

USA, Massachusetts (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	60	426	213	175	188	874	1062	28.6	100.0	22.9	100.0	52.8	93.1	35.4	27.7	28.0	52.4	46.9	741	881	99.0	0.0
a. Lymphoid	36	380	186	116	106	718	824	23.5	82.2	17.7	77.6	31.7	83.0	30.9	18.3	15.8	43.5	37.3	610	689	100.0	0.0
b. Acute myeloid	18	37	18	44	54	117	171	3.8	13.4	3.7	16.1	15.8	8.1	3.0	7.0	8.1	6.7	7.0	98	138	98.8	0.0
c. CMD	1	4	7	11	21	23	44	0.8	2.6	0.9	4.1	0.9	0.9	1.2	1.7	3.1	1.2	1.6	19	35	84.1	0.0
d. MDS & other	2	4	1	3	6	10	16	0.3	1.1	0.3	1.5	1.8	0.9	0.2	0.5	0.9	0.6	0.7	8	13	100.0	0.0
e. Unspecified	3	1	1	1	1	6	7	0.2	0.7	0.2	0.7	2.6	0.2	0.2	0.2	0.1	0.4	0.3	5	6	71.4	0.0
II LYMPHOMA & RELATED	10	44	89	191	384	334	718	10.9	100.0	15.5	100.0	8.8	9.6	14.8	30.2	57.3	17.2	26.2	272	559	99.2	0.1
a. Hodgkin	0	3	24	93	232	120	352	3.9	35.9	7.6	49.0	-	0.7	4.0	14.7	34.6	5.8	12.2	96	269	99.7	0.0
b. Non-Hodgkin except BL	3	19	43	66	121	131	252	4.3	39.2	5.4	35.1	2.6	4.2	7.1	10.4	18.0	6.8	9.4	107	197	99.2	0.0
c. Burkitt (BL)	0	10	19	23	23	52	75	1.7	15.6	1.6	10.4	-	2.2	3.2	3.6	3.4	2.8	2.9	43	60	98.7	0.0
d. Lymphoreticular	6	12	3	9	4	30	34	1.0	9.0	0.7	4.7	5.3	2.6	0.5	1.4	0.6	1.8	1.5	25	28	100.0	0.0
e. Unspecified	1	0	0	0	4	1	5	0.0	0.3	0.1	0.7	0.9	-	-	-	0.6	0.1	0.2	1	4	60.0	20.0
III CNS NEOPLASMS †	41	245	264	240	251	790	1041	25.9	100.0	22.4	100.0	36.1	53.5	43.9	37.9	37.4	44.5	42.9	659	847	81.0	0.2
a. Ependymoma	11	28	17	17	22	73	95	2.4	9.2	2.0	9.1	9.7	6.1	2.8	2.7	3.3	4.3	4.1	62	78	98.9	0.0
b. Astrocytoma	12	119	119	101	84	351	435	11.5	44.4	9.4	41.8	10.6	26.0	19.8	16.0	12.5	19.9	18.2	293	356	85.1	0.0
c. CNS embryonal	14	48	46	33	22	141	163	4.6	17.8	3.5	15.7	12.3	10.5	7.6	5.2	3.3	8.2	7.1	119	135	99.4	0.0
d. Other gliomas	2	28	42	39	38	111	149	3.6	14.1	3.2	14.3	1.8	6.1	7.0	6.2	5.7	6.1	6.0	92	120	43.0	0.0
e. Other specified	2	12	29	46	79	89	168	2.9	11.3	3.6	16.1	1.8	2.6	4.8	7.3	11.8	4.6	6.2	73	132	82.7	0.0
f. Unspecified CNS	0	10	11	4	6	25	31	0.8	3.2	0.7	3.0	-	2.2	1.8	0.6	0.9	1.5	1.3	21	26	45.2	6.5
