

## USA, Michigan, Detroit, NH White (1993-2012)

	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
<b>I LEUKAEMIA</b>	32	269	121	106	90	528	618	31.0	100.0	24.0	100.0	50.4	102.4	35.2	29.5	26.8	55.6	49.1	784	919	98.5	0.2	
a. Lymphoid	11	232	103	66	45	412	457	24.2	78.0	17.7	73.9	17.3	88.3	29.9	18.4	13.4	43.8	37.0	614	681	99.6	0.0	
b. Acute myeloid	13	23	13	26	22	75	97	4.4	14.2	3.8	15.7	20.5	8.8	3.8	7.2	6.6	7.6	7.4	110	143	99.0	1.0	
c. CMD	2	3	2	3	17	10	27	0.6	1.9	1.0	4.4	3.2	1.1	0.6	0.8	5.1	1.0	1.9	15	40	85.2	0.0	
d. MDS & other	4	7	0	5	2	16	18	0.9	3.0	0.7	2.9	6.3	2.7	-	1.4	0.6	1.7	1.5	24	27	94.4	0.0	
e. Unspecified	2	4	3	6	4	15	19	0.9	2.8	0.7	3.1	3.2	1.5	0.9	1.7	1.2	1.5	1.4	22	28	94.7	0.0	
<b>II LYMPHOMA &amp; RELATED</b>	6	35	52	112	246	205	451	12.0	100.0	17.5	100.0	9.5	13.3	15.1	31.1	73.4	18.8	31.1	294	661	99.1	0.0	
a. Hodgkin	0	2	11	56	176	69	245	4.1	33.7	9.5	54.3	-	0.8	3.2	15.6	52.5	5.8	16.3	97	359	100.0	0.0	
b. Non-Hodgkin except BL	1	18	19	39	56	77	133	4.5	37.6	5.2	29.5	1.6	6.8	5.5	10.8	16.7	7.2	9.3	111	194	98.5	0.0	
c. Burkitt (BL)	0	5	14	9	9	28	37	1.6	13.7	1.4	8.2	-	1.9	4.1	2.5	2.7	2.6	2.6	41	54	100.0	0.0	
d. Lymphoreticular	5	8	4	5	3	22	25	1.3	10.7	1.0	5.5	7.9	3.0	1.2	1.4	0.9	2.3	2.0	33	37	92.0	0.0	
e. Unspecified	0	2	4	3	2	9	11	0.5	4.4	0.4	2.4	-	0.8	1.2	0.8	0.6	0.9	0.8	13	16	100.0	0.0	
<b>III CNS NEOPLASMS</b>	15	119	105	118	90	357	447	21.0	100.0	17.3	100.0	23.6	45.3	30.5	32.8	26.8	35.3	33.4	522	656	91.5	0.2	
a. Ependymoma	3	14	6	11	8	34	42	2.0	9.5	1.6	9.4	4.7	5.3	1.7	3.1	2.4	3.5	3.2	50	62	97.6	0.0	
b. Astrocytoma	6	46	48	66	39	166	205	9.7	46.5	8.0	45.9	9.5	17.5	13.9	18.4	11.6	16.0	15.0	241	299	92.2	0.0	
c. CNS embryonal	2	41	28	22	22	93	115	5.5	26.1	4.5	25.7	3.2	15.6	8.1	6.1	6.6	9.5	8.8	137	170	100.0	0.0	
d. Other gliomas	3	14	19	15	20	51	71	3.0	14.3	2.8	15.9	4.7	5.3	5.5	4.2	6.0	5.0	5.2	75	104	71.8	0.0	
e. Other specified	0	4	3	2	0	9	9	0.5	2.5	0.3	2.0	-	1.5	0.9	0.6	-	0.9	0.7	13	13	100.0	0.0	
