

USA, North Dakota, 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	ASR			0-19	0-14
I LEUKAEMIA	5	32	18	19	22	74	96	32.0	100.0	25.8	100.0	49.0	78.5	34.6	33.7	32.4	49.1	45.3	705	867	99.0	0.0
a. Lymphoid	1	28	16	18	14	63	77	27.3	85.1	20.7	80.2	9.8	68.7	30.8	31.9	20.6	41.2	36.6	598	701	100.0	0.0
b. Acute myeloid	2	3	2	1	6	8	14	3.5	10.8	3.8	14.6	19.6	7.4	3.8	1.8	8.8	5.6	6.3	77	121	100.0	0.0
c. CMD	0	0	0	0	2	0	2	-	-	0.5	2.1	-	-	-	-	2.9	-	0.7	-	15	50.0	0.0
d. MDS & other	1	1	0	0	0	2	2	0.9	2.7	0.5	2.1	9.8	2.5	-	-	-	1.5	1.2	20	20	100.0	0.0
e. Unspecified	1	0	0	0	0	1	1	0.4	1.4	0.3	1.0	9.8	-	-	-	-	0.8	0.6	10	10	100.0	0.0
II LYMPHOMA & RELATED	3	2	9	13	30	27	57	11.7	100.0	15.3	100.0	29.4	4.9	17.3	23.0	44.2	16.1	22.4	251	472	93.0	0.0
a. Hodgkin	0	0	3	6	19	9	28	3.9	33.3	7.5	49.1	-	-	5.8	10.6	28.0	4.9	10.1	82	222	96.4	0.0
b. Non-Hodgkin except BL	0	1	2	5	5	8	13	3.5	29.6	3.5	22.8	-	2.5	3.8	8.9	7.4	4.6	5.2	73	110	92.3	0.0
c. Burkitt (BL)	0	0	2	1	5	3	8	1.3	11.1	2.2	14.0	-	-	3.8	1.8	7.4	1.8	3.0	28	65	100.0	0.0
d. Lymphoreticular	3	1	1	1	1	6	7	2.6	22.2	1.9	12.3	29.4	2.5	1.9	1.8	1.5	4.2	3.6	58	65	71.4	0.0
e. Unspecified	0	0	1	0	0	1	1	0.4	3.7	0.3	1.8	-	-	1.9	-	-	0.6	0.5	10	10	100.0	0.0
III CNS NEOPLASMS †	5	16	23	19	18	63	81	27.3	100.0	21.8	100.0	49.0	39.3	44.2	33.7	26.5	40.0	37.0	596	728	79.0	1.2
a. Ependymoma	0	2	2	1	2	5	7	2.2	7.9	1.9	8.6	-	4.9	3.8	1.8	2.9	3.3	3.2	48	62	85.7	0.0
b. Astrocytoma	3	8	4	9	7	24	31	10.4	38.1	8.3	38.3	29.4	19.6	7.7	15.9	10.3	15.5	14.3	226	278	90.3	0.0
c. CNS embryonal	2	3	11	4	2	20	22	8.7	31.7	5.9	27.2	19.6	7.4	21.2	7.1	2.9	12.7	10.5	190	205	95.5	4.5
d. Other gliomas	0	1	5	0	1	6	7	2.6	9.5	1.9	8.6	-	2.5	9.6	-	1.5	3.9	3.3	58	65	28.6	0.0
e. Other specified	0	1	1	2	6	4	10	1.7	6.3	2.7	12.3	-	2.5	1.9	3.5	8.8	2.4	3.9	37	81	50.0	0.0
f. Unspecified CNS	0	1	0	3	0	4	4	1.7	6.3	1.1	4.9	-	2.5	-	5.3	-	2.3	1.8	36	36	50.0	0.0
IV NEUROBLASTOMA	6	5	0	0	1	11	12	4.8	100.0	3.2	100.0	58.8	12.3	-	-	1.5	8.4	6.8	108	115	100.0	0.0
a. (Ganglio)neuroblastoma	6	5	0	0	0	11	11	4.8	100.0	3.0	91.7	58.8	12.3	-	-	-	8.4	6.5	108	108	100.0	0.0
b. Peripheral nervous	0	0	0	0	1	0	1	-	-	0.3	8.3	-	-	-	-	1.5	-	0.3	-	7	100.0	0.0
V RETINOBLASTOMA	1	1	0	0	0	2	2	0.9	100.0	0.5	100.0	9.8	2.5	-	-	-	1.5	1.2	20	20	50.0	0.0
VI RENAL TUMOURS	0	10	2	1	0	13	13	5.6	100.0	3.5	100.0	-	24.5	3.8	1.8	-	9.4	7.2	126	126	100.0	0.0
a. Nephroblastoma	0	10	2	0	0	12	12	5.2	92.3	3.2	92.3	-	24.5	3.8	-	-	8.8	6.8	117	117	100.0	0.0
b. Renal carcinoma	0	0	0	1	0	1	1	0.4	7.7	0.3	7.7	-	-	-	1.8	-	0.5	0.4	9	9	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VII HEPATIC TUMOURS	0	1	1	0	1	2	3	0.9	100.0	0.8	100.0	-	2.5	1.9	-	1.5	1.4	1.4	19	27	100.0	0.0