IV NEUROBLASTOMA	95	123	28	18	7	264	271	8.6	100.0	5.8	100.0	83.6	26.9	4.7	2.8	1.0	17.1	13.5	228	233	98.9	0.0
a. (Ganglio)neuroblastoma	95	123	27	16	5	261	266	8.5	98.9	5.7	98.2	83.6	26.9	4.5	2.5	0.7	17.0	13.3	226	230	98.9	0.0
b. Peripheral nervous	0	0	1	2	2	3	5	0.1	1.1	0.1	1.8	-	-	0.2	0.3	0.3	0.1	0.2	2	4	100.0	0.0
V RETINOBLASTOMA	23	35	2	1	0	61	61	2.0	100.0	1.3	100.0	20.2	7.6	0.3	0.2	-	4.1	3.2	53	53	77.0	0.0
VI RENAL TUMOURS	19	88	38	8	7	153	160	5.0	100.0	3.4	100.0	16.7	19.2	6.3	1.3	1.0	9.7	7.7	132	137	99.4	0.0
a. Nephroblastoma	19	88	34	5	2	146	148	4.8	95.4	3.2	92.5	16.7	19.2	5.7	0.8	0.3	9.3	7.3	126	127	99.3	0.0
b. Renal carcinoma	0	0	4	3	5	7	12	0.2	4.6	0.3	7.5	-	-	0.7	0.5	0.7	0.4	0.4	6	9	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VII HEPATIC TUMOURS	14	28	3	4	6	49	55	1.6	100.0	1.2	100.0	12.3	6.1	0.5	0.6	0.9	3.2	2.7	42	47	98.2	0.0
a. Hepatoblastoma	14	28	2	1	2	45	47	1.5	91.8	1.0	85.5	12.3	6.1	0.3	0.2	0.3	3.0	2.4	39	41	97.9	0.0
b. Hepatic carcinoma	0	0	1	3	4	4	8	0.1	8.2	0.2	14.5	-	-	0.2	0.5	0.6	0.2	0.3	3	6	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII BONE TUMOURS	0	8	29	91	78	128	206	4.2	100.0	4.4	100.0	-	1.7	4.8	14.4	11.6	6.3	7.5	103	161	99.5	0.5
a. Osteosarcoma	0	1	16	53	50	70	120	2.3	54.7	2.6	58.3	-	0.2	2.7	8.4	7.5	3.4	4.3	56	93	100.0	0.0
b. Chondrosarcoma	0	0	0	1	5	1	6	0.0	0.8	0.1	2.9	-	-	-	0.2	0.7	0.0	0.2	1	5	100.0	0.0
c. Ewing & related	0	7	10	30	21	47	68	1.5	36.7	1.5	33.0	-	1.5	1.7	4.7	3.1	2.4	2.6	38	54	100.0	0.0
d. Other specified	0	0	2	5	2	7	9	0.2	5.5	0.2	4.4	-	-	0.3	0.8	0.3	0.3	0.3	6	7	100.0	0.0
e. Unspecified	0	0	1	2	0	3	3	0.1	2.3	0.1	1.5	-	-	0.2	0.3	-	0.1	0.1	2	2	66.7	33.3
IX SOFT TISSUE SARCOMA	24	50	54	54	120	182	302	6.0	100.0	6.5	100.0	21.1	10.9	9.0	8.5	17.9	10.4	12.1	152	242	99.7	0.0
a. Rhabdomyosarcoma	7	37	28	13	22	85	107	2.8	46.7	2.3	35.4	6.2	8.1	4.7	2.1	3.3	5.1	4.7	72	88	100.0	0.0
b. Fibrosarcoma	7	1	1	5	15	14	29	0.5	7.7	0.6	9.6	6.2	0.2	0.2	0.8	2.2	0.8	1.1	12	23	100.0	0.0
