

USA, Minnesota (1998-2012)

	Number of cases								Percentage				Incidence rates per million person-years						MV	DCO			
	Age group								0-14		0-19		Age-specific						%	%			
	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	Cumulative	0-14	0-19	0-19
I LEUKAEMIA	43	364	203	158	166	768	934	30.3	100.0	24.1	100.0	41.9	88.6	38.7	28.8	29.5	51.5	46.6	734	881	100.0	0.0	
a. Lymphoid	17	296	158	102	87	573	660	22.6	74.6	17.0	70.7	16.5	72.1	30.1	18.6	15.4	38.7	33.5	549	626	100.0	0.0	
b. Acute myeloid	15	37	21	36	50	109	159	4.3	14.2	4.1	17.0	14.6	9.0	4.0	6.6	8.9	7.1	7.5	104	148	100.0	0.0	
c. CMD	0	2	8	4	20	14	34	0.6	1.8	0.9	3.6	-	0.5	1.5	0.7	3.6	0.9	1.5	13	31	100.0	0.0	
d. MDS & other	8	14	4	6	4	32	36	1.3	4.2	0.9	3.9	7.8	3.4	0.8	1.1	0.7	2.2	1.9	31	34	100.0	0.0	
e. Unspecified	3	15	12	10	5	40	45	1.6	5.2	1.2	4.8	2.9	3.7	2.3	1.8	0.9	2.6	2.2	38	43	100.0	0.0	
II LYMPHOMA & RELATED	15	57	83	150	301	305	606	12.0	100.0	15.7	100.0	14.6	13.9	15.8	27.4	53.4	18.5	26.3	286	553	100.0	0.0	
a. Hodgkin	0	3	14	78	197	95	292	3.8	31.1	7.5	48.2	-	0.7	2.7	14.2	35.0	5.2	11.9	87	262	100.0	0.0	
b. Non-Hodgkin except BL	1	22	33	50	87	106	193	4.2	34.8	5.0	31.8	1.0	5.4	6.3	9.1	15.4	6.4	8.4	99	177	100.0	0.0	
c. Burkitt (BL)	0	10	22	13	9	45	54	1.8	14.8	1.4	8.9	-	2.4	4.2	2.4	1.6	2.8	2.5	43	51	100.0	0.0	
d. Lymphoreticular	14	20	14	9	6	57	63	2.3	18.7	1.6	10.4	13.6	4.9	2.7	1.6	1.1	3.9	3.3	55	60	100.0	0.0	
e. Unspecified	0	2	0	0	2	2	4	0.1	0.7	0.1	0.7	-	0.5	-	-	0.4	0.2	0.2	2	4	100.0	0.0	
III CNS NEOPLASMS †	34	181	171	187	180	573	753	22.6	100.0	19.4	100.0	33.1	44.1	32.6	34.1	32.0	36.6	35.6	543	703	97.2	0.8	
a. Ependymoma	7	30	21	16	11	74	85	2.9	12.9	2.2	11.3	6.8	7.3	4.0	2.9	2.0	4.9	4.3	71	80	100.0	0.0	
b. Astrocytoma	7	88	85	100	96	280	376	11.1	48.9	9.7	49.9	6.8	21.4	16.2	18.3	17.0	17.7	17.5	265	350	98.7	0.0	
c. CNS embryonal	14	37	34	23	9	108	117	4.3	18.8	3.0	15.5	13.6	9.0	6.5	4.2	1.6	7.2	5.9	103	111	100.0	0.0	
d. Other gliomas	0	9	9	15	14	33	47	1.3	5.8	1.2	6.2	-	2.2	1.7	2.7	2.5	2.0	2.1	31	43	89.4	0.0	
