

## USA, Michigan, Detroit (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	0-19			0-14	0-19
<b>I LEUKAEMIA</b>	56	352	187	155	134	750	884	29.4	100.0	23.4	100.0	53.2	80.8	32.7	26.6	24.7	47.5	42.3	673	797	98.5	0.1
a. Lymphoid	16	290	158	95	62	559	621	21.9	74.5	16.5	70.2	15.2	66.6	27.6	16.3	11.4	35.5	30.1	502	560	99.7	0.0
b. Acute myeloid	24	39	18	39	39	120	159	4.7	16.0	4.2	18.0	22.8	9.0	3.1	6.7	7.2	7.5	7.4	107	143	98.7	0.6
c. CMD	2	6	2	8	21	18	39	0.7	2.4	1.0	4.4	1.9	1.4	0.3	1.4	3.9	1.1	1.7	16	35	89.7	0.0
d. MDS & other	7	7	2	6	7	22	29	0.9	2.9	0.8	3.3	6.7	1.6	0.3	1.0	1.3	1.4	1.4	20	26	89.7	0.0
e. Unspecified	7	10	7	7	5	31	36	1.2	4.1	1.0	4.1	6.7	2.3	1.2	1.2	0.9	2.0	1.7	28	32	94.4	0.0
<b>II LYMPHOMA &amp; RELATED</b>	6	50	76	161	319	293	612	11.5	100.0	16.2	100.0	5.7	11.5	13.3	27.6	58.9	16.3	25.9	256	551	99.2	0.0
a. Hodgkin	0	3	18	84	214	105	319	4.1	35.8	8.5	52.1	-	0.7	3.1	14.4	39.5	5.4	13.1	90	288	100.0	0.0
b. Non-Hodgkin except BL	1	28	30	52	87	111	198	4.3	37.9	5.2	32.4	1.0	6.4	5.2	8.9	16.1	6.4	8.5	98	178	99.0	0.0
c. Burkitt (BL)	0	7	17	13	11	37	48	1.4	12.6	1.3	7.8	-	1.6	3.0	2.2	2.0	2.1	2.1	32	43	100.0	0.0
d. Lymphoreticular	5	9	5	5	4	24	28	0.9	8.2	0.7	4.6	4.8	2.1	0.9	0.9	0.7	1.5	1.4	22	25	92.9	0.0
e. Unspecified	0	3	6	7	3	16	19	0.6	5.5	0.5	3.1	-	0.7	1.0	1.2	0.6	0.9	0.8	14	17	94.7	0.0
<b>III CNS NEOPLASMS</b>	28	174	171	167	118	540	658	21.2	100.0	17.4	100.0	26.6	39.9	29.9	28.6	21.8	32.4	30.0	479	588	90.9	0.3
a. Ependymoma	3	21	10	14	9	48	57	1.9	8.9	1.5	8.7	2.9	4.8	1.7	2.4	1.7	3.0	2.7	43	51	96.5	1.8
b. Astrocytoma	13	72	82	94	56	261	317	10.2	48.3	8.4	48.2	12.4	16.5	14.3	16.1	10.3	15.4	14.3	231	283	92.7	0.0
c. CNS embryonal	4	56	41	28	24	129	153	5.1	23.9	4.1	23.3	3.8	12.9	7.2	4.8	4.4	8.0	7.2	115	137	100.0	0.0
d. Other gliomas	4	21	31	27	24	83	107	3.3	15.4	2.8	16.3	3.8	4.8	5.4	4.6	4.4	4.9	4.8	73	96	69.2	0.0
e. Other specified	1	4	4	2	4	11	15	0.4	2.0	0.4	2.3	1.0	0.9	0.7	0.3	0.7	0.7	0.7	10	14	100.0	0.0
f. Unspecified CNS	3	0	3	2	1	8	9	0.3	1.5	0.2	1.4	2.9	-	0.5	0.3	0.2	0.5	0.4	7	8	77.8	11.1
<b>IV NEUROBLASTOMA</b>	66	127	26	10	9	229	238	9.0	100.0	6.3	100.0	62.7	29.1	4.5	1.7	1.7	15.8	12.6	210	218	98.3	0.0
a. (Ganglio)neuroblastoma	66	126	26	10	4	228	232	8.9	99.6	6.2	97.5	62.7	28.9	4.5	1.7	0.7	15.7	12.3	209	212	98.3	0.0
b. Peripheral nervous	0	1	0	0	5	1	6	0.0	0.4	0.2	2.5	-	0.2	-	-	0.9	0.1	0.3	1	6	100.0	0.0
