

America, North

USA, Alabama, 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	21	169	89	82	76	361	437	27.7	100.0	22.4	100.0	38.0	76.4	31.0	27.0	24.5	44.5	40.0	634	757	96.1	0.0
a. Lymphoid	10	138	76	54	40	278	318	21.3	77.0	16.3	72.8	18.1	62.4	26.5	17.8	12.9	34.5	29.6	489	554	98.1	0.0
b. Acute myeloid	4	25	12	19	20	60	80	4.6	16.6	4.1	18.3	7.2	11.3	4.2	6.3	6.4	7.2	7.1	105	137	97.5	0.0
c. CMD	2	4	0	6	9	12	21	0.9	3.3	1.1	4.8	3.6	1.8	-	2.0	2.9	1.4	1.7	21	35	71.4	0.0
d. MDS & other	4	0	0	1	2	5	7	0.4	1.4	0.4	1.6	7.2	-	-	0.3	0.6	0.7	0.7	9	12	100.0	0.0
e. Unspecified	1	2	1	2	5	6	11	0.5	1.7	0.6	2.5	1.8	0.9	0.3	0.7	1.6	0.7	0.9	10	19	72.7	0.0
II LYMPHOMA & RELATED	5	18	34	76	141	133	274	10.2	100.0	14.1	100.0	9.0	8.1	11.9	25.1	45.4	14.3	21.3	226	453	98.9	0.0
a. Hodgkin	0	0	6	32	90	38	128	2.9	28.6	6.6	46.7	-	-	2.1	10.6	29.0	3.7	9.4	63	208	99.2	0.0
b. Non-Hodgkin except BL	2	8	16	34	40	60	100	4.6	45.1	5.1	36.5	3.6	3.6	5.6	11.2	12.9	6.5	7.9	102	166	100.0	0.0
c. Burkitt (BL)	1	7	9	7	6	24	30	1.8	18.0	1.5	10.9	1.8	3.2	3.1	2.3	1.9	2.8	2.6	42	51	96.7	0.0
d. Lymphoreticular	2	3	2	1	3	8	11	0.6	6.0	0.6	4.0	3.6	1.4	0.7	0.3	1.0	1.0	1.0	14	19	100.0	0.0
e. Unspecified	0	0	1	2	2	3	5	0.2	2.3	0.3	1.8	-	-	0.3	0.7	0.6	0.3	0.4	5	8	80.0	0.0
III CNS NEOPLASMS †	23	95	122	100	94	340	434	26.1	100.0	22.3	100.0	41.6	43.0	42.6	33.0	30.3	39.8	37.7	591	742	84.3	2.1
a. Ependymoma	3	14	7	9	7	33	40	2.5	9.7	2.1	9.2	5.4	6.3	2.4	3.0	2.3	4.0	3.6	58	69	100.0	0.0
b. Astrocytoma	6	37	50	45	40	138	178	10.6	40.6	9.1	41.0	10.9	16.7	17.4	14.8	12.9	16.0	15.3	239	304	92.7	0.0
c. CNS embryonal	9	21	28	15	7	73	80	5.6	21.5	4.1	18.4	16.3	9.5	9.8	4.9	2.3	8.8	7.3	128	139	98.8	1.3
d. Other gliomas	1	12	27	14	11	54	65	4.1	15.9	3.3	15.0	1.8	5.4	9.4	4.6	3.5	6.2	5.6	94	111	46.2	1.5
e. Other specified	1	5	6	11	24	23	47	1.8	6.8	2.4	10.8	1.8	2.3	2.1	3.6	7.7	2.6	3.7	39	78	93.6	0.0
f. Unspecified CNS	3	6	4	6	5	19	24	1.5	5.6	1.2	5.5	5.4	2.7	1.4	2.0	1.6	2.3	2.1	33	41	33.3	29.2