c. Kaposi sarcoma	0	1	0	0	1	1	2	0.0	0.5	0.0	0.7	-	0.2	-	-	0.1	0.1	0.1	1	2	100.0	0.0
d. Other specified	8	10	21	30	64	69	133	2.3	37.9	2.9	44.0	7.0	2.2	3.5	4.7	9.5	3.7	5.0	57	105	99.2	0.0
e. Unspecified	2	1	4	6	18	13	31	0.4	7.1	0.7	10.3	1.8	0.2	0.7	0.9	2.7	0.7	1.1	11	24	100.0	0.0
X GERM CELL TUMOURS	36	16	16	29	174	97	271	3.2	100.0	5.8	100.0	31.7	3.5	2.7	4.6	26.0	5.7	10.3	82	211	98.9	0.0
a. CNS germ cell ‡	7	4	4	15	16	30	46	1.0	30.9	1.0	17.0	6.2	0.9	0.7	2.4	2.4	1.6	1.8	25	37	93.5	0.0
b. Other extragonadal	23	8	1	0	5	32	37	1.0	33.0	0.8	13.7	20.2	1.7	0.2	-	0.7	2.2	1.8	28	32	100.0	0.0
c. Gonadal germ cell	5	4	7	12	137	28	165	0.9	28.9	3.6	60.9	4.4	0.9	1.2	1.9	20.4	1.5	5.8	23	125	100.0	0.0
d. Gonadal carcinoma	0	0	0	2	9	2	11	0.1	2.1	0.2	4.1	-	-	-	0.3	1.3	0.1	0.4	2	8	100.0	0.0
e. Unspecified gonadal	1	0	4	0	7	5	12	0.2	5.2	0.3	4.4	0.9	-	0.7	-	1.0	0.3	0.5	4	9	100.0	0.0
XI CARCINOMA & MELANOMA	3	3	14	96	364	116	480	3.8	100.0	10.3	100.0	2.6	0.7	2.3	15.2	54.3	5.6	16.5	93	364	99.6	0.0
a. Adrenocortical	0	1	0	1	1	2	3	0.1	1.7	0.1	0.6	-	0.2	-	0.2	0.1	0.1	0.1	2	2	100.0	0.0
b. Thyroid	1	0	6	41	173	48	221	1.6	41.4	4.8	46.0	0.9	-	1.0	6.5	25.8	2.3	7.6	38	167	100.0	0.0
c. Nasopharyngeal	0	0	0	1	8	1	9	0.0	0.9	0.2	1.9	-	-	-	0.2	1.2	0.0	0.3	1	7	100.0	0.0
d. Melanoma	1	1	4	25	104	31	135	1.0	26.7	2.9	28.1	0.9	0.2	0.7	4.0	15.5	1.5	4.7	25	102	98.5	0.0
e. Skin carcinoma	0	0	0	1	1	1	2	0.0	0.9	0.0	0.4	-	-	-	0.2	0.1	0.0	0.1	1	2	100.0	0.0
f. Other & unspecified	1	1	4	27	77	33	110	1.1	28.4	2.4	22.9	0.9	0.2	0.7	4.3	11.5	1.6	3.8	26	84	100.0	0.0
XII OTHER & UNSPECIFIED	2	2	1	3	8	8	16	0.3	100.0	0.3	100.0	1.8	0.4	0.2	0.5	1.2	0.5	0.6	7	13	87.5	6.3
a. Other specified	1	2	1	0	7	4	11	0.1	50.0	0.2	68.8	0.9	0.4	0.2	-	1.0	0.3	0.4	3	9	100.0	0.0
b. Other unspecified	1	0	0	3	1	4	5	0.1	50.0	0.1	31.3	0.9	-	-	0.5	0.1	0.2	0.2	3	4	60.0	20.0
TOTAL	327	1068	751	910	1587	3056	4643	100.0	100.0	100.0	100.0	287.7	233.3	124.8	143.9	236.7	176.6	190.1	2564	3748	94.8	0.1