f. Unspecified CNS	1	0	1	2	1	4	5	0.2	1.1	0.2	1.1	1.6	-	0.3	0.6	0.3	0.4	0.4	6	7	80.0	20.0	
<b>IV NEUROBLASTOMA</b>	52	79	14	4	5	149	154	8.7	100.0	6.0	100.0	82.0	30.1	4.1	1.1	1.5	17.2	13.6	227	234	97.4	0.0	
a. (Ganglio)neuroblastoma	52	79	14	4	1	149	150	8.7	100.0	5.8	97.4	82.0	30.1	4.1	1.1	0.3	17.2	13.4	227	228	97.3	0.0	
b. Peripheral nervous	0	0	0	0	4	0	4	-	-	0.2	2.6	-	-	-	-	1.2	-	0.3	-	6	100.0	0.0	
<b>V RETINOBLASTOMA</b>	14	21	3	1	0	39	39	2.3	100.0	1.5	100.0	22.1	8.0	0.9	0.3	-	4.5	3.5	59	59	97.4	0.0	
<b>VI RENAL TUMOURS</b>	12	59	18	5	4	94	98	5.5	100.0	3.8	100.0	18.9	22.5	5.2	1.4	1.2	10.5	8.4	142	148	100.0	0.0	
a. Nephroblastoma	12	59	15	3	0	89	89	5.2	94.7	3.5	90.8	18.9	22.5	4.4	0.8	-	10.1	7.8	135	135	100.0	0.0	
b. Renal carcinoma	0	0	3	2	4	5	9	0.3	5.3	0.3	9.2	-	-	0.9	0.6	1.2	0.4	0.6	7	13	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>VII HEPATIC TUMOURS</b>	13	10	4	1	2	28	30	1.6	100.0	1.2	100.0	20.5	3.8	1.2	0.3	0.6	3.2	2.6	42	45	100.0	0.0	
a. Hepatoblastoma	12	10	3	0	0	25	25	1.5	89.3	1.0	83.3	18.9	3.8	0.9	-	-	2.9	2.2	38	38	100.0	0.0	
b. Hepatic carcinoma	0	0	1	1	2	2	4	0.1	7.1	0.2	13.3	-	-	0.3	0.3	0.6	0.2	0.3	3	6	100.0	0.0	
c. Unspecified	1	0	0	0	0	1	1	0.1	3.6	0.0	3.3	1.6	-	-	-	-	0.1	0.1	2	2	100.0	0.0	
<b>VIII BONE TUMOURS</b>	1	2	14	43	60	60	120	3.5	100.0	4.7	100.0	1.6	0.8	4.1	12.0	17.9	5.1	8.0	85	174	100.0	0.0	
a. Osteosarcoma	0	0	9	23	34	32	66	1.9	53.3	2.6	55.0	-	-	2.6	6.4	10.1	2.7	4.4	45	96	100.0	0.0	
b. Chondrosarcoma	0	0	0	3	2	3	5	0.2	5.0	0.2	4.2	-	-	-	0.8	0.6	0.2	0.3	4	7	100.0	0.0	
c. Ewing & related	0	2	5	15	18	22	40	1.3	36.7	1.6	33.3	-	0.8	1.5	4.2	5.4	1.9	2.7	31	58	100.0	0.0	
d. Other specified	1	0	0	2	5	3	8	0.2	5.0	0.3	6.7	1.6	-	-	0.6	1.5	0.3	0.6	4	12	100.0	0.0	
e. Unspecified	0	0	0	0	1	0	1	-	-	0.0	0.8	-	-	-	-	0.3	-	0.1	-	1	100.0	0.0	
<b>IX SOFT TISSUE SARCOMA</b>	14	25	26	47	56	112	168	6.6	100.0	6.5	100.0	22.1	9.5	7.6	13.1	16.7	10.9	12.2	163	246	99.4	0.0	
a. Rhabdomyosarcoma	7	19	16	12	16	54	70	3.2	48.2	2.7	41.7	11.0	7.2	4.6	3.3	4.8	5.6	5.4	80	104	100.0	0.0	