IV NEUROBLASTOMA	32	56	15	4	1	107	108	8.2	100.0	5.5	100.0	57.9	25.3	5.2	1.3	0.3	14.4	11.2	192	194	97.2	0.0
a. (Ganglio)neuroblastoma	32	56	14	2	0	104	104	8.0	97.2	5.3	96.3	57.9	25.3	4.9	0.7	-	14.1	10.9	187	187	97.1	0.0
b. Peripheral nervous	0	0	1	2	1	3	4	0.2	2.8	0.2	3.7	-	-	0.3	0.7	0.3	0.3	0.3	5	7	100.0	0.0
V RETINOBLASTOMA	13	14	0	0	0	27	27	2.1	100.0	1.4	100.0	23.5	6.3	-	-	-	3.8	2.9	49	49	63.0	0.0
VI RENAL TUMOURS	6	53	15	5	4	79	83	6.1	100.0	4.3	100.0	10.9	24.0	5.2	1.6	1.3	10.4	8.4	141	148	100.0	0.0
a. Nephroblastoma	5	53	14	4	0	76	76	5.8	96.2	3.9	91.6	9.0	24.0	4.9	1.3	-	10.1	7.8	136	136	100.0	0.0
b. Renal carcinoma	1	0	1	0	4	2	6	0.2	2.5	0.3	7.2	1.8	-	0.3	-	1.3	0.3	0.5	4	10	100.0	0.0
c. Unspecified	0	0	0	1	0	1	1	0.1	1.3	0.1	1.2	-	-	-	0.3	-	0.1	0.1	2	2	100.0	0.0
VII HEPATIC TUMOURS	9	7	1	3	4	20	24	1.5	100.0	1.2	100.0	16.3	3.2	0.3	1.0	1.3	2.6	2.3	36	42	91.7	0.0
a. Hepatoblastoma	9	7	0	1	0	17	17	1.3	85.0	0.9	70.8	16.3	3.2	-	0.3	-	2.3	1.8	31	31	100.0	0.0
b. Hepatic carcinoma	0	0	1	2	4	3	7	0.2	15.0	0.4	29.2	-	-	0.3	0.7	1.3	0.3	0.5	5	11	71.4	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII BONE TUMOURS	0	0	10	28	37	38	75	2.9	100.0	3.8	100.0	-	-	3.5	9.2	11.9	3.8	5.6	64	123	97.3	1.3
a. Osteosarcoma	0	0	1	11	20	12	32	0.9	31.6	1.6	42.7	-	-	0.3	3.6	6.4	1.2	2.4	20	52	96.9	3.1
b. Chondrosarcoma	0	0	0	0	2	0	2	-	-	0.1	2.7	-	-	-	-	0.6	-	0.1	-	3	100.0	0.0
c. Ewing & related	0	0	8	16	14	24	38	1.8	63.2	1.9	50.7	-	-	2.8	5.3	4.5	2.4	2.9	40	63	100.0	0.0
d. Other specified	0	0	1	0	1	1	2	0.1	2.6	0.1	2.7	-	-	0.3	-	0.3	0.1	0.2	2	3	50.0	0.0
e. Unspecified	0	0	0	1	0	1	1	0.1	2.6	0.1	1.3	-	-	-	0.3	-	0.1	0.1	2	2	100.0	0.0
IX SOFT TISSUE SARCOMA	7	19	22	28	59	76	135	5.8	100.0	6.9	100.0	12.7	8.6	7.7	9.2	19.0	8.8	11.1	132	227	100.0	0.0
a. Rhabdomyosarcoma	3	14	8	4	18	29	47	2.2	38.2	2.4	34.8	5.4	6.3	2.8	1.3	5.8	3.7	4.1	51	80	100.0	0.0
