

USA, Michigan, Detroit, 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
I LEUKAEMIA	36	285	130	115	97	566	663	31.0	100.0	24.2	100.0	52.2	100.7	35.4	30.2	27.4	55.5	49.2	784	921	98.6	0.2	
a. Lymphoid	12	243	112	72	49	439	488	24.0	77.6	17.8	73.6	17.4	85.9	30.5	18.9	13.8	43.4	36.7	609	678	99.6	0.0	
b. Acute myeloid	15	25	13	29	25	82	107	4.5	14.5	3.9	16.1	21.8	8.8	3.5	7.6	7.1	7.8	7.6	113	148	99.1	0.9	
c. CMD	2	4	2	3	17	11	28	0.6	1.9	1.0	4.2	2.9	1.4	0.5	0.8	4.8	1.1	1.9	15	39	85.7	0.0	
d. MDS & other	4	7	0	5	2	16	18	0.9	2.8	0.7	2.7	5.8	2.5	-	1.3	0.6	1.6	1.4	22	25	94.4	0.0	
e. Unspecified	3	6	3	6	4	18	22	1.0	3.2	0.8	3.3	4.4	2.1	0.8	1.6	1.1	1.7	1.6	25	30	95.5	0.0	
II LYMPHOMA & RELATED	6	39	57	118	253	220	473	12.0	100.0	17.3	100.0	8.7	13.8	15.5	31.0	71.4	19.0	30.8	297	654	98.9	0.0	
a. Hodgkin	0	3	13	59	181	75	256	4.1	34.1	9.3	54.1	-	1.1	3.5	15.5	51.1	6.0	16.1	100	355	100.0	0.0	
b. Non-Hodgkin except BL	1	19	20	40	57	80	137	4.4	36.4	5.0	29.0	1.5	6.7	5.4	10.5	16.1	7.0	9.1	108	189	98.5	0.0	
c. Burkitt (BL)	0	5	15	10	9	30	39	1.6	13.6	1.4	8.2	-	1.8	4.1	2.6	2.5	2.6	2.6	41	53	100.0	0.0	
d. Lymphoreticular	5	9	4	5	4	23	27	1.3	10.5	1.0	5.7	7.3	3.2	1.1	1.3	1.1	2.3	2.0	32	38	92.6	0.0	
e. Unspecified	0	3	5	4	2	12	14	0.7	5.5	0.5	3.0	-	1.1	1.4	1.1	0.6	1.1	1.0	16	19	92.9	0.0	
III CNS NEOPLASMS	16	132	112	121	92	381	473	20.9	100.0	17.3	100.0	23.2	46.6	30.5	31.8	26.0	35.4	33.2	522	652	90.9	0.2	
a. Ependymoma	3	15	6	12	8	36	44	2.0	9.4	1.6	9.3	4.4	5.3	1.6	3.2	2.3	3.4	3.2	50	61	97.7	0.0	
b. Astrocytoma	7	51	51	66	40	175	215	9.6	45.9	7.8	45.5	10.2	18.0	13.9	17.4	11.3	15.9	14.9	239	295	92.1	0.0	
c. CNS embryonal	2	47	29	22	23	100	123	5.5	26.2	4.5	26.0	2.9	16.6	7.9	5.8	6.5	9.6	8.9	138	170	100.0	0.0	
d. Other gliomas	3	15	21	17	20	56	76	3.1	14.7	2.8	16.1	4.4	5.3	5.7	4.5	5.6	5.1	5.2	77	105	69.7	0.0	
e. Other specified	0	4	3	2	0	9	9	0.5	2.4	0.3	1.9	-	1.4	0.8	0.5	-	0.9	0.7	12	12	100.0	0.0	
f. Unspecified CNS	1	0	2	2	1	5	6	0.3	1.3	0.2	1.3	1.5	-	0.5	0.5	0.3	0.4	0.4	7	8	66.7	16.7	
IV NEUROBLASTOMA	53	87	18	6	5	164	169	9.0	100.0	6.2	100.0	76.9	30.7	4.9	1.6	1.4	17.4	13.8	231	238	97.6	0.0	
a. (Ganglio)neuroblastoma	53	87	18	6	1	164	165	9.0	100.0	6.0	97.6	76.9	30.7	4.9	1.6	0.3	17.4	13.6	231	233	97.6	0.0	
b. Peripheral nervous	0	0	0	0	4	0	4	-	-	0.1	2.4	-	-	-	-	1.1	-	0.3	-	6	100.0	0.0	
V RETINOBLASTOMA	17	24	3	1	0	45	45	2.5	100.0	1.6	100.0	24.7	8.5	0.8	0.3	-	4.8	3.8	64	64	97.8	0.0	
VI RENAL TUMOURS	12	64	19	6	4	101	105	5.5	100.0	3.8	100.0	17.4	22.6	5.2	1.6	1.1	10.5	8.4	142	147	100.0	0.0	
a. Nephroblastoma	12	64	16	4	0	96	96	5.3	95.0	3.5	91.4	17.4	22.6	4.4	1.1	-	10.1	7.8	135	135	100.0	0.0	
b. Renal carcinoma	0	0	3	2	4	5	9	0.3	5.0	0.3	8.6	-	-	0.8	0.5	1.1	0.4	0.6	7	12	100.0	0.0	
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VII HEPATIC TUMOURS	14	10	4	1	2	29	31	1.6	100.0	1.1	100.0	20.3	3.5	1.1	0.3	0.6	3.1	2.5	41	44	100.0	0.0	
