

USA, Minnesota, NH White (1998-2012)

	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	33	269	146	120	134	568	702	29.9	100.0	24.2	100.0	43.3	85.7	35.2	26.9	28.8	49.2	44.6	698	842	100.0	0.0
a. Lymphoid	13	224	117	74	70	428	498	22.5	75.4	17.2	70.9	17.1	71.4	28.2	16.6	15.1	37.4	32.4	528	603	100.0	0.0
b. Acute myeloid	11	22	14	29	44	76	120	4.0	13.4	4.1	17.1	14.4	7.0	3.4	6.5	9.5	6.3	7.0	92	139	100.0	0.0
c. CMD	0	1	4	2	14	7	21	0.4	1.2	0.7	3.0	-	0.3	1.0	0.4	3.0	0.5	1.1	8	23	100.0	0.0
d. MDS & other	7	10	2	6	2	25	27	1.3	4.4	0.9	3.8	9.2	3.2	0.5	1.3	0.4	2.2	1.8	31	33	100.0	0.0
e. Unspecified	2	12	9	9	4	32	36	1.7	5.6	1.2	5.1	2.6	3.8	2.2	2.0	0.9	2.7	2.3	39	43	100.0	0.0
II LYMPHOMA & RELATED	9	37	52	120	240	218	458	11.5	100.0	15.8	100.0	11.8	11.8	12.5	26.9	51.6	16.4	24.4	256	514	100.0	0.0
a. Hodgkin	0	1	9	64	155	74	229	3.9	33.9	7.9	50.0	-	0.3	2.2	14.4	33.3	5.0	11.4	84	251	100.0	0.0
b. Non-Hodgkin except BL	0	17	20	39	70	76	146	4.0	34.9	5.0	31.9	-	5.4	4.8	8.8	15.1	5.8	7.9	90	165	100.0	0.0
c. Burkitt (BL)	0	8	19	12	8	39	47	2.1	17.9	1.6	10.3	-	2.5	4.6	2.7	1.7	3.1	2.8	47	55	100.0	0.0
d. Lymphoreticular	9	9	4	5	5	27	32	1.4	12.4	1.1	7.0	11.8	2.9	1.0	1.1	1.1	2.4	2.1	34	39	100.0	0.0
e. Unspecified	0	2	0	0	2	2	4	0.1	0.9	0.1	0.9	-	0.6	-	-	0.4	0.2	0.3	3	5	100.0	0.0
III CNS NEOPLASMS †	31	139	132	146	134	448	582	23.6	100.0	20.1	100.0	40.7	44.3	31.8	32.8	28.8	36.7	34.9	541	685	98.3	0.5
a. Ependymoma	6	25	18	13	8	62	70	3.3	13.8	2.4	12.0	7.9	8.0	4.3	2.9	1.7	5.3	4.5	76	85	100.0	0.0
b. Astrocytoma	7	63	62	81	76	213	289	11.2	47.5	10.0	49.7	9.2	20.1	15.0	18.2	16.3	17.1	16.9	255	337	99.7	0.0
c. CNS embryonal	12	30	26	20	8	88	96	4.6	19.6	3.3	16.5	15.7	9.6	6.3	4.5	1.7	7.5	6.2	108	116	100.0	0.0
d. Other gliomas	0	7	9	11	11	27	38	1.4	6.0	1.3	6.5	-	2.2	2.2	2.5	2.4	2.1	2.2	32	44	92.1	0.0
e. Other specified	4	13	14	19	31	50	81	2.6	11.2	2.8	13.9	5.2	4.1	3.4	4.3	6.7	4.0	4.6	60	93	97.5	0.0