a. Hepatoblastoma	0	1	1	0	0	2	2	0.9	100.0	0.5	66.7	-	2.5	1.9	-	-	1.4	1.1	19	19	100.0	0.0
b. Hepatic carcinoma	0	0	0	0	1	0	1	-	-	0.3	33.3	-	-	-	-	1.5	-	0.3	-	7	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII BONE TUMOURS	0	1	4	2	9	7	16	3.0	100.0	4.3	100.0	-	2.5	7.7	3.5	13.3	4.3	6.3	66	132	93.8	0.0
a. Osteosarcoma	0	0	2	0	7	2	9	0.9	28.6	2.4	56.3	-	-	3.8	-	10.3	1.2	3.3	19	71	100.0	0.0
b. Chondrosarcoma	0	0	0	1	2	1	3	0.4	14.3	0.8	18.8	-	-	-	1.8	2.9	0.5	1.1	9	24	100.0	0.0
c. Ewing & related	0	1	1	1	0	3	3	1.3	42.9	0.8	18.8	-	2.5	1.9	1.8	-	1.9	1.5	28	28	100.0	0.0
d. Other specified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e. Unspecified	0	0	1	0	0	1	1	0.4	14.3	0.3	6.3	-	-	1.9	-	-	0.6	0.5	10	10	0.0	0.0
IX SOFT TISSUE SARCOMA	2	1	3	16	8	22	30	9.5	100.0	8.1	100.0	19.6	2.5	5.8	28.3	11.8	12.4	12.2	200	259	100.0	0.0
a. Rhabdomyosarcoma	0	1	1	6	1	8	9	3.5	36.4	2.4	30.0	-	2.5	1.9	10.6	1.5	4.5	3.8	73	80	100.0	0.0
b. Fibrosarcoma	1	0	0	1	1	2	3	0.9	9.1	0.8	10.0	9.8	-	-	1.8	1.5	1.3	1.3	19	26	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Other specified	0	0	1	5	4	6	10	2.6	27.3	2.7	33.3	-	-	1.9	8.9	5.9	3.2	3.8	54	83	100.0	0.0
e. Unspecified	1	0	1	4	2	6	8	2.6	27.3	2.2	26.7	9.8	-	1.9	7.1	2.9	3.4	3.3	55	70	100.0	0.0
X GERM CELL TUMOURS	1	0	0	2	13	3	16	1.3	100.0	4.3	100.0	9.8	-	-	3.5	19.2	1.8	5.7	28	123	93.8	0.0
a. CNS germ cell ‡	1	0	0	1	0	2	2	0.9	66.7	0.5	12.5	9.8	-	-	1.8	-	1.3	1.0	19	19	50.0	0.0
b. Other extragonadal	0	0	0	0	1	0	1	-	-	0.3	6.3	-	-	-	-	1.5	-	0.3	-	7	100.0	0.0
c. Gonadal germ cell	0	0	0	1	11	1	12	0.4	33.3	3.2	75.0	-	-	-	1.8	16.2	0.5	4.0	9	90	100.0	0.0
d. Gonadal carcinoma	0	0	0	0	1	0	1	-	-	0.3	6.3	-	-	-	-	1.5	-	0.3	-	7	100.0	0.0
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XI CARCINOMA & MELANOMA	0	0	1	6	38	7	45	3.0	100.0	12.1	100.0	-	-	1.9	10.6	56.0	3.7	15.5	63	343	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	4.3	35.6	-	-	-	1.8	22.1	0.5	5.4	9	119	100.0	0.0
c. Nasopharyngeal	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Melanoma	0	0	0	2	12	2	14	0.9	28.6	3.8	31.1	-	-	-	3.5	17.7	1.0	4.8	18	106	100.0	0.0
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f. Other & unspecified	0	0	1	3	11	4	15	1.7	57.1	4.0	33.3	-	-	1.9	5.3	16.2	2.2	5.3	36	117	100.0	0.0
XII OTHER & UNSPECIFIED	0	0	0	0	1	0	1	-	-	0.3	100.0	-	-	-	-	1.5	-	0.3	-	7	100.0	0.0
a. Other specified	0	0	0	0	1	0	1	-	-	0.3	100.0	-	-	-	-	1.5	-	0.3	-	7	100.0	0.0
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	23	69	61	78	141	231	372	100.0	100.0	100.0	100.0	225.4	169.3	117.4	138.2	207.8	147.9	161.3	2181	3219	93.3	0.3