e. Other specified	4	15	19	29	49	67	116	2.6	11.7	3.0	15.4	3.9	3.7	3.6	5.3	8.7	4.1	5.2	63	107	96.6	0.0	
f. Unspecified CNS	2	2	3	4	1	11	12	0.4	1.9	0.3	1.6	1.9	0.5	0.6	0.7	0.2	0.7	0.6	10	11	41.7	50.0	
IV NEUROBLASTOMA	70	77	17	3	5	167	172	6.6	100.0	4.4	100.0	68.1	18.8	3.2	0.5	0.9	12.3	9.7	162	167	100.0	0.0	
a. (Ganglio)neuroblastoma	70	77	17	3	4	167	171	6.6	100.0	4.4	99.4	68.1	18.8	3.2	0.5	0.7	12.3	9.7	162	166	100.0	0.0	
b. Peripheral nervous	0	0	0	0	1	0	1	-	-	0.0	0.6	-	-	-	-	0.2	-	0.0	-	1	100.0	0.0	
V RETINOBLASTOMA	18	34	3	0	0	55	55	2.2	100.0	1.4	100.0	17.5	8.3	0.6	-	-	4.1	3.2	54	54	94.5	0.0	
VI RENAL TUMOURS	18	101	36	8	2	163	165	6.4	100.0	4.3	100.0	17.5	24.6	6.9	1.5	0.4	11.6	9.1	158	159	100.0	0.0	
a. Nephroblastoma	18	101	34	7	0	160	160	6.3	98.2	4.1	97.0	17.5	24.6	6.5	1.3	-	11.4	8.9	155	155	100.0	0.0	
b. Renal carcinoma	0	0	2	1	2	3	5	0.1	1.8	0.1	3.0	-	-	0.4	0.2	0.4	0.2	0.2	3	5	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VII HEPATIC TUMOURS	4	28	4	8	12	44	56	1.7	100.0	1.4	100.0	3.9	6.8	0.8	1.5	2.1	3.1	2.9	42	53	100.0	0.0	
a. Hepatoblastoma	4	28	3	4	2	39	41	1.5	88.6	1.1	73.2	3.9	6.8	0.6	0.7	0.4	2.8	2.3	38	39	100.0	0.0	
b. Hepatic carcinoma	0	0	1	4	10	5	15	0.2	11.4	0.4	26.8	-	-	0.2	0.7	1.8	0.3	0.6	5	13	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII BONE TUMOURS	0	6	32	53	106	91	197	3.6	100.0	5.1	100.0	-	1.5	6.1	9.7	18.8	5.2	8.3	85	179	100.0	0.0	
a. Osteosarcoma	0	3	16	33	63	52	115	2.1	57.1	3.0	58.4	-	0.7	3.1	6.0	11.2	3.0	4.8	48	104	100.0	0.0	
b. Chondrosarcoma	0	0	0	3	16	3	19	0.1	3.3	0.5	9.6	-	-	-	0.5	2.8	0.2	0.8	3	17	100.0	0.0	
c. Ewing & related	0	3	16	13	25	32	57	1.3	35.2	1.5	28.9	-	0.7	3.1	2.4	4.4	1.9	2.5	30	52	100.0	0.0	
d. Other specified	0	0	0	4	2	4	6	0.2	4.4	0.2	3.0	-	-	-	0.7	0.4	0.2	0.2	4	5	100.0	0.0	
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IX SOFT TISSUE SARCOMA	16	41	51	61	101	169	270	6.7	100.0	7.0	100.0	15.6	10.0	9.7	11.1	17.9	10.7	12.3	160	249	100.0	0.0	
a. Rhabdomyosarcoma	4	28	24	19	19	75	94	3.0	44.4	2.4	34.8	3.9	6.8	4.6	3.5	3.4	4.9	4.6	71	88	100.0	0.0	
