

Table A.1

Number of Incidence Cases, 2003-2007

By Primary Cancer Site, Race and Sex  
17 SEER Geographic Areas

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	39,405	26,964	12,441	32,503	22,432	10,071	3,547	2,418	1,129
Esophagus	16,696	12,726	3,970	14,077	10,866	3,211	1,717	1,188	529
Stomach	28,867	17,439	11,428	20,825	12,818	8,007	3,552	2,036	1,516
Colon & Rectum	177,307	90,161	87,146	144,233	73,811	70,422	18,141	8,687	9,454
Colon	127,157	61,833	65,324	103,741	50,799	52,942	13,628	6,327	7,301
Rectum	50,150	28,328	21,822	40,492	23,012	17,480	4,513	2,360	2,153
Liver & IBD <sup>a</sup>	26,130	18,516	7,614	18,086	12,848	5,238	2,940	2,128	812
Pancreas	43,240	21,232	22,008	35,413	17,560	17,853	4,635	2,116	2,519
Larynx	12,818	10,235	2,583	10,498	8,350	2,148	1,797	1,434	363
Lung & Bronchus	227,671	120,930	106,741	191,397	100,192	91,205	22,579	12,785	9,794
Melanoma of the skin	75,642	43,185	32,457	71,358	41,031	30,327	327	143	184
Breast	251,604	1,946	249,658	208,042	1,629	206,413	23,225	216	23,009
Cervix uteri	15,884	-	15,884	12,054	-	12,054	2,060	-	2,060
Corpus & Uterus, NOS	48,073	-	48,073	40,237	-	40,237	3,834	-	3,834
Ovary <sup>b</sup>	26,368	-	26,368	22,320	-	22,320	1,921	-	1,921
Prostate	257,962	257,962	-	204,524	204,524	-	31,100	31,100	-
Testis	10,524	10,524	-	9,657	9,657	-	255	255	-
Urinary bladder	76,890	57,652	19,238	69,042	52,131	16,911	3,747	2,444	1,303
Kidney & Renal pelvis	52,590	32,515	20,075	44,260	27,417	16,843	5,098	3,110	1,988
Brain & ONS <sup>a</sup>	24,404	13,517	10,887	21,415	11,952	9,463	1,490	772	718
Thyroid	39,133	9,360	29,773	32,407	8,009	24,398	2,327	472	1,855
Hodgkin lymphoma	10,702	5,857	4,845	8,965	4,920	4,045	1,103	584	519
Non-Hodgkin lymphoma	72,966	39,196	33,770	62,237	33,479	28,758	5,096	2,747	2,349
Myeloma	20,813	11,444	9,369	15,847	8,920	6,927	3,587	1,811	1,776
Leukemia	45,780	26,103	19,677	39,021	22,374	16,647	3,264	1,778	1,486
Acute lymphocytic	6,231	3,544	2,687	5,211	2,969	2,242	413	241	172
Chronic lymphocytic	15,258	9,048	6,210	13,470	7,978	5,492	879	527	352
Acute myeloid	12,972	6,962	6,010	10,844	5,905	4,939	1,020	498	522
Chronic myeloid	5,618	3,262	2,356	4,653	2,714	1,939	501	268	233
All others	5,701	3,287	2,414	4,843	2,808	2,035	451	244	207
Kaposi Sarcoma	2,325	2,111	214	1,640	1,485	155	501	462	39
Mesothelioma	3,841	2,941	900	3,505	2,696	809	190	138	52
All Sites	1,717,500	884,076	833,424	1,424,834	732,092	692,742	158,072	83,292	74,780

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

<sup>a</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.<sup>b</sup> Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

- Count not shown due to fewer than 16 cases during the time period.

Table A.1

Number of Incidence Cases, 2003-2007

By Primary Cancer Site, Race and Sex  
17 SEER Geographic Areas

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	2,637	1,654	983	164	104	60	2,735	1,835	900
Esophagus	734	555	179	76	46	30	1,130	892	238
Stomach	4,092	2,334	1,758	213	135	78	4,784	2,680	2,104
Colon & Rectum	12,536	6,430	6,106	818	397	421	15,390	8,220	7,170
Colon	8,258	3,959	4,299	586	262	324	10,465	5,316	5,149
Rectum	4,278	2,471	1,807	232	135	97	4,925	2,904	2,021
Liver & IBD <sup>c</sup>	4,700	3,256	1,444	225	153	72	4,591	3,270	1,321
Pancreas	2,808	1,376	1,432	188	88	100	4,013	1,881	2,132
Larynx	389	339	50	31	22	-	981	841	140
Lung & Bronchus	12,012	7,070	4,942	812	418	394	12,041	6,647	5,394
Melanoma of the skin	479	233	246	84	37	47	2,270	915	1,355
Breast	17,224	76	17,148	930	-	923	22,692	127	22,565
Cervix uteri	1,442	-	1,442	100	-	100	3,692	-	3,692
Corpus & Uterus, NOS	3,342	-	3,342	202	-	202	4,549	-	4,549
Ovary <sup>d</sup>	1,844	-	1,844	130	-	130	2,828	-	2,828
Prostate	12,137	12,137	-	638	638	-	21,438	21,438	-
Testis	339	339	-	70	70	-	1,999	1,999	-
Urinary bladder	2,766	2,080	686	144	112	32	4,122	3,048	1,074
Kidney & Renal pelvis	2,416	1,500	916	365	206	159	6,024	3,587	2,437
Brain & ONS <sup>c</sup>	1,220	642	578	92	46	46	3,145	1,706	1,439
Thyroid	3,714	733	2,981	154	34	120	5,313	970	4,343
Hodgkin lymphoma	479	265	214	28	-	-	1,601	906	695
Non-Hodgkin lymphoma	4,197	2,248	1,949	233	116	117	7,526	4,080	3,446
Myeloma	1,028	539	489	86	40	46	2,187	1,160	1,027
Leukemia	2,395	1,322	1,073	158	83	75	5,568	3,121	2,447
Acute lymphocytic	497	276	221	37	22	-	2,108	1,188	920
Chronic lymphocytic	288	169	119	27	17	-	675	378	297
Acute myeloid	985	509	476	46	-	31	1,569	831	738
Chronic myeloid	322	200	122	24	-	-	657	395	262
All others	303	168	135	24	-	-	559	329	230
Kaposi Sarcoma	63	58	-	-	-	-	536	498	38
Mesothelioma	117	87	30	16	-	-	362	247	115
All Sites	101,708	48,402	53,306	6,485	3,028	3,457	153,583	75,523	78,060

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

<sup>a</sup> Incidence data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.<sup>c</sup> Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.<sup>d</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.<sup>e</sup> Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

- Count not shown due to fewer than 16 cases during the time period.