b. Fibrosarcoma	1	1	2	3	5	7	12	0.5	9.2	0.6	8.9	1.8	0.5	0.7	1.0	1.6	0.8	1.0	12	20	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Other specified	1	2	9	14	23	26	49	2.0	34.2	2.5	36.3	1.8	0.9	3.1	4.6	7.4	2.8	3.8	44	81	100.0	0.0
e. Unspecified	2	2	3	7	13	14	27	1.1	18.4	1.4	20.0	3.6	0.9	1.0	2.3	4.2	1.6	2.2	24	45	100.0	0.0
X GERM CELL TUMOURS	10	9	10	19	70	48	118	3.7	100.0	6.1	100.0	18.1	4.1	3.5	6.3	22.5	5.6	9.4	83	196	99.2	0.0
a. CNS germ cell ‡	0	0	5	10	5	15	20	1.2	31.3	1.0	16.9	-	-	1.7	3.3	1.6	1.5	1.5	25	33	100.0	0.0
b. Other extragonadal	6	4	1	1	1	12	13	0.9	25.0	0.7	11.0	10.9	1.8	0.3	0.3	0.3	1.6	1.3	21	23	92.3	0.0
c. Gonadal germ cell	4	5	3	6	57	18	75	1.4	37.5	3.8	63.6	7.2	2.3	1.0	2.0	18.4	2.2	5.8	31	123	100.0	0.0
d. Gonadal carcinoma	0	0	1	2	6	3	9	0.2	6.3	0.5	7.6	-	-	0.3	0.7	1.9	0.3	0.7	5	15	100.0	0.0
e. Unspecified gonadal	0	0	0	0	1	0	1	-	-	-	0.8	-	-	-	-	0.3	-	0.1	-	2	100.0	0.0
XI CARCINOMA & MELANOMA	10	6	15	34	154	65	219	5.0	100.0	11.2	100.0	18.1	2.7	5.2	11.2	49.6	7.2	16.7	111	359	98.2	1.4
a. Adrenocortical	0	3	0	0	1	3	4	0.2	4.6	0.2	1.8	-	1.4	-	-	0.3	0.4	0.4	5	7	100.0	0.0
b. Thyroid	0	0	4	10	56	14	70	1.1	21.5	3.6	32.0	-	-	1.4	3.3	18.0	1.4	5.1	23	114	100.0	0.0
c. Nasopharyngeal	0	0	0	2	3	2	5	0.2	3.1	0.3	2.3	-	-	-	0.7	1.0	0.2	0.4	3	8	100.0	0.0
d. Melanoma	5	2	6	14	52	27	79	2.1	41.5	4.1	36.1	9.0	0.9	2.1	4.6	16.7	3.0	6.1	46	130	96.2	3.8
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
f. Other & unspecified	5	1	5	8	42	19	61	1.5	29.2	3.1	27.9	9.0	0.5	1.7	2.6	13.5	2.2	4.7	33	100	98.4	0.0
XII OTHER & UNSPECIFIED	1	1	1	6	6	9	15	0.7	100.0	0.8	100.0	1.8	0.5	0.3	2.0	1.9	1.0	1.2	15	25	60.0	26.7
a. Other specified	0	0	1	2	3	3	6	0.2	33.3	0.3	40.0	-	-	0.3	0.7	1.0	0.3	0.5	5	10	100.0	0.0
b. Other unspecified	1	1	0	4	3	6	9	0.5	66.7	0.5	60.0	1.8	0.5	-	1.3	1.0	0.7	0.7	10	15	33.3	44.4
TOTAL	137	447	334	385	646	1303	1949	100.0	100.0	100.0	100.0	247.9	202.2	116.5	127.0	208.0	156.2	167.9	2274	3314	94.0	0.9

