

USA, North Carolina, Black (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	13	79	45	64	43	201	244	23.8	100.0	19.3	100.0	29.3	43.8	19.2	25.9	17.1	29.5	26.7	430	515	98.0	0.0
a. Lymphoid	6	54	32	37	18	129	147	15.3	64.2	11.6	60.2	13.5	30.0	13.6	15.0	7.1	19.1	16.4	276	312	99.3	0.0
b. Acute myeloid	6	19	12	17	18	54	72	6.4	26.9	5.7	29.5	13.5	10.5	5.1	6.9	7.1	7.9	7.8	116	151	98.6	0.0
c. CMD	0	1	0	4	4	5	9	0.6	2.5	0.7	3.7	-	0.6	-	1.6	1.6	0.6	0.9	10	18	77.8	0.0
d. MDS & other	1	2	1	2	2	6	8	0.7	3.0	0.6	3.3	2.3	1.1	0.4	0.8	0.8	0.9	0.9	13	17	100.0	0.0
e. Unspecified	0	3	0	4	1	7	8	0.8	3.5	0.6	3.3	-	1.7	-	1.6	0.4	1.0	0.9	15	17	87.5	0.0
II LYMPHOMA & RELATED	2	4	27	61	121	94	215	11.1	100.0	17.0	100.0	4.5	2.2	11.5	24.7	48.0	11.9	20.0	194	434	100.0	0.0
a. Hodgkin	0	0	8	26	67	34	101	4.0	36.2	8.0	47.0	-	-	3.4	10.5	26.6	4.1	9.2	70	203	100.0	0.0
b. Non-Hodgkin except BL	0	1	15	32	49	48	97	5.7	51.1	7.7	45.1	-	0.6	6.4	12.9	19.5	6.0	9.0	99	196	100.0	0.0
c. Burkitt (BL)	0	1	4	3	2	8	10	0.9	8.5	0.8	4.7	-	0.6	1.7	1.2	0.8	1.1	1.0	17	21	100.0	0.0
d. Lymphoreticular	2	2	0	0	0	4	4	0.5	4.3	0.3	1.9	4.5	1.1	-	-	-	0.7	0.5	9	9	100.0	0.0
e. Unspecified	0	0	0	0	3	0	3	-	-	0.2	1.4	-	-	-	-	1.2	-	0.3	-	6	100.0	0.0
III CNS NEOPLASMS †	19	68	61	48	68	196	264	23.2	100.0	20.9	100.0	42.8	37.7	26.0	19.4	27.0	29.0	28.5	420	555	81.4	0.8
a. Ependymoma	3	12	3	4	4	22	26	2.6	11.2	2.1	9.8	6.8	6.7	1.3	1.6	1.6	3.5	3.0	48	56	88.5	0.0
b. Astrocytoma	4	25	31	22	25	82	107	9.7	41.8	8.5	40.5	9.0	13.9	13.2	8.9	9.9	11.8	11.4	175	225	90.7	0.0
c. CNS embryonal	6	13	5	5	4	29	33	3.4	14.8	2.6	12.5	13.5	7.2	2.1	2.0	1.6	4.5	3.9	63	71	100.0	0.0
d. Other gliomas	2	11	13	6	6	32	38	3.8	16.3	3.0	14.4	4.5	6.1	5.5	2.4	2.4	4.7	4.2	69	81	47.4	0.0
e. Other specified	2	6	7	9	26	24	50	2.8	12.2	4.0	18.9	4.5	3.3	3.0	3.6	10.3	3.4	5.0	51	102	82.0	0.0
f. Unspecified CNS	2	1	2	2	3	7	10	0.8	3.6	0.8	3.8	4.5	0.6	0.9	0.8	1.2	1.0	1.1	15	21	30.0	20.0
