

USA, Massachusetts, Hispanic White (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	4	53	21	19	27	97	124	32.0	100.0	27.4	100.0	30.3	103.9	34.4	31.7	43.4	54.7	52.1	774	992	96.8	0.0
a. Lymphoid	1	45	20	10	13	76	89	25.1	78.4	19.7	71.8	7.6	88.2	32.7	16.7	20.9	43.1	38.1	605	710	100.0	0.0
b. Acute myeloid	2	7	1	6	7	16	23	5.3	16.5	5.1	18.5	15.2	13.7	1.6	10.0	11.3	8.9	9.4	128	185	100.0	0.0
c. CMD	1	1	0	2	6	4	10	1.3	4.1	2.2	8.1	7.6	2.0	-	3.3	9.6	2.2	3.9	32	81	60.0	0.0
d. MDS & other	0	0	0	1	1	1	2	0.3	1.0	0.4	1.6	-	-	-	1.7	1.6	0.5	0.7	8	16	100.0	0.0
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
II LYMPHOMA & RELATED	0	8	9	16	33	33	66	10.9	100.0	14.6	100.0	-	15.7	14.7	26.7	53.1	17.3	25.4	269	535	100.0	0.0
a. Hodgkin	0	1	4	9	22	14	36	4.6	42.4	8.0	54.5	-	2.0	6.5	15.0	35.4	7.1	13.4	116	293	100.0	0.0
b. Non-Hodgkin except BL	0	3	2	5	8	10	18	3.3	30.3	4.0	27.3	-	5.9	3.3	8.3	12.9	5.3	7.0	81	146	100.0	0.0
c. Burkitt (BL)	0	1	2	1	2	4	6	1.3	12.1	1.3	9.1	-	2.0	3.3	1.7	3.2	2.1	2.4	33	49	100.0	0.0
d. Lymphoreticular	0	3	1	1	0	5	5	1.7	15.2	1.1	7.6	-	5.9	1.6	1.7	-	2.8	2.2	40	40	100.0	0.0
e. Unspecified	0	0	0	0	1	0	1	-	-	0.2	1.5	-	-	-	-	1.6	-	0.4	-	8	100.0	0.0
III CNS NEOPLASMS †	7	26	25	19	22	77	99	25.4	100.0	21.9	100.0	53.1	51.0	40.9	31.7	35.4	42.3	40.7	620	797	79.8	0.0
a. Ependymoma	3	2	2	1	2	8	10	2.6	10.4	2.2	10.1	22.7	3.9	3.3	1.7	3.2	4.6	4.3	64	80	100.0	0.0
b. Astrocytoma	0	11	9	7	7	27	34	8.9	35.1	7.5	34.3	-	21.6	14.7	11.7	11.3	14.8	14.0	218	274	82.4	0.0
c. CNS embryonal	3	4	10	4	2	21	23	6.9	27.3	5.1	23.2	22.7	7.8	16.4	6.7	3.2	11.4	9.6	170	186	100.0	0.0
d. Other gliomas	0	4	3	2	4	9	13	3.0	11.7	2.9	13.1	-	7.8	4.9	3.3	6.4	5.0	5.3	72	105	38.5	0.0
e. Other specified	1	2	0	4	7	7	14	2.3	9.1	3.1	14.1	7.6	3.9	-	6.7	11.3	3.7	5.4	57	113	71.4	0.0
f. Unspecified CNS	0	3	1	1	0	5	5	1.7	6.5	1.1	5.1	-	5.9	1.6	1.7	-	2.8	2.2	40	40	60.0	0.0
IV NEUROBLASTOMA	5	14	3	1	0	23	23	7.6	100.0	5.1	100.0	37.9	27.5	4.9	1.7	-	13.5	10.5	181	181	100.0	0.0
a. (Ganglio)neuroblastoma	5	14	3	1	0	23	23	7.6	100.0	5.1	100.0	37.9	27.5	4.9	1.7	-	13.5	10.5	181	181	100.0	0.0
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V RETINOBLASTOMA	1	4	0	0	0	5	5	1.7	100.0	1.1	100.0	7.6	7.8	-	-	-	3.0	2.3	39	39	100.0	0.0
VI RENAL TUMOURS	2	9	1	0	0	12	12	4.0	100.0	2.7	100.0	15.2	17.6	1.6	-	-	7.2	5.6	94	94	100.0	0.0
a. Nephroblastoma	2	9	1	0	0	12	12	4.0	100.0	2.7	100.0	15.2	17.6	1.6	-	-	7.2	5.6	94	94	100.0	0.0
b. Renal carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VII HEPATIC TUMOURS	3	5	0	2	1	10	11	3.3	100.0	2.4	100.0	22.7	9.8	-	3.3	1.6	5.8	4.9	79	87	90.9	0.0
a. Hepatoblastoma	3	5	0	0	0	8	8	2.6	80.0	1.8	72.7	22.7	9.8	-	-	-	4.8	3.7	62	62	87.5	0.0