† includes 61 non-malignant ‡ includes 3 non-malignant

Please consult the quality indicators for this registry

USA, Alabama, NH White (1998-2012)

	Males										M/F ratio		Females									
	Number of cases in age groups									ASR per million		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	0-14	0-19	0	1-4	5-9	10-14	15-19	0-14	0-19	0-14	0-19		
I LEUKAEMIA	9	90	50	37	42	186	228	44.9	40.7	1.1	1.1	12	79	39	45	34	175	209	44.0	39.2		
a. Lymphoid	3	74	43	23	24	143	167	34.8	30.3	1.1	1.1	7	64	33	31	16	135	151	34.1	28.8		
b. Acute myeloid	2	15	6	9	12	32	44	7.6	7.6	1.1	1.2	2	10	6	10	8	28	36	6.8	6.5		
c. CMD	1	0	0	4	3	5	8	1.0	1.2	0.7	0.6	1	4	0	2	6	7	13	1.8	2.3		
d. MDS & other	3	0	0	1	1	4	5	1.0	0.9	4.0	2.5	1	0	0	0	1	1	2	0.3	0.4		
e. Unspecified	0	1	1	0	2	2	4	0.5	0.7	0.5	0.6	1	1	0	2	3	4	7	1.0	1.2		
II LYMPHOMA & RELATED	1	15	23	46	75	85	160	18.0	24.5	1.8	1.4	4	3	11	30	66	48	114	10.5	17.9		
a. Hodgkin	0	0	4	19	40	23	63	4.4	9.1	1.5	1.0	0	0	2	13	50	15	65	3.0	9.8		
b. Non-Hodgkin except BL	1	7	10	20	28	38	66	8.1	10.2	1.7	1.9	1	1	6	14	12	22	34	4.7	5.4		
c. Burkitt (BL)	0	6	7	6	4	19	23	4.3	3.9	3.8	3.3	1	1	2	1	2	5	7	1.2	1.3		
d. Lymphoreticular	0	2	1	1	2	4	6	1.0	1.0	1.0	1.2	2	1	1	0	1	4	5	1.1	1.0		
e. Unspecified	0	0	1	0	1	1	2	0.2	0.3	0.5	0.7	0	0	0	2	1	2	3	0.4	0.5		
III CNS NEOPLASMS †	9	54	71	57	54	191	245	43.4	41.3	1.3	1.3	14	41	51	43	40	149	189	36.1	33.9		
a. Ependymoma	1	9	5	6	5	21	26	4.9	4.5	1.8	1.9	2	5	2	3	2	12	14	3.1	2.7		
b. Astrocytoma	1	19	29	24	21	73	94	16.3	15.6	1.1	1.1	5	18	21	21	19	65	84	15.6	14.9		
c. CNS embryonal	5	13	18	12	4	48	52	11.1	9.2	1.9	1.9	4	8	10	3	3	25	28	6.4	5.4		
d. Other gliomas	0	7	14	8	7	29	36	6.5	6.0	1.2	1.2	1	5	13	6	4	25	29	5.9	5.2		
e. Other specified	0	3	3	6	13	12	25	2.6	3.8	1.1	1.1	1	2	3	5	11	11	22	2.5	3.6		
f. Unspecified CNS	2	3	2	1	4	8	12	2.0	2.1	0.7	1.0	1	3	2	5	1	11	12	2.6	2.2		
IV NEUROBLASTOMA	18	31	12	2	0	63	63	16.4	12.7	1.4	1.4	14	25	3	2	1	44	45	12.3	9.7		
a. (Ganglioneuroblastoma	18	31	11	0	0	60	60	15.8	12.3	1.4	1.4	14	25	3	2	0	44	44	12.3	9.5		
b. Peripheral nervous	0	0	1	2	0	3	3	0.6	0.5	-	3.0	0	0	0	0	1	0	1	-	0.1		
V RETINOBLASTOMA	8	6	0	0	0	14	14	3.8	3.0	1.1	1.1	5	8	0	0	0	13	13	3.7	2.9		
VI RENAL TUMOURS	3	20	8	1	1	32	33	8.2	6.5	0.7	0.7	3	33	7	4	3	47	50	12.7	10.3		
a. Nephroblastoma	2	20	7	0	0	29	29	7.5	5.9	0.6	0.6	3	33	7	4	0	47	47	12.7	9.9		
b. Renal carcinoma	1	0	1	0	1	2	3	0.5	0.5	-	1.0	0	0	0	0	3	0	3	-	0.4		
c. Unspecified	0	0	0	1	0	1	1	0.2	0.1	-	-	0	0	0	0	0	0	0	-	-		
VII HEPATIC TUMOURS	4	7	1	2	2	14	16	3.6	3.1	2.3	2.0	5	0	0	1	2	6	8	1.6	1.6		
a. Hepatoblastoma	4	7	0	1	0	12	12	3.2	2.5	2.4	2.4	5	0	0	0	0	5	5	1.4	1.1		
b. Hepatic carcinoma	0	0	1	1	2	2	4	0.4	0.6	2.0	1.3	0	0	0	1	2	1	3	0.2	0.5		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	0	6	12	26	18	44	3.5	6.4	0.9	1.4	0	0	4	16	11	20	31	4.1	4.8		