a. Hepatoblastoma	13	10	3	0	0	26	26	1.4	89.7	0.9	83.9	18.9	3.5	0.8	-	-	2.8	2.2	37	37	100.0	0.0	
b. Hepatic carcinoma	0	0	1	1	2	2	4	0.1	6.9	0.1	12.9	-	-	0.3	0.3	0.6	0.2	0.3	3	5	100.0	0.0	
c. Unspecified	1	0	0	0	0	1	1	0.1	3.4	0.0	3.2	1.5	-	-	-	-	0.1	0.1	1	1	100.0	0.0	
VIII BONE TUMOURS	1	2	15	44	63	62	125	3.4	100.0	4.6	100.0	1.5	0.7	4.1	11.6	17.8	5.0	7.9	83	171	100.0	0.0	
a. Osteosarcoma	0	0	10	24	36	34	70	1.9	54.8	2.6	56.0	-	-	2.7	6.3	10.2	2.7	4.4	45	96	100.0	0.0	
b. Chondrosarcoma	0	0	0	3	2	3	5	0.2	4.8	0.2	4.0	-	-	-	0.8	0.6	0.2	0.3	4	7	100.0	0.0	
c. Ewing & related	0	2	5	15	19	22	41	1.2	35.5	1.5	32.8	-	0.7	1.4	3.9	5.4	1.8	2.6	29	56	100.0	0.0	
d. Other specified	1	0	0	2	5	3	8	0.2	4.8	0.3	6.4	1.5	-	-	0.5	1.4	0.3	0.5	4	11	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	
IX SOFT TISSUE SARCOMA	14	27	28	48	59	117	176	6.4	100.0	6.4	100.0	20.3	9.5	7.6	12.6	16.6	10.6	12.0	159	243	99.4	0.0	
a. Rhabdomyosarcoma	7	19	17	12	16	55	71	3.0	47.0	2.6	40.3	10.2	6.7	4.6	3.2	4.5	5.3	5.1	76	98	100.0	0.0	
b. Fibrosarcoma	2	1	1	7	4	11	15	0.6	9.4	0.5	8.5	2.9	0.4	0.3	1.8	1.1	1.0	1.0	15	20	100.0	0.0	
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d. Other specified	3	7	9	22	32	41	73	2.2	35.0	2.7	41.5	4.4	2.5	2.4	5.8	9.0	3.6	4.8	55	101	98.6	0.0	
e. Unspecified	2	0	1	7	7	10	17	0.5	8.5	0.6	9.7	2.9	-	0.3	1.8	2.0	0.8	1.1	13	23	100.0	0.0	
X GERM CELL TUMOURS	11	10	7	30	120	58	178	3.2	100.0	6.5	100.0	16.0	3.5	1.9	7.9	33.8	5.2	11.7	79	248	97.8	0.0	
a. CNS germ cell	2	0	3	13	9	18	27	1.0	31.0	1.0	15.2	2.9	-	0.8	3.4	2.5	1.5	1.7	24	37	96.3	0.0	
b. Other extragonadal	8	5	0	1	4	14	18	0.8	24.1	0.7	10.1	11.6	1.8	-	0.3	1.1	1.5	1.4	20	25	100.0	0.0	
c. Gonadal germ cell	1	5	4	14	98	24	122	1.3	41.4	4.5	68.5	1.5	1.8	1.1	3.7	27.6	2.1	7.8	32	171	99.2	0.0	
d. Gonadal carcinoma	0	0	0	1	8	1	9	0.1	1.7	0.3	5.1	-	-	-	0.3	2.3	0.1	0.6	1	13	77.8	0.0	
e. Unspecified gonadal	0	0	0	1	1	1	2	0.1	1.7	0.1	1.1	-	-	-	0.3	0.3	0.1	0.1	1	3	100.0	0.0	
XI CARCINOMA & MELANOMA	1	8	17	55	214	81	295	4.4	100.0	10.8	100.0	1.5	2.8	4.6	14.5	60.4	6.7	18.8	108	410	99.3	0.0	
a. Adrenocortical	0	3	2	1	1	6	7	0.3	7.4	0.3	2.4	-	1.1	0.5	0.3	0.3	0.6	0.5	8	10	100.0	0.0	
b. Thyroid	0	0	7	27	77	34	111	1.9	42.0	4.0	37.6	-	-	1.9	7.1	21.7	2.7	7.0	45	154	100.0	0.0	
c. Nasopharyngeal	0	0	0	1	0	1	1	0.1	1.2	0.0	0.3	-	-	-	0.3	-	0.1	0.1	1	1	100.0	0.0	
d. Melanoma	0	4	6	15	79	25	104	1.4	30.9	3.8	35.3	-	1.4	1.6	3.9	22.3	2.1	6.7	34	145	100.0	0.0	
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
f. Other & unspecified	1	1	2	11	57	15	72	0.8	18.5	2.6	24.4	1.5	0.4	0.5	2.9	16.1	1.2	4.6	20	100	97.2	0.0	
XII OTHER & UNSPECIFIED	1	0	1	0	6	2	8	0.1	100.0	0.3	100.0	1.5	-	0.3	-	1.7	0.2	0.5	3	11	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	1.5	-	0.3	-	1.1	0.2	0.4	3	8	83.3	16.7	
TOTAL	182	688	411	545	915	1826	2741	100.0	100.0	100.0	100.0	263.9	243.1	111.9	143.4	258.1	173.4	192.4	2512	3802	97.4	0.1	