IV NEUROBLASTOMA	13	24	7	1	2	45	47	5.3	100.0	3.7	100.0	29.3	13.3	3.0	0.4	0.8	7.5	6.0	99	103	100.0	0.0
a. (Ganglio)neuroblastoma	13	24	7	1	1	45	46	5.3	100.0	3.6	97.9	29.3	13.3	3.0	0.4	0.4	7.5	5.9	99	101	100.0	0.0
b. Peripheral nervous	0	0	0	0	1	0	1	-	-	0.1	2.1	-	-	-	-	0.4	-	0.1	-	2	100.0	0.0
V RETINOBLASTOMA	18	15	1	0	0	34	34	4.0	100.0	2.7	100.0	40.5	8.3	0.4	-	-	5.8	4.5	76	76	76.5	0.0
VI RENAL TUMOURS	4	52	20	3	10	79	89	9.4	100.0	7.1	100.0	9.0	28.9	8.5	1.2	4.0	12.7	10.8	173	193	98.9	0.0
a. Nephroblastoma	4	49	19	1	2	73	75	8.6	92.4	5.9	84.3	9.0	27.2	8.1	0.4	0.8	11.9	9.4	160	164	100.0	0.0
b. Renal carcinoma	0	2	1	2	8	5	13	0.6	6.3	1.0	14.6	-	1.1	0.4	0.8	3.2	0.7	1.3	11	27	92.3	0.0
c. Unspecified	0	1	0	0	0	1	1	0.1	1.3	0.1	1.1	-	0.6	-	-	-	0.2	0.1	2	2	100.0	0.0
VII HEPATIC TUMOURS	3	5	3	0	3	11	14	1.3	100.0	1.1	100.0	6.8	2.8	1.3	-	1.2	1.8	1.7	24	30	85.7	0.0
a. Hepatoblastoma	3	5	1	0	1	9	10	1.1	81.8	0.8	71.4	6.8	2.8	0.4	-	0.4	1.5	1.3	20	22	80.0	0.0
b. Hepatic carcinoma	0	0	2	0	2	2	4	0.2	18.2	0.3	28.6	-	-	0.9	-	0.8	0.3	0.4	4	8	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII BONE TUMOURS	0	0	13	26	38	39	77	4.6	100.0	6.1	100.0	-	-	5.5	10.5	15.1	4.8	7.1	80	156	96.1	0.0
a. Osteosarcoma	0	0	9	20	26	29	55	3.4	74.4	4.4	71.4	-	-	3.8	8.1	10.3	3.6	5.1	60	111	96.4	0.0
b. Chondrosarcoma	0	0	0	0	1	0	1	-	-	0.1	1.3	-	-	-	-	0.4	-	0.1	-	2	0.0	0.0
c. Ewing & related	0	0	4	2	3	6	9	0.7	15.4	0.7	11.7	-	-	1.7	0.8	1.2	0.8	0.9	13	19	100.0	0.0
d. Other specified	0	0	0	3	6	3	9	0.4	7.7	0.7	11.7	-	-	-	1.2	2.4	0.4	0.8	6	18	100.0	0.0
e. Unspecified	0	0	0	1	2	1	3	0.1	2.6	0.2	3.9	-	-	-	0.4	0.8	0.1	0.3	2	6	100.0	0.0
IX SOFT TISSUE SARCOMA	2	10	16	30	44	58	102	6.9	100.0	8.1	100.0	4.5	5.5	6.8	12.1	17.5	7.8	10.0	121	209	98.0	0.0
a. Rhabdomyosarcoma	2	7	6	9	9	24	33	2.8	41.4	2.6	32.4	4.5	3.9	2.6	3.6	3.6	3.4	3.5	51	69	97.0	0.0
