

# SECTION II

**Table II-1. Incidence and Mortality Counts and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Persons by Year, Race/Ethnicity, and Sex, California, 1988-1999, Brain and Nervous System Cancer**

Year of Diagnosis or Death	Incidence						Mortality					
	New Cases			Annual Rate			Deaths			Annual Rate		
	Total	Male	Female	T	M	F	Total	Male	Female	T	M	F
<b>All Races</b>												
1988	1,726	957	769	6.8	8.2	5.7	1,085	605	480	4.5	5.6	3.7
1989	1,779	997	782	6.8	8.1	5.7	1,169	637	532	4.7	5.6	4.0
1990	1,860	1,028	832	6.9	8.3	5.8	1,192	666	526	4.7	5.7	3.8
1991	1,835	1,027	808	6.7	7.9	5.5	1,280	689	591	4.9	5.8	4.1
1992	1,862	1,019	843	6.6	7.8	5.6	1,253	698	555	4.7	5.8	3.8
1993	1,888	1,044	844	6.6	7.8	5.5	1,272	718	554	4.7	5.7	3.8
1994	1,867	1,050	817	6.5	7.8	5.4	1,288	731	557	4.6	5.8	3.7
1995	1,865	1,045	820	6.4	7.6	5.3	1,294	716	578	4.6	5.6	3.8
1996	1,827	1,009	818	6.1	7.2	5.2	1,230	653	577	4.3	4.9	3.7
1997	1,927	1,086	841	6.3	7.6	5.2	1,334	772	562	4.6	5.8	3.6
1998	1,922	1,032	890	6.2	7.1	5.4	1,416	820	596	4.7	5.9	3.7
1999	1,919	1,089	830	6.0	7.3	5.0	1,436	769	667	4.7	5.5	4.1
<b>Asian/Pacific Islander</b>												
1988	63	29	34	3.3	3.2	3.5	38	22	16	2.1	2.3	1.8
1989	81	46	35	3.8	4.1	3.5	31	14	17	1.7	-	1.8
1990	87	44	43	3.8	4.0	3.6	46	28	18	2.2	2.7	1.7
1991	96	53	43	4.1	4.4	3.7	48	24	24	2.3	2.3	2.3
1992	91	47	44	3.7	4.1	3.3	46	21	25	1.9	1.8	1.9
1993	120	59	61	4.6	4.6	4.6	66	33	33	2.9	2.8	2.9
1994	101	58	43	4.0	5.0	3.2	72	43	29	2.8	3.4	2.3
1995	115	57	58	3.8	4.0	3.7	56	25	31	2.1	2.1	2.2
1996	98	51	47	3.2	3.5	3.0	62	33	29	2.2	2.5	1.9
1997	108	56	52	3.4	3.9	3.1	70	39	31	2.4	2.8	2.1
1998	107	65	42	3.5	4.7	2.5	70	43	27	2.3	3.1	1.7
1999	113	61	52	3.2	3.7	2.8	69	39	30	2.1	2.7	1.7
<b>Black</b>												
1988	83	53	30	4.8	6.2	3.5	48	25	23	3.3	3.6	3.0
1989	85	46	39	5.1	5.6	4.5	46	25	21	3.1	3.8	2.5
1990	84	40	44	4.6	4.8	4.6	57	25	32	3.5	3.3	3.7
1991	89	44	45	5.1	5.8	4.6	52	26	26	3.1	3.8	2.7
1992	73	42	31	4.0	5.1	3.1	48	28	20	2.9	4.0	2.1
1993	87	51	36	4.9	6.0	3.9	56	33	23	3.3	4.0	2.6
1994	71	33	38	3.8	4.0	3.8	55	34	21	3.3	4.7	2.2
1995	88	57	31	5.0	7.4	3.3	52	27	25	3.1	3.8	2.7
1996	87	47	40	4.7	5.8	4.0	47	27	20	2.8	3.7	2.2
1997	95	56	39	4.8	6.2	3.8	59	37	22	3.3	4.5	2.3
1998	91	36	55	4.5	3.7	5.1	68	36	32	3.8	4.5	3.2
1999	83	46	37	4.0	5.1	3.4	61	28	33	3.5	3.7	3.3

(Table Continues)

Prepared by the California Department of Health Services (CDHS), Cancer Surveillance Section.  
 Source: California Cancer Registry (08/01) and CDHS Center for Health Statistics Death Master Files.  
 Note: *In situ* cancers are excluded, unless specified. Rates based on fewer than 15 cases or deaths are not shown.  
 Race/ethnicity categories are mutually exclusive. Persons of Hispanic ethnicity may be of any race.

