

USA, Michigan, 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	0-19
I LEUKAEMIA	12	61	52	42	38	167	205	21.6	100.0	18.8	100.0	33.8	42.0	26.4	20.5	19.4	30.1	27.7	437	534	96.6	0.0	
a. Lymphoid	4	38	39	25	14	106	120	13.7	63.5	11.0	58.5	11.3	26.2	19.8	12.2	7.2	18.9	16.3	277	312	96.7	0.0	
b. Acute myeloid	4	13	5	10	11	32	43	4.1	19.2	3.9	21.0	11.3	9.0	2.5	4.9	5.6	5.9	5.8	84	112	95.3	0.0	
c. CMD	0	5	3	6	4	14	18	1.8	8.4	1.7	8.8	-	3.4	1.5	2.9	2.0	2.4	2.3	36	46	100.0	0.0	
d. MDS & other	2	3	3	1	6	9	15	1.2	5.4	1.4	7.3	5.6	2.1	1.5	0.5	3.1	1.7	2.0	24	39	100.0	0.0	
e. Unspecified	2	2	2	0	3	6	9	0.8	3.6	0.8	4.4	5.6	1.4	1.0	-	1.5	1.2	1.3	16	24	88.9	0.0	
II LYMPHOMA & RELATED	1	11	28	46	73	86	159	11.1	100.0	14.6	100.0	2.8	7.6	14.2	22.5	37.3	13.7	19.0	217	403	98.7	0.0	
a. Hodgkin	0	2	11	24	37	37	74	4.8	43.0	6.8	46.5	-	1.4	5.6	11.7	18.9	5.6	8.6	92	187	100.0	0.0	
b. Non-Hodgkin except BL	0	8	11	17	32	36	68	4.7	41.9	6.2	42.8	-	5.5	5.6	8.3	16.4	5.9	8.3	92	173	97.1	0.0	
c. Burkitt (BL)	0	0	3	4	3	7	10	0.9	8.1	0.9	6.3	-	-	1.5	2.0	1.5	1.1	1.2	17	25	100.0	0.0	
d. Lymphoreticular	1	0	1	0	1	2	3	0.3	2.3	0.3	1.9	2.8	-	0.5	-	0.5	0.4	0.4	5	8	100.0	0.0	
e. Unspecified	0	1	2	1	0	4	4	0.5	4.7	0.4	2.5	-	0.7	1.0	0.5	-	0.7	0.5	10	10	100.0	0.0	
III CNS NEOPLASMS †	24	44	75	59	51	202	253	26.1	100.0	23.2	100.0	67.6	30.3	38.1	28.9	26.1	35.3	33.2	523	654	85.0	0.0	
a. Ependymoma	3	8	4	3	4	18	22	2.3	8.9	2.0	8.7	8.5	5.5	2.0	1.5	2.0	3.4	3.1	48	58	95.5	0.0	
b. Astrocytoma	9	18	30	28	14	85	99	11.0	42.1	9.1	39.1	25.4	12.4	15.3	13.7	7.2	14.7	13.0	219	255	94.9	0.0	
c. CNS embryonal	5	9	17	8	1	39	40	5.0	19.3	3.7	15.8	14.1	6.2	8.6	3.9	0.5	6.9	5.5	102	104	100.0	0.0	
d. Other gliomas	1	7	11	6	4	25	29	3.2	12.4	2.7	11.5	2.8	4.8	5.6	2.9	2.0	4.4	3.8	65	75	58.6	0.0	
e. Other specified	5	2	11	13	27	31	58	4.0	15.3	5.3	22.9	14.1	1.4	5.6	6.4	13.8	5.2	7.1	79	148	70.7	0.0	
