CNS germ cell	1	1	3	3	2	8	10	5.5	5.1	2.0	2.5	0	0	0	4	0	4	4	2.4	1.9		
b. Other extragonadal	0	0	0	0	0	0	2	-	0.8	0.0	2.0	1	0	0	0	0	1	1	1.1	0.9		
c. Gonadal germ cell	2	0	0	1	2	3	5	2.5	2.8	0.3	0.3	0	1	3	5	8	9	17	6.4	8.9		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	5	1	6	0.6	2.9		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
XI CARCINOMA & MELANOMA	0	0	0	4	12	4	16	2.1	6.6	0.2	0.3	0	1	3	14	33	18	51	11.9	25.3		
a. Adrenocortical	0	0	0	0	0	0	0	-	-	0.0	0.0	0	1	0	0	0	1	1	1.1	0.9		
b. Thyroid	0	0	0	1	6	1	7	0.5	2.9	0.1	0.2	0	0	1	7	27	8	35	5.0	17.1		
c. Nasopharyngeal	0	0	0	0	1	0	1	-	0.4	-	-	0	0	0	0	0	0	0	-	-		
d. Melanoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	2	0	3	3	2.0	1.5		
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.5		
f. Other & unspecified	0	0	0	3	5	3	8	1.5	3.3	0.5	0.7	0	0	1	5	5	6	11	3.8	5.4		
XII OTHER & UNSPECIFIED	1	1	1	0	0	3	3	2.6	2.0	1.5	0.5	1	1	0	0	4	2	6	2.2	3.7		
a. Other specified	0	0	0	0	0	0	0	-	-	0.0	0.0	1	1	0	0	3	2	5	2.2	3.2		
b. Other unspecified	1	1	1	0	0	3	3	2.6	2.0	-	3.0	0	0	0	0	1	0	1	-	0.5		
TOTAL	20	55	45	60	76	180	256	134.1	135.4	1.1	1.1	16	48	37	59	75	160	235	134.1	140.6		

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	Age group	Males	Females
Person-years	0	70 838	63 915
	1-4	322 536	288 308
	5-9	493 451	428 109
	10-14	564 804	476 726
	15-19	542 871	460 091
Total	0-14	1 451 629	1 257 058
	0-19	1 994 500	1 717 149
Average annual population	0-14	120 969	104 755
	0-19	166 208	143 096

Please consult the quality indicators for this registry