b. Hepatic carcinoma	0	0	0	2	1	2	3	0.7	20.0	0.7	27.3	-	-	-	3.3	1.6	1.0	1.1	17	25	100.0	0.0
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VIII BONE TUMOURS	0	0	3	6	8	9	17	3.0	100.0	3.8	100.0	-	-	4.9	10.0	12.9	4.5	6.4	75	139	100.0	0.0
a. Osteosarcoma	0	0	1	6	6	7	13	2.3	77.8	2.9	76.5	-	-	1.6	10.0	9.6	3.4	4.8	58	106	100.0	0.0
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
c. Ewing & related	0	0	1	0	2	1	3	0.3	11.1	0.7	17.6	-	-	1.6	-	3.2	0.5	1.1	8	24	100.0	0.0
d. Other specified	0	0	1	0	0	1	1	0.3	11.1	0.2	5.9	-	-	1.6	-	-	0.5	0.4	8	8	100.0	0.0
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IX SOFT TISSUE SARCOMA	1	6	9	3	14	19	33	6.3	100.0	7.3	100.0	7.6	11.8	14.7	5.0	22.5	10.4	13.1	153	266	100.0	0.0
a. Rhabdomyosarcoma	0	4	5	0	3	9	12	3.0	47.4	2.7	36.4	-	7.8	8.2	-	4.8	5.1	5.0	72	96	100.0	0.0
b. Fibrosarcoma	0	0	0	0	2	0	2	-	-	0.4	6.1	-	-	-	-	3.2	-	0.7	-	16	100.0	0.0
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
d. Other specified	0	2	3	3	9	8	17	2.6	42.1	3.8	51.5	-	3.9	4.9	5.0	14.5	4.2	6.5	65	138	100.0	0.0
e. Unspecified	1	0	1	0	0	2	2	0.7	10.5	0.4	6.1	7.6	-	1.6	-	-	1.1	0.9	16	16	100.0	0.0
X GERM CELL TUMOURS	1	1	1	6	14	9	23	3.0	100.0	5.1	100.0	7.6	2.0	1.6	10.0	22.5	4.6	8.7	74	186	100.0	0.0
a. CNS germ cell ‡	0	0	0	3	3	3	6	1.0	33.3	1.3	26.1	-	-	-	5.0	4.8	1.5	2.2	25	49	100.0	0.0
b. Other extragonadal	1	1	0	0	2	2	4	0.7	22.2	0.9	17.4	7.6	2.0	-	-	3.2	1.2	1.7	16	32	100.0	0.0
c. Gonadal germ cell	0	0	0	3	9	3	12	1.0	33.3	2.7	52.2	-	-	-	5.0	14.5	1.5	4.4	25	97	100.0	0.0
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e. Unspecified gonadal	0	0	1	0	0	1	1	0.3	11.1	0.2	4.3	-	-	1.6	-	-	0.5	0.4	8	8	100.0	0.0
XI CARCINOMA & MELANOMA	0	0	0	8	29	8	37	2.6	100.0	8.2	100.0	-	-	-	13.4	46.6	3.9	13.5	67	300	100.0	0.0
a. Adrenocortical	0	0	0	1	0	1	1	0.3	12.5	0.2	2.7	-	-	-	1.7	-	0.5	0.4	8	8	100.0	0.0
b. Thyroid	0	0	0	3	16	3	19	1.0	37.5	4.2	51.4	-	-	-	5.0	25.7	1.5	6.9	25	154	100.0	0.0
c. Nasopharyngeal	0	0	0	0	1	0	1	-	-	0.2	2.7	-	-	-	-	1.6	-	0.4	-	8	100.0	0.0
d. Melanoma	0	0	0	0	3	0	3	-	-	0.7	8.1	-	-	-	-	4.8	-	1.1	-	24	100.0	0.0
e. Skin carcinoma	0	0	0	1	0	1	1	0.3	12.5	0.2	2.7	-	-	-	1.7	-	0.5	0.4	8	8	100.0	0.0
f. Other & unspecified	0	0	0	3	9	3	12	1.0	37.5	2.7	32.4	-	-	-	5.0	14.5	1.5	4.4	25	97	100.0	0.0
XII OTHER & UNSPECIFIED	0	1	0	0	1	1	2	0.3	100.0	0.4	100.0	-	2.0	-	-	1.6	0.6	0.8	8	16	100.0	0.0
a. Other specified	0	1	0	0	1	1	2	0.3	100.0	0.4	100.0	-	2.0	-	-	1.6	0.6	0.8	8	16	100.0	0.0
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	24	127	72	80	149	303	452	100.0	100.0	100.0	100.0	182.0	249.1	117.8	133.5	239.6	167.9	184.0	2433	3631	94.5	0.0