f. Unspecified CNS	2	1	3	2	0	8	8	0.4	1.8	0.3	1.4	2.6	0.3	0.7	0.4	-	0.7	0.5	10	10	50.0	37.5
IV NEUROBLASTOMA	55	62	13	2	5	132	137	6.9	100.0	4.7	100.0	72.2	19.8	3.1	0.4	1.1	12.8	10.1	168	173	100.0	0.0
a. (Ganglio)neuroblastoma	55	62	13	2	4	132	136	6.9	100.0	4.7	99.3	72.2	19.8	3.1	0.4	0.9	12.8	10.1	168	172	100.0	0.0
b. Peripheral nervous	0	0	0	0	1	0	1	-	-	0.0	0.7	-	-	-	-	0.2	-	0.0	-	1	100.0	0.0
V RETINOBLASTOMA	9	25	2	0	0	36	36	1.9	100.0	1.2	100.0	11.8	8.0	0.5	-	-	3.5	2.7	46	46	94.4	0.0
VI RENAL TUMOURS	11	78	30	8	1	127	128	6.7	100.0	4.4	100.0	14.4	24.9	7.2	1.8	0.2	11.7	9.1	159	160	100.0	0.0
a. Nephroblastoma	11	78	29	7	0	125	125	6.6	98.4	4.3	97.7	14.4	24.9	7.0	1.6	-	11.5	8.9	157	157	100.0	0.0
b. Renal carcinoma	0	0	1	1	1	2	3	0.1	1.6	0.1	2.3	-	-	0.2	0.2	0.2	0.1	0.2	2	3	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VII HEPATIC TUMOURS	2	19	3	6	7	30	37	1.6	100.0	1.3	100.0	2.6	6.1	0.7	1.3	1.5	2.7	2.4	37	45	100.0	0.0
a. Hepatoblastoma	2	19	2	4	1	27	28	1.4	90.0	1.0	75.7	2.6	6.1	0.5	0.9	0.2	2.5	2.0	34	35	100.0	0.0
b. Hepatic carcinoma	0	0	1	2	6	3	9	0.2	10.0	0.3	24.3	-	-	0.2	0.4	1.3	0.2	0.5	3	10	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII BONE TUMOURS	0	5	26	44	88	75	163	3.9	100.0	5.6	100.0	-	1.6	6.3	9.9	18.9	5.4	8.4	87	182	100.0	0.0
a. Osteosarcoma	0	2	11	25	50	38	88	2.0	50.7	3.0	54.0	-	0.6	2.7	5.6	10.8	2.7	4.5	44	98	100.0	0.0
b. Chondrosarcoma	0	0	0	3	13	3	16	0.2	4.0	0.6	9.8	-	-	-	0.7	2.8	0.2	0.8	3	17	100.0	0.0
c. Ewing & related	0	3	15	12	24	30	54	1.6	40.0	1.9	33.1	-	1.0	3.6	2.7	5.2	2.2	2.9	35	61	100.0	0.0
d. Other specified	0	0	0	4	1	4	5	0.2	5.3	0.2	3.1	-	-	-	0.9	0.2	0.3	0.3	4	6	100.0	0.0
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IX SOFT TISSUE SARCOMA	12	29	38	46	64	125	189	6.6	100.0	6.5	100.0	15.7	9.2	9.2	10.3	13.8	10.0	10.9	150	219	100.0	0.0
a. Rhabdomyosarcoma	3	20	17	17	12	57	69	3.0	45.6	2.4	36.5	3.9	6.4	4.1	3.8	2.6	4.7	4.2	69	82	100.0	0.0