<b>V RETINOBLASTOMA</b>	30	41	3	1	0	75	75	2.9	100.0	2.0	100.0	28.5	9.4	0.5	0.2	-	5.3	4.1	69	69	96.0	0.0
<b>VI RENAL TUMOURS</b>	21	95	36	10	11	162	173	6.3	100.0	4.6	100.0	20.0	21.8	6.3	1.7	2.0	10.8	8.8	147	157	100.0	0.0
a. Nephroblastoma	21	94	33	6	1	154	155	6.0	95.1	4.1	89.6	20.0	21.6	5.8	1.0	0.2	10.4	8.1	140	141	100.0	0.0
b. Renal carcinoma	0	1	3	4	10	8	18	0.3	4.9	0.5	10.4	-	0.2	0.5	0.7	1.8	0.4	0.8	7	16	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>VII HEPATIC TUMOURS</b>	17	14	5	4	3	40	43	1.6	100.0	1.1	100.0	16.2	3.2	0.9	0.7	0.6	2.7	2.2	36	39	100.0	0.0
a. Hepatoblastoma	16	13	3	1	0	33	33	1.3	82.5	0.9	76.7	15.2	3.0	0.5	0.2	-	2.3	1.8	30	30	100.0	0.0
b. Hepatic carcinoma	0	0	2	3	3	5	8	0.2	12.5	0.2	18.6	-	-	0.3	0.5	0.6	0.3	0.3	4	7	100.0	0.0
c. Unspecified	1	1	0	0	0	2	2	0.1	5.0	0.1	4.7	1.0	0.2	-	-	-	0.1	0.1	2	2	100.0	0.0
<b>VIII BONE TUMOURS</b>	1	2	20	63	92	86	178	3.4	100.0	4.7	100.0	1.0	0.5	3.5	10.8	17.0	4.5	7.3	74	159	99.4	0.0
a. Osteosarcoma	0	0	14	41	58	55	113	2.2	64.0	3.0	63.5	-	-	2.4	7.0	10.7	2.8	4.6	47	101	100.0	0.0
b. Chondrosarcoma	0	0	1	4	5	5	10	0.2	5.8	0.3	5.6	-	-	0.2	0.7	0.9	0.3	0.4	4	9	90.0	0.0
c. Ewing & related	0	2	5	15	22	22	44	0.9	25.6	1.2	24.7	-	0.5	0.9	2.6	4.1	1.2	1.8	19	39	100.0	0.0
d. Other specified	1	0	0	2	6	3	9	0.1	3.5	0.2	5.1	1.0	-	-	0.3	1.1	0.2	0.4	3	8	100.0	0.0
e. Unspecified	0	0	0	1	1	1	2	0.0	1.2	0.1	1.1	-	-	-	0.2	0.2	0.0	0.1	1	2	100.0	0.0
<b>IX SOFT TISSUE SARCOMA</b>	21	44	45	74	95	184	279	7.2	100.0	7.4	100.0	20.0	10.1	7.9	12.7	17.5	10.9	12.4	163	251	99.3	0.0
a. Rhabdomyosarcoma	10	32	27	19	23	88	111	3.4	47.8	2.9	39.8	9.5	7.3	4.7	3.3	4.2	5.5	5.2	79	100	99.1	0.0
b. Fibrosarcoma	4	3	3	11	9	21	30	0.8	11.4	0.8	10.8	3.8	0.7	0.5	1.9	1.7	1.2	1.3	19	27	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Other specified	5	8	13	34	50	60	110	2.4	32.6	2.9	39.4	4.8	1.8	2.3	5.8	9.2	3.4	4.7	53	99	99.1	0.0
e. Unspecified	2	1	2	10	13	15	28	0.6	8.2	0.7	10.0	1.9	0.2	0.3	1.7	2.4	0.8	1.2	13	25	100.0	0.0
<b>X GERM CELL TUMOURS</b>	26	16	9	40	152	91	243	3.6	100.0	6.4	100.0	24.7	3.7	1.6	6.9	28.1	5.5	10.6	81	221	97.5	0.0
a. CNS germ cell	2	1	3	15	14	21	35	0.8	23.1	0.9	14.4	1.9	0.2	0.5	2.6	2.6	1.1	1.5	18	31	97.1	0.0
b. Other extragonadal	20	8	0	2	12	30	42	1.2	33.0	1.1	17.3	19.0	1.8	-	0.3	2.2	2.1	2.1	28	39	95.2	0.0