b. Fibrosarcoma	0	1	1	3	4	5	9	0.6	8.6	0.7	8.8	-	0.6	0.4	1.2	1.6	0.7	0.9	10	18	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Other specified	0	1	4	12	26	17	43	2.0	29.3	3.4	42.2	-	0.6	1.7	4.8	10.3	2.1	4.0	35	87	97.7	0.0
e. Unspecified	0	1	5	6	5	12	17	1.4	20.7	1.3	16.7	-	0.6	2.1	2.4	2.0	1.6	1.7	25	35	100.0	0.0
X GERM CELL TUMOURS	11	3	7	19	29	40	69	4.7	100.0	5.5	100.0	24.8	1.7	3.0	7.7	11.5	5.6	6.9	84	142	95.7	0.0
a. CNS germ cell ‡	2	1	2	4	6	9	15	1.1	22.5	1.2	21.7	4.5	0.6	0.9	1.6	2.4	1.3	1.5	19	31	86.7	0.0
b. Other extragonadal	7	2	0	1	5	10	15	1.2	25.0	1.2	21.7	15.8	1.1	-	0.4	2.0	1.7	1.7	22	32	93.3	0.0
c. Gonadal germ cell	2	0	5	14	14	21	35	2.5	52.5	2.8	50.7	4.5	-	2.1	5.7	5.6	2.7	3.3	43	71	100.0	0.0
d. Gonadal carcinoma	0	0	0	0	2	0	2	-	-	0.2	2.9	-	-	-	-	0.8	-	0.2	-	4	100.0	0.0
e. Unspecified gonadal	0	0	0	0	2	0	2	-	-	0.2	2.9	-	-	-	-	0.8	-	0.2	-	4	100.0	0.0
XI CARCINOMA & MELANOMA	1	1	6	33	54	41	95	4.9	100.0	7.5	100.0	2.3	0.6	2.6	13.3	21.4	5.0	8.7	84	191	100.0	0.0
a. Adrenocortical	0	0	0	1	0	1	1	0.1	2.4	0.1	1.1	-	-	-	0.4	-	0.1	0.1	2	2	100.0	0.0
b. Thyroid	0	0	1	9	16	10	26	1.2	24.4	2.1	27.4	-	-	0.4	3.6	6.4	1.2	2.4	20	52	100.0	0.0
c. Nasopharyngeal	0	0	0	6	6	6	12	0.7	14.6	1.0	12.6	-	-	-	2.4	2.4	0.7	1.1	12	24	100.0	0.0
d. Melanoma	1	0	1	1	4	3	7	0.4	7.3	0.6	7.4	2.3	-	0.4	0.4	1.6	0.4	0.7	6	14	100.0	0.0
e. Skin carcinoma	0	0	2	0	1	2	3	0.2	4.9	0.2	3.2	-	-	0.9	-	0.4	0.3	0.3	4	6	100.0	0.0
f. Other & unspecified	0	1	2	16	27	19	46	2.3	46.3	3.6	48.4	-	0.6	0.9	6.5	10.7	2.3	4.2	39	92	100.0	0.0
XII OTHER & UNSPECIFIED	3	1	2	0	6	6	12	0.7	100.0	1.0	100.0	6.8	0.6	0.9	-	2.4	1.0	1.3	13	25	75.0	16.7
a. Other specified	0	1	1	0	2	2	4	0.2	33.3	0.3	33.3	-	0.6	0.4	-	0.8	0.3	0.4	4	8	100.0	0.0
b. Other unspecified	3	0	1	0	4	4	8	0.5	66.7	0.6	66.7	6.8	-	0.4	-	1.6	0.7	0.9	9	17	62.5	25.0
TOTAL	89	262	208	285	418	844	1262	100.0	100.0	100.0	100.0	200.3	145.4	88.5	115.2	165.9	122.5	132.3	1800	2629	94.0	0.3