a. Osteosarcoma	0	0	1	5	15	6	21	1.1	3.0	1.0	1.9	0	0	0	6	5	6	11	1.2	1.7		
b. Chondrosarcoma	0	0	0	0	1	0	1	-	0.1	-	1.0	0	0	0	1	0	1	1	-	0.1		
c. Ewing & related	0	0	5	6	10	11	21	2.2	3.1	0.8	1.2	0	0	3	10	4	13	17	2.7	2.7		
d. Other specified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	1	1	2	0.2	0.3		
e. Unspecified	0	0	0	1	0	1	1	0.2	0.1	-	-	0	0	0	0	0	0	0	-	-		
IX SOFT TISSUE SARCOMA	5	9	11	15	34	40	74	9.0	11.8	1.1	1.2	2	10	11	13	25	36	61	8.6	10.3		
a. Rhabdomyosarcoma	2	7	3	2	14	14	28	3.5	4.7	0.9	1.5	1	7	5	2	4	15	19	3.8	3.6		
b. Fibrosarcoma	1	1	1	2	4	5	9	1.1	1.4	2.5	3.0	0	0	1	1	1	2	3	0.4	0.5		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	1	0	6	9	10	16	26	3.3	3.9	1.6	1.1	0	2	3	5	13	10	23	2.3	3.7		
e. Unspecified	1	1	1	2	6	5	11	1.1	1.7	0.6	0.7	1	1	2	5	7	9	16	2.0	2.6		
X GERM CELL TUMOURS	6	6	5	9	51	26	77	6.1	11.9	1.2	1.9	4	3	5	10	19	22	41	5.1	6.8		
a. CNS germ cell ‡	0	0	5	7	3	12	15	2.4	2.3	4.0	3.0	0	0	0	3	2	3	5	0.6	0.8		
b. Other extragonadal	2	1	0	1	0	4	4	1.0	0.8	0.5	0.4	4	3	1	0	1	8	9	2.2	1.9		
c. Gonadal germ cell	4	5	0	1	46	10	56	2.6	8.6	1.3	2.9	0	0	3	5	11	8	19	1.7	2.9		
d. Gonadal carcinoma	0	0	0	0	2	0	2	-	0.3	0.0	0.3	0	0	1	2	4	3	7	0.6	1.1		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	-	0.0	0	0	0	0	1	0	1	-	0.1		
XI CARCINOMA & MELANOMA	4	2	7	11	37	24	61	5.2	9.3	0.6	0.4	6	4	8	23	117	41	158	9.3	24.6		
a. Adrenocortical	0	1	0	0	0	1	1	0.3	0.2	0.5	0.3	0	2	0	0	1	2	3	0.6	0.6		
b. Thyroid	0	0	2	1	5	3	8	0.6	1.2	0.3	0.1	0	0	2	9	0.3	11	62	2.2	9.3		
c. Nasopharyngeal	0	0	0	0	3	0	3	-	0.4	0.0	1.5	0	0	0	2	0	2	2	0.4	0.3		
d. Melanoma	2	0	3	6	14	11	25	2.3	3.8	0.7	0.5	3	2	3	8	38	16	54	3.7	8.5		
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
f. Other & unspecified	2	1	2	4	15	9	24	2.0	3.7	0.9	0.6	3	0	3	4	27	10	37	2.3	5.8		
XII OTHER & UNSPECIFIED	1	0	0	3	2	4	6	0.8	0.9	0.8	0.7	0	1	1	3	4	5	9	1.1	1.5		
a. Other specified	0	0	0	1	1	1	2	0.2	0.3	0.5	0.5	0	0	1	1	2	2	4	0.4	0.6		
b. Other unspecified	1	0	0	2	1	3	4	0.6	0.6	1.0	0.8	0	1	0	2	2	3	5	0.7	0.8		
TOTAL	68	240	194	195	324	697	1021	163.0	172.1	1.2	1.1	69	207	140	190	322	606	928	149.1	163.4		

† includes 34 non-malignant in males and 27 non-malignant in females ‡ includes 3 non-malignant in males

Please consult the quality indicators for this registry

USA, Alabama, NH White (1998-2012)

	Age group	Males	Females
Person-years	0	282 907	269 817
	1-4	1 132 784	1 078 017
	5-9	1 472 479	1 394 678
	10-14	1 559 726	1 472 825
	15-19	1 592 319	1 513 298
Total	0-14	4 447 896	4 215 337
	0-19	6 040 215	5 728 635
Average annual population	0-14	296 526	281 022
	0-19	402 681	381 909

Please consult the quality indicators for this registry