f. Unspecified CNS	1	0	2	1	1	4	5	0.5	2.0	0.5	2.0	2.8	-	1.0	0.5	0.5	0.7	0.6	10	13	40.0	0.0	
IV NEUROBLASTOMA	15	41	6	5	4	67	71	8.7	100.0	6.5	100.0	42.3	28.3	3.1	2.4	2.0	13.7	11.1	183	193	95.8	0.0	
a. (Ganglio)neuroblastoma	15	40	6	5	3	66	69	8.5	98.5	6.3	97.2	42.3	27.6	3.1	2.4	1.5	13.5	10.8	180	187	95.7	0.0	
b. Peripheral nervous	0	1	0	0	1	1	2	0.1	1.5	0.2	2.8	-	0.7	-	-	0.5	0.2	0.3	3	5	100.0	0.0	
V RETINOBLASTOMA	11	16	0	0	0	27	27	3.5	100.0	2.5	100.0	31.0	11.0	-	-	-	5.8	4.5	75	75	77.8	0.0	
VI RENAL TUMOURS	10	32	16	6	7	64	71	8.3	100.0	6.5	100.0	28.2	22.1	8.1	2.9	3.6	12.5	10.5	172	190	100.0	0.0	
a. Nephroblastoma	9	32	15	4	2	60	62	7.8	93.8	5.7	87.3	25.4	22.1	7.6	2.0	1.0	11.8	9.4	161	167	100.0	0.0	
b. Renal carcinoma	1	0	1	2	5	4	9	0.5	6.3	0.8	12.7	2.8	-	0.5	1.0	2.6	0.7	1.1	10	23	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VII HEPATIC TUMOURS	0	5	0	2	2	7	9	0.9	100.0	0.8	100.0	-	3.4	-	1.0	1.0	1.4	1.3	19	24	100.0	0.0	
a. Hepatoblastoma	0	5	0	1	0	6	6	0.8	85.7	0.6	66.7	-	3.4	-	0.5	-	1.2	0.9	16	16	100.0	0.0	
b. Hepatic carcinoma	0	0	0	1	2	1	3	0.1	14.3	0.3	33.3	-	-	-	0.5	1.0	0.1	0.3	2	8	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIII BONE TUMOURS	1	1	7	22	23	31	54	4.0	100.0	5.0	100.0	2.8	0.7	3.6	10.8	11.8	4.7	6.3	77	136	98.1	0.0	
a. Osteosarcoma	0	1	6	20	18	27	45	3.5	87.1	4.1	83.3	-	0.7	3.1	9.8	9.2	4.0	5.2	67	113	100.0	0.0	
b. Chondrosarcoma	0	0	0	0	2	0	2	-	-	0.2	3.7	-	-	-	-	1.0	-	0.2	-	5	5	50.0	0.0
c. Ewing & related	0	0	0	1	2	1	3	0.1	3.2	0.3	5.6	-	-	-	0.5	1.0	0.1	0.3	2	8	100.0	0.0	
d. Other specified	0	0	1	0	0	1	1	0.1	3.2	0.1	1.9	-	-	0.5	-	-	0.2	0.1	3	3	100.0	0.0	
e. Unspecified	1	0	0	1	1	2	3	0.3	6.5	0.3	5.6	2.8	-	-	0.5	0.5	0.4	0.4	5	8	100.0	0.0	
IX SOFT TISSUE SARCOMA	5	18	15	26	32	64	96	8.3	100.0	8.8	100.0	14.1	12.4	7.6	12.7	16.4	11.1	12.3	165	247	97.9	0.0	
a. Rhabdomyosarcoma	2	16	10	5	5	33	38	4.3	51.6	3.5	39.6	5.6	11.0	5.1	2.4	2.6	6.2	5.4	87	100	97.4	0.0	