† includes 56 non-malignant ‡ includes 1 non-malignant

Please consult the quality indicators for this registry

USA, North Carolina, Black (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	7	41	25	35	28	108	136	31.2	29.1	1.2	1.3	6	38	20	29	15	93	108	27.9	24.3		
a. Lymphoid	3	29	22	21	17	75	92	21.7	19.8	1.4	1.7	3	25	10	16	1	54	55	16.4	12.9		
b. Acute myeloid	3	10	3	8	9	24	33	7.1	7.1	0.8	0.8	3	9	9	9	9	30	39	8.9	8.5		
c. CMD	0	0	0	2	2	2	4	0.5	0.7	0.7	0.8	0	1	0	2	2	3	5	0.8	1.0		
d. MDS & other	1	1	0	2	0	4	4	1.1	0.9	2.0	1.0	0	1	1	0	2	2	4	0.6	0.8		
e. Unspecified	0	1	0	2	0	3	3	0.8	0.6	0.8	0.6	0	2	0	2	1	4	5	1.2	1.1		
II LYMPHOMA & RELATED	1	4	21	39	58	65	123	16.4	23.0	2.2	1.3	1	0	6	22	63	29	92	7.3	17.0		
a. Hodgkin	0	0	7	12	25	19	44	4.7	8.0	1.3	0.8	0	0	1	14	42	15	57	3.6	10.4		
b. Non-Hodgkin except BL	0	1	10	24	30	35	65	8.6	12.0	2.7	2.0	0	0	5	8	19	13	32	3.3	6.0		
c. Burkitt (BL)	0	1	4	3	1	8	9	2.1	1.8	-	9.0	0	0	0	0	1	0	1	-	0.2		
d. Lymphoreticular	1	2	0	0	0	3	3	1.0	0.8	3.0	3.0	1	0	0	0	0	1	1	0.3	0.3		
e. Unspecified	0	0	0	0	2	0	2	-	0.4	-	2.0	0	0	0	0	1	0	1	-	0.2		
III CNS NEOPLASMS †	9	40	32	21	37	102	139	30.2	29.9	1.1	1.1	10	28	29	27	31	94	125	27.8	27.1		
a. Ependymoma	2	10	2	2	0	16	16	5.1	3.9	2.7	1.6	1	2	1	2	4	6	10	1.8	2.1		
b. Astrocytoma	1	12	20	12	16	45	61	12.6	12.6	1.2	1.3	3	13	11	10	9	37	46	11.0	10.2		
c. CNS embryonal	4	9	2	2	4	17	21	5.4	4.9	1.4	1.8	2	4	3	3	0	12	12	3.6	2.8		
d. Other gliomas	1	5	6	0	5	12	17	3.7	3.7	0.6	0.8	1	6	7	6	1	20	21	5.8	4.7		
e. Other specified	0	4	2	4	10	10	20	2.8	4.0	0.7	0.7	2	2	5	5	16	14	30	4.0	6.0		
f. Unspecified CNS	1	0	0	1	2	2	4	0.6	0.8	0.4	0.7	1	1	2	1	1	5	6	1.5	1.3		
IV NEUROBLASTOMA	7	13	4	0	1	24	25	7.9	6.3	1.1	1.1	6	11	3	1	1	21	22	7.0	5.6		
a. (Ganglio)neuroblastoma	7	13	4	0	0	24	24	7.9	6.1	1.1	1.1	6	11	3	1	1	21	22	7.0	5.6		
b. Peripheral nervous	0	0	0	0	1	0	1	-	0.2	-	-	0	0	0	0	0	0	0	-	-		
V RETINOBLASTOMA	12	6	0	0	0	18	18	6.1	4.7	1.1	1.1	6	9	1	0	0	16	16	5.5	4.3		
VI RENAL TUMOURS	1	23	13	2	4	39	43	12.1	10.1	1.0	0.9	3	29	7	1	6	40	46	13.4	11.4		
a. Nephroblastoma	1	20	12	0	2	33	35	10.4	8.4	0.8	0.9	3	29	7	1	0	40	40	13.4	10.4		
b. Renal carcinoma	0	2	1	2	2	5	7	1.4	1.4	-	1.2	0	0	0	0	6	0	6	-	1.1		
c. Unspecified	0	1	0	0	0	1	1	0.3	0.3	-	-	0	0	0	0	0	0	0	-	-		
VII HEPATIC TUMOURS	3	4	1	0	1	8	9	2.6	2.2	2.7	1.8	0	1	2	0	2	3	5	0.9	1.1		
a. Hepatoblastoma	3	4	0	0	0	7	7	2.4	1.8	3.5	2.3	0	1	1	0	1	2	3	0.6	0.7		
b. Hepatic carcinoma	0	0	1	0	1	1	2	0.3	0.4	1.0	1.0	0	0	1	0	1	1	2	0.3	0.4		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	0	6	11	22	17	39	4.2	7.1	0.8	1.0	0	0	7	15	16	22	38	5.5	7.2		