# BRAIN AND NERVOUS SYSTEM CANCER

**Table II-1. Incidence and Mortality Counts and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Persons by Year, Race/Ethnicity, and Sex, California, 1988-1999, Brain and Nervous System Cancer (continued)**

Year of Diagnosis or Death	Incidence						Mortality					
	New Cases			Annual Rate			Deaths			Annual Rate		
	Total	Male	Female	T	M	F	Total	Male	Female	T	M	F
<b>Hispanic</b>												
1988	246	150	96	5.2	6.9	3.7	112	67	45	3.2	4.3	2.3
1989	224	120	104	5.2	6.0	4.7	133	83	50	3.4	5.1	2.3
1990	262	148	114	5.0	6.1	4.0	131	82	49	3.4	5.0	2.1
1991	293	164	129	5.3	5.9	4.7	144	85	59	3.0	3.9	2.4
1992	286	143	143	5.0	5.2	4.8	151	82	69	3.3	4.0	2.8
1993	282	153	129	5.0	5.7	4.5	141	74	67	2.9	3.1	2.8
1994	298	176	122	5.2	6.5	4.1	145	89	56	2.9	3.7	2.1
1995	326	182	144	5.3	6.0	4.6	172	101	71	3.5	4.5	2.7
1996	311	146	165	4.6	4.2	5.0	170	83	87	3.2	3.1	3.2
1997	329	181	148	4.9	5.6	4.3	175	102	73	3.1	3.8	2.5
1998	322	161	161	4.6	4.6	4.5	212	105	107	3.6	3.5	3.6
1999	359	190	169	4.5	4.8	4.3	202	103	99	3.2	3.4	2.9
<b>Non-Hispanic White</b>												
1988	1,329	723	606	7.8	9.3	6.7	887	491	396	5.2	6.4	4.3
1989	1,380	779	601	7.9	9.5	6.5	955	512	443	5.5	6.4	4.7
1990	1,417	789	628	8.0	9.6	6.6	958	531	427	5.3	6.5	4.3
1991	1,344	759	585	7.5	9.1	6.0	1,034	552	482	5.7	6.7	4.9
1992	1,402	783	619	7.8	9.3	6.5	1,005	564	441	5.5	6.8	4.3
1993	1,382	766	616	7.6	9.0	6.3	1,008	577	431	5.5	6.9	4.3
1994	1,369	765	604	7.6	9.0	6.3	1,016	565	451	5.5	6.7	4.4
1995	1,323	742	581	7.2	8.7	5.9	1,013	562	451	5.4	6.6	4.4
1996	1,313	756	557	7.2	8.8	5.7	947	508	439	5.0	5.9	4.3
1997	1,383	787	596	7.5	9.1	6.1	1,026	592	434	5.4	6.8	4.2
1998	1,392	766	626	7.5	8.7	6.3	1,064	635	429	5.5	7.2	4.1
1999	1,351	785	566	7.2	8.8	5.7	1,102	598	504	5.6	6.7	4.8

Prepared by the California Department of Health Services (CDHS), Cancer Surveillance Section.  
 Source: California Cancer Registry (08/01) and CDHS Center for Health Statistics Death Master Files.  
 Note: *In situ* cancers are excluded, unless specified. Rates based on fewer than 15 cases or deaths are not shown.  
 Race/ethnicity categories are mutually exclusive. Persons of Hispanic ethnicity may be of any race.

# SECTION II

**Table II-2. Five-Year Incidence and Mortality Counts and Average Annual Age-Specific and Crude Rates per 100,000 Persons by Age, Race/Ethnicity, and Sex, California, 1995-1999, Brain and Nervous System Cancer**