b. Fibrosarcoma	2	1	1	4	5	8	13	1.0	12.5	1.2	13.5	5.6	0.7	0.5	2.0	2.6	1.4	1.6	21	33	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	1	1	2	12	18	16	34	2.1	25.0	3.1	35.4	2.8	0.7	1.0	5.9	9.2	2.5	4.0	40	86	97.1	0.0	
e. Unspecified	0	0	2	5	4	7	11	0.9	10.9	1.0	11.5	-	-	1.0	2.4	2.0	1.0	1.3	17	28	100.0	0.0	
X GERM CELL TUMOURS	15	3	3	10	31	31	62	4.0	100.0	5.7	100.0	42.3	2.1	1.5	4.9	15.8	5.8	8.0	82	161	96.8	0.0	
a. CNS germ cell ‡	1	1	1	2	6	5	11	0.6	16.1	1.0	17.7	2.8	0.7	0.5	1.0	3.1	0.9	1.4	13	28	90.9	0.0	
b. Other extragonadal	10	1	0	1	6	12	18	1.6	38.7	1.7	29.0	28.2	0.7	-	0.5	3.1	2.5	2.6	33	48	94.4	0.0	
c. Gonadal germ cell	4	0	2	7	15	13	28	1.7	41.9	2.6	45.2	11.3	-	1.0	3.4	7.7	2.2	3.4	33	72	100.0	0.0	
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
e. Unspecified gonadal	0	1	0	0	4	1	5	0.1	3.2	0.5	8.1	-	0.7	-	-	2.0	0.2	0.6	3	13	100.0	0.0	
XI CARCINOMA & MELANOMA	2	2	7	11	51	22	73	2.8	100.0	6.7	100.0	5.6	1.4	3.6	5.4	26.1	3.6	8.6	56	186	97.3	0.0	
a. Adrenocortical	0	1	0	0	0	1	1	0.1	4.5	0.1	1.4	-	0.7	-	-	-	0.2	0.2	3	3	100.0	0.0	
b. Thyroid	0	0	2	1	10	3	13	0.4	13.6	1.2	17.8	-	-	1.0	0.5	5.1	0.5	1.5	8	33	100.0	0.0	
c. Nasopharyngeal	0	0	2	4	5	6	11	0.8	27.3	1.0	15.1	-	-	1.0	2.0	2.6	0.9	1.3	15	28	100.0	0.0	
d. Melanoma	0	1	1	0	3	2	5	0.3	9.1	0.5	6.8	-	0.7	0.5	-	1.5	0.4	0.6	5	13	100.0	0.0	
e. Skin carcinoma	0	0	0	0	1	0	1	-	-	0.1	1.4	-	-	-	-	0.5	-	0.1	-	3	3	100.0	0.0
f. Other & unspecified	2	0	2	6	32	10	42	1.3	45.5	3.9	57.5	5.6	-	1.0	2.9	16.4	1.6	4.9	25	107	95.2	0.0	
XII OTHER & UNSPECIFIED	2	1	1	1	4	5	9	0.6	100.0	0.8	100.0	5.6	0.7	0.5	0.5	2.0	0.9	1.2	13	24	77.8	11.1	
a. Other specified	1	0	0	1	1	2	3	0.3	40.0	0.3	33.3	2.8	-	-	0.5	0.5	0.4	0.4	5	8	100.0	0.0	
b. Other unspecified	1	1	1	0	3	3	6	0.4	60.0	0.6	66.7	2.8	0.7	0.5	-	1.5	0.6	0.8	8	16	66.7	16.7	
TOTAL	98	235	210	230	316	773	1089	100.0	100.0	100.0	100.0	276.1	162.0	106.8	112.5	161.5	138.5	143.7	2018	2826	94.0	0.1	