† includes 21 non-malignant ‡ includes 1 non-malignant

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USA, Massachusetts, Hispanic White (1998-2012)

	Males										M/F ratio		Females									
	Number of cases in age groups										0-14	0-19	Number of cases in age groups									
	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	1	26	11	7	19	45	64	49.9	52.1	0.9	1.1	3	27	10	12	8	52	60	59.6	52.2		
a. Lymphoid	0	25	10	4	10	39	49	43.7	40.9	1.1	1.2	1	20	10	6	3	37	40	42.6	35.2		
b. Acute myeloid	0	1	1	2	4	4	8	4.1	6.0	0.3	0.5	2	6	0	4	3	12	15	13.8	12.9		
c. CMD	1	0	0	1	4	2	6	2.1	4.5	1.0	1.5	0	1	0	1	2	2	4	2.2	3.2		
d. MDS & other	0	0	0	0	1	0	1	-	0.7	0.0	1.0	0	0	0	1	0	1	1	1.0	0.8		
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
II LYMPHOMA & RELATED	0	6	9	11	17	26	43	26.8	32.8	3.7	1.9	0	2	0	5	16	7	23	7.4	17.7		
a. Hodgkin	0	1	4	4	9	9	18	9.1	13.4	1.8	1.0	0	0	0	5	13	5	18	5.0	13.5		
b. Non-Hodgkin except BL	0	2	2	5	6	9	15	9.2	11.3	9.0	5.0	0	1	0	0	2	1	3	1.2	2.4		
c. Burkitt (BL)	0	1	2	1	1	4	5	4.2	4.0	-	5.0	0	0	0	0	1	0	1	-	0.7		
d. Lymphoreticular	0	2	1	1	0	4	4	4.3	3.4	4.0	4.0	0	1	0	0	0	1	1	1.2	1.0		
e. Unspecified	0	0	0	0	1	0	1	-	0.7	-	-	0	0	0	0	0	0	0	-	-		
III CNS NEOPLASMS †	4	8	13	12	8	37	45	39.0	35.9	0.9	0.8	3	18	12	7	14	40	54	45.7	45.9		
a. Ependymoma	3	0	0	1	1	4	5	4.5	4.2	1.0	1.0	0	2	2	0	1	4	5	4.6	4.3		
b. Astrocytoma	0	3	4	4	2	11	13	11.5	10.3	0.7	0.6	0	8	5	3	5	16	21	18.2	17.8		
c. CNS embryonal	0	0	7	1	1	8	9	8.2	7.1	0.6	0.6	3	4	3	3	1	13	14	14.8	12.2		
d. Other gliomas	0	1	2	2	2	5	7	5.1	5.4	1.3	1.2	0	3	1	0	2	4	6	4.8	5.2		
e. Other specified	1	1	0	3	2	5	7	5.2	5.4	2.5	1.0	0	1	0	1	5	2	7	2.2	5.4		
f. Unspecified CNS	0	3	0	1	0	4	4	4.5	3.5	4.0	4.0	0	0	1	0	0	1	1	1.1	0.8		
IV NEUROBLASTOMA	1	8	2	0	0	11	11	12.7	9.8	0.9	0.9	4	6	1	1	0	12	12	14.4	11.2		
a. (Ganglio)neuroblastoma	1	8	2	0	0	11	11	12.7	9.8	0.9	0.9	4	6	1	1	0	12	12	14.4	11.2		
b. Peripheral nervous	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
V RETINOBLASTOMA	1	2	0	0	0	3	3	3.5	2.7	1.5	1.5	0	2	0	0	0	2	2	2.5	1.9		
VI RENAL TUMOURS	2	6	1	0	0	9	9	10.5	8.1	3.0	3.0	0	3	0	0	0	3	3	3.7	2.9		
a. Nephroblastoma	2	6	1	0	0	9	9	10.5	8.1	3.0	3.0	0	3	0	0	0	3	3	3.7	2.9		
b. Renal carcinoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VII HEPATIC TUMOURS	2	4	0	1	1	7	8	8.0	6.9	2.3	2.7	1	1	0	1	0	3	3	3.5	2.7		
a. Hepatoblastoma	2	4	0	0	0	6	6	7.1	5.5	3.0	3.0	1	1	0	0	0	2	2	2.5	1.9		
b. Hepatic carcinoma	0	0	0	1	1	1	2	0.9	1.4	1.0	2.0	0	0	0	1	0	1	1	1.0	0.8		
c. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