Please consult the quality indicators for this registry

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

	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	24	158	80	59	54	321	375	61.5	54.2	1.3	1.3	12	127	50	56	43	245	288	49.2	43.8				
a. Lymphoid	6	137	67	35	31	245	276	47.3	40.5	1.3	1.3	6	106	45	37	18	194	212	39.2	32.8				
b. Acute myeloid	11	12	9	17	12	49	61	9.0	8.4	1.5	1.3	4	13	4	12	13	33	46	6.4	6.7				
c. CMD	2	3	2	2	9	9	18	1.7	2.4	4.5	1.8	0	1	0	1	8	2	10	0.4	1.3				
d. MDS & other	2	3	0	2	1	7	8	1.4	1.2	0.8	0.8	2	4	0	3	1	9	10	1.8	1.5				
e. Unspecified	3	3	2	3	1	11	12	2.1	1.7	1.6	1.2	0	3	1	3	3	7	10	1.3	1.4				
II LYMPHOMA & RELATED	4	26	37	76	134	143	277	24.0	35.1	1.9	1.4	2	13	20	42	119	77	196	13.6	26.2				
a. Hodgkin	0	3	6	33	84	42	126	6.6	15.4	1.3	1.0	0	0	7	26	97	33	130	5.3	16.9				
b. Non-Hodgkin except BL	0	10	10	29	39	49	88	8.2	11.1	1.6	1.8	1	9	10	11	18	31	49	5.8	6.9				
c. Burkitt (BL)	0	5	13	8	8	26	34	4.5	4.5	6.5	6.8	0	0	2	2	1	4	5	0.7	0.7				
d. Lymphoreticular	4	6	3	2	3	15	18	3.0	2.7	1.9	2.0	1	3	1	3	1	8	9	1.6	1.3				
e. Unspecified	0	2	5	4	0	11	11	1.9	1.5	11.0	3.7	0	1	0	0	2	1	3	0.2	0.4				
III CNS NEOPLASMS	8	73	70	71	45	222	267	39.9	36.4	1.4	1.3	8	59	42	50	47	159	206	30.6	29.9				
a. Ependymoma	2	11	3	8	4	24	28	4.5	4.0	2.0	1.8	1	4	3	4	4	12	16	2.3	2.3				
b. Astrocytoma	4	26	31	33	21	94	115	16.6	15.5	1.2	1.1	3	25	20	33	19	81	100	15.1	14.2				
c. CNS embryonal	1	27	20	15	9	63	72	11.6	10.1	1.7	1.4	1	20	9	7	14	37	51	7.5	7.6				
d. Other gliomas	1	7	12	13	10	33	43	5.7	5.6	1.4	1.3	2	8	9	4	10	23	33	4.5	4.8				
e. Other specified	0	2	3	1	0	6	6	1.1	0.8	2.0	2.0	0	2	0	1	0	3	3	0.6	0.5				
f. Unspecified CNS	0	0	1	1	1	2	3	0.3	0.4	0.7	1.0	1	0	1	1	0	3	3	0.6	0.4				
IV NEUROBLASTOMA	22	46	8	3	4	79	83	16.4	13.2	0.9	1.0	31	41	10	3	1	85	86	18.5	14.5				
a. (Ganglio)neuroblastoma	22	46	8	3	1	79	80	16.4	12.8	0.9	0.9	31	41	10	3	0	85	85	18.5	14.4				
b. Peripheral nervous	0	0	0	0	3	0	3	-	0.4	-	3.0	0	0	0	0	1	0	1	-	0.1				
V RETINOBLASTOMA	11	19	1	0	0	31	31	6.6	5.1	2.2	2.2	6	5	2	1	0	14	14	3.0	2.3				
VI RENAL TUMOURS	6	27	4	5	1	42	43	8.5	6.7	0.7	0.7	6	37	15	1	3	59	62	12.6	10.1				
a. Nephroblastoma	6	27	4	3	0	40	40	8.2	6.4	0.7	0.7	6	37	12	1	0	56	56	12.0	9.3				
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	0.5	0.8				
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
VII HEPATIC TUMOURS	8	5	3	1	1	17	18	3.4	2.8	1.4	1.4	6	5	1	0	1	12	13	2.7	2.2				
a. Hepatoblastoma	8	5	3	0	0	16	16	3.3	2.6	1.6	1.6	5	5	0	0	0	10	10	2.3	1.8				