† includes 58 non-malignant ‡ includes 1 non-malignant

Please consult the quality indicators for this registry

USA, Michigan, Black (1998-2012)

	Males										M/F ratio		Females											
	Number of cases in age groups										0-14	0-19	Number of cases in age groups										0-14	0-19
	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	8	35	19	29	18	91	109	32.3	29.1	1.2	1.1	4	26	33	13	20	76	96	27.9	26.3				
a. Lymphoid	3	22	15	20	7	60	67	21.0	17.8	1.3	1.3	1	16	24	5	7	46	53	16.9	14.7				
b. Acute myeloid	4	5	2	5	4	16	20	5.8	5.4	1.0	0.9	0	8	3	5	7	16	23	5.9	6.2				
c. CMD	0	3	0	4	0	7	7	2.4	1.8	1.0	0.6	0	2	3	2	4	7	11	2.5	2.8				
d. MDS & other	1	3	1	0	4	5	9	2.0	2.5	1.3	1.5	1	0	2	1	2	4	6	1.4	1.5				
e. Unspecified	0	2	1	0	3	3	6	1.2	1.6	1.0	2.0	2	0	1	0	0	3	3	1.2	0.9				
II LYMPHOMA & RELATED	1	9	23	25	34	58	92	18.6	22.1	2.1	1.4	0	2	5	21	39	28	67	8.6	15.8				
a. Hodgkin	0	2	8	11	14	21	35	6.5	8.2	1.3	0.9	0	0	3	13	23	16	39	4.8	9.1				
b. Non-Hodgkin except BL	0	6	9	12	19	27	46	8.8	11.1	3.0	2.1	0	2	2	5	13	9	22	3.0	5.4				
c. Burkitt (BL)	0	0	3	1	1	4	5	1.2	1.2	1.3	1.0	0	0	0	3	2	3	5	0.9	1.1				
d. Lymphoreticular	1	0	1	0	0	2	2	0.7	0.6	-	2.0	0	0	0	0	1	0	1	-	0.2				
e. Unspecified	0	1	2	1	0	4	4	1.3	1.0	-	-	0	0	0	0	0	0	0	-	-				
III CNS NEOPLASMS †	12	22	39	32	17	105	122	35.8	31.6	1.1	0.9	12	22	36	27	34	97	131	34.6	34.8				
a. Ependymoma	1	5	2	0	0	8	8	3.2	2.5	0.8	0.6	2	3	2	3	4	10	14	3.7	3.8				
b. Astrocytoma	4	9	16	14	7	43	50	14.5	12.9	1.0	1.0	5	9	14	14	7	42	49	14.8	13.1				
c. CNS embryonal	3	3	6	5	1	17	18	5.9	4.8	0.8	0.8	2	6	11	3	0	22	22	8.0	6.2				
d. Other gliomas	1	3	5	3	1	12	13	4.1	3.4	0.9	0.8	0	4	6	3	3	13	16	4.6	4.3				
e. Other specified	2	2	9	9	8	22	30	7.1	7.3	2.4	1.1	3	0	2	4	19	9	28	3.1	6.9				
f. Unspecified CNS	1	0	1	1	0	3	3	1.0	0.8	3.0	1.5	0	0	1	0	1	1	2	0.3	0.5				
IV NEUROBLASTOMA	8	14	3	3	2	28	30	11.1	9.0	0.7	0.7	7	27	3	2	2	39	41	16.4	13.2				
a. (Ganglioneuroblastoma	8	13	3	3	1	27	28	10.7	8.5	0.7	0.7	7	27	3	2	2	39	41	16.4	13.2				
b. Peripheral nervous	0	1	0	0	1	1	2	0.4	0.6	-	-	0	0	0	0	0	0	0	-	-				
V RETINOBLASTOMA	6	9	0	0	0	15	15	6.3	4.9	1.3	1.3	5	7	0	0	0	12	12	5.2	4.1				
VI RENAL TUMOURS	5	17	6	1	3	29	32	11.5	9.6	0.8	0.8	5	15	10	5	4	35	39	13.5	11.4				
a. Nephroblastoma	4	17	6	1	0	28	28	11.1	8.6	0.9	0.8	5	15	9	3	2	32	34	12.6	10.2				
b. Renal carcinoma	1	0	0	0	3	1	4	0.4	1.0	0.3	0.8	0	0	1	2	2	3	5	0.9	1.2				
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
VII HEPATIC TUMOURS	0	3	0	1	2	4	6	1.5	1.6	1.3	2.0	0	2	0	1	0	3	3	1.2	0.9				
a. Hepatoblastoma	0	3	0	0	0	3	3	1.3	1.0	1.0	1.0	0	2	0	1	0	3	3	1.2	0.9				
b. Hepatic carcinoma	0	0	0	1	2	1	3	0.3	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	-	-				