Table A.2

## Standard Errors of Incidence Rates, 2003-2007

By Primary Cancer Site, Race and Sex  
17 SEER Geographic Areas

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.05	0.10	0.05	0.06	0.11	0.06	0.18	0.34	0.18
Esophagus	0.04	0.07	0.03	0.04	0.08	0.03	0.13	0.27	0.13
Stomach	0.05	0.08	0.05	0.05	0.09	0.05	0.20	0.39	0.22
Colon & Rectum	0.11	0.19	0.14	0.13	0.21	0.16	0.45	0.77	0.55
Colon	0.10	0.16	0.12	0.11	0.17	0.13	0.39	0.68	0.49
Rectum	0.06	0.10	0.07	0.07	0.11	0.08	0.21	0.38	0.25
Liver & IBD <sup>a</sup>	0.04	0.08	0.04	0.04	0.08	0.04	0.16	0.32	0.16
Pancreas	0.06	0.09	0.07	0.06	0.10	0.08	0.23	0.38	0.29
Larynx	0.03	0.06	0.03	0.03	0.07	0.03	0.13	0.28	0.10
Lung & Bronchus	0.13	0.22	0.16	0.15	0.24	0.18	0.50	0.94	0.56
Melanoma of the skin	0.07	0.13	0.09	0.09	0.15	0.11	0.06	0.10	0.07
Breast	0.13	0.03	0.25	0.15	0.03	0.28	0.46	0.12	0.79
Cervix uteri	0.03	-	0.06	0.04	-	0.07	0.13	-	0.23
Corpus & Uterus, NOS	0.06	-	0.11	0.07	-	0.12	0.20	-	0.34
Ovary <sup>b</sup>	0.04	-	0.08	0.05	-	0.09	0.14	-	0.24
Prostate	0.14	0.31	-	0.15	0.34	-	0.57	1.39	-
Testis	0.03	0.05	-	0.03	0.07	-	0.04	0.08	-
Urinary bladder	0.08	0.16	0.07	0.09	0.18	0.08	0.21	0.44	0.21
Kidney & Renal pelvis	0.06	0.11	0.07	0.07	0.12	0.08	0.22	0.41	0.24
Brain & ONS <sup>a</sup>	0.04	0.07	0.05	0.05	0.08	0.06	0.11	0.18	0.13
Thyroid	0.05	0.05	0.09	0.06	0.06	0.10	0.13	0.15	0.21
Hodgkin lymphoma	0.03	0.04	0.04	0.03	0.05	0.04	0.08	0.13	0.10
Non-Hodgkin lymphoma	0.07	0.12	0.09	0.08	0.14	0.10	0.21	0.36	0.26
Myeloma	0.04	0.07	0.05	0.04	0.07	0.05	0.20	0.36	0.24
Leukemia	0.06	0.10	0.07	0.07	0.11	0.08	0.18	0.33	0.21
Acute lymphocytic	0.02	0.03	0.03	0.02	0.04	0.03	0.05	0.07	0.06
Chronic lymphocytic	0.03	0.06	0.04	0.04	0.07	0.04	0.10	0.20	0.11
Acute myeloid	0.03	0.05	0.04	0.03	0.06	0.04	0.10	0.17	0.12
Chronic myeloid	0.02	0.04	0.02	0.02	0.04	0.03	0.07	0.13	0.08
All others	0.02	0.04	0.02	0.02	0.04	0.03	0.07	0.12	0.08
Kaposi Sarcoma	0.01	0.03	0.01	0.01	0.03	0.01	0.06	0.11	0.03
Mesothelioma	0.02	0.04	0.01	0.02	0.04	0.02	0.05	0.11	0.04
All Sites	0.35	0.58	0.45	0.40	0.64	0.51	1.27	2.29	1.48

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

<sup>a</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

<sup>b</sup> Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

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17 SEER Geographic Areas

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.15	0.26	0.17	0.59	0.99	0.70	0.12	0.22	0.13
Esophagus	0.09	0.18	0.08	0.48	0.82	0.54	0.09	0.18	0.08
Stomach	0.21	0.37	0.24	0.78	1.43	0.86	0.18	0.31	0.21
Colon & Rectum	0.35	0.58	0.44	1.54	2.33	2.04	0.32	0.53	0.38
Colon	0.29	0.47	0.37	1.34	1.95	1.82	0.27	0.44	0.33
Rectum	0.20	0.34	0.23	0.76	1.27	0.91	0.17	0.30	0.19
Liver & IBD <sup>c</sup>	0.21	0.39	0.22	0.74	1.26	0.84	0.16	0.30	0.17
Pancreas	0.17	0.28	0.22	0.78	1.21	1.03	0.17	0.27	0.22
Larynx	0.06	0.13	0.04	0.29	0.55	-	0.08	0.17	0.05
Lung & Bronchus	0.36	0.64	0.40	1.65	2.72	2.05	0.30	0.54	0.35
Melanoma of the skin	0.07	0.11	0.08	0.44	0.72	0.57	0.10	0.16	0.14
Breast	0.38	0.06	0.69	1.41	-	2.59	0.32	0.06	0.59
Cervix uteri	0.11	-	0.20	0.43	-	0.79	0.11	-	0.21
Corpus & Uterus, NOS	0.16	-	0.30	0.66	-	1.22	0.15	-	0.27
Ovary <sup>d</sup>	0.13	-	0.23	0.55	-	0.99	0.12	-	0.22
Prostate	0.36	0.83	-	1.41	3.26	-	0.39	0.90	-
Testis	0.05	0.10	-	0.26	0.53	-	0.05	0.09	-
Urinary bladder	0.18	0.36	0.15	0.67	1.33	0.59	0.18	0.37	0.16
Kidney & Renal pelvis	0.15	0.27	0.17	0.96	1.59	1.16	0.18	0.32	0.21
Brain & ONS <sup>c</sup>	0.10	0.16	0.13	0.39	0.58	0.52	0.10	0.17	0.13
Thyroid	0.17	0.17	0.28	0.49	0.58	0.79	0.12	0.13	0.21
Hodgkin lymphoma	0.06	0.10	0.08	0.20	-	-	0.07	0.11	0.08
Non-Hodgkin lymphoma	0.20	0.34	0.25	0.79	1.27	1.02	0.20	0.33	0.26
Myeloma	0.10	0.18	0.13	0.51	0.82	0.67	0.12	0.20	0.15
Leukemia	0.15	0.25	0.18	0.56	0.88	0.73	0.14	0.24	0.18
Acute lymphocytic	0.06	0.10	0.08	0.18	0.30	-	0.06	0.08	0.08
Chronic lymphocytic	0.06	0.10	0.06	0.27	0.49	-	0.07	0.13	0.08
Acute myeloid	0.10	0.16	0.12	0.34	-	0.50	0.08	0.14	0.10
Chronic myeloid	0.05	0.09	0.06	0.23	-	-	0.05	0.10	0.06
All others	0.05	0.09	0.07	0.21	-	-	0.05	0.09	0.06
Kaposi Sarcoma	0.02	0.05	-	-	-	-	0.04	0.09	0.03
Mesothelioma	0.03	0.07	0.03	0.22	-	-	0.05	0.10	0.05
All Sites	0.99	1.61	1.26	4.15	6.57	5.40	0.93	1.57	1.16

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

<sup>a</sup> Incidence data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.<sup>c</sup> Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.<sup>d</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.<sup>d</sup> Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table A.3

## Number of Deaths, 2003-2007

By Primary Cancer Site, Race and Sex  
United States

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	39,163	26,658	12,505	32,399	21,674	10,725	5,413	4,072	1,341
Esophagus	66,659	52,085	14,574	57,928	45,780	12,148	7,491	5,368	2,123
Stomach	58,216	34,175	24,041	44,193	26,068	18,125	9,962	5,825	4,137
Colon & Rectum	268,783	135,457	133,326	227,803	115,232	112,571	34,114	16,702	17,412
Liver & IBD <sup>a</sup>	79,773	51,964	27,809	63,222	40,764	22,458	10,459	7,173	3,286
Pancreas	162,878	80,674	82,204	139,510	69,749	69,761	19,010	8,829	10,181
Larynx	18,710	14,818	3,892	15,123	11,870	3,253	3,305	2,711	594
Lung & Bronchus	792,495	447,192	345,303	693,806	388,094	305,712	82,354	49,505	32,849
Melanoma of the skin	41,017	26,354	14,663	40,103	25,913	14,190	626	289	337
Breast	206,983	1,876	205,107	173,403	1,579	171,824	28,804	274	28,530
Cervix uteri	19,690	-	19,690	14,885	-	14,885	3,955	-	3,955
Corpus & Uterus, NOS	35,825	-	35,825	29,012	-	29,012	5,936	-	5,936
Ovary	73,638	-	73,638	65,831	-	65,831	6,014	-	6,014
Prostate	144,926	144,926	-	118,423	118,423	-	24,138	24,138	-
Testis	1,744	1,744	-	1,567	1,567	-	124	124	-
Urinary bladder	66,083	45,817	20,266	60,372	42,580	17,792	4,829	2,649	2,180
Kidney & Renal pelvis	62,198	38,753	23,445	55,112	34,374	20,738	5,722	3,513	2,209
Brain & ONS <sup>a</sup>	65,002	36,026	28,976	59,748	33,175	26,573	3,925	2,109	1,816
Thyroid	7,263	3,046	4,217	6,290	2,742	3,548	624	181	443
Hodgkin lymphoma	6,493	3,615	2,878	5,686	3,154	2,532	667	380	287
Non-Hodgkin lymphoma	104,407	55,522	48,885	94,820	50,421	44,399	7,042	3,728	3,314
Myeloma	53,729	28,222	25,507	43,562	23,306	20,256	9,065	4,342	4,723
Leukemia	108,740	61,288	47,452	97,317	55,141	42,176	9,043	4,800	4,243
Acute lymphocytic	7,071	4,010	3,061	6,189	3,486	2,703	610	373	237
Chronic lymphocytic	22,178	13,095	9,083	20,208	11,921	8,287	1,796	1,060	736
Acute myeloid	41,714	23,230	18,484	37,357	21,012	16,345	3,237	1,589	1,648
Chronic myeloid	5,525	3,043	2,482	4,743	2,597	2,146	649	362	287
All others	32,252	17,910	14,342	28,820	16,125	12,695	2,751	1,416	1,335
All Sites	2,792,820	1,448,140	1,344,680	2,408,304	1,249,331	1,158,973	315,444	163,229	152,215