† includes 12 non-malignant ‡ includes 1 non-malignant

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	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	5	15	11	7	16	38	54	50.0	49.0	1.1	1.3	0	17	7	12	6	36	42	48.1	41.4		
a. Lymphoid	1	13	10	6	10	30	40	38.9	36.5	0.9	1.1	0	15	6	12	4	33	37	43.7	36.6		
b. Acute myeloid	2	1	1	1	5	5	10	6.7	8.4	1.7	2.5	0	2	1	0	1	3	4	4.4	4.1		
c. CMD	0	0	0	0	1	0	1	-	0.6	-	1.0	0	0	0	0	1	0	1	-	0.7		
d. MDS & other	1	1	0	0	0	2	2	3.0	2.3	0	-	0	0	0	0	0	0	0	-	-		
e. Unspecified	1	0	0	0	0	1	1	1.5	1.2	-	-	0	0	0	0	0	0	0	-	-		
II LYMPHOMA & RELATED	2	1	7	8	12	18	30	20.9	23.9	2.0	1.1	1	1	2	5	18	9	27	10.9	20.9		
a. Hodgkin	0	0	2	4	6	6	12	6.4	8.8	2.0	0.8	0	0	1	2	13	3	16	3.4	11.6		
b. Non-Hodgkin except BL	0	1	2	3	1	6	7	6.9	6.0	3.0	1.2	0	0	0	2	4	2	6	2.1	4.4		
c. Burkitt (BL)	0	0	2	0	4	2	6	2.4	4.4	2.0	3.0	0	0	0	1	1	1	2	1.1	1.5		
d. Lymphoreticular	2	0	1	1	1	4	5	5.2	4.7	2.0	2.5	1	1	0	0	0	2	2	3.1	2.4		
e. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	1.3	1.0		
III CNS NEOPLASMS †	0	12	11	13	10	36	46	44.1	40.6	1.3	1.3	5	4	12	6	8	27	35	35.6	33.1		
a. Ependymoma	0	1	0	0	1	1	2	1.5	1.8	0.3	0.4	0	1	2	1	1	4	5	5.2	4.7		
b. Astrocytoma	0	6	3	6	5	15	20	18.5	17.6	1.7	1.8	3	2	1	3	2	9	11	12.2	10.9		
c. CNS embryonal	0	3	5	4	1	12	13	14.5	11.9	1.5	1.4	2	0	6	0	1	8	9	10.8	9.0		
d. Other gliomas	0	1	3	0	0	4	4	5.1	4.0	2.0	1.3	0	0	2	0	1	2	3	2.5	2.7		
e. Other specified	0	0	0	1	3	1	4	1.0	2.7	0.3	0.7	0	1	1	1	3	3	6	3.9	5.1		
f. Unspecified CNS	0	1	0	2	0	3	3	3.5	2.7	3.0	3.0	0	0	0	1	0	1	1	1.1	0.8		
IV NEUROBLASTOMA	3	4	0	0	1	7	8	10.4	8.7	1.8	2.0	3	1	0	0	0	4	4	6.2	4.8		
a. (Ganglio)neuroblastoma	3	4	0	0	0	7	7	10.4	8.1	1.8	1.8	3	1	0	0	0	4	4	6.2	4.8		
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	3.1	2.4		
VI RENAL TUMOURS	0	7	1	1	0	9	9	12.6	9.8	2.3	2.3	0	3	1	0	0	4	4	5.9	4.6		
a. Nephroblastoma	0	7	1	0	0	8	8	11.6	9.0	2.0	2.0	0	3	1	0	0	4	4	5.9	4.6		
b. Renal carcinoma	0	0	0	1	0	1	1	1.0	0.8	-	-	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	2.7	2.1	-	2.0	0	0	0	0	1	0	1	-	0.7		
a. Hepatoblastoma	0	1	1	0	0	2	2	2.7	2.1	-	-	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	-	0.7		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	0	2	1	5	3	8	3.4	5.8	0.8	1.0	0	1	2	1	4	4	8	5.2	6.8		