VIII BONE TUMOURS	0	0	2	11	14	13	27	3.7	6.0	0.7	1.0	1	1	5	11	9	18	27	5.7	6.5				
a. Osteosarcoma	0	0	2	11	10	13	23	3.7	5.1	0.9	1.0	0	1	4	9	8	14	22	4.4	5.3				
b. Chondrosarcoma	0	0	0	0	2	0	2	-	0.5	-	-	0	0	0	0	0	0	0	-	-				
c. Ewing & related	0	0	0	0	2	0	2	-	0.5	0.0	2.0	0	0	0	1	0	1	1	0.3	0.2				
d. Other specified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	0.3	0.3				
e. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	1	0	0	1	1	2	3	0.7	0.8				
IX SOFT TISSUE SARCOMA	0	8	9	14	16	31	47	10.2	11.5	0.9	1.0	5	10	6	12	16	33	49	12.0	13.1				
a. Rhabdomyosarcoma	0	7	7	2	2	16	18	5.8	4.9	0.9	0.9	2	9	3	3	3	17	20	6.7	5.9				
b. Fibrosarcoma	0	1	1	3	3	5	8	1.6	1.9	1.7	1.6	2	0	0	1	2	3	5	1.2	1.4				
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
d. Other specified	0	0	1	6	10	7	17	2.0	3.8	0.8	1.0	1	1	1	6	8	9	17	2.9	4.1				
e. Unspecified	0	0	0	3	1	3	4	0.8	0.9	0.8	0.6	0	0	2	2	3	4	7	1.2	1.7				
X GERM CELL TUMOURS	7	0	1	2	10	10	20	3.8	5.2	0.5	0.5	8	3	2	8	21	21	42	7.8	10.9				
a. CNS germ cell ‡	0	0	1	2	2	3	5	0.9	1.1	1.5	0.8	1	1	0	0	4	2	6	0.9	1.6				
b. Other extragonadal	3	0	0	0	1	3	4	1.3	1.2	0.3	0.3	7	1	0	1	5	9	14	3.8	4.1				
c. Gonadal germ cell	4	0	0	0	6	4	10	1.7	2.7	0.4	0.6	0	0	2	7	9	9	18	2.7	4.2				
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
e. Unspecified gonadal	0	0	0	0	1	0	1	-	0.2	0.0	0.3	0	1	0	0	3	1	4	0.4	1.0				
XI CARCINOMA & MELANOMA	1	1	2	7	20	11	31	3.4	7.2	1.0	0.7	1	1	5	4	31	11	42	3.7	10.1				
a. Adrenocortical	0	0	0	0	0	0	0	-	-	0.0	0.0	0	1	0	0	0	1	1	0.4	0.3				
b. Thyroid	0	0	1	1	1	2	3	0.6	0.7	2.0	0.3	0	0	1	0	9	1	10	0.3	2.4				
c. Nasopharyngeal	0	0	0	4	3	4	7	1.1	1.5	2.0	1.8	0	0	2	0	2	2	4	0.7	1.0				
d. Melanoma	0	1	1	0	1	2	3	0.7	0.8	-	1.5	0	0	0	0	2	0	2	-	0.5				
e. Skin carcinoma	0	0	0	0	1	0	1	-	0.2	-	-	0	0	0	0	0	0	0	-	-				
f. Other & unspecified	1	0	0	2	14	3	17	1.0	3.9	0.4	0.7	1	0	2	4	18	7	25	2.3	6.0				
XII OTHER & UNSPECIFIED	2	1	1	0	1	4	5	1.6	1.5	4.0	1.3	0	0	0	1	3	1	4	0.3	0.9				
a. Other specified	1	0	0	0	0	1	1	0.4	0.3	1.0	0.5	0	0	0	1	1	1	2	0.3	0.5				
b. Other unspecified	1	1	1	0	1	3	4	1.2	1.1	-	2.0	0	0	0	0	2	0	2	-	0.5				
TOTAL	50	119	105	125	137	399	536	140.0	139.5	1.1	1.0	48	116	105	105	179	374	553	136.9	148.0				

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

Please consult the quality indicators for this registry

USA, Michigan, Black (1998-2012)

	Age group	Males	Females
Person-years	0	181 096	173 895
	1-4	737 160	713 771
	5-9	1 000 854	966 079
	10-14	1 039 782	1 005 047
	15-19	994 544	961 824
Total	0-14	2 958 892	2 858 792
	0-19	3 953 436	3 820 616
Average annual population	0-14	197 259	190 586
	0-19	263 562	254 708

Please consult the quality indicators for this registry