

USA, North Dakota (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					ASR		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	6	38	24	19	23	87	110	32.2	100.0	25.9	100.0	48.2	77.5	39.3	29.2	29.9	48.9	44.6	701	850	99.1	0.0	
a. Lymphoid	1	32	21	18	14	72	86	26.7	82.8	20.2	78.2	8.0	65.3	34.4	27.7	18.2	39.9	35.0	579	670	100.0	0.0	
b. Acute myeloid	2	4	3	1	7	10	17	3.7	11.5	4.0	15.5	16.1	8.2	4.9	1.5	9.1	5.8	6.6	81	127	100.0	0.0	
c. CMD	0	0	0	0	2	0	2	-	-	0.5	1.8	-	-	-	-	2.6	-	0.6	-	13	50.0	0.0	
d. MDS & other	2	2	0	0	0	4	4	1.5	4.6	0.9	3.6	16.1	4.1	-	-	-	2.5	2.0	33	33	100.0	0.0	
e. Unspecified	1	0	0	0	0	1	1	0.4	1.1	0.2	0.9	8.0	-	-	-	-	0.6	0.5	8	8	100.0	0.0	
II LYMPHOMA & RELATED	4	4	9	13	34	30	64	11.1	100.0	15.1	100.0	32.1	8.2	14.7	20.0	44.2	15.6	22.0	239	460	93.8	0.0	
a. Hodgkin	0	1	3	6	22	10	32	3.7	33.3	7.5	50.0	-	2.0	4.9	9.2	28.6	4.9	10.2	79	222	96.9	0.0	
b. Non-Hodgkin except BL	0	2	2	5	6	9	15	3.3	30.0	3.5	23.4	-	4.1	3.3	7.7	7.8	4.5	5.3	71	110	93.3	0.0	
c. Burkitt (BL)	0	0	2	1	5	3	8	1.1	10.0	1.9	12.5	-	-	3.3	1.5	6.5	1.5	2.6	24	57	100.0	0.0	
d. Lymphoreticular	4	1	1	1	1	7	8	2.6	23.3	1.9	12.5	32.1	2.0	1.6	1.5	1.3	4.1	3.5	57	63	75.0	0.0	
e. Unspecified	0	0	1	0	0	1	1	0.4	3.3	0.2	1.6	-	-	1.6	-	-	0.5	0.4	8	8	100.0	0.0	
III CNS NEOPLASMS †	5	18	25	21	22	69	91	25.6	100.0	21.4	100.0	40.2	36.7	40.9	32.3	28.6	37.1	35.2	553	696	79.1	1.1	
a. Ependyoma	0	2	3	1	2	6	8	2.2	8.7	1.9	8.8	-	4.1	4.9	1.5	2.6	3.3	3.1	49	62	87.5	0.0	
b. Astrocytoma	3	9	4	10	9	26	35	9.6	37.7	8.2	38.5	24.1	18.4	6.6	15.4	11.7	14.1	13.6	207	266	91.4	0.0	
c. CNS embryonal	2	4	12	4	2	22	24	8.1	31.9	5.6	26.4	16.1	8.2	19.7	6.2	2.6	11.9	9.8	178	191	95.8	4.2	
d. Other gliomas	0	1	5	1	2	7	9	2.6	10.1	2.1	9.9	-	2.0	8.2	1.5	2.6	3.7	3.5	57	70	33.3	0.0	
e. Other specified	0	1	1	2	7	4	11	1.5	5.8	2.6	12.1	-	2.0	1.6	3.1	9.1	2.1	3.6	32	77	45.5	0.0	
f. Unspecified CNS	0	1	0	3	0	4	4	1.5	5.8	0.9	4.4	-	2.0	-	4.6	-	2.0	1.5	31	31	50.0	0.0	
IV NEUROBLASTOMA	9	6	0	1	1	16	17	5.9	100.0	4.0	100.0	72.3	12.2	-	1.5	1.3	9.9	8.0	130	136	100.0	0.0	
a. (Ganglio)neuroblastoma	9	6	0	1	0	16	16	5.9	100.0	3.8	94.1	72.3	12.2	-	1.5	-	9.9	7.7	130	130	100.0	0.0	
b. Peripheral nervous	0	0	0	0	1	0	1	-	-	0.2	5.9	-	-	-	-	1.3	-	0.3	-	7	7	100.0	0.0
V RETINOBLASTOMA	1	1	0	0	0	2	2	0.7	100.0	0.5	100.0	8.0	2.0	-	-	-	1.3	1.0	16	16	50.0	0.0	
VI RENAL TUMOURS	0	12	2	1	0	15	15	5.6	100.0	3.5	100.0	-	24.5	3.3	1.5	-	9.1	7.0	122	122	100.0	0.0	
a. Nephroblastoma	0	12	2	0	0	14	14	5.2	93.3	3.3	93.3	-	24.5	3.3	-	-	8.6	6.7	114	114	100.0	0.0	
b. Renal carcinoma	0	0	0	1	0	1	1	0.4	6.7	0.2	6.7	-	-	-	1.5	-	0.4	0.3	8	8	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VII HEPATIC TUMOURS	0	1	1	0	1	2	3	0.7	100.0	0.7	100.0	-	2.0	1.6	-	1.3	1.2	1.2	16	23	100.0	0.0	