b. Fibrosarcoma	2	1	1	6	4	10	14	0.6	8.9	0.5	8.3	3.2	0.4	0.3	1.7	1.2	0.9	1.0	14	20	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	3	5	8	22	30	38	68	2.2	33.9	2.6	40.5	4.7	1.9	2.3	6.1	8.9	3.5	4.7	54	99	98.5	0.0	
e. Unspecified	2	0	1	7	6	10	16	0.6	8.9	0.6	9.5	3.2	-	0.3	1.9	1.8	0.9	1.1	14	23	100.0	0.0	
<b>X GERM CELL TUMOURS</b>	11	8	7	28	112	54	166	3.2	100.0	6.4	100.0	17.3	3.0	2.0	7.8	33.4	5.2	11.5	78	245	97.6	0.0	
a. CNS germ cell	2	0	3	12	8	17	25	1.0	31.5	1.0	15.1	3.2	-	0.9	3.3	2.4	1.5	1.7	24	36	96.0	0.0	
b. Other extragonadal	8	4	0	1	3	13	16	0.8	24.1	0.6	9.6	12.6	1.5	-	0.3	0.9	1.5	1.4	20	24	100.0	0.0	
c. Gonadal germ cell	1	4	4	13	92	22	114	1.3	40.7	4.4	68.7	1.6	1.5	1.2	3.6	27.4	2.0	7.7	32	169	99.1	0.0	
d. Gonadal carcinoma	0	0	0	1	8	1	9	0.1	1.9	0.3	5.4	-	-	-	0.3	2.4	0.1	0.6	1	13	77.8	0.0	
e. Unspecified gonadal	0	0	0	1	1	1	2	0.1	1.9	0.1	1.2	-	-	-	0.3	0.3	0.1	0.1	1	3	100.0	0.0	
<b>XI CARCINOMA &amp; MELANOMA</b>	1	8	15	51	204	75	279	4.4	100.0	10.8	100.0	1.6	3.0	4.4	14.2	60.8	6.6	18.8	106	411	99.3	0.0	
a. Adrenocortical	0	3	2	1	1	6	7	0.4	8.0	0.3	2.5	-	1.1	0.6	0.3	0.3	0.6	0.6	9	10	100.0	0.0	
b. Thyroid	0	0	6	25	72	31	103	1.8	41.3	4.0	36.9	-	-	1.7	7.0	21.5	2.6	6.8	43	151	100.0	0.0	
c. Nasopharyngeal	0	0	0	1	0	1	1	0.1	1.3	0.0	0.4	-	-	-	0.3	-	0.1	0.1	1	1	100.0	0.0	
d. Melanoma	0	4	5	14	77	23	100	1.4	30.7	3.9	35.8	-	1.5	1.5	3.9	23.0	2.1	6.8	33	148	100.0	0.0	
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
f. Other & unspecified	1	1	2	10	54	14	68	0.8	18.7	2.6	24.4	1.6	0.4	0.6	2.8	16.1	1.2	4.6	20	100	97.1	0.0	
<b>XII OTHER &amp; UNSPECIFIED</b>	1	0	1	0	6	2	8	0.1	100.0	0.3	100.0	1.6	-	0.3	-	1.8	0.2	0.6	3	12	87.5	12.5	
a. Other specified	0	0	0	0	2	0	2	-	-	0.1	25.0	-	-	-	-	0.6	-	0.1	-	3	3	100.0	0.0
b. Other unspecified	1	0	1	0	4	2	6	0.1	100.0	0.2	75.0	1.6	-	0.3	-	1.2	0.2	0.4	3	9	83.3	16.7	
<b>TOTAL</b>	172	635	380	516	875	1703	2578	100.0	100.0	100.0	100.0	271.1	241.6	110.4	143.5	261.0	173.0	192.8	2506	3811	97.5	0.1	