b. Fibrosarcoma	6	2	3	3	10	14	24	0.7	11.2	0.8	12.7	7.9	0.6	0.7	0.7	2.2	1.2	1.4	17	28	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Other specified	3	6	16	18	37	43	80	2.3	34.4	2.8	42.3	3.9	1.9	3.9	4.0	8.0	3.3	4.4	51	91	100.0	0.0
e. Unspecified	0	1	2	8	5	11	16	0.6	8.8	0.6	8.5	-	0.3	0.5	1.8	1.1	0.8	0.8	13	18	100.0	0.0
X GERM CELL TUMOURS	18	13	11	22	139	64	203	3.4	100.0	7.0	100.0	23.6	4.1	2.7	4.9	29.9	5.4	10.9	78	227	99.5	0.0
a. CNS germ cell ‡	0	3	8	9	12	20	32	1.1	31.3	1.1	15.8	-	1.0	1.9	2.0	2.6	1.5	1.7	24	37	96.9	0.0
b. Other extragonadal	14	7	1	1	3	23	26	1.2	35.9	0.9	12.8	18.4	2.2	0.2	0.2	0.6	2.2	1.9	29	32	100.0	0.0
c. Gonadal germ cell	4	3	2	10	115	19	134	1.0	29.7	4.6	66.0	5.2	1.0	0.5	2.2	24.7	1.5	6.7	23	146	100.0	0.0
d. Gonadal carcinoma	0	0	0	1	6	1	7	0.1	1.6	0.2	3.4	-	-	-	0.2	1.3	0.1	0.3	1	8	100.0	0.0
e. Unspecified gonadal	0	0	0	1	3	1	4	0.1	1.6	0.1	2.0	-	-	-	0.2	0.6	0.1	0.2	1	4	100.0	0.0
XI CARCINOMA & MELANOMA	2	5	15	48	185	70	255	3.7	100.0	8.8	100.0	2.6	1.6	3.6	10.8	39.8	5.0	12.8	81	280	100.0	0.0
a. Adrenocortical	1	2	2	0	2	5	7	0.3	7.1	0.2	2.7	1.3	0.6	0.5	-	0.4	0.5	0.4	6	8	100.0	0.0
b. Thyroid	1	2	3	26	70	32	102	1.7	45.7	3.5	40.0	1.3	0.6	0.7	5.8	15.1	2.2	5.1	37	112	100.0	0.0
c. Nasopharyngeal	0	0	0	2	2	2	4	0.1	2.9	0.1	1.6	-	-	-	0.4	0.4	0.1	0.2	2	4	100.0	0.0
d. Melanoma	0	1	6	6	68	13	81	0.7	18.6	2.8	31.8	-	0.3	1.4	1.3	14.6	1.0	4.0	15	88	100.0	0.0
e. Skin carcinoma	0	0	0	0	1	0	1	-	-	0.0	0.4	-	-	-	-	0.2	-	0.0	-	1	100.0	0.0
f. Other & unspecified	0	0	4	14	42	18	60	0.9	25.7	2.1	23.5	-	-	1.0	3.1	9.0	1.2	3.0	21	66	100.0	0.0
XII OTHER & UNSPECIFIED	3	1	1	2	2	7	9	0.4	100.0	0.3	100.0	3.9	0.3	0.2	0.4	0.4	0.6	0.6	9	11	88.9	11.1
a. Other specified	2	1	1	2	2	6	8	0.3	85.7	0.3	88.9	2.6	0.3	0.2	0.4	0.4	0.5	0.5	7	9	100.0	0.0
b. Other unspecified	1	0	0	0	0	1	1	0.1	14.3	0.0	11.1	1.3	-	-	-	-	0.1	0.1	1	1	0.0	100.0
TOTAL	185	682	469	564	999	1900	2899	100.0	100.0	100.0	100.0	242.7	217.3	113.2	126.6	214.9	159.3	171.8	2310	3385	99.5	0.1