Age at Diagnosis or Death	Incidence						Mortality					
	New Cases 1995-99			Annual Rate			Deaths 1995-99			Annual Rate		
	Total	Male	Female	T	M	F	Total	Male	Female	T	M	F
<b>All Races</b>												
00 - 04	419	227	192	3	3	3	90	45	45	1	1	1
05 - 09	375	199	176	3	3	3	110	45	65	1	1	1
10 - 14	258	139	119	2	2	2	94	51	43	1	1	1
15 - 19	217	130	87	2	2	2	68	37	31	1	1	1
20 - 24	218	129	89	2	2	2	73	48	25	1	1	0
25 - 29	307	186	121	2	3	2	111	70	41	1	1	1
30 - 34	421	248	173	3	3	3	151	97	54	1	1	1
35 - 39	505	296	209	3	4	3	249	158	91	2	2	1
40 - 44	619	358	261	5	5	4	327	195	132	3	3	2
45 - 49	644	395	249	6	7	4	479	305	174	4	6	3
50 - 54	704	402	302	8	9	7	542	319	223	6	7	5
55 - 59	679	397	282	10	12	8	598	360	238	9	11	7
60 - 64	767	435	332	14	16	12	686	394	292	12	15	10
65 - 69	841	500	341	17	21	13	761	455	306	15	19	11
70 - 74	882	459	423	19	22	16	815	409	406	17	20	15
75 - 79	811	418	393	22	28	19	770	401	369	21	26	18
80 - 84	506	228	278	21	25	19	484	218	266	20	24	18
85 +	287	115	172	15	19	13	302	123	179	15	21	13
Total/Crude	9,460	5,261	4,199	6	6	5	6,710	3,730	2,980	4	5	4
<b>Asian/Pacific Islander</b>												
00 - 04	24	13	11	2	2	1	8	4	4	1	1	1
05 - 09	36	17	19	2	2	3	10	3	7	1	0	1
10 - 14	23	11	12	2	2	2	7	2	5	1	0	1
15 - 19	21	11	10	2	2	2	12	6	6	1	1	1
20 - 24	19	15	4	1	2	1	7	6	1	1	1	0
25 - 29	21	12	9	1	2	1	11	7	4	1	1	1
30 - 34	31	17	14	2	2	2	10	5	5	1	1	1
35 - 39	38	21	17	2	3	2	20	13	7	1	2	1
40 - 44	35	17	18	2	2	2	11	6	5	1	1	1
45 - 49	45	26	19	4	4	3	25	16	9	2	3	1
50 - 54	36	21	15	4	5	3	23	13	10	3	3	2
55 - 59	32	14	18	5	4	5	25	14	11	4	4	3
60 - 64	34	17	17	6	6	6	34	19	15	6	7	5
65 - 69	35	18	17	7	8	6	26	17	9	5	8	3
70 - 74	44	21	23	10	11	9	31	11	20	7	6	8
75 - 79	28	15	13	9	12	8	32	20	12	11	15	7
80 - 84	29	17	12	16	22	12	23	11	12	13	14	12
85 +	10	7	3	7	12	4	12	6	6	9	10	8
Total/Crude	541	290	251	3	3	3	327	179	148	2	2	2
<b>Black</b>												
00 - 04	30	13	17	3	3	3	6	4	2	1	1	0
05 - 09	23	15	8	2	3	2	8	3	5	1	1	1
10 - 14	19	9	10	2	2	2	7	4	3	1	1	1
15 - 19	21	16	5	2	4	1	7	1	6	1	0	1
20 - 24	15	7	8	2	1	2	6	3	3	1	1	1
25 - 29	13	9	4	1	2	1	5	5	0	1	1	0
30 - 34	15	7	8	2	1	2	7	4	3	1	1	1
35 - 39	27	16	11	3	3	2	8	3	5	1	1	1
40 - 44	33	21	12	4	5	3	15	10	5	2	2	1
45 - 49	40	22	18	5	6	5	29	20	9	4	6	2
50 - 54	33	17	16	6	7	6	28	19	9	5	8	3
55 - 59	27	14	13	6	7	6	26	14	12	6	7	5
60 - 64	36	17	19	10	10	10	29	13	16	8	8	8
65 - 69	33	18	15	12	15	10	30	18	12	11	15	8
70 - 74	34	18	16	14	18	12	28	14	14	12	14	10
75 - 79	25	13	12	14	19	11	26	8	18	15	12	17
80 - 84	8	3	5	7	8	7	9	5	4	8	14	6
85 +	12	7	5	14	29	8	13	7	6	16	29	10
Total/Crude	444	242	202	4	4	3	287	155	132	2	3	2

(Table Continues)

Prepared by the California Department of Health Services (CDHS), Cancer Surveillance Section.  
 Source: California Cancer Registry (08/01) and CDHS Center for Health Statistics Death Master Files.  
 Note: *In situ* cancers are excluded, unless specified. Race/ethnicity categories are mutually exclusive.  
 Persons of Hispanic ethnicity may be of any race.