a. Osteosarcoma	0	0	5	10	17	15	32	3.7	5.8	1.1	1.4	0	0	4	10	9	14	23	3.5	4.3		
b. Chondrosarcoma	0	0	0	0	1	0	1	-	0.2	-	-	0	0	0	0	0	0	0	-	-		
c. Ewing & related	0	0	1	1	1	2	3	0.5	0.6	0.5	0.5	0	0	3	1	2	4	6	1.1	1.2		
d. Other specified	0	0	0	0	2	0	2	-	0.4	0.0	0.3	0	0	0	3	4	3	7	0.7	1.3		
e. Unspecified	0	0	0	0	1	0	1	-	0.2	0.0	0.5	0	0	0	1	1	1	2	0.2	0.4		
IX SOFT TISSUE SARCOMA	2	7	11	10	23	30	53	8.3	10.5	1.1	1.1	0	3	5	20	21	28	49	7.2	9.4		
a. Rhabdomyosarcoma	2	6	3	5	7	16	23	4.7	4.9	2.0	2.3	0	1	3	4	2	8	10	2.1	2.0		
b. Fibrosarcoma	0	1	0	0	3	1	4	0.3	0.8	0.3	0.8	0	0	1	3	1	4	5	1.0	1.0		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	0	0	3	3	8	6	14	1.5	2.6	0.5	0.5	0	1	1	9	18	11	29	2.8	5.4		
e. Unspecified	0	0	5	2	5	7	12	1.8	2.3	1.4	2.4	0	1	0	4	0	5	5	1.3	1.0		
X GERM CELL TUMOURS	5	2	2	3	6	12	18	3.6	3.9	0.4	0.4	6	1	5	16	23	28	51	7.7	10.1		
a. CNS germ cell ‡	2	1	2	3	3	8	11	2.3	2.3	8.0	2.8	0	0	0	1	3	1	4	0.2	0.7		
b. Other extragonadal	3	1	0	0	1	4	5	1.4	1.2	0.7	0.5	4	1	0	1	4	6	10	2.0	2.3		
c. Gonadal germ cell	0	0	0	0	2	0	2	-	0.4	0.0	0.1	2	0	5	14	12	21	33	5.4	6.4		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	2	0	2	-	0.4		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	2	0	2	-	0.4		
XI CARCINOMA & MELANOMA	1	1	3	9	23	14	37	3.6	6.8	0.5	0.6	0	0	3	24	31	27	58	6.6	10.7		
a. Adrenocortical	0	0	0	1	0	1	1	0.2	0.2	-	-	0	0	0	0	0	0	0	-	-		
b. Thyroid	0	0	0	1	3	1	4	0.2	0.7	0.1	0.2	0	0	1	8	13	9	22	2.2	4.0		
c. Nasopharyngeal	0	0	0	3	3	3	6	0.7	1.1	1.0	1.0	0	0	0	3	3	3	6	0.7	1.1		
d. Melanoma	1	0	1	0	3	2	5	0.6	1.0	2.0	2.5	0	0	0	1	1	1	2	0.2	0.4		
e. Skin carcinoma	0	0	1	0	0	1	1	0.3	0.2	1.0	0.5	0	0	1	0	1	1	2	0.3	0.4		
f. Other & unspecified	0	1	1	4	14	6	20	1.5	3.7	0.5	0.8	0	0	1	12	13	13	26	3.1	4.8		
XII OTHER & UNSPECIFIED	3	1	0	0	0	4	4	1.4	1.1	2.0	0.5	0	0	2	0	6	2	8	0.6	1.5		
a. Other specified	0	1	0	0	0	1	1	0.3	0.3	1.0	0.3	0	0	1	0	2	1	3	0.3	0.6		
b. Other unspecified	3	0	0	0	0	3	3	1.0	0.8	3.0	0.6	0	0	1	0	4	1	5	0.3	0.9		
TOTAL	51	142	118	130	203	441	644	127.5	134.8	1.1	1.0	38	120	90	155	215	403	618	117.3	129.7		

† includes 27 non-malignant in males and 29 non-malignant in females ‡ includes 1 non-malignant in males

Please consult the quality indicators for this registry

USA, North Carolina, Black (1998-2012)

	Age group	Males	Females
Person-years	0	226 023	218 405
	1-4	912 777	889 515
	5-9	1 194 514	1 154 547
	10-14	1 255 167	1 219 237
	15-19	1 271 623	1 247 254
Total	0-14	3 588 481	3 481 704
	0-19	4 860 104	4 728 958
Average annual population	0-14	239 232	232 114
	0-19	324 007	315 264

Please consult the quality indicators for this registry