a. Hepatoblastoma	0	1	1	0	0	2	2	0.7	100.0	0.5	66.7	-	2.0	1.6	-	-	1.2	0.9	16	16	100.0	0.0	
b. Hepatic carcinoma	0	0	0	0	1	0	1	-	-	0.2	33.3	-	-	-	-	1.3	-	0.3	-	7	7	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII BONE TUMOURS	0	2	4	4	11	10	21	3.7	100.0	4.9	100.0	-	4.1	6.6	6.2	14.3	5.2	7.2	80	151	90.5	4.8	
a. Osteosarcoma	0	0	2	2	8	4	12	1.5	40.0	2.8	57.1	-	-	3.3	3.1	10.4	1.9	3.9	32	84	100.0	0.0	
b. Chondrosarcoma	0	0	0	1	2	1	3	0.4	10.0	0.7	14.3	-	-	-	1.5	2.6	0.4	0.9	8	21	100.0	0.0	
c. Ewing & related	0	2	1	1	1	4	5	1.5	40.0	1.2	23.8	-	4.1	1.6	1.5	1.3	2.2	2.0	32	39	80.0	20.0	
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified	0	0	1	0	0	1	1	0.4	10.0	0.2	4.8	-	-	1.6	-	-	0.5	0.4	8	8	0.0	0.0	
IX SOFT TISSUE SARCOMA	2	3	4	17	8	26	34	9.6	100.0	8.0	100.0	16.1	6.1	6.6	26.1	10.4	12.9	12.3	204	256	100.0	0.0	
a. Rhabdomyosarcoma	0	2	2	6	1	10	11	3.7	38.5	2.6	32.4	-	4.1	3.3	9.2	1.3	5.0	4.2	79	85	100.0	0.0	
b. Fibrosarcoma	1	0	0	1	1	2	3	0.7	7.7	0.7	8.8	8.0	-	-	1.5	1.3	1.1	1.1	16	22	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	0	1	1	6	4	8	12	3.0	30.8	2.8	35.3	-	2.0	1.6	9.2	5.2	3.8	4.1	62	88	100.0	0.0	
e. Unspecified	1	0	1	4	2	6	8	2.2	23.1	1.9	23.5	8.0	-	1.6	6.2	2.6	2.9	2.9	47	60	100.0	0.0	
X GERM CELL TUMOURS	1	0	1	4	13	6	19	2.2	100.0	4.5	100.0	8.0	-	1.6	6.2	16.9	2.9	6.1	47	132	94.7	0.0	
a. CNS germ cell ‡	1	0	1	2	0	4	4	1.5	66.7	0.9	21.1	8.0	-	1.6	3.1	-	2.1	1.6	32	32	75.0	0.0	
b. Other extragonadal	0	0	0	0	1	0	1	-	-	0.2	5.3	-	-	-	-	1.3	-	0.3	-	7	7	100.0	0.0
c. Gonadal germ cell	0	0	0	2	11	2	13	0.7	33.3	3.1	68.4	-	-	-	3.1	14.3	0.9	3.9	15	87	100.0	0.0	
d. Gonadal carcinoma	0	0	0	0	1	0	1	-	-	0.2	5.3	-	-	-	-	1.3	-	0.3	-	7	7	100.0	0.0
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XI CARCINOMA & MELANOMA	0	0	1	6	41	7	48	2.6	100.0	11.3	100.0	-	-	1.6	9.2	53.3	3.2	14.5	54	321	100.0	0.0	
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
b. Thyroid	0	0	0	1	15	1	16	0.4	14.3	3.8	33.3	-	-	-	1.5	19.5	0.4	4.7	8	105	100.0	0.0	
c. Nasopharyngeal	0	0	0	0	2	0	2	-	-	0.5	4.2	-	-	-	-	2.6	-	0.6	-	13	100.0	0.0	
d. Melanoma	0	0	0	2	12	2	14	0.7	28.6	3.3	29.2	-	-	-	3.1	15.6	0.9	4.2	15	93	100.0	0.0	
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
f. Other & unspecified	0	0	1	3	12	4	16	1.5	57.1	3.8	33.3	-	-	1.6	4.6	15.6	1.9	5.0	31	109	100.0	0.0	
XII OTHER & UNSPECIFIED	0	0	0	0	1	0	1	-	-	0.2	100.0	-	-	-	-	1.3	-	0.3	-	7	7	100.0	0.0
a. Other specified	0	0	0	0	1	0	1	-	-	0.2	100.0	-	-	-	-	1.3	-	0.3	-	7	7	100.0	0.0
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL	28	85	71	86	155	270	425	100.0	100.0	100.0	100.0	224.9	173.5	116.3	132.3	201.7	147.1	159.4	2162	3171	93.4	0.5	