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>a</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

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## Number of Deaths, 2003-2007

By Primary Cancer Site, Race and Sex  
United States

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	1,153	778	375	132	85	47	1,670	1,221	449
Esophagus	946	714	232	210	160	50	2,340	1,869	471
Stomach	3,640	2,023	1,617	345	213	132	6,466	3,687	2,779
Colon & Rectum	5,717	2,892	2,825	825	447	378	12,964	6,976	5,988
Liver & IBD <sup>c</sup>	5,440	3,618	1,822	469	280	189	8,597	5,670	2,927
Pancreas	3,702	1,771	1,931	461	232	229	8,298	4,130	4,168
Larynx	193	166	27	52	45	-	878	798	80
Lung & Bronchus	13,100	7,841	5,259	2,099	1,118	981	21,782	13,773	8,009
Melanoma of the skin	200	99	101	67	41	26	863	497	366
Breast	3,962	19	3,943	560	-	557	9,911	58	9,853
Cervix uteri	696	-	696	116	-	116	2,205	-	2,205
Corpus & Uterus, NOS	761	-	761	87	-	87	1,820	-	1,820
Ovary	1,501	-	1,501	210	-	210	3,596	-	3,596
Prostate	1,844	1,844	-	357	357	-	6,554	6,554	-
Testis	42	42	-	-	-	-	276	276	-
Urinary bladder	734	491	243	87	60	27	2,131	1,463	668
Kidney & Renal pelvis	926	578	348	327	209	118	3,838	2,462	1,376
Brain & ONS <sup>c</sup>	1,122	618	504	133	82	51	3,650	2,001	1,649
Thyroid	319	109	210	22	-	-	596	252	344
Hodgkin lymphoma	115	64	51	18	-	-	540	314	226
Non-Hodgkin lymphoma	2,181	1,188	993	265	127	138	5,587	3,042	2,545
Myeloma	840	436	404	187	97	90	2,880	1,456	1,424
Leukemia	2,001	1,135	866	281	160	121	6,114	3,458	2,656
Acute lymphocytic	217	114	103	43	27	16	1,378	793	585
Chronic lymphocytic	119	83	36	36	22	-	467	273	194
Acute myeloid	982	551	431	102	57	45	2,205	1,219	986
Chronic myeloid	101	62	39	25	18	-	333	196	137
All others	582	325	257	75	36	39	1,731	977	754
All Sites	57,053	29,388	27,665	8,410	4,259	4,151	128,904	67,853	61,051

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>a</sup> Mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.<sup>c</sup> Mortality data for Hispanics excludes deaths from District of Columbia, New Hampshire and North Dakota.<sup>c</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Count not shown due to fewer than 16 cases during the time period.

Table A.4  
Standard Errors of Death Rates, 2003-2007  
By Primary Cancer Site, Race and Sex  
United States

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.01	0.02	0.01	0.01	0.03	0.01	0.05	0.10	0.04
Esophagus	0.02	0.03	0.01	0.02	0.04	0.01	0.06	0.13	0.06
Stomach	0.02	0.03	0.02	0.02	0.03	0.02	0.07	0.15	0.08
Colon & Rectum	0.03	0.06	0.04	0.04	0.06	0.04	0.14	0.25	0.16
Liver & IBD <sup>a</sup>	0.02	0.03	0.02	0.02	0.03	0.02	0.07	0.14	0.07
Pancreas	0.03	0.04	0.03	0.03	0.05	0.04	0.10	0.17	0.12
Larynx	0.01	0.02	0.01	0.01	0.02	0.01	0.04	0.09	0.03
Lung & Bronchus	0.06	0.10	0.07	0.06	0.11	0.08	0.21	0.41	0.22
Melanoma of the skin	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.03	0.02
Breast	0.03	0.01	0.05	0.03	0.01	0.06	0.12	0.03	0.19
Cervix uteri	0.01	-	0.02	0.01	-	0.02	0.04	-	0.07
Corpus & Uterus, NOS	0.01	-	0.02	0.01	-	0.02	0.06	-	0.09
Ovary	0.02	-	0.03	0.02	-	0.04	0.06	-	0.09
Prostate	0.03	0.07	-	0.03	0.07	-	0.13	0.36	-
Testis	0.00	0.01	-	0.00	0.01	-	0.01	0.01	-
Urinary bladder	0.02	0.04	0.02	0.02	0.04	0.02	0.05	0.11	0.06
Kidney & Renal pelvis	0.02	0.03	0.02	0.02	0.03	0.02	0.05	0.11	0.06
Brain & ONS <sup>a</sup>	0.02	0.03	0.02	0.02	0.03	0.02	0.04	0.07	0.05
Thyroid	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03
Hodgkin lymphoma	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.02
Non-Hodgkin lymphoma	0.02	0.04	0.03	0.02	0.04	0.03	0.06	0.11	0.07
Myeloma	0.02	0.03	0.02	0.02	0.03	0.02	0.07	0.13	0.09
Leukemia	0.02	0.04	0.03	0.02	0.04	0.03	0.07	0.13	0.08
Acute lymphocytic	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Chronic lymphocytic	0.01	0.02	0.01	0.01	0.02	0.01	0.03	0.07	0.03
Acute myeloid	0.01	0.02	0.02	0.01	0.03	0.02	0.04	0.07	0.05
Chronic myeloid	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.02
All others	0.01	0.02	0.01	0.01	0.02	0.01	0.04	0.07	0.04
All Sites	0.11	0.19	0.14	0.12	0.20	0.15	0.41	0.77	0.47

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>a</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table A.4