† includes 102 non-malignant ‡ includes 1 non-malignant

Please consult the quality indicators for this registry

USA, Minnesota, NH White (1998-2012)

	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	16	144	81	65	87	306	393	51.6	48.2	1.2	1.3	17	125	65	55	47	262	309	46.6	40.7		
a. Lymphoid	4	120	65	38	52	227	279	38.8	35.0	1.1	1.3	9	104	52	36	18	201	219	36.1	29.7		
b. Acute myeloid	5	12	8	17	24	42	66	6.7	7.4	1.2	1.2	6	10	6	12	20	34	54	5.8	6.5		
c. CMD	0	0	1	1	6	2	8	0.3	0.8	0.4	0.6	0	1	3	1	8	5	13	0.8	1.4		
d. MDS & other	6	4	1	5	2	16	18	2.7	2.3	1.8	2.0	1	6	1	1	0	9	9	1.7	1.3		
e. Unspecified	1	8	6	4	3	19	22	3.2	2.7	1.5	1.6	1	4	3	5	1	13	14	2.2	1.8		
II LYMPHOMA & RELATED	7	23	36	70	125	136	261	20.2	27.5	1.7	1.3	2	14	16	50	115	82	197	12.5	21.1		
a. Hodgkin	0	1	7	32	75	40	115	5.3	11.2	1.2	1.0	0	0	2	32	80	34	114	4.6	11.5		
b. Non-Hodgkin except BL	0	8	11	25	40	44	84	6.4	8.7	1.4	1.4	0	9	9	14	30	32	62	5.1	6.9		
c. Burkitt (BL)	0	8	16	10	6	34	40	5.2	4.6	6.8	5.7	0	0	3	2	2	5	7	0.7	0.8		
d. Lymphoreticular	7	5	2	3	2	17	19	3.0	2.5	1.7	1.5	2	4	2	2	3	10	13	1.8	1.7		
e. Unspecified	0	1	0	0	2	1	3	0.2	0.3	1.0	3.0	0	1	0	0	0	1	1	0.2	0.2		
III CNS NEOPLASMS †	15	70	70	85	70	240	310	37.9	36.0	1.2	1.1	16	69	62	61	64	208	272	35.3	33.7		
a. Ependymoma	2	11	14	8	6	35	41	5.7	5.0	1.3	1.4	4	14	4	5	2	27	29	5.0	4.0		
b. Astrocytoma	4	33	27	45	44	109	153	17.0	17.3	1.0	1.1	3	30	35	36	32	104	136	17.1	16.4		
c. CNS embryonal	5	17	18	11	4	51	55	8.4	6.9	1.4	1.3	7	13	8	9	4	37	41	6.5	5.5		
d. Other gliomas	0	2	4	8	3	14	17	2.0	1.8	1.1	0.8	0	5	5	3	8	13	21	2.2	2.5		
e. Other specified	3	7	7	12	13	29	42	4.5	4.7	1.4	1.1	1	6	7	7	18	21	39	3.5	4.5		
f. Unspecified CNS	1	0	0	1	0	2	2	0.3	0.2	0.3	0.3	1	1	3	1	0	6	6	1.0	0.8		
IV NEUROBLASTOMA	28	42	7	1	2	78	80	14.8	11.6	1.4	1.4	27	20	6	1	3	54	57	10.6	8.5		
a. (Ganglio)neuroblastoma	28	42	7	1	1	78	79	14.8	11.6	1.4	1.4	27	20	6	1	3	54	57	10.6	8.5		
b. Peripheral nervous	0	0	0	0	1	0	1	-	0.1	-	-	0	0	0	0	0	0	0	-	-		
V RETINOBLASTOMA	3	10	0	0	0	13	13	2.5	2.0	0.6	0.6	6	15	2	0	0	23	23	4.6	3.6		
VI RENAL TUMOURS	9	42	20	4	0	75	75	13.4	10.4	1.4	1.4	2	36	10	4	1	52	53	9.8	7.7		
a. Nephroblastoma	9	42	19	3	0	73	73	13.2	10.2	1.4	1.4	2	36	10	4	0	52	52	9.8	7.6		
b. Renal carcinoma	0	0	1	1	0	2	2	0.3	0.2	-	2.0	0	0	0	0	1	0	1	-	0.1		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VII HEPATIC TUMOURS	2	13	2	3	2	20	22	3.6	3.0	2.0	1.5	0	6	1	3	5	10	15	1.8	1.9		
a. Hepatoblastoma	2	13	1	2	0	18	18	3.3	2.6	2.0	1.8	0	6	1	2	1	9	10	1.6	1.4		
b. Hepatic carcinoma	0	0	1	1	2	2	4	0.3	0.4	2.0	0.8	0	0	0	1	4	1	5	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	17	25	51	45	96	6.3	9.7	1.5	1.4	0	2	9	19	37	30	67	4.4	7.1		