b. Fibrosarcoma	8	3	4	7	12	22	34	0.9	13.0	0.9	12.6	7.8	0.7	0.8	1.3	2.1	1.4	1.6	21	32	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	1	0	1	-	-	0.0	0.4	-	-	-	-	0.2	-	0.0	-	1	100.0	0.0	
d. Other specified	3	9	20	27	64	59	123	2.3	34.9	3.2	45.6	2.9	2.2	3.8	4.9	11.4	3.6	5.3	55	112	100.0	0.0	
e. Unspecified	1	1	3	8	5	13	18	0.5	7.7	0.5	6.7	1.0	0.2	0.6	1.5	0.9	0.8	0.8	12	17	100.0	0.0	
X GERM CELL TUMOURS	23	19	14	37	198	93	291	3.7	100.0	7.5	100.0	22.4	4.6	2.7	6.8	35.2	6.0	12.6	88	264	99.7	0.0	
a. CNS germ cell ‡	2	4	9	13	20	28	48	1.1	30.1	1.2	16.5	1.9	1.0	1.7	2.4	3.6	1.7	2.1	26	44	97.9	0.0	
b. Other extragonadal	16	8	2	2	8	28	36	1.1	30.1	0.9	12.4	15.6	1.9	0.4	0.4	1.4	2.0	1.9	27	34	100.0	0.0	
c. Gonadal germ cell	5	7	3	19	158	34	192	1.3	36.6	5.0	66.0	4.9	1.7	0.6	3.5	28.1	2.1	7.9	32	172	100.0	0.0	
d. Gonadal carcinoma	0	0	0	2	9	2	11	0.1	2.2	0.3	3.8	-	-	-	0.4	1.6	0.1	0.4	2	10	100.0	0.0	
e. Unspecified gonadal	0	0	0	1	3	1	4	0.0	1.1	0.1	1.4	-	-	-	0.2	0.5	0.1	0.2	1	4	100.0	0.0	
XI CARCINOMA & MELANOMA	3	6	21	65	265	95	360	3.8	100.0	9.3	100.0	2.9	1.5	4.0	11.9	47.0	5.4	14.8	88	323	100.0	0.0	
a. Adrenocortical	1	2	2	0	2	5	7	0.2	5.3	0.2	1.9	1.0	0.5	0.4	-	0.4	0.3	0.4	5	7	100.0	0.0	
b. Thyroid	1	3	5	33	105	42	147	1.7	44.2	3.8	40.8	1.0	0.7	1.0	6.0	18.6	2.4	6.0	39	132	100.0	0.0	
c. Nasopharyngeal	0	0	0	2	4	2	6	0.1	2.1	0.2	1.7	-	-	-	0.4	0.7	0.1	0.2	2	5	100.0	0.0	
d. Melanoma	1	1	8	9	93	19	112	0.8	20.0	2.9	31.1	1.0	0.2	1.5	1.6	16.5	1.1	4.6	18	100	100.0	0.0	
e. Skin carcinoma	0	0	0	1	2	1	3	0.0	1.1	0.1	0.8	-	-	-	0.2	0.4	0.1	0.1	1	3	100.0	0.0	
f. Other & unspecified	0	0	6	20	59	26	85	1.0	27.4	2.2	23.6	-	-	1.1	3.7	10.5	1.4	3.5	24	76	100.0	0.0	
XII OTHER & UNSPECIFIED	3	2	1	3	4	9	13	0.4	100.0	0.3	100.0	2.9	0.5	0.2	0.5	0.7	0.6	0.6	9	12	92.3	7.7	
a. Other specified	2	2	1	2	4	7	11	0.3	77.8	0.3	84.6	1.9	0.5	0.2	0.4	0.7	0.5	0.5	7	10	100.0	0.0	
b. Other unspecified	1	0	0	1	0	2	2	0.1	22.2	0.1	15.4	1.0	-	-	0.2	-	0.1	0.1	2	2	50.0	50.0	
TOTAL	247	916	636	733	1340	2532	3872	100.0	100.0	100.0	100.0	240.4	223.1	121.3	133.8	237.9	165.7	181.9	2408	3598	99.3	0.2	