## Standard Errors of Death Rates, 2003-2007

By Primary Cancer Site, Race and Sex  
United States

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.06	0.12	0.07	0.22	0.40	0.24	0.04	0.08	0.04
Esophagus	0.06	0.13	0.06	0.27	0.54	0.24	0.05	0.10	0.04
Stomach	0.12	0.22	0.14	0.35	0.67	0.38	0.08	0.14	0.09
Colon & Rectum	0.15	0.26	0.19	0.56	0.98	0.68	0.12	0.20	0.14
Liver & IBD <sup>c</sup>	0.14	0.26	0.15	0.41	0.70	0.49	0.09	0.16	0.10
Pancreas	0.13	0.20	0.16	0.43	0.70	0.54	0.09	0.15	0.12
Larynx	0.03	0.06	0.02	0.13	0.30	-	0.03	0.07	0.02
Lung & Bronchus	0.23	0.43	0.26	0.90	1.52	1.09	0.15	0.29	0.16
Melanoma of the skin	0.03	0.05	0.03	0.15	0.27	0.17	0.03	0.05	0.03
Breast	0.11	0.02	0.20	0.44	-	0.77	0.09	0.02	0.16
Cervix uteri	0.05	-	0.08	0.18	-	0.32	0.04	-	0.07
Corpus & Uterus, NOS	0.05	-	0.09	0.18	-	0.32	0.04	-	0.07
Ovary	0.07	-	0.13	0.28	-	0.48	0.06	-	0.10
Prostate	0.10	0.25	-	0.43	1.11	-	0.09	0.24	-
Testis	0.01	0.02	-	-	-	-	0.01	0.02	-
Urinary bladder	0.06	0.12	0.06	0.20	0.41	0.18	0.05	0.11	0.05
Kidney & Renal pelvis	0.06	0.11	0.07	0.34	0.65	0.36	0.06	0.11	0.06
Brain & ONS <sup>c</sup>	0.06	0.10	0.07	0.19	0.33	0.23	0.05	0.08	0.06
Thyroid	0.04	0.05	0.05	0.10	-	-	0.02	0.04	0.03
Hodgkin lymphoma	0.02	0.03	0.02	0.08	-	-	0.02	0.03	0.02
Non-Hodgkin lymphoma	0.10	0.17	0.11	0.32	0.50	0.41	0.07	0.13	0.09
Myeloma	0.06	0.10	0.07	0.27	0.46	0.33	0.05	0.09	0.07
Leukemia	0.09	0.15	0.10	0.31	0.51	0.37	0.07	0.12	0.08
Acute lymphocytic	0.02	0.04	0.03	0.08	0.13	0.09	0.02	0.03	0.03
Chronic lymphocytic	0.02	0.05	0.02	0.13	0.24	-	0.02	0.04	0.03
Acute myeloid	0.06	0.11	0.07	0.18	0.30	0.23	0.04	0.07	0.05
Chronic myeloid	0.02	0.03	0.02	0.09	0.16	-	0.02	0.03	0.02
All others	0.05	0.09	0.06	0.17	0.27	0.22	0.04	0.07	0.05
All Sites	0.48	0.82	0.58	1.78	3.02	2.20	0.36	0.62	0.43

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>a</sup> Mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Mortality data for Hispanics excludes deaths from District of Columbia, New Hampshire and North Dakota.

<sup>c</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Statistic could not be calculated due to fewer than 16 cases during the time period.



Table A.5

SEER Site Recode ICD-O-3 (1/27/2003) Definition

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
<b>Oral Cavity and Pharynx</b>			
Lip	C000-C009		20010
Tongue	C019-C029		20020
Salivary Gland	C079-C089		20030
Floor of Mouth	C040-C049		20040
Gum and Other Mouth	C030-C039, C050-C059, C060-C069	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	20050
Nasopharynx	C110-C119		20060
Tonsil	C090-C099		20070
Oropharynx	C100-C109		20080
Hypopharynx	C129, C130-C139		20090
Other Oral Cavity and Pharynx	C140, C142-C148		20100
<b>Digestive System</b>			
Esophagus	C150-C159	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	21010
Stomach	C160-C169		21020
Small Intestine	C170-C179		21030
Colon and Rectum			
Colon excluding Rectum			
Cecum	C180		21041
Appendix	C181		21042
Ascending Colon	C182		21043
Hepatic Flexure	C183	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	21044
Transverse Colon	C184		21045
Splenic Flexure	C185		21046
Descending Colon	C186		21047
Sigmoid Colon	C187		21048
Large Intestine, NOS	C188-C189, C260		21049
Rectum and Rectosigmoid Junction			
Rectosigmoid Junction	C199	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	21051
Rectum	C209		21052
Anus, Anal Canal and Anorectum	C210-C212, C218		21060
Liver and Intrahepatic Bile Duct			
Liver	C220		21071
Intrahepatic Bile Duct	C221		21072
Gallbladder	C239	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	21080
Other Biliary	C240-C249		21090
Pancreas	C250-C259		21100
Retroperitoneum	C480		21110
Peritoneum, Omentum and Mesentery	C481-C482		21120
Other Digestive Organs	C268-C269, C488		21130
<b>Respiratory System</b>			
Nose, Nasal Cavity and Middle Ear	C300-C301, C310-C319		22010
Larynx	C320-C329		22020
Lung and Bronchus	C340-C349	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	22030
Pleura	C384		22050
Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388 C390, C398, C399		22060
<b>Bones and Joints</b>	C400-C419	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	23000
<b>Soft Tissue including Heart</b>	C380, C470-C479, C490-C499	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	24000
<b>Skin excluding Basal and Squamous</b>			
Melanoma of the Skin	C440-C449	8720-8790	25010
Other Non-Epithelial Skin	C440-C449	excluding 8000-8005, 8010-8045, 8050-8084, 8090-8110, 8720-8790, 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	25020
<b>Breast</b>	C500-C509	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	26000
<b>Female Genital System</b>			
Cervix Uteri	C530-C539		27010
Corpus and Uterus, NOS			
Corpus Uteri	C540-C549		27020
Uterus, NOS	C559	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	27030
Ovary	C569		27040
Vagina	C529		27050
Vulva	C510-C519		27060
Other Female Genital Organs	C570-C589		27070

Table A.5 - continued

SEER Site Recode ICD-O-3 (1/27/2003) Definition

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
<b>Male Genital System</b>			
Prostate	C619		28010
Testis	C620-C629	excluding 9590-9989, and	28020
Penis	C600-C609	sometimes 9050-9055, 9140 <sup>+</sup>	28030
Other Male Genital Organs	C630-C639		28040
<b>Urinary System</b>			
Urinary Bladder	C670-C679		29010
Kidney and Renal Pelvis	C649, C659	excluding 9590-9989, and	29020
Ureter	C669	sometimes 9050-9055, 9140 <sup>+</sup>	29030
Other Urinary Organs	C680-C689		29040
<b>Eye and Orbit</b>	C690-C699	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	30000
<b>Brain and Other Nervous System</b>			
Brain	C710-C719	excluding 9530-9539, 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	31010
Cranial Nerves Other Nervous System	C710-C719 C700-C709, C720-C729	9530-9539 excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	31040
<b>Endocrine System</b>			
Thyroid	C739	excluding 9590-9989, and	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759	sometimes 9050-9055, 9140 <sup>+</sup>	32020
<b>Lymphoma</b>			
<b>Hodgkin Lymphoma</b>			
Hodgkin - Nodal	C024, C098-C099, C111, C142, C379, C422, C770-C779	9650-9667	33011
Hodgkin - Extranodal	All other sites		33012
<b>Non-Hodgkin Lymphoma</b>			
NHL - Nodal	C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714-9719, 9727-9729, 9823, 9827	33041
NHL - Extranodal	All sites except C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714-9719, 9727-9729	33042
	All sites except C024, C098- C099, C111, C142, C379, C420-C422, C424, C770-C779	9823, 9827	
<b>Myeloma</b>		9731-9732, 9734	34000
<b>Leukemia</b>			
<b>Lymphocytic Leukemia</b>			
Acute Lymphocytic Leukemia		9826, 9835-9837	35011
Chronic Lymphocytic Leukemia	C420-C421, C424	9823	35012
Other Lymphocytic Leukemia		9820, 9832-9834, 9940	35013
<b>Myeloid and Monocytic Leukemia</b>			
Acute Myeloid Leukemia		9840, 9861, 9866, 9867, 9871-9874, 9895-9897, 9910, 9920	35021
Acute Monocytic Leukemia		9891	35031
Chronic Myeloid Leukemia		9863, 9875, 9876, 9945, 9946	35022
Other Myeloid/Monocytic Leukemia		9860, 9930	35023
<b>Other Leukemia</b>			
Other Acute Leukemia		9801, 9805, 9931	35041
Aleukemic, Subleukemic and NOS		9733, 9742, 9800, 9831, 9870, 9948, 9963, 9964	35043
	C420, C421, C424	9827	
<b>Mesothelioma</b> <sup>+</sup>		9050-9055	36010
<b>Kaposi Sarcoma</b> <sup>+</sup>		9140	36020
<b>Miscellaneous</b>		9740-9741, 9750-9758, 9760-9769, 9950, 9960-9962, 9970, 9975, 9980, 9982-9987, 9989	37000
	C420-C424, C760-C768 C770-C779, C809	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	
<b>Invalid</b>	Site or histology code not within valid range or site code not found in this table		99999

<sup>+</sup> The Site Recode variable can be created with or without Mesothelioma (9050-9055) and Kaposi Sarcoma (9140) as separate groupings. The table above documents both possibilities.