a. Osteosarcoma	0	2	7	15	31	24	55	3.4	5.5	1.7	1.7	0	0	4	10	19	14	33	2.0	3.4		
b. Chondrosarcoma	0	0	0	1	8	1	9	0.1	0.9	0.5	1.3	0	0	0	2	5	2	7	0.3	0.7		
c. Ewing & related	0	1	10	6	12	17	29	2.5	3.1	1.3	1.2	0	2	5	6	12	13	25	2.0	2.7		
d. Other specified	0	0	0	3	0	3	3	0.4	0.3	3.0	1.5	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	4	17	23	19	36	63	99	10.0	11.1	1.0	1.1	8	12	15	27	28	62	90	10.1	10.6		
a. Rhabdomyosarcoma	0	11	13	7	7	31	38	5.0	4.5	1.2	1.2	3	9	4	10	5	26	31	4.4	3.9		
b. Fibrosarcoma	3	1	1	1	6	6	12	1.1	1.4	0.8	1.0	3	1	2	2	4	8	12	1.4	1.5		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	1	5	9	7	20	22	42	3.4	4.5	1.0	1.1	2	1	7	11	17	21	38	3.2	4.2		
e. Unspecified	0	0	0	4	3	4	7	0.5	0.7	0.6	0.8	0	1	2	4	2	7	9	1.1	1.0		
X GERM CELL TUMOURS	11	4	2	8	107	25	132	4.2	13.4	0.6	1.9	7	9	9	14	32	39	71	6.6	8.2		
a. CNS germ cell ‡	0	1	2	6	10	9	19	1.3	1.9	0.8	1.5	0	2	6	3	2	11	13	1.8	1.6		
b. Other extragonadal	7	1	0	1	3	9	12	1.7	1.6	0.6	0.9	7	6	1	0	0	14	14	2.8	2.2		
c. Gonadal germ cell	4	2	0	1	94	7	101	1.3	9.9	0.6	3.1	0	1	2	9	21	12	33	1.7	3.4		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	6	1	7	0.1	0.7		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	3	1	4	0.1	0.4		
XI CARCINOMA & MELANOMA	1	3	8	17	59	29	88	4.1	8.8	0.7	0.5	1	2	7	31	126	41	167	5.9	17.0		
a. Adrenocortical	0	0	1	0	0	1	1	0.2	0.1	0.3	0.2	1	2	1	0	2	4	6	0.8	0.8		
b. Thyroid	1	2	1	5	15	9	24	1.4	2.5	0.4	0.3	0	0	2	21	55	23	78	3.1	7.9		
c. Nasopharyngeal	0	0	0	1	1	1	2	0.1	0.2	1.0	1.0	0	0	0	1	1	1	2	0.1	0.2		
d. Melanoma	0	1	4	3	25	8	33	1.2	3.3	1.6	0.7	0	0	2	3	43	5	48	0.7	4.8		
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.1		
f. Other & unspecified	0	0	2	8	18	10	28	1.3	2.7	1.3	0.9	0	0	2	6	24	8	32	1.1	3.2		
XII OTHER & UNSPECIFIED	2	0	1	1	2	4	6	0.7	0.7	1.3	2.0	1	1	0	1	0	3	3	0.5	0.4		
a. Other specified	2	0	1	1	2	4	6	0.7	0.7	2.0	3.0	0	1	0	1	0	2	2	0.3	0.3		
b. Other unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	1	0	0	0	0	1	1	0.2	0.2		
TOTAL	98	371	267	298	541	1034	1575	169.4	182.6	1.2	1.2	87	311	202	266	458	866	1324	148.7	160.5		

† includes 55 non-malignant in males and 47 non-malignant in females ‡ includes 1 non-malignant in males

Please consult the quality indicators for this registry

USA, Minnesota, NH White (1998-2012)

	Age group	Males	Females
Person-years	0	390 073	372 146
	1-4	1 603 184	1 535 216
	5-9	2 126 804	2 017 749
	10-14	2 287 425	2 167 051
	15-19	2 373 115	2 276 292
Total	0-14	6 407 486	6 092 162
	0-19	8 780 601	8 368 454
Average annual population	0-14	427 166	406 144
	0-19	585 373	557 897

Please consult the quality indicators for this registry