c. Gonadal germ cell	4	6	6	20	113	36	149	1.4	39.6	4.0	61.3	3.8	1.4	1.0	3.4	20.9	2.0	6.3	32	136	99.3	0.0
d. Gonadal carcinoma	0	0	0	2	8	2	10	0.1	2.2	0.3	4.1	-	-	-	0.3	1.5	0.1	0.4	2	9	80.0	0.0
e. Unspecified gonadal	0	1	0	1	5	2	7	0.1	2.2	0.2	2.9	-	0.2	-	0.2	0.9	0.1	0.3	2	6	100.0	0.0
<b>XI CARCINOMA &amp; MELANOMA</b>	1	12	20	67	275	100	375	3.9	100.0	9.9	100.0	1.0	2.8	3.5	11.5	50.8	5.4	15.6	87	341	98.9	0.0
a. Adrenocortical	0	4	2	1	1	7	8	0.3	7.0	0.2	2.1	-	0.9	0.3	0.2	0.2	0.4	0.4	6	7	100.0	0.0
b. Thyroid	0	0	9	29	93	38	131	1.5	38.0	3.5	34.9	-	-	1.6	5.0	17.2	2.0	5.4	33	119	100.0	0.0
c. Nasopharyngeal	0	0	0	4	6	4	10	0.2	4.0	0.3	2.7	-	-	-	0.7	1.1	0.2	0.4	3	9	100.0	0.0
d. Melanoma	0	7	6	15	84	28	112	1.1	28.0	3.0	29.9	-	1.6	1.0	2.6	15.5	1.6	4.7	25	102	100.0	0.0
e. Skin carcinoma	0	0	0	1	2	1	3	0.0	1.0	0.1	0.8	-	-	-	0.2	0.4	0.0	0.1	1	3	100.0	0.0
f. Other & unspecified	1	1	3	17	89	22	111	0.9	22.0	2.9	29.6	1.0	0.2	0.5	2.9	16.4	1.2	4.6	19	101	96.4	0.0
<b>XII OTHER &amp; UNSPECIFIED</b>	2	0	1	0	11	3	14	0.1	100.0	0.4	100.0	1.9	-	0.2	-	2.0	0.2	0.6	3	13	85.7	7.1
a. Other specified	1	0	0	0	2	1	3	0.0	33.3	0.1	21.4	1.0	-	-	-	0.4	0.1	0.1	1	3	100.0	0.0
b. Other unspecified	1	0	1	0	9	2	11	0.1	66.7	0.3	78.6	1.0	-	0.2	-	1.7	0.1	0.5	2	10	81.8	9.1
<b>TOTAL</b>	275	927	599	752	1219	2553	3772	100.0	100.0	100.0	100.0	261.3	212.7	104.8	128.9	225.1	157.2	172.5	2279	3405	97.3	0.1

Please consult the quality indicators for this registry

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

	Males										M/F ratio		Females									
	Number of cases in age groups					ASR per million					0-14	0-19	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			1-4	5-9	10-14	15-19	0-14	0-19	0-14	0-19		
<b>I LEUKAEMIA</b>	37	197	102	85	71	421	492	52.3	46.3	1.3	1.3	19	155	85	70	63	329	392	42.4	38.3		
a. Lymphoid	8	164	87	50	37	309	346	38.5	32.9	1.2	1.3	8	126	71	45	25	250	275	32.4	27.2		
b. Acute myeloid	18	19	11	23	19	71	90	8.6	8.2	1.4	1.3	6	20	7	16	20	49	69	6.2	6.5		
c. CMD	2	4	2	6	9	14	23	1.6	2.0	3.5	1.4	0	2	0	2	12	4	16	0.5	1.4		
d. MDS & other	4	3	0	2	4	9	13	1.2	1.2	0.7	0.8	3	4	2	4	3	13	16	1.7	1.5		
e. Unspecified	5	7	2	4	2	18	20	2.3	1.9	1.4	1.3	2	3	5	3	3	13	16	1.6	1.5		
<b>II LYMPHOMA &amp; RELATED</b>	4	34	54	97	166	189	355	20.7	29.5	1.8	1.4	2	16	22	64	153	104	257	11.7	22.1		