a. Osteosarcoma	0	0	1	0	3	1	4	1.2	2.9	1.0	0.8	0	0	1	0	4	1	5	1.3	3.7		
b. Chondrosarcoma	0	0	0	0	2	0	2	-	1.3	0.0	2.0	0	0	0	1	0	1	1	1.1	0.8		
c. Ewing & related	0	0	0	1	0	1	1	1.0	0.8	0.5	0.5	0	1	1	0	0	2	2	2.8	2.2		
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	1.2	0.9	-	-	0	0	0	0	0	0	0	-	-		
IX SOFT TISSUE SARCOMA	2	1	3	9	7	15	22	17.1	17.7	2.1	2.8	0	0	0	7	1	7	8	7.4	6.4		
a. Rhabdomyosarcoma	0	1	1	4	1	6	7	6.7	5.8	3.0	3.5	0	0	0	2	0	2	2	2.1	1.6		
b. Fibrosarcoma	1	0	0	1	1	2	3	2.5	2.6	-	-	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	0	1	4	3	5	8	5.2	6.0	5.0	4.0	0	0	0	1	1	1	2	1.1	1.5		
e. Unspecified	1	0	1	0	2	2	4	2.7	3.4	0.5	1.0	0	0	0	4	0	4	4	4.2	3.3		
X GERM CELL TUMOURS	0	0	0	1	9	1	10	1.0	6.5	0.5	1.7	1	0	0	1	4	2	6	2.6	4.8		
a. CNS germ cell ‡	0	0	0	1	0	1	1	1.0	0.8	1.0	1.0	1	0	0	0	0	1	1	1.6	1.2		
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	0	8	0	8	-	5.1	0.0	2.0	0	0	0	1	3	1	4	1.1	2.9		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.7		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
XI CARCINOMA & MELANOMA	0	0	0	1	12	1	13	1.0	8.4	0.2	0.4	0	0	1	5	26	6	32	6.6	23.0		
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	-	1.3	0.0	0.1	0	0	0	1	13	1	14	1.1	9.8		
c. Nasopharyngeal	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Melanoma	0	0	0	0	5	0	5	-	3.2	0.0	0.6	0	0	0	2	7	2	9	2.1	6.5		
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	1.0	4.0	0.3	0.7	0	0	1	2	6	3	9	3.4	6.8		
XII OTHER & UNSPECIFIED	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.7		
a. Other specified	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.7		
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
TOTAL	12	41	36	41	72	130	202	163.3	172.6	1.3	1.2	11	28	25	37	69	101	170	131.6	149.6		

† includes 5 non-malignant in males and 7 non-malignant in females ‡ includes 1 non-malignant in females

Please consult the quality indicators for this registry

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	Age group	Males	Females
Person-years	0	52 423	49 602
	1-4	208 364	199 176
	5-9	266 540	253 271
	10-14	289 808	274 569
	15-19	352 095	326 566
Total	0-14	817 135	776 618
	0-19	1 169 230	1 103 184
Average annual population	0-14	54 476	51 775
	0-19	77 949	73 546

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