Table A.6

International Classification of Childhood Cancer (ICCC)<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>I. Leukemias, myeloproliferative diseases, and myelodysplastic diseases</b>		
a. Lymphoid leukemias	9820, 9823, 9826, 9827, 9831-9837, 9940, 9948	
b. Acute myeloid leukemias	9840, 9861, 9866, 9867, 9870-9874, 9891, 9895-9897, 9910, 9920, 9931	
c. Chronic myeloproliferative diseases	9863, 9875, 9876, 9950, 9960-9964	
d. Myelodysplastic syndrome and other myeloproliferative diseases	9945, 9946, 9975, 9980, 9982-9987, 9989	
e. Unspecified and other specified leukemias	9800, 9801, 9805, 9860, 9930	
<b>II. Lymphomas and reticuloendothelial neoplasms</b>		
a. Hodgkin lymphomas	9650-9655, 9659, 9661-9665, 9667	
b. Non-Hodgkin lymphomas (except Burkitt lymphoma)	9591, 9670, 9671, 9673, 9675, 9678-9680, 9684, 9689-9691, 9695, 9698-9702, 9705, 9708, 9709, 9714, 9716-9719, 9727-9729, 9731-9734, 9760-9762, 9764-9769, 9970	
c. Burkitt lymphoma	9687	
d. Miscellaneous lymphoreticular neoplasms	9740-9742, 9750, 9754-9758	
e. Unspecified lymphomas	9590, 9596	
<b>III. CNS and miscellaneous intracranial and intraspinal neoplasms</b>		
a. Ependymomas and choroid plexus tumor	9383, 9390-9394 <sup>b</sup>	
b. Astrocytomas	9380 <sup>b</sup>	C72.3
	9384, 9400-9411, 9420, 9421-9424, 9440-9442 <sup>b</sup>	
c. Intracranial and intraspinal embryonal tumors	9470-9474, 9480, 9508 <sup>b</sup>	C70.0-C72.9
d. Other gliomas	9501-9504 <sup>b</sup>	C70.0-C72.2, C72.4-C72.9, C75.1, C75.3
	9381, 9382, 9430, 9444, 9450, 9451, 9460 <sup>b</sup>	
e. Other specified intracranial and intraspinal neoplasms	8270-8281, 8300, 9350-9352, 9360-9362, 9412, 9413, 9492, 9493, 9505-9507, 9530-9539, 9582 <sup>b</sup>	
f. Unspecified intracranial and intraspinal neoplasms	8000-8005 <sup>b</sup>	C70.0-C72.9, C75.1-C75.3
<b>IV. Neuroblastoma and other peripheral nervous cell tumors</b>		
a. Neuroblastoma and ganglioneuroblastoma	9490, 9500	
b. Other peripheral nervous cell tumors	8680-8683, 8690-8693, 8700, 9520-9523	
	9501-9504	C00.0-C69.9, C73.9-C76.8, C80.9
<b>V. Retinoblastoma</b>	9510-9514	
<b>VI. Renal tumors</b>		
a. Nephroblastoma and other nonepithelial renal tumors	8959, 8960, 8964-8967	
	8963, 9364	C64.9
b. Renal carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8143, 8155, 8190-8201, 8210, 8211, 8221-8231, 8240, 8241, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8401, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8576	C64.9
	8311, 8312, 8316-8319, 8361	
c. Unspecified malignant renal tumors	8000-8005	C64.9
<b>VII. Hepatic tumors</b>		
a. Hepatoblastoma	8970	
b. Hepatic carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8140, 8141, 8143, 8155, 8190-8201, 8210, 8211, 8230, 8231, 8240, 8241, 8244-8246, 8260-8264, 8310, 8320, 8323, 8401, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8576	C22.0, C22.1
	8160-8180	
c. Unspecified malignant hepatic tumors	8000-8005	C22.0, C22.1

<sup>a</sup> International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005; Vol 103, No. 7, pg 1457-1467.

<sup>b</sup> Tumors with nonmalignant behavior are included for all morphology codes on the line. CNS: central nervous system.

Table A.6 - continued

International Classification of Childhood Cancer (ICCC)<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>VIII. Malignant bone tumors</b>		
a. Osteosarcomas	9180-9187, 9191-9195, 9200	C40.0-C41.9, C76.0-C76.8, C80.9
b. Chondrosarcomas	9210, 9220, 9240	C40.0-C41.9, C76.0-C76.8, C80.9
	9221, 9230, 9241-9243	
c. Ewing tumor and related sarcomas of bone	9260	C40.0-C41.9, C76.0-C76.8, C80.9
	9363-9365	C40.0-C41.9
d. Other specified malignant bone tumors	8810, 8811, 8823, 8830 8812, 9250, 9261, 9262, 9270-9275, 9280-9282, 9290, 9300-9302, 9310-9312, 9320-9322, 9330, 9340-9342, 9370-9372	C40.0-C41.9
e. Unspecified malignant bone tumors	8000-8005, 8800, 8801, 8803-8805	C40.0-C41.9
<b>IX. Soft tissue and &lt;STYLE&gt; other extraosseous sarcomas</b>		
a. Rhabdomyosarcomas	8900-8905, 8910, 8912, 8920, 8991	
b. Fibrosarcomas, peripheral nerve sheath tumors, and other fibrous neoplasms	8810, 8811, 8813-8815, 8821, 8823, 8834-8835	C00.0-C39.9, C44.0-C76.8, C80.9
	8820, 8822, 8824-8827, 9150, 9160, 9491, 9540-9571, 9580	
c. Kaposi sarcoma	9140	
d. Other specified soft tissue sarcomas	8587, 8710-8713, 8806, 8831-8833, 8836, 8840-8842, 8850-8858, 8860-8862, 8870, 8880, 8881, 8890-8898, 8921, 8982, 8990, 9040-9044, 9120-9125, 9130-9133, 9135, 9136, 9141, 9142, 9161, 9170-9175, 9231, 9251, 9252, 9373, 9581	
	8830	C00.0-C39.9, C44.0-C76.8, C80.9
	8963	C00.0-C63.9, C65.9- C69.9, C73.9-C76.8, C80.9
	9180, 9210, 9220, 9240	C49.0-C49.9
	9260	C00.0-C39.9, C47.0-C75.9
	9364	C00.0-C39.9, C47.0- C63.9, C65.9-C69.9, C73.9-C76.8, C80.9
	9365	C00.0-C39.9, C47.0- C63.9, C65.9-C76.8, C80.9
e. Unspecified soft tissue sarcomas	8800-8805	C00.0-C39.9, C44.0-C76.8
<b>X. Germ cell tumors, trophoblastic tumors, and neoplasms of gonads</b>		
a. Intracranial and intraspinal germ cell tumors	9060-9065, 9070-9072, 9080-9085, 9100, 9101 <sup>b</sup>	C70.0-C72.9, C75.1-C75.3
b. Malignant extracranial and extragonadal germ cell tumors	9060-9065, 9070-9072, 9080-9085, 9100-9105	C00.0-C55.9, C57.0- C61.9, C63.0-C69.9, C73.9-C75.0, C75.4- C76.8, C80.9
c. Malignant gonadal germ cell tumors	9060-9065, 9070-9073, 9080-9085, 9090, 9091, 9100, 9101	C56.9, C62.0-C62.9
d. Gonadal carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8143, 8190-8201, 8210, 8211, 8221-8241, 8244-8246, 8260-8263, 8290, 8310, 8313, 8320, 8323, 8380-8384, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8573, 9000, 9014, 9015	C56.9, C62.0-C62.9
	8441-8444, 8450, 8451, 8460-8473	
e. Other and unspecified malignant gonadal tumors	8590-8671 8000-8005	C56.9, C62.0-C62.9

<sup>a</sup> International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

<sup>b</sup> Tumors with nonmalignant behavior are included for all morphology codes on the line. CNS: central nervous system.