Please consult the quality indicators for this registry

## USA, Michigan, Detroit, NH White (1993-2012)

	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		
<b>I LEUKAEMIA</b>	21	147	74	54	48	296	344	60.8	53.4	1.3	1.3	11	122	47	52	42	232	274	50.1	44.7		
a. Lymphoid	6	130	61	32	28	229	257	47.6	40.5	1.3	1.3	5	102	42	34	17	183	200	39.8	33.2		
b. Acute myeloid	9	11	9	15	9	44	53	8.6	7.9	1.4	1.2	4	12	4	11	13	31	44	6.5	6.8		
c. CMD	2	2	2	2	9	8	17	1.6	2.4	4.0	1.7	0	1	0	1	8	2	10	0.4	1.4		
d. MDS & other	2	3	0	2	1	7	8	1.5	1.3	0.8	0.8	2	4	0	3	1	9	10	2.0	1.7		
e. Unspecified	2	1	2	3	1	8	9	1.5	1.3	1.1	0.9	0	3	1	3	3	7	10	1.4	1.5		
<b>II LYMPHOMA &amp; RELATED</b>	4	23	33	72	130	132	262	23.6	35.1	1.8	1.4	2	12	19	40	116	73	189	13.7	26.8		
a. Hodgkin	0	2	5	30	81	37	118	6.1	15.2	1.2	0.9	0	0	6	26	95	32	127	5.5	17.4		
b. Non-Hodgkin except BL	0	9	9	29	38	47	85	8.3	11.3	1.6	1.8	1	9	10	10	18	30	48	6.0	7.2		
c. Burkitt (BL)	0	5	12	8	8	25	33	4.6	4.6	8.3	8.3	0	0	2	1	1	3	4	0.6	0.6		
d. Lymphoreticular	4	5	3	2	3	14	17	2.9	2.7	1.8	2.1	1	3	1	3	0	8	8	1.7	1.3		
e. Unspecified	0	2	4	3	0	9	9	1.7	1.3	-	4.5	0	0	0	0	2	0	2	-	0.3		
<b>III CNS NEOPLASMS</b>	8	67	65	68	44	208	252	39.9	36.6	1.4	1.3	7	52	40	50	46	149	195	30.4	30.0		
a. Ependymoma	2	11	3	7	4	23	27	4.7	4.1	2.1	1.8	1	3	3	4	4	11	15	2.2	2.3		
b. Astrocytoma	4	24	29	33	20	90	110	16.9	15.7	1.2	1.2	2	22	19	33	19	76	95	15.0	14.3		
c. CNS embryonal	1	24	19	15	9	59	68	11.6	10.2	1.7	1.4	1	17	9	7	13	34	47	7.3	7.5		
d. Other gliomas	1	6	11	11	10	29	39	5.4	5.4	1.3	1.2	2	8	8	4	10	22	32	4.6	5.0		
e. Other specified	0	2	3	1	0	6	6	1.2	0.9	2.0	2.0	0	2	0	1	0	3	3	0.7	0.5		
f. Unspecified CNS	0	0	0	1	1	1	2	0.2	0.3	0.3	0.7	1	0	1	1	0	3	3	0.6	0.5		
<b>IV NEUROBLASTOMA</b>	22	43	7	3	4	75	79	16.8	13.5	1.0	1.1	30	36	7	1	1	74	75	17.6	13.8		
a. (Ganglio)neuroblastoma	22	43	7	3	1	75	76	16.8	13.1	1.0	1.0	30	36	7	1	0	74	74	17.6	13.6		
b. Peripheral nervous	0	0	0	0	3	0	3	-	0.4	-	3.0	0	0	0	0	1	0	1	-	0.1		
<b>V RETINOBLASTOMA</b>	8	16	1	0	0	25	25	5.7	4.4	1.8	1.8	6	5	2	1	0	14	14	3.2	2.5		
<b>VI RENAL TUMOURS</b>	6	25	3	4	1	38	39	8.3	6.6	0.7	0.7	6	34	15	1	3	56	59	12.8	10.3		
a. Nephroblastoma	6	25	3	2	0	36	36	8.0	6.2	0.7	0.7	6	34	12	1	0	53	53	12.2	9.5		
b. Renal carcinoma	0	0	0	2	1	2	3	0.3	0.4	0.7	0.5	0	0	3	0	3	6	6	0.6	0.9		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
<b>VII HEPATIC TUMOURS</b>	7	5	3	1	1	16	17	3.5	2.8	1.3	1.3	6	5	1	0	1	12	13	2.9	2.4		
a. Hepatoblastoma	7	5	3	0	0	15	15	3.3	2.6	1.5	1.5	5	5	0	0	0	10	10	2.4	1.9		
b. Hepatic carcinoma	0	0	0	1	1	1	2	0.2	0.3	1.0	1.0	0	0	1	0	1	1	2	0.2	0.3		
c. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	1	0	0	0	0	1	1	0.2	0.2		