b. Hepatic carcinoma	0	0	0	1	1	1	2	0.1	0.2	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				
VIII BONE TUMOURS	1	2	6	29	43	38	81	6.0	9.9	1.6	1.8	0	0	9	15	20	24	44	4.0	5.7				
a. Osteosarcoma	0	0	4	12	25	16	41	2.5	5.0	0.9	1.4	0	0	6	12	11	18	29	3.0	3.7				
b. Chondrosarcoma	0	0	0	3	1	3	4	0.4	0.5	-	4.0	0	0	0	0	1	0	1	-	0.1				
c. Ewing & related	0	2	2	13	14	17	31	2.7	3.8	3.4	3.1	0	0	3	2	5	5	10	0.9	1.3				
d. Other specified	1	0	0	1	2	2	4	0.4	0.5	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	-	-				
IX SOFT TISSUE SARCOMA	9	18	15	24	37	66	103	11.9	13.8	1.3	1.4	5	9	13	24	22	51	73	9.3	10.1				
a. Rhabdomyosarcoma	4	12	9	8	15	33	48	6.2	6.6	1.5	2.1	3	7	8	4	1	22	23	4.3	3.5				
b. Fibrosarcoma	2	1	0	1	2	4	6	0.8	0.9	0.6	0.7	0	0	1	6	2	7	9	1.1	1.1				
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
d. Other specified	3	5	6	11	17	25	42	4.4	5.5	1.6	1.4	0	2	3	11	15	16	31	2.7	4.1				
e. Unspecified	0	0	0	4	3	4	7	0.6	0.8	0.7	0.7	2	0	1	3	4	6	10	1.1	1.4				
X GERM CELL TUMOURS	5	6	3	13	90	27	117	4.8	14.8	0.9	1.9	6	4	4	17	30	31	61	5.7	8.3				
a. CNS germ cell	0	0	2	11	9	13	22	2.0	2.6	2.6	4.4	2	0	1	2	0	5	5	0.9	0.7				
b. Other extragonadal	4	2	0	0	2	6	8	1.3	1.2	0.8	0.8	4	3	0	1	2	8	10	1.7	1.6				
c. Gonadal germ cell	1	4	1	2	79	8	87	1.5	10.9	0.5	2.5	0	1	3	12	19	16	35	2.7	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				
XI CARCINOMA & MELANOMA	0	7	6	14	56	27	83	4.6	10.4	0.5	0.4	1	1	11	41	158	54	212	8.9	27.7				
a. Adrenocortical	0	3	0	0	1	3	4	0.6	0.6	1.0	1.3	0	0	2	1	0	3	3	0.5	0.4				
b. Thyroid	0	0	2	5	12	7	19	1.1	2.3	0.3	0.2	0	0	5	22	65	27	92	4.4	11.9				
c. Nasopharyngeal	0	0	0	1	0	1	1	0.1	0.1	-	-	0	0	0	0	0	0	0	-	-				
d. Melanoma	0	3	4	4	23	11	34	1.9	4.3	0.8	0.5	0	1	2	11	56	14	70	2.3	9.2				
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	0.8	3.1	0.5	0.5	1	0	2	7	37	10	47	1.7	6.2				
XII OTHER & UNSPECIFIED	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	0.4				
TOTAL	98	387	234	295	468	1014	1482	187.8	202.9	1.2	1.2	84	301	177	250	447	812	1259	158.2	181.4				

Please consult the quality indicators for this registry

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

	Age group	Males	Females
Person-years	0	353 353	336 173
	1-4	1 452 309	1 377 739
	5-9	1 888 750	1 785 620
	10-14	1 953 034	1 848 846
	15-19	1 835 694	1 709 401
Total	0-14	5 647 446	5 348 378
	0-19	7 483 140	7 057 779
Average annual population	0-14	282 372	267 419
	0-19	374 157	352 889

Please consult the quality indicators for this registry