VIII BONE TUMOURS	0	0	1	4	7	5	12	4.8	8.7	1.3	2.4	0	0	2	2	1	4	5	4.1	4.0		
a. Osteosarcoma	0	0	0	4	5	4	9	3.8	6.5	1.3	2.3	0	0	1	2	1	3	4	3.1	3.1		
b. Chondrosarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
c. Ewing & related	0	0	1	0	2	1	3	1.0	2.2	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	1	0	0	1	1	1.1	0.8		
e. Unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
IX SOFT TISSUE SARCOMA	0	6	3	2	8	11	19	12.1	15.0	1.4	1.4	1	0	6	1	6	8	14	8.7	11.2		
a. Rhabdomyosarcoma	0	4	2	0	1	6	7	6.8	6.0	2.0	1.4	0	0	3	0	2	3	5	3.2	4.0		
b. Fibrosarcoma	0	0	0	0	1	0	1	-	0.7	-	1.0	0	0	0	0	1	0	1	-	0.7		
c. Kaposi sarcoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
d. Other specified	0	2	1	2	6	5	11	5.3	8.3	1.7	1.8	0	0	2	1	3	3	6	3.1	4.7		
e. Unspecified	0	0	0	0	0	0	0	-	-	0.0	0.0	1	0	1	0	0	2	2	2.3	1.8		
X GERM CELL TUMOURS	0	1	1	2	11	4	15	4.1	10.9	0.8	1.9	1	0	0	4	3	5	8	5.2	6.3		
a. CNS germ cell ‡	0	0	0	2	3	2	5	1.9	3.6	2.0	5.0	0	0	0	1	0	1	1	1.0	0.8		
b. Other extragonadal	0	1	0	0	0	1	1	1.2	0.9	1.0	0.3	1	0	0	0	2	1	3	1.2	2.4		
c. Gonadal germ cell	0	0	0	0	8	0	8	-	5.6	0.0	2.0	0	0	0	3	1	3	4	3.0	3.1		
d. Gonadal carcinoma	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
e. Unspecified gonadal	0	0	1	0	0	1	1	1.0	0.8	-	-	0	0	0	0	0	0	0	-	-		
XI CARCINOMA & MELANOMA	0	0	0	5	11	5	16	4.7	11.4	1.7	0.8	0	0	0	3	18	3	21	3.0	15.7		
a. Adrenocortical	0	0	0	1	0	1	1	0.9	0.7	-	-	0	0	0	0	0	0	0	-	-		
b. Thyroid	0	0	0	2	4	2	6	1.9	4.3	2.0	0.5	0	0	0	1	12	1	13	1.0	9.7		
c. Nasopharyngeal	0	0	0	0	1	0	1	-	0.7	-	-	0	0	0	0	0	0	0	-	-		
d. Melanoma	0	0	0	0	3	0	3	-	2.1	-	-	0	0	0	0	0	0	0	-	-		
e. Skin carcinoma	0	0	0	0	0	0	0	-	-	0.0	0.0	0	0	0	1	0	1	1	1.0	0.8		
f. Other & unspecified	0	0	0	2	3	2	5	1.9	3.6	2.0	0.7	0	0	0	1	6	1	7	1.0	5.2		
XII OTHER & UNSPECIFIED	0	0	0	0	1	0	1	-	0.7	0.0	1.0	0	1	0	0	0	1	1	1.2	1.0		
a. Other specified	0	0	0	0	1	0	1	-	0.7	0.0	1.0	0	1	0	0	0	1	1	1.2	1.0		
b. Other unspecified	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	-	-		
TOTAL	11	67	41	44	83	163	246	176.3	195.1	1.2	1.2	13	60	31	36	66	140	206	159.0	172.3		

† includes 11 non-malignant in males and 10 non-malignant in females ‡ includes 1 non-malignant in males

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	Age group	Males	Females
Person-years	0	67 175	64 710
	1-4	260 399	249 527
	5-9	311 395	299 561
	10-14	306 560	292 596
	15-19	319 373	302 530
Total	0-14	945 529	906 394
	0-19	1 264 902	1 208 924
Average annual population	0-14	63 035	60 426
	0-19	84 327	80 595

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