Table A.6 - continued

International Classification of Childhood Cancer (ICCC)<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>XI. Other malignant epithelial neoplasms and malignant melanomas</b>		
a. Adrenocortical carcinomas	8370-8375	
b. Thyroid carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8190, 8200, 8201, 8211, 8230, 8231, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8430, 8440, 8480, 8481, 8510, 8560-8573	C73.9
c. Nasopharyngeal carcinomas	8330-8337, 8340-8347, 8350	
d. Malignant melanomas	8010-8041, 8050-8075, 8082, 8083, 8120-8122, 8130-8141, 8190, 8200, 8201, 8211, 8230, 8231, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8430, 8440, 8480, 8481, 8500-8576	C11.0-C11.9
e. Skin carcinomas	8720-8780, 8790	
f. Other and unspecified carcinomas	8010-8041, 8050-8075, 8078, 8082, 8090-8110, 8140, 8143, 8147, 8190, 8200, 8240, 8246, 8247, 8260, 8310, 8320, 8323, 8390-8420, 8430, 8480, 8542, 8560, 8570-8573, 8940, 8941	C44.0-C44.9
	8010-8084, 8120-8157, 8190-8264, 8290, 8310, 8313-8315, 8320-8325, 8360, 8380-8384, 8430-8440, 8452-8454, 8480-8586, 8588-8589, 8940, 8941, 8983, 9000, 9010-9016, 9020, 9030	C00.0-C10.9, C12.9-C21.8, C23.9-C39.9, C48.0-C48.8, C50.0-C55.9, C57.0-C61.9, C63.0-C63.9, C65.9-C72.9, C75.0-C76.8, C80.9
<b>XII. Other and unspecified malignant neoplasms</b>		
a. Other specified malignant tumors	8930-8936, 8950, 8951, 8971-8981, 9050-9055, 9110	
	9363	C00.0-C39.9, C47.0-C75.9
b. Other unspecified malignant tumors	8000-8005	C00.0-C21.8, C23.9-C39.9, C42.0-C55.9, C57.0-C61.9, C63.0-C63.9, C65.9-C69.9, C73.9-C75.0, C75.4-C80.9

<sup>a</sup> International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005; Vol 103, No. 7, pg 1457-1467.

<sup>b</sup> Tumors with nonmalignant behavior are included for all morphology codes on the line. CNS: central nervous system.

Table A.7

Adapted Classification Scheme for Tumors of Adolescents and Young Adults<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>1. Leukemias</b>		
1.1 Acute lymphoid leukemia	9826-9827, 9835-9837	
1.2 Acute myeloid leukemia	9840, 9861, 9866-9867, 9871-9874, 9891, 9895-9897, 9910, 9920	
1.3 Chronic myeloid leukemia	9863, 9875-9876	
1.4 Other and unspecified leukemia	9742, 9800-9801, 9805, 9820, 9823, 9831-9834, 9860, 9870, 9930-9931, 9940, 9945-9946, 9948, 9963-9964	
<b>2. Lymphomas</b>		
2.1 Non-Hodgkin lymphoma	9590-9591, 9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714, 9716-9719, 9727-9729	
2.2 Hodgkin lymphoma	9650-9655, 9659, 9661-9665, 9667	
<b>3. CNS and Other Intracranial and Intraspinal Neoplasms</b>		
<b>3.1 Astrocytoma</b>		
3.1.1 Specified low-grade astrocytic tumors	9410-9411, 9420-9421, 9424 9380	C72.3
3.1.2 Glioblastoma and anaplastic astrocytoma	9401, 9440-9442	
3.1.3 Astrocytoma, NOS	9400	
3.2 Other glioma	9380	C00.0-C72.2, C72.4-C80.9
<b>3.3 Ependymoma</b>		
3.4 Medulloblastoma and other PNET	9391-9394	
<b>3.4.1 Medulloblastoma</b>		
3.4.2 Supratentorial PNET	9470-9474	C71.6
<b>3.5 Other specified intracranial intraspinal neoplasms</b>		
	9350-9351, 9360-9362, 9390, 9480, 9530-9535, 9537-9539, 9541, 9550, 9562, 9570 9161, 9361-9362, 9390, 9530-9531, 9535, 9538, 9540, 9560, 9571 9532, 9534, 9537, 9539 9360 9480, 9539 9480, 9533 9350 9480 9539	C00.0-C69.9, C73.0-C75.0, C75.4-C80.9 C70.0-C72.9, C75.1-C75.3 C70.0 C75.3 C71.1 C71.3 C71.9 C71.4, C71.7 C70.9
3.6 Unspecified intracranial and intraspinal neoplasms	8000-8005	C70.0-C72.9, C75.1-C75.3
<b>4. Osseous &amp; Chondromatous Neoplasms</b>		
4.1 Osteosarcoma	9180-9187, 9192-9194	
4.2 Chondrosarcoma	9220-9221, 9230-9231, 9240, 9242-9243	
4.3 Ewing tumor	9260, 9364-9365	
4.4 Other specified and unspecified bone tumors	8812, 9250, 9261, 9370-9372 8000-8005, 8800-8803, 8805-8806, 9200	C40.0-C41.9
<b>5. Soft Tissue Sarcomas</b>		
5.1 Fibromatous neoplasms	8810-8811, 8813-8815, 8820-8824, 8830, 8832-8833, 8835-8836, 9252	
<b>5.2 Rhabdomyosarcoma</b>		
<b>5.3 Other specified soft tissue sarcoma</b>		
<b>5.3.1 Specified soft tissue sarcoma</b>		
5.3.1.1 Specified (excluding Kaposi sarcoma)	8804, 8825, 8840-8897, 8982-8983, 8990, 9040-9044, 9120-9150, 9170, 9251, 9561, 9580-9581, 9970 9540, 9560, 9571	C00.0-C69.9, C73.0-C75.0, C75.4-C80.9
5.3.1.2 Kaposi sarcoma	9140	
5.3.2 Unspecified soft tissue sarcoma	8800-8803, 8805-8806	C00.0-C39.9, C42.0-C80.9

<sup>a</sup> Adapted from: RD Barr, EJ Holowaty, JM Birch. Classification Scheme for tumors diagnosed in adolescents and young adults. Cancer. 106:7; 1425-1430. (Restricted to malignant tumors and updated based on ICD-0-3 definitions).  
CNS: central nervous system.