a. Hodgkin	0	3	9	44	97	56	153	5.7	12.3	1.1	0.9	0	0	9	40	117	49	166	5.1	13.9		
b. Non-Hodgkin except BL	0	16	20	37	57	73	130	8.0	10.9	1.9	1.9	1	12	10	15	30	38	68	4.6	6.1		
c. Burkitt (BL)	0	7	15	9	8	31	39	3.5	3.4	5.2	4.3	0	0	2	4	3	6	9	0.6	0.8		
d. Lymphoreticular	4	6	4	2	3	16	19	2.0	1.8	2.0	2.1	1	3	1	3	1	8	9	1.0	0.9		
e. Unspecified	0	2	6	5	1	13	14	1.4	1.2	4.3	2.8	0	1	0	2	2	3	5	0.3	0.4		
<b>III CNS NEOPLASMS</b>	17	91	98	92	60	298	358	34.9	31.9	1.2	1.2	11	83	73	75	58	242	300	29.8	28.1		
a. Ependymoma	2	15	5	8	4	30	34	3.7	3.2	1.7	1.5	1	6	5	6	5	18	23	2.2	2.1		
b. Astrocytoma	7	36	47	45	30	135	165	15.6	14.5	1.1	1.1	6	36	35	49	26	126	152	15.2	14.0		
c. CNS embryonal	3	30	25	19	10	77	87	9.2	8.0	1.5	1.3	1	26	16	9	14	52	66	6.7	6.4		
d. Other gliomas	2	8	17	18	13	45	58	5.0	4.9	1.2	1.2	2	13	14	9	11	38	49	4.7	4.6		
e. Other specified	1	2	3	1	2	7	9	0.8	0.8	1.8	1.5	0	2	1	1	2	4	6	0.5	0.6		
f. Unspecified CNS	2	0	1	1	1	4	5	0.5	0.5	1.0	1.3	1	0	2	1	0	4	4	0.5	0.4		
<b>IV NEUROBLASTOMA</b>	29	61	11	5	6	106	112	14.3	11.6	0.9	0.9	37	66	15	5	3	123	126	17.3	13.7		
a. (Ganglio)neuroblastoma	29	60	11	5	2	105	107	14.2	11.1	0.9	0.9	37	66	15	5	2	123	125	17.3	13.6		
b. Peripheral nervous	0	1	0	0	4	1	5	0.1	0.4	-	5.0	0	0	0	0	1	0	1	-	0.1		
<b>V RETINOBLASTOMA</b>	18	29	1	0	0	48	48	6.7	5.2	1.8	1.8	12	12	2	1	0	27	27	3.8	3.0		
<b>VI RENAL TUMOURS</b>	11	40	11	6	4	68	72	8.9	7.2	0.7	0.7	10	55	25	4	7	94	101	12.8	10.5		
a. Nephroblastoma	11	39	11	4	0	65	65	8.6	6.7	0.7	0.7	10	55	22	2	1	89	90	12.3	9.6		
b. Renal carcinoma	0	1	0	2	4	3	7	0.3	0.6	0.6	0.6	0	0	3	2	6	5	11	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>	9	7	4	3	2	23	25	3.0	2.5	1.4	1.4	8	7	1	1	1	17	18	2.4	2.0		
a. Hepatoblastoma	9	7	3	0	0	19	19	2.6	2.0	1.4	1.4	7	6	0	1	0	14	14	2.0	1.6		
b. Hepatic carcinoma	0	0	1	3	2	4	6	0.4	0.5	4.0	3.0	0	0	1	0	1	1	2	0.1	0.2		
c. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	1	1	0	0	0	2	2	0.3	0.2		
<b>VIII BONE TUMOURS</b>	1	2	9	40	62	52	114	5.3	9.1	1.5	1.8	0	0	11	23	30	34	64	3.6	5.4		
a. Osteosarcoma	0	0	7	22	38	29	67	2.9	5.3	1.1	1.5	0	0	7	19	20	26	46	2.7	3.8		
b. Chondrosarcoma	0	0	0	4	4	4	8	0.4	0.6	4.0	4.0	0	0	1	0	1	1	2	0.1	0.2		
c. Ewing & related	0	2	2	13	17	17	34	1.8	2.7	3.4	3.4	0	0	3	2	5	5	10	0.6	0.9		
d. Other specified	1	0	0	1	2	2	4	0.2	0.3	2.0	0.8	0	0	0	1	4	1	5	0.1	0.4		