# BRAIN AND NERVOUS SYSTEM CANCER

**Table II-2. Five-Year Incidence and Mortality Counts and Average Annual Age-Specific and Crude Rates per 100,000 Persons by Age, Race/Ethnicity, and Sex, California, 1995-1999, Brain and Nervous System Cancer (continued)**

Age at Diagnosis or Death	Incidence						Mortality					
	New Cases 1995-99			Annual Rate			Deaths 1995-99			Annual Rate		
	Total	Male	Female	T	M	F	Total	Male	Female	T	M	F
<b>Hispanic</b>												
00 - 04	177	88	89	3	3	3	38	14	24	1	0	1
05 - 09	137	65	72	2	2	3	52	20	32	1	1	1
10 - 14	81	48	33	2	2	2	36	19	17	1	1	1
15 - 19	52	29	23	1	2	1	17	10	7	0	1	0
20 - 24	66	43	23	2	2	1	21	14	7	1	1	0
25 - 29	89	48	41	2	2	2	30	20	10	1	1	1
30 - 34	111	61	50	2	2	2	34	20	14	1	1	1
35 - 39	100	51	49	2	2	3	49	29	20	1	1	1
40 - 44	120	68	52	4	4	3	66	41	25	2	2	2
45 - 49	90	54	36	4	5	3	58	32	26	2	3	2
50 - 54	93	51	42	6	6	5	79	42	37	5	5	4
55 - 59	78	39	39	6	7	6	73	42	31	6	7	5
60 - 64	118	55	63	12	12	12	83	46	37	9	10	7
65 - 69	111	63	48	14	17	11	99	57	42	12	15	10
70 - 74	98	53	45	15	19	13	83	46	37	13	16	11
75 - 79	63	27	36	15	16	15	57	28	29	14	16	12
80 - 84	44	12	32	18	13	20	35	7	28	14	7	18
85 +	19	5	14	8	6	9	21	7	14	9	8	9
Total/Crude	1,647	860	787	3	3	3	931	494	437	2	2	2
<b>Non-Hispanic White</b>												
00 - 04	185	111	74	4	4	3	38	23	15	1	1	1
05 - 09	176	100	76	3	3	3	39	19	20	1	1	1
10 - 14	133	69	64	3	3	3	44	26	18	1	1	1
15 - 19	120	72	48	2	3	2	32	20	12	1	1	1
20 - 24	117	64	53	2	3	2	39	25	14	1	1	1
25 - 29	180	114	66	3	4	2	65	38	27	1	1	1
30 - 34	258	159	99	4	5	3	99	68	31	1	2	1
35 - 39	335	206	129	4	5	3	171	112	59	2	3	2
40 - 44	425	249	176	6	7	5	233	137	96	3	4	3
45 - 49	463	292	171	7	9	5	366	236	130	6	7	4
50 - 54	535	309	226	10	11	8	412	245	167	7	9	6
55 - 59	539	328	211	12	15	10	474	290	184	11	13	8
60 - 64	574	343	231	16	19	12	537	315	222	15	18	12
65 - 69	659	401	258	19	25	14	605	362	243	18	22	13
70 - 74	702	367	335	21	25	18	672	338	334	20	23	18
75 - 79	692	361	331	25	32	21	654	344	310	24	30	20
80 - 84	424	196	228	23	28	20	417	195	222	23	28	20
85 +	245	95	150	17	22	14	255	102	153	17	24	15
Total/Crude	6,762	3,836	2,926	8	9	7	5,152	2,895	2,257	6	7	5

Prepared by the California Department of Health Services (CDHS), Cancer Surveillance Section.  
 Source: California Cancer Registry (08/01) and CDHS Center for Health Statistics Death Master Files.  
 Note: *In situ* cancers are excluded, unless specified. Race/ethnicity categories are mutually exclusive. Persons of Hispanic ethnicity may be of any race.