† includes 13 non-malignant ‡ includes 1 non-malignant

Please consult the quality indicators for this registry

USA, North Dakota (1998-2012)

	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	21	17	7	17	51	68	56.8	53.6	1.4	1.6	0	17	7	12	6	36	42	40.6	35.1		
a. Lymphoid	1	17	15	6	10	39	49	42.8	38.8	1.2	1.3	0	15	6	12	4	33	37	36.9	31.0		
b. Acute myeloid	2	2	2	1	6	7	13	7.8	9.5	2.3	3.3	0	2	1	0	1	3	4	3.7	3.5		
c. CMD	0	0	0	0	1	0	1	-	0.6	-	1.0	0	0	0	0	1	0	1	-	0.6		
d. MDS & other	2	2	0	0	0	4	4	4.9	3.8	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	1	0	0	0	0	1	1	1.2	1.0	-	-	0	0	0	0	0	0	0	-	-		
II LYMPHOMA & RELATED	3	3	7	8	15	21	36	21.5	25.1	2.3	1.3	1	1	2	5	19	9	28	9.3	18.8		
a. Hodgkin	0	1	2	4	8	7	15	6.8	9.8	2.3	0.9	0	0	1	2	14	3	17	2.9	10.8		
b. Non-Hodgkin except BL	0	2	2	3	2	7	9	7.1	6.7	3.5	1.5	0	0	0	2	4	2	6	1.8	3.9		
c. Burkitt (BL)	0	0	2	0	4	2	6	2.1	3.9	2.0	3.0	0	0	0	1	1	1	2	0.9	1.3		
d. Lymphoreticular	3	0	1	1	1	5	6	5.6	4.9	2.5	3.0	1	1	0	0	0	2	2	2.6	2.0		
e. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	1.1	0.8		
III CNS NEOPLASMS †	0	14	13	13	10	40	50	41.9	38.1	1.4	1.2	5	4	12	8	12	29	41	32.0	32.1		
a. Ependymoma	0	1	1	0	1	2	3	2.3	2.3	0.5	0.6	0	1	2	1	1	4	5	4.4	4.0		
b. Astrocytoma	0	7	3	6	5	16	21	16.9	15.9	1.6	1.5	3	2	1	4	4	10	14	11.2	11.1		
c. CNS embryonal	0	4	6	4	1	14	15	14.6	11.9	1.8	1.7	2	0	6	0	1	8	9	9.1	7.7		
d. Other gliomas	0	1	3	0	0	4	4	4.3	3.3	1.3	0.8	0	0	2	1	2	3	5	3.1	3.6		
e. Other specified	0	0	0	1	3	1	4	0.9	2.4	0.3	0.6	0	1	1	1	4	3	7	3.3	5.0		
f. Unspecified CNS	0	1	0	2	0	3	3	3.0	2.3	3.0	3.0	0	0	0	1	0	1	1	0.9	0.7		
IV NEUROBLASTOMA	5	4	0	1	1	10	11	11.9	9.8	1.7	1.8	4	2	0	0	0	6	6	7.8	6.0		
a. (Ganglio)neuroblastoma	5	4	0	1	0	10	10	11.9	9.2	1.7	1.7	4	2	0	0	0	6	6	7.8	6.0		
b. Peripheral nervous	0	0	0	0	1	0	1	-	0.6	-	-	0	0	0	0	0	0	0	-	-		
V RETINOBLASTOMA	0	0	0	0	0	0	0	-	-	0.0	0.0	1	1	0	0	0	2	2	2.6	2.0		
VI RENAL TUMOURS	0	9	1	1	0	11	11	13.0	10.0	2.8	2.8	0	3	1	0	0	4	4	5.0	3.8		
a. Nephroblastoma	0	9	1	0	0	10	10	12.1	9.4	2.5	2.5	0	3	1	0	0	4	4	5.0	3.8		
b. Renal carcinoma	0	0	0	1	0	1	1	0.9	0.7	-	-	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	0	1	1	0	0	2	2	2.3	1.8	-	2.0	0	0	0	0	1	0	1	-	0.6		
a. Hepatoblastoma	0	1	1	0	0	2	2	2.3	1.8	-	-	0	0	0	0	0	0	0	-	-		
b. Hepatic carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.6		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	1	2	2	5	5	10	5.0	6.7	1.0	0.9	0	1	2	2	6	5	11	5.3	7.8		