<b>VIII BONE TUMOURS</b>	1	2	6	28	40	37	77	6.2	10.0	1.6	1.8	0	0	8	15	20	23	43	4.0	5.9		
a. Osteosarcoma	0	0	4	11	23	15	38	2.5	4.9	0.9	1.4	0	0	5	12	11	17	28	3.0	3.8		
b. Chondrosarcoma	0	0	0	3	1	3	4	0.5	0.5	-	4.0	0	0	0	0	1	0	1	-	0.1		
c. Ewing & related	0	2	2	13	13	17	30	2.9	3.9	3.4	3.0	0	0	3	2	5	5	10	0.9	1.4		
d. Other specified	1	0	0	1	2	2	4	0.4	0.6	2.0	1.0	0	0	0	1	3	1	4	0.2	0.5		
e. Unspecified	0	0	0	0	1	0	1	-	0.1	-	-	0	0	0	0	0	0	0	-	-		
<b>IX SOFT TISSUE SARCOMA</b>	9	17	15	24	36	65	101	12.5	14.4	1.4	1.5	5	8	11	23	20	47	67	9.1	9.8		
a. Rhabdomyosarcoma	4	12	9	8	15	33	48	6.6	7.1	1.6	2.2	3	7	7	4	1	21	22	4.5	3.6		
b. Fibrosarcoma	2	1	0	1	2	4	6	0.9	0.9	0.7	0.8	0	0	1	5	2	6	8	1.0	1.1		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	3	4	6	11	17	24	41	4.4	5.6	1.7	1.5	0	1	2	11	13	14	27	2.5	3.7		
e. Unspecified	0	0	0	4	2	4	6	0.6	0.7	0.7	0.6	2	0	1	3	4	6	10	1.2	1.5		
<b>X GERM CELL TUMOURS</b>	5	5	3	12	84	25	109	4.7	14.6	0.9	1.9	6	3	4	16	28	29	57	5.6	8.2		
a. CNS germ cell	0	0	2	10	8	12	20	1.9	2.5	2.4	4.0	2	0	1	2	0	5	5	1.0	0.8		
b. Other extragonadal	4	2	0	0	2	6	8	1.4	1.3	0.9	1.0	4	2	0	1	1	7	8	1.6	1.4		
c. Gonadal germ cell	1	3	1	2	74	7	81	1.4	10.7	0.5	2.5	0	1	3	11	18	15	33	2.6	4.6		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	8	1	9	0.2	1.2		
e. Unspecified gonadal	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	1	1	2	0.2	0.3		
<b>XI CARCINOMA &amp; MELANOMA</b>	0	7	5	13	54	25	79	4.6	10.6	0.5	0.4	1	1	10	38	150	50	200	8.7	27.6		
a. Adrenocortical	0	3	0	0	1	3	4	0.7	0.7	1.0	1.3	0	0	2	1	0	3	3	0.6	0.4		
b. Thyroid	0	0	2	4	11	6	17	1.0	2.2	0.2	0.2	0	0	4	21	61	25	86	4.3	11.8		
c. Nasopharyngeal	0	0	0	1	0	1	1	0.2	0.1	-	-	0	0	0	0	0	0	0	-	-		
d. Melanoma	0	3	3	4	22	10	32	1.9	4.3	0.8	0.5	0	1	2	10	55	13	68	2.3	9.4		
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
f. Other & unspecified	0	1	0	4	20	5	25	0.9	3.3	0.6	0.6	1	0	2	6	34	9	43	1.6	6.0		
<b>XII OTHER &amp; UNSPECIFIED</b>	0	0	1	0	3	1	4	0.2	0.5	1.0	1.0	1	0	0	0	3	1	4	0.2	0.6		
a. Other specified	0	0	0	0	1	0	1	-	0.1	-	1.0	0	0	0	0	1	0	1	-	0.1		
b. Other unspecified	0	0	1	0	2	1	3	0.2	0.4	1.0	1.0	1	0	0	0	2	1	3	0.2	0.5		
<b>TOTAL</b>	91	357	216	279	445	943	1388	186.8	202.5	1.2	1.2	81	278	164	237	430	760	1190	158.5	182.6		

Please consult the quality indicators for this registry

## USA, Michigan, Detroit, NH White (1993-2012)

	Age group	Males	Females
Person-years	0	324 671	309 768
	1-4	1 349 089	1 278 784
	5-9	1 770 263	1 671 670
	10-14	1 847 888	1 748 444
	15-19	1 733 949	1 618 655
Total	0-14	5 291 911	5 008 666
	0-19	7 025 860	6 627 321
Average annual population	0-14	264 596	250 433
	0-19	351 293	331 366

Please consult the quality indicators for this registry