# SECTION II

**Table II-3. Risk (Percent) of Being Diagnosed with Invasive Cancer within the Next 10, 20, or 30 Years, or in Remaining Lifetime, Assuming Cancer Free at Current Age, and Lifetime Risk of Being Diagnosed with or Dying of Cancer by Race/Ethnicity and Sex, Brain and Nervous System Cancer**

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
<b>All Races</b>								
0	0.03	0.05	0.08	0.64	0.03	0.05	0.06	0.52
25	0.03	0.08	0.15	0.59	0.02	0.06	0.11	0.47
35	0.05	0.12	0.25	0.57	0.03	0.09	0.18	0.45
45	0.08	0.21	0.37	0.54	0.05	0.15	0.27	0.43
55	0.13	0.31	0.44	0.48	0.09	0.22	0.34	0.38
65	0.19	0.34	-	0.39	0.13	0.26	-	0.31
Lifetime Risk of Being Diagnosed = 0.64 %				Lifetime Risk of Being Diagnosed = 0.52 %				
Lifetime Risk of Dying of Cancer = 0.52 %				Lifetime Risk of Dying of Cancer = 0.42 %				
<b>Asian/Pacific Islander</b>								
0	0.02	0.04	0.05	0.40	0.02	0.04	0.05	0.32
25	0.02	0.04	0.09	0.36	0.02	0.04	0.07	0.28
35	0.03	0.07	0.12	0.34	0.02	0.05	0.10	0.26
45	0.04	0.09	0.17	0.32	0.03	0.08	0.15	0.24
55	0.05	0.13	0.23	0.28	0.05	0.12	0.19	0.22
65	0.09	0.20	-	0.25	0.07	0.15	-	0.18
Lifetime Risk of Being Diagnosed = 0.40 %				Lifetime Risk of Being Diagnosed = 0.32 %				
Lifetime Risk of Dying of Cancer = 0.29 %				Lifetime Risk of Dying of Cancer = 0.25 %				
<b>Black</b>								
0	0.03	0.05	0.07	0.39	0.02	0.04	0.06	0.33
25	0.02	0.05	0.11	0.34	0.01	0.04	0.08	0.29
35	0.04	0.10	0.17	0.34	0.02	0.07	0.14	0.28
45	0.06	0.13	0.23	0.31	0.05	0.12	0.20	0.26
55	0.08	0.19	0.24	0.28	0.07	0.16	0.20	0.23
65	0.13	0.20	-	0.25	0.09	0.15	-	0.18
Lifetime Risk of Being Diagnosed = 0.39 %				Lifetime Risk of Being Diagnosed = 0.33 %				
Lifetime Risk of Dying of Cancer = 0.29 %				Lifetime Risk of Dying of Cancer = 0.26 %				
<b>Hispanic</b>								
0	0.02	0.04	0.06	0.46	0.03	0.04	0.06	0.49
25	0.02	0.05	0.10	0.42	0.02	0.05	0.09	0.45
35	0.03	0.08	0.17	0.40	0.03	0.07	0.16	0.43
45	0.05	0.14	0.28	0.38	0.04	0.13	0.23	0.40
55	0.09	0.23	0.32	0.34	0.09	0.19	0.31	0.37
65	0.16	0.25	-	0.28	0.11	0.24	-	0.30
Lifetime Risk of Being Diagnosed = 0.46 %				Lifetime Risk of Being Diagnosed = 0.49 %				
Lifetime Risk of Dying of Cancer = 0.36 %				Lifetime Risk of Dying of Cancer = 0.36 %				
<b>Non-Hispanic White</b>								
0	0.04	0.07	0.10	0.76	0.03	0.05	0.08	0.59
25	0.04	0.10	0.19	0.70	0.03	0.07	0.13	0.53
35	0.06	0.15	0.31	0.66	0.04	0.11	0.21	0.51
45	0.10	0.25	0.44	0.62	0.07	0.17	0.30	0.47
55	0.16	0.36	0.51	0.55	0.11	0.24	0.37	0.42
65	0.22	0.39	-	0.43	0.15	0.29	-	0.34
Lifetime Risk of Being Diagnosed = 0.76 %				Lifetime Risk of Being Diagnosed = 0.59 %				
Lifetime Risk of Dying of Cancer = 0.61 %				Lifetime Risk of Dying of Cancer = 0.47 %				

Prepared by the California Department of Health Services (CDHS), Cancer Surveillance Section.  
 Source: California Cancer Registry (08/01) and CDHS Center for Health Statistics Death Master Files.  
 Note: Based on average annual age-specific cancer incidence and mortality rates in California, 1995-1999.  
 Race/ethnicity categories are mutually exclusive. Persons of Hispanic ethnicity may be of any race.