e. Unspecified	0	0	0	0	1	0	1	-	0.1	0.0	1.0	0	0	0	1	0	1	1	0.1	0.1		
<b>IX SOFT TISSUE SARCOMA</b>	12	27	29	37	54	105	159	12.3	13.9	1.3	1.3	9	17	16	37	41	79	120	9.4	10.8		
a. Rhabdomyosarcoma	5	19	18	10	18	52	70	6.3	6.4	1.4	1.7	5	13	9	9	5	36	41	4.6	4.0		
b. Fibrosarcoma	2	2	2	4	4	10	14	1.2	1.2	0.9	0.9	2	1	1	7	5	11	16	1.3	1.4		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	5	5	9	17	27	36	63	4.0	5.3	1.5	1.3	0	3	4	17	23	24	47	2.6	4.0		
e. Unspecified	0	1	0	6	5	7	12	0.7	1.0	0.9	0.8	2	0	2	4	8	8	16	0.9	1.4		
<b>X GERM CELL TUMOURS</b>	12	7	4	15	98	38	136	4.6	11.5	0.7	1.3	14	9	5	25	54	53	107	6.5	9.6		
a. CNS germ cell	0	0	2	13	11	15	26	1.5	2.0	2.5	2.9	2	1	1	2	3	6	9	0.8	0.8		
b. Other extragonadal	8	2	0	0	2	10	12	1.4	1.2	0.5	0.4	12	6	0	2	10	20	30	2.8	3.1		
c. Gonadal germ cell	4	4	2	2	84	12	96	1.5	8.0	0.5	1.8	0	2	4	18	29	24	53	2.6	4.5		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	2	8	2	10	0.2	0.8		
e. Unspecified gonadal	0	1	0	0	1	1	2	0.1	0.2	1.0	0.4	0	0	0	1	4	1	5	0.1	0.4		
<b>XI CARCINOMA &amp; MELANOMA</b>	0	9	7	22	82	38	120	4.2	9.9	0.6	0.5	1	3	13	45	193	62	255	6.7	21.6		
a. Adrenocortical	0	3	0	0	1	3	4	0.4	0.4	0.8	1.0	0	1	2	1	0	4	4	0.5	0.4		
b. Thyroid	0	0	3	6	15	9	24	0.9	1.9	0.3	0.2	0	0	6	23	78	29	107	3.0	9.0		
c. Nasopharyngeal	0	0	0	4	4	4	8	0.4	0.6	-	4.0	0	0	0	0	2	0	2	-	0.2		
d. Melanoma	0	5	4	4	26	13	39	1.5	3.3	0.9	0.5	0	2	2	11	58	15	73	1.6	6.2		
e. Skin carcinoma	0	0	0	0	2	0	2	-	0.2	0.0	2.0	0	0	0	1	0	1	1	0.1	0.1		
f. Other & unspecified	0	1	0	8	34	9	43	0.9	3.5	0.7	0.6	1	0	3	9	55	13	68	1.4	5.8		
<b>XII OTHER &amp; UNSPECIFIED</b>	1	0	1	0	5	2	7	0.3	0.6	2.0	1.0	1	0	0	0	6	1	7	0.1	0.6		
a. Other specified	1	0	0	0	1	1	2	0.1	0.2	-	2.0	0	0	0	0	1	0	1	-	0.1		
b. Other unspecified	0	0	1	0	4	1	5	0.1	0.4	1.0	0.8	1	0	0	0	5	1	6	0.1	0.5		
<b>TOTAL</b>	151	504	331	402	610	1388	1998	167.3	179.1	1.2	1.1	124	423	268	350	609	1165	1774	146.7	165.6		

Please consult the quality indicators for this registry

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

	Age group	Males	Females
Person-years	0	538 016	514 485
	1-4	2 227 004	2 130 327
	5-9	2 926 527	2 789 577
	10-14	2 983 432	2 851 437
	15-19	2 778 755	2 637 032
Total	0-14	8 674 979	8 285 826
	0-19	11 453 734	10 922 858
Average annual population	0-14	433 749	414 291
	0-19	572 687	546 143

Please consult the quality indicators for this registry