† includes 145 non-malignant ‡ includes 3 non-malignant

Please consult the quality indicators for this registry

USA, Minnesota (1998-2012)

	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	23	199	108	88	106	418	524	54.8	50.8	1.2	1.3	20	165	95	70	60	350	410	48.1	42.2				
a. Lymphoid	7	165	85	57	64	314	378	41.5	37.2	1.2	1.3	10	131	73	45	23	259	282	35.8	29.6				
b. Acute myeloid	8	16	11	21	27	56	83	7.0	7.6	1.1	1.1	7	21	10	15	23	53	76	7.2	7.5				
c. CMD	0	0	4	1	9	5	14	0.6	1.2	0.6	0.7	0	2	4	3	11	9	20	1.1	1.8				
d. MDS & other	7	7	1	5	3	20	23	2.7	2.3	1.7	1.8	1	7	3	1	1	12	13	1.7	1.4				
e. Unspecified	1	11	7	4	3	23	26	3.0	2.6	1.4	1.4	2	4	5	6	2	17	19	2.2	1.9				
II LYMPHOMA & RELATED	10	33	56	93	159	192	351	22.7	30.0	1.7	1.4	5	24	27	57	142	113	25.5	14.1	22.5				
a. Hodgkin	0	3	10	44	97	57	154	6.2	12.4	1.5	1.1	0	0	4	34	100	38	138	4.2	11.4				
b. Non-Hodgkin except BL	0	9	22	33	50	64	114	7.4	9.6	1.5	1.4	1	13	11	17	37	42	79	5.4	7.2				
c. Burkitt (BL)	0	10	18	10	7	38	45	4.7	4.2	5.4	5.0	0	0	4	3	2	7	9	0.8	0.8				
d. Lymphoreticular	10	10	6	6	3	32	35	4.3	3.6	1.3	1.3	4	10	8	3	3	25	28	3.5	3.0				
e. Unspecified	0	1	0	0	2	1	3	0.1	0.3	1.0	3.0	0	1	0	0	0	1	1	0.2	0.1				
III CNS NEOPLASMS †	17	93	95	107	94	312	406	38.7	37.3	1.2	1.2	17	88	76	80	86	261	347	34.5	33.7				
a. Ependymoma	2	14	17	10	8	43	51	5.4	4.8	1.4	1.5	5	16	4	6	3	31	34	4.4	3.7				
b. Astrocytoma	4	46	41	53	56	144	200	17.8	18.2	1.1	1.1	3	42	44	47	40	136	176	17.6	16.9				
c. CNS embryonal	7	21	23	12	5	63	68	8.1	6.7	1.4	1.4	7	16	11	11	4	45	49	6.1	5.1				
d. Other gliomas	0	3	4	11	5	18	23	2.1	2.0	1.2	1.0	0	6	5	4	9	15	24	2.0	2.3				
e. Other specified	3	9	10	19	20	41	61	4.9	5.4	1.6	1.1	1	6	9	10	29	26	55	3.3	4.9				
f. Unspecified CNS	1	0	0	2	0	3	3	0.4	0.3	0.4	0.3	1	2	3	2	1	8	9	1.1	0.9				
IV NEUROBLASTOMA	36	55	10	2	2	103	105	14.8	11.7	1.6	1.6	34	22	7	1	3	64	67	9.6	7.7				
a. (Ganglio)neuroblastoma	36	55	10	2	1	103	104	14.8	11.6	1.6	1.6	34	22	7	1	3	64	67	9.6	7.7				
b. Peripheral nervous	0	0	0	0	1	0	1	-	0.1	-	-	0	0	0	0	0	0	0	-	-				
V RETINOBLASTOMA	8	13	1	0	0	22	22	3.2	2.5	0.7	0.7	10	21	2	0	0	33	33	5.0	3.9				
VI RENAL TUMOURS	14	57	22	4	0	97	97	13.5	10.5	1.5	1.4	4	44	14	4	2	66	68	9.6	7.6				
a. Nephroblastoma	14	57	21	3	0	95	95	13.3	10.3	1.5	1.5	4	44	13	4	0	65	65	9.5	7.3				
b. Renal carcinoma	0	0	1	1	0	2	2	0.2	0.2	2.0	0.7	0	0	1	0	2	1	3	0.1	0.3				
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
VII HEPATIC TUMOURS	2	21	3	5	5	31	36	4.3	3.7	2.4	1.8	2	7	1	3	7	13	20	1.8	2.0				
a. Hepatoblastoma	2	21	2	2	0	27	27	3.8	3.0	2.3	1.9	2	7	1	2	2	12	14	1.7	1.5				
b. Hepatic carcinoma	0	0	1	3	5	4	9	0.4	0.7	4.0	1.5	0	0	0	1	5	1	6	0.1	0.5				
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
VIII BONE TUMOURS	0	3	21	29	64	53	117	6.0	9.6	1.4	1.5	0	3	11	24	42	38	80	4.5	6.9				