† includes 201 non-malignant ‡ includes 8 non-malignant

Please consult the quality indicators for this registry

USA, Massachusetts (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	24	212	117	101	119	454	573	52.6	48.7	1.1	1.2	36	214	96	74	69	420	489	52.1	45.1				
a. Lymphoid	15	193	109	69	78	386	464	45.2	40.2	1.2	1.3	21	187	77	47	28	332	360	41.7	34.2				
b. Acute myeloid	6	16	5	22	24	49	73	5.4	5.8	0.7	0.7	12	21	13	22	30	68	98	8.1	8.3				
c. CMD	1	1	1	9	11	12	23	1.2	1.6	1.1	1.1	0	3	6	2	10	11	21	1.3	1.7				
d. MDS & other	1	2	1	0	5	4	9	0.5	0.7	0.7	1.3	1	2	0	3	1	6	7	0.7	0.6				
e. Unspecified	1	0	1	1	1	3	4	0.3	0.3	1.0	1.3	2	1	0	0	0	3	3	0.4	0.3				
II LYMPHOMA & RELATED	5	26	64	114	207	209	416	21.0	30.0	1.7	1.4	5	18	25	77	177	125	302	13.2	22.3				
a. Hodgkin	0	3	19	48	108	70	178	6.7	12.3	1.4	1.0	0	0	5	45	124	50	174	4.8	12.1				
b. Non-Hodgkin except BL	1	8	30	45	76	84	160	8.4	11.5	1.8	1.7	2	11	13	21	45	47	92	5.2	7.1				
c. Burkitt (BL)	0	9	13	16	18	38	56	4.0	4.3	2.7	2.9	0	1	6	7	5	14	19	1.5	1.5				
d. Lymphoreticular	3	6	2	5	2	16	18	1.9	1.6	1.1	1.1	3	6	1	4	2	14	16	1.7	1.5				
e. Unspecified	1	0	0	0	3	1	4	0.1	0.3	-	4.0	0	0	0	0	1	0	1	-	0.1				
III CNS NEOPLASMS †	20	128	145	122	130	415	545	45.8	44.1	1.1	1.1	21	117	119	118	121	375	496	43.3	41.8				
a. Ependymoma	7	13	10	11	12	41	53	4.7	4.4	1.3	1.3	4	15	7	6	10	32	42	4.0	3.8				
b. Astrocytoma	6	66	66	47	47	185	232	20.7	19.1	1.1	1.1	6	53	53	54	37	166	203	19.1	17.3				
c. CNS embryonal	3	25	24	17	14	69	83	7.8	6.9	1.0	1.0	11	23	22	16	8	72	80	8.6	7.2				
d. Other gliomas	2	10	25	20	24	57	81	6.0	6.2	1.1	1.2	0	18	17	19	14	54	68	6.1	5.7				
e. Other specified	2	7	16	25	32	50	82	5.1	6.1	1.3	1.0	0	5	13	21	47	39	86	4.1	6.4				
f. Unspecified CNS	0	7	4	2	1	13	14	1.5	1.2	1.1	0.8	0	3	7	2	5	12	17	1.4	1.4				
IV NEUROBLASTOMA	51	65	17	7	4	140	144	17.8	14.1	1.1	1.1	44	58	11	11	3	124	127	16.4	12.9				
a. (Ganglio)neuroblastoma	51	65	17	5	3	138	141	17.6	13.9	1.1	1.1	44	58	10	11	2	123	125	16.3	12.7				
b. Peripheral nervous	0	0	0	2	1	2	3	0.2	0.2	2.0	1.5	0	0	1	0	1	1	2	0.1	0.2				
V RETINOBLASTOMA	11	15	1	0	0	27	27	3.6	2.8	0.8	0.8	12	20	1	1	0	34	34	4.6	3.6				
VI RENAL TUMOURS	12	47	16	3	4	78	82	9.8	7.8	1.0	1.1	7	41	22	5	3	75	78	9.5	7.6				
a. Nephroblastoma	12	47	13	2	1	74	75	9.4	7.3	1.0	1.0	7	41	21	3	1	72	73	9.2	7.2				
b. Renal carcinoma	0	0	3	1	3	4	7	0.4	0.5	1.3	1.4	0	0	1	2	2	3	5	0.3	0.4				
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
VII HEPATIC TUMOURS	9	18	1	2	3	30	33	3.9	3.2	1.6	1.5	5	10	2	2	3	19	22	2.5	2.1				
a. Hepatoblastoma	9	18	1	0	1	28	29	3.7	2.9	1.6	1.6	5	10	1	1	1	17	18	2.3	1.8				
b. Hepatic carcinoma	0	0	0	2	2	2	4	0.2	0.3	1.0	1.0	0	0	1	1	2	2	4	0.2	0.3				
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-				
VIII BONE TUMOURS	0	4	13	50	50	67	117	6.4	8.2	1.1	1.3	0	4	16	41	28	61	89	6.2	6.7				