a. Osteosarcoma	0	0	1	1	3	2	5	1.9	3.2	1.0	0.7	0	0	1	1	5	2	7	2.0	4.6		
b. Chondrosarcoma	0	0	0	0	2	0	2	-	1.1	0.0	2.0	0	0	0	1	0	1	1	0.9	0.7		
c. Ewing & related	0	1	0	1	0	2	2	2.1	1.6	1.0	0.7	0	1	1	0	1	2	3	2.4	2.5		
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	0	0	1	0	0	1	1	1.0	0.8	-	-	0	0	0	0	0	0	0	-	-		
IX SOFT TISSUE SARCOMA	2	2	3	9	7	16	23	15.8	16.2	1.6	2.1	0	1	1	8	1	10	11	9.7	8.1		
a. Rhabdomyosarcoma	0	1	1	4	1	6	7	5.7	5.0	1.5	1.8	0	1	1	2	0	4	4	4.2	3.3		
b. Fibrosarcoma	1	0	0	1	1	2	3	2.1	2.2	-	-	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	1	1	4	3	6	9	5.7	6.1	3.0	3.0	0	0	0	2	1	2	3	1.8	2.0		
e. Unspecified	1	0	1	0	2	2	4	2.3	2.9	0.5	1.0	0	0	0	4	0	4	4	3.7	2.8		
X GERM CELL TUMOURS	0	0	1	3	9	4	13	3.6	7.9	2.0	2.2	1	0	0	1	4	2	6	2.2	4.2		
a. CNS germ cell ‡	0	0	1	2	0	3	3	2.8	2.1	3.0	3.0	1	0	0	0	0	1	1	1.3	1.0		
b. Other extragonadal	0	0	0	0	1	0	1	-	0.6	-	-	0	0	0	0	0	0	0	-	-		
c. Gonadal germ cell	0	0	0	1	8	1	9	0.9	5.2	1.0	2.3	0	0	0	1	3	1	4	0.9	2.5		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.6		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
XI CARCINOMA & MELANOMA	0	0	0	1	13	1	14	0.9	8.0	0.2	0.4	0	0	1	5	28	6	34	5.7	21.5		
a. Adrenocortical	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
b. Thyroid	0	0	0	0	2	0	2	-	1.1	0.0	0.1	0	0	0	1	13	1	14	0.9	8.6		
c. Nasopharyngeal	0	0	0	0	1	0	1	-	0.6	-	1.0	0	0	0	0	1	0	1	-	0.6		
d. Melanoma	0	0	0	0	5	0	5	-	2.8	0.0	0.6	0	0	0	2	7	2	9	1.8	5.7		
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
f. Other & unspecified	0	0	0	1	5	1	6	0.9	3.5	0.3	0.6	0	0	1	2	7	3	10	2.9	6.5		
XII OTHER & UNSPECIFIED	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.6		
a. Other specified	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.6		
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
TOTAL	16	55	45	45	77	161	238	172.8	177.3	1.5	1.3	12	30	26	41	78	109	187	120.1	140.6		

† includes 5 non-malignant in males and 8 non-malignant in females ‡ includes 1 non-malignant in females

Please consult the quality indicators for this registry

USA, North Dakota (1998-2012)

	Age group	Males	Females
Person-years	0	64 406	60 106
	1-4	250 513	239 496
	5-9	313 015	297 543
	10-14	333 759	316 452
	15-19	399 476	369 114
Total	0-14	961 693	913 597
	0-19	1 361 169	1 282 711
Average annual population	0-14	64 113	60 906
	0-19	90 745	85 514

Please consult the quality indicators for this registry