a. Osteosarcoma	0	2	10	18	41	30	71	3.4	5.8	1.4	1.6	0	1	6	15	22	22	44	2.5	3.8				
b. Chondrosarcoma	0	0	0	1	10	1	11	0.1	0.9	0.5	1.4	0	0	0	2	6	2	8	0.2	0.7				
c. Ewing & related	0	1	11	7	12	19	31	2.2	2.6	1.5	1.2	0	2	5	6	13	13	26	1.6	2.3				
d. Other specified	0	0	0	3	1	3	4	0.3	0.3	3.0	2.0	0	0	0	1	1	1	2	0.1	0.2				
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
IX SOFT TISSUE SARCOMA	7	25	32	23	57	87	144	10.9	12.9	1.1	1.1	9	16	19	38	44	82	126	10.4	11.6				
a. Rhabdomyosarcoma	1	17	18	8	13	44	57	5.6	5.4	1.4	1.5	3	11	6	11	6	31	37	4.1	3.7				
b. Fibrosarcoma	4	2	1	3	8	10	18	1.3	1.6	0.8	1.1	4	1	3	4	4	12	16	1.6	1.6				
c. Kaposi sarcoma	0	0	0	0	1	0	1	-	0.1	-	-	0	0	0	0	0	0	0	-	-				
d. Other specified	1	6	12	8	32	27	59	3.3	5.1	0.8	0.9	2	3	8	19	32	32	64	3.8	5.6				
e. Unspecified	1	0	1	4	3	6	9	0.7	0.8	0.9	1.0	0	1	2	4	2	7	9	0.8	0.8				
X GERM CELL TUMOURS	14	8	5	15	153	42	195	5.4	16.1	0.8	2.0	9	11	9	22	45	51	96	6.6	8.8				
a. CNS germ cell ‡	2	1	3	9	17	15	32	1.7	2.7	1.2	2.0	0	3	6	4	3	13	16	1.7	1.5				
b. Other extragonadal	7	1	1	2	6	11	17	1.5	1.6	0.6	0.9	9	7	1	0	2	17	19	2.6	2.2				
c. Gonadal germ cell	5	6	1	4	130	16	146	2.2	11.8	0.9	3.2	0	1	2	15	28	18	46	2.0	3.9				
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	2	9	2	11	0.2	0.9				
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	3	1	4	0.1	0.3				
XI CARCINOMA & MELANOMA	2	4	10	26	83	42	125	4.8	10.2	0.8	0.5	1	2	11	39	182	53	235	6.1	19.6				
a. Adrenocortical	0	0	1	0	0	1	1	0.1	0.1	0.3	0.2	1	2	1	0	2	4	6	0.6	0.6				
b. Thyroid	1	3	1	7	23	12	35	1.4	2.9	0.4	0.3	0	0	4	26	82	30	112	3.3	9.3				
c. Nasopharyngeal	0	0	0	1	2	1	3	0.1	0.2	1.0	1.0	0	0	0	1	2	1	3	0.1	0.2				
d. Melanoma	1	1	5	6	33	13	46	1.5	3.8	2.2	0.7	0	0	3	3	60	6	66	0.7	5.4				
e. Skin carcinoma	0	0	0	0	1	0	1	-	0.1	0.0	0.5	0	0	0	1	1	1	2	0.1	0.2				
f. Other & unspecified	0	0	3	12	24	15	39	1.6	3.1	1.4	0.8	0	0	3	8	35	11	46	1.2	3.8				
XII OTHER & UNSPECIFIED	2	1	1	1	2	5	7	0.7	0.7	1.3	1.2	1	1	0	2	2	4	6	0.5	0.6				
a. Other specified	2	1	1	1	2	5	7	0.7	0.7	2.5	1.8	0	1	0	1	2	2	4	0.3	0.4				
b. Other unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	1	0	0	1	0	2	2	0.3	0.2				
TOTAL	135	512	364	393	725	1404	2129	179.8	196.0	1.2	1.2	112	404	272	340	615	1128	1743	150.8	167.1				

† includes 77 non-malignant in males and 68 non-malignant in females ‡ includes 2 non-malignant in males and 1 non-malignant in females

Please consult the quality indicators for this registry

USA, Minnesota (1998-2012)

	Age group	Males	Females
Person-years	0	525 132	502 110
	1-4	2 096 964	2 009 527
	5-9	2 687 064	2 557 587
	10-14	2 809 361	2 669 366
	15-19	2 878 736	2 753 709
Total	0-14	8 118 521	7 738 590
	0-19	10 997 257	10 492 299
Average annual population	0-14	541 235	515 906
	0-19	733 150	699 487

Please consult the quality indicators for this registry