Table A.7 - continued

Adapted Classification Scheme for Tumors of Adolescents and Young Adults<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>6. Germ Cell and Trophoblastic Neoplasms</b>		
6.1 Germ cell and trophoblastic neoplasms of gonads	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9105	C56.9, C62.0-C62.9
6.2 Germ cell and trophoblastic neoplasms of nongonadal sites		
6.2.1 Intracranial sites	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9105	C70.0-C72.9, C75.1, C75.3
6.2.2 Other nongonadal sites	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9104-9105	C00.0-C56.8, C57.0-C61.9, C63.0-C69.9, C73.0-C75.0, C75.2, C75.4-C80.9
<b>7. Melanoma and Skin Carcinomas</b>		
7.1 Melanoma	8720-8723, 8726, 8728, 8730, 8740-8746, 8761, 8770-8774, 8780	
7.2 Skin carcinomas	8010-8589	C44.0-C44.9
<b>8. Carcinomas</b>		
8.1 Thyroid carcinoma	8010-8589	C73.9
8.2 Other carcinoma of head and neck		
8.2.1 Nasopharyngeal carcinoma	8010-8589	C11.0-C11.9
8.2.2 Other sites in lip, oral cavity and pharynx	8010-8589	C00.0-C10.9, C12.0-C14.8
8.2.3 Nasal cavity, middle ear, sinuses, larynx, other ill-defined head/neck	8010-8589	C30.0-C32.9, C76.0
8.3 Carcinoma of trachea, bronchus and lung	8010-8589	C33.0-C34.9
8.4 Carcinoma of breast	8010-8589	C50.0-C50.9
8.5 Carcinoma of genitourinary tract		
8.5.1 Carcinoma of kidney	8010-8589	C64.9
8.5.2 Carcinoma of bladder	8010-8589	C67.0-C67.9
8.5.3 Carcinoma of gonads	8590-8593 8010-8589	C56.9, C62.0-C62.9
8.5.4 Carcinoma of cervix and uterus	8010-8589	C53.0-C55.9
8.5.5 Carcinoma of other and ill-defined sites, genitourinary tract	8010-8589  8473	C51.0-C52.9, C57.0-C57.9, C60.0-C61.9, C63.0-C63.9, C65.9, C66.9, C68.0-C68.9 C57.7
8.6 Carcinoma of gastrointestinal tract		
8.6.1 Carcinoma of colon and rectum	8010-8589	C18.0-C21.8
8.6.2 Carcinoma of stomach	8010-8589	C16.0-C16.9
8.6.3 Carcinoma of liver and intrahepatic bile ducts	8010-8589	C22.0-C22.1
8.6.4 Carcinoma of pancreas	8010-8589 8473	C25.0-C25.9 C25.0-C25.1, C25.8-C25.9
8.6.5 Carcinoma of other and ill-defined sites, gastrointestinal tract	8010-8589	C15.0-C15.9, C17.0-C17.9, C23.0-C24.9, C26.0-C26.9
8.7 Carcinoma of other and ill-defined sites, NOS		
8.7.1 Adrenocortical carcinoma	8010-8589	C74.0-C74.9
8.7.2 Carcinoma of other and ill-defined sites, NOS	8010-8589  8442, 9010,	C14.9, C21.9, C22.2-C22.9, C27.0-C29.9, C35.0-C43.9, C45.0-C49.9, C56.0-C56.8, C58.0-C59.9, C64.0-C64.8, C65.0-C65.8, C66.0-C66.8, C69.0-C73.8, C75.0-C75.9, C76.1-C80.9 C80.9

<sup>a</sup> Adapted from: RD Barr, EJ Holowaty, JM Birch. Classification Scheme for tumors diagnosed in adolescents and young adults. Cancer. 106:7; 1425-1430. (Restricted to malignant tumors and updated based on ICD-0-3 definitions).

Table A.7 - continued

Adapted Classification Scheme for Tumors of Adolescents and Young Adults<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>9. Miscellaneous specified neoplasms, NOS</b>		
9.1 Other pediatric and embryonal tumors, NOS		
9.1.1 Wilms tumor	8959-8960	
9.1.2 Neuroblastoma	9490,9500	
9.1.3 Other pediatric and embryonal tumors, NOS	8963-8964, 8970-8973, 8981, 9363, 9501-9523	
9.2 Other specified and embryonal tumors, NOS		
9.2.1 Paraganglioma and glomus tumors	8680-8711	
9.2.2 Other specified gonadal tumors	8670, 9013-9015, 9054	C56.9
	8600-8650,9000	
9.2.3 Myeloma, mast cell, miscellaneous lymphoreticular neoplasms, NOS	9731-9741, 9743-9764, 9766, 9769, 9960	
9.2.4 Other specified neoplasms, NOS <sup>b</sup>	8930-8951, 8980, 9020, 9050-9053, 9110, 9160, 9270-9330, 9950, 9962, 9980, 9982	
	9961, 9975, 9989	C42.1
	9161	C00.0-C69.6, C73.0-C75.0, C75.4-C80.9
<b>10. Unspecified Malignant Neoplasms</b>	8000-8005	C00.0-C39.9, C42.0-C69.9, C73.0-C75.0, C75.2, C75.4-C80.9

<sup>a</sup> Adapted from: RD Barr, EJ Holowaty, JM Birch. Classification Scheme for tumors diagnosed in adolescents and young adults. Cancer. 106:7; 1425-1430. (Restricted to malignant tumors and updated based on ICD-O-3 definitions).

<sup>b</sup> Myeloproliferative disorders and myelodysplastic syndromes were first reported effective January 1, 2001 with the implementation of ICD-O 3.



Table A.8

SEER Cause of Death Recode 1969+ (9/17/2004) Definition

Cancer Causes of Death	ICD-9 (1979-1998) #	ICD-10 (1999+) #
<b>All Malignant Cancers</b>	140-208, 238.6	C00-C97
<b>Oral Cavity and Pharynx</b>		
Lip	140	C00
Tongue	141	C01-C02
Salivary Gland	142	C07-C08
Floor of Mouth	144	C04
Gum and Other Mouth	143, 145	C03, C05-C06
Nasopharynx	147	C11
Tonsil	146.0-146.2	C09
Oropharynx	146.3-146.9	C10
Hypopharynx	148	C12-C13
Other Oral Cavity and Pharynx	149	C14
<b>Digestive System</b>		
Esophagus	150	C15
Stomach	151	C16
Small Intestine	152	C17
Colon and Rectum		
Colon excluding Rectum	153, 159.0	C18, C26.0
Rectum and Rectosigmoid Junction	154.0-154.1	C19-C20
Anus, Anal Canal and Anorectum	154.2-154.3, 154.8	C21
Liver and Intrahepatic Bile Duct		
Liver	155.0, 155.2	C22.0, C22.2-C22.4, C22.7, C22.9
Intrahepatic Bile Duct	155.1	C22.1
Gallbladder	156.0	C23
Other Biliary	156.1-156.2, 156.8-156.9	C24
Pancreas	157	C25
Retroperitoneum	158.0	C48.0
Peritoneum, Omentum and Mesentery	158.8-158.9	C45.1 <sup>+</sup> , C48.1-C48.2
Other Digestive Organs	159.8-159.9	C26.8-C26.9, C48.8
<b>Respiratory System</b>		
Nose, Nasal Cavity and Middle Ear	160	C30-C31
Larynx	161	C32
Lung and Bronchus	162.2-162.5, 162.8-162.9	C34
Pleura	163	C38.4, C45.0 <sup>+</sup>
Trachea, Mediastinum and Other Respiratory Organs	162.0, 164.2-164.3, 164.8-164.9, 165	C33, C38.1-C38.3, C38.8, C39
<b>Bones and Joints</b>	170	C40-C41
<b>Soft Tissue including Heart</b> §	164.1, 171	C47, C49, C38.0, C45.2 <sup>+</sup>
<b>Skin excluding Basal and Squamous</b>		
Melanoma of the Skin	172	C43
Other Non-Epithelial Skin	173	C44, C46 <sup>+</sup>
<b>Breast</b>	174-175	C50
<b>Female Genital System</b>		
Cervix Uteri	180	C53
Corpus and Uterus, NOS		
Corpus Uteri	182	C54
Uterus, NOS	179	C55
Ovary	183.0	C56
Vagina	184.0	C52
Vulva	184.1-184.4	C51
Other Female Genital Organs	181, 183.2-183.5, 183.8-183.9, 184.8-184.9	C57-C58
<b>Male Genital System</b>		
Prostate	185	C61
Testis	186	C62
Penis	187.1-187.4	C60
Other Male Genital Organs	187.5-187.9	C63
<b>Urinary System</b>		
Urinary Bladder	188	C67
Kidney and Renal Pelvis	189.0-189.1	C64-C65
Ureter	189.2	C66
Other Urinary Organs	189.3-189.4, 189.8-189.9	C68
<b>Eye and Orbit</b>	190	C69
<b>Brain and Other Nervous System</b>	191, 192	C70, C71, C72
<b>Endocrine System</b>		
Thyroid	193	C73
Other Endocrine including Thymus <sup>§</sup>	164.0, 194	C37, C74-C75
<b>Lymphoma</b>		
Hodgkin Lymphoma	201	C81
Non-Hodgkin Lymphoma	200, 202.0-202.2, 202.8-202.9	C82-C85, C96.3