a. Osteosarcoma	0	1	7	28	30	36	66	3.4	4.6	1.1	1.2	0	0	9	25	20	34	54	3.3	4.0				
b. Chondrosarcoma	0	0	0	1	3	1	4	0.1	0.3	-	2.0	0	0	0	0	2	0	2	-	0.1				
c. Ewing & related	0	3	6	17	15	26	41	2.6	3.0	1.2	1.5	0	4	4	13	6	21	27	2.2	2.1				
d. Other specified	0	0	0	2	2	2	4	0.2	0.3	0.4	0.8	0	0	2	3	0	5	5	0.5	0.4				
e. Unspecified	0	0	0	2	0	2	2	0.2	0.1	2.0	2.0	0	0	1	0	0	1	1	0.1	0.1				
IX SOFT TISSUE SARCOMA	15	30	29	29	72	103	175	11.6	13.8	1.3	1.4	9	20	25	25	48	79	127	9.1	10.3				
a. Rhabdomyosarcoma	4	25	18	6	13	53	66	6.3	5.7	1.7	1.6	3	12	10	7	9	32	41	3.8	3.6				
b. Fibrosarcoma	5	0	0	2	8	7	15	0.8	1.2	1.0	1.1	2	1	1	3	7	7	14	0.8	1.1				
c. Kaposi sarcoma	0	0	0	0	1	0	1	-	0.1	0.0	1.0	0	1	0	0	0	1	1	0.1	0.1				
d. Other specified	5	4	8	15	37	32	69	3.4	5.1	0.9	1.1	3	6	13	15	27	37	64	4.1	5.0				
e. Unspecified	1	1	3	6	13	11	24	1.1	1.7	5.5	3.4	1	0	1	0	5	2	7	0.2	0.5				
X GERM CELL TUMOURS	16	7	4	11	131	38	169	4.5	12.1	0.6	1.7	20	9	12	18	43	59	102	7.0	8.4				
a. CNS germ cell ‡	2	3	1	10	13	16	29	1.7	2.2	1.1	1.7	5	1	3	5	3	14	17	1.6	1.5				
b. Other extragonadal	9	1	0	0	2	10	12	1.3	1.2	0.5	0.5	14	7	1	0	3	22	25	3.0	2.5				
c. Gonadal germ cell	5	3	0	1	114	9	123	1.2	8.4	0.5	2.9	0	1	7	11	23	19	42	1.9	3.1				
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	2	9	2	11	0.2	0.8				
e. Unspecified gonadal	0	0	3	0	2	3	5	0.3	0.4	1.5	0.7	1	0	1	0	5	2	7	0.2	0.5				
XI CARCINOMA & MELANOMA	1	0	7	35	119	43	162	4.0	11.0	0.6	0.5	2	3	7	61	245	73	318	7.2	22.3				
a. Adrenocortical	0	0	0	1	0	1	1	0.1	0.1	1.0	0.5	0	1	0	0	1	1	2	0.1	0.2				
b. Thyroid	0	0	3	9	37	12	49	1.1	3.3	0.3	0.3	1	0	3	32	136	36	172	3.5	12.0				
c. Nasopharyngeal	0	0	0	1	4	1	5	0.1	0.3	-	1.3	0	0	0	0	4	0	4	-	0.3				
d. Melanoma	0	0	2	11	41	13	54	1.2	3.6	0.7	0.7	1	1	2	14	63	18	81	1.8	5.7				
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	1	1	2	0.1	0.1				
f. Other & unspecified	1	0	2	13	37	16	53	1.5	3.6	0.9	0.9	0	1	2	14	40	17	57	1.7	4.0				
XII OTHER & UNSPECIFIED	1	1	0	1	3	3	6	0.4	0.5	0.6	0.6	1	1	1	2	5	5	10	0.6	0.8				
a. Other specified	1	1	0	0	2	2	4	0.3	0.3	1.0	0.6	0	1	1	0	5	2	7	0.2	0.5				
b. Other unspecified	0	0	0	1	1	1	2	0.1	0.1	0.3	0.7	1	0	0	2	0	3	3	0.3	0.3				
TOTAL	165	553	414	475	842	1607	2449	181.2	196.2	1.1	1.1	162	515	337	435	745	1449	2194	171.7	183.7				

† includes 96 non-malignant in males and 105 non-malignant in females ‡ includes 4 non-malignant in males and 4 non-malignant in females

Please consult the quality indicators for this registry

USA, Massachusetts (1998-2012)

	Age group	Males	Females
Person-years	0	581 046	555 612
	1-4	2 336 961	2 240 103
	5-9	3 075 737	2 939 938
	10-14	3 241 051	3 083 599
	15-19	3 398 014	3 306 629
Total	0-14	9 234 795	8 819 252
	0-19	12 632 809	12 125 881
Average annual population	0-14	615 653	587 950
	0-19	842 187	808 392

Please consult the quality indicators for this registry