Table A.8 - continued

SEER Cause of Death Recode 1969+ (9/17/2004) Definition

Cancer Causes of Death	ICD-9 (1979-1998) #	ICD-10 (1999+) #
<b>Myeloma</b>	203.0, 238.6	C90.0, C90.2
<b>Leukemia</b>		
Lymphocytic Leukemia		
Acute Lymphocytic Leukemia	204.0	C91.0
Chronic Lymphocytic Leukemia	204.1	C91.1
Other Lymphocytic Leukemia	202.4, 204.2, 204.8-204.9	C91.2-C91.4, C91.7, C91.9
Myeloid and Monocytic Leukemia		
Acute Myeloid Leukemia	205.0, 207.0, 207.2	C92.0, C92.4-C92.5, C94.0, C94.2
Acute Monocytic Leukemia	206.0	C93.0
Chronic Myeloid Leukemia	205.1	C92.1
Other Myeloid/Monocytic Leukemia	205.2-205.3, 205.8-205.9, 206.1-206.2, 206.8-206.9	C92.2-C92.3, C92.7, C92.9, C93.1-C93.2, C93.7, C93.9
Other Leukemia		
Other Acute Leukemia	208.0	C94.4, C94.5, C95.0
Aleukemic, Subleukemic and NOS	203.1, 207.1, 207.8, 208.1-208.2, 208.8-208.9	C90.1, C91.5, C94.1, C94.3, C94.7, C95.1, C95.2, C95.7, C95.9
<b>Mesothelioma (ICD-10 only) *</b>	N/A	C45*
<b>Kaposi Sarcoma (ICD-10 only) *</b>	N/A	C46*
<b>Miscellaneous</b>	159.1, 195-199, 202.3, 202.5-202.6, 203.8	C26.1, C45.7*, C45.9*, C76-C80, C88, C96.0-C96.2, C96.7, C96.9, C97

Non-Cancer Causes of Death	ICD-8 (1968-1978) #	ICD-9 (1979-1998) #	ICD-10 (1999+) #
In situ, benign or unknown behavior neoplasm	208-239	210-237, 238.0-238.5, 238.7-238.9, 239	D00-D48
Tuberculosis	010-018	010-018	A15-A19
Syphilis	090-097	090-097	A50-A53
Human Immunodeficiency Virus (1987+)	N/A	042-044	B20-B24
Septicemia	038	038	A40-A41
Other Infectious and Parasitic Diseases	001-009, 020-037, 039-043, 045-065, 067-076, 078-089, 098-130.1, 130.3-136	001-009, 020-037, 039-041, 045-088, 098-139	A00-A09, A20-A33, A35-A39, A42-A49, A54-B19, B25-B99
Diabetes Mellitus	250	250	E10-E14
Alzheimers (ICD-9 and 10 only)	N/A	331.0	G30
Diseases of Heart	390-398, 402, 404, 410-429	390-398, 402, 404, 410-429	I00-I09, I11, I13, I20-I51
Hypertension without Heart Disease	400-401, 403	401, 403	I10, I12
Cerebrovascular Diseases	430-438	430-438	I60-I69
Atherosclerosis	440	440	I70
Aortic Aneurysm and Dissection	441	441	I71
Other Diseases of Arteries, Arterioles, Capillaries	442-448	442-448	I72-I78
Pneumonia and Influenza	470-474, 480-486	480-487	J10-J18
Chronic Obstructive Pulmonary Disease and Allied Cond	490-493, 519.3	490-496	J40-J47
Stomach and Duodenal Ulcers	531-533	531-533	K25-K28
Chronic Liver Disease and Cirrhosis	571	571	K70, K73-K74
Nephritis, Nephrotic Syndrome and Nephrosis	580-584, 593.0-593.3, 593.5	580-589	N00-N07, N17-N19, N25-N27
Complications of Pregnancy, Childbirth, Puerperium	630-678	630-676	A34, O00-O95, O98-O99
Congenital Anomalies	740-759	740-759	Q00-Q99
Certain Conditions Originating in Perinatal Period	760-779	760-779	P00-P96
Symptoms, Signs and Ill-Defined Conditions	780-796	780-799	R00-R99
Accidents and Adverse Effects	800-949*	800-949*	V01-X59, Y85-Y86
Suicide and Self-Inflicted Injury	950-959*	950-959*	U03, X60-X84, Y87.0
Homicide and Legal Intervention	960-978*	960-978*	U01-U02, X85-Y09, Y35, Y87.1, Y89.0

# All ICD codes are tested for validity prior to generating this variable. Those deemed invalid are classified as Unknown/missing/invalid COD. Those deemed valid but not meeting the definition of any above grouping are classified as Other Cause of Death.

+ This variable can be created with or without Mesothelioma (C45) and Kaposi Sarcoma (C46) as separate groupings. The table above documents both possibilities. Note this is only possible with ICD-10.

\$ ICD-8 code 192.5 is coded to Other Endocrine including Thymus for age at death less than 20 years and Soft Tissue including Heart for age at death 20+ years.

\* External causes of injury and poisoning.

Table A.9

## Annual Populations Averaged Over 2003-2007

## By State, Race/Ethnicity and Sex

State	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Total U.S.	295,663,379	145,511,330	150,152,049	239,542,664	118,536,211	121,006,453	38,906,253	18,555,830	20,350,423
CHSDA counties <sup>a</sup>	-	-	-	-	-	-	-	-	-
Non-CHSDA counties <sup>a</sup>	-	-	-	-	-	-	-	-	-
Alabama	4,548,243	2,201,936	2,346,307	3,272,792	1,606,207	1,666,585	1,205,113	561,059	644,054
Alaska	667,488	345,700	321,788	486,926	255,193	231,733	31,925	16,807	15,118
Arizona	5,965,780	2,984,621	2,981,158	5,248,832	2,629,000	2,619,832	246,292	127,510	118,782
Arkansas	2,772,355	1,356,991	1,415,364	2,273,654	1,120,245	1,153,409	443,709	210,010	233,699
California	35,864,262	17,911,591	17,952,671	28,083,802	14,124,017	13,959,785	2,590,806	1,273,403	1,317,403
Colorado	4,681,073	2,358,659	2,322,415	4,263,440	2,148,382	2,115,058	215,426	112,098	103,328
Connecticut	3,479,952	1,693,428	1,786,524	2,979,867	1,451,603	1,528,264	368,116	176,121	191,995
Delaware	838,156	406,485	431,671	635,431	310,242	325,189	175,406	82,789	92,617
Dist. of Columbia	582,446	274,907	307,538	221,851	111,995	109,856	338,231	152,782	185,449
Florida	17,634,449	8,647,995	8,986,453	14,313,439	7,045,650	7,267,789	2,810,772	1,356,897	1,453,874
Georgia	9,115,927	4,482,160	4,633,767	6,096,149	3,050,476	3,045,673	2,725,053	1,284,607	1,440,446
Hawaii	1,261,391	634,843	626,548	309,460	166,242	143,218	42,097	24,012	18,086
Idaho	1,426,959	717,463	709,496	1,370,690	689,248	681,442	13,678	7,495	6,183
Illinois	12,713,262	6,252,121	6,461,141	10,164,906	5,040,900	5,124,006	1,953,910	917,579	1,036,331
Indiana	6,253,637	3,076,909	3,176,728	5,569,333	2,745,206	2,824,128	576,837	277,578	299,259
Iowa	2,955,710	1,456,352	1,499,358	2,813,708	1,384,017	1,429,691	82,678	42,886	39,792
Kansas	2,745,798	1,359,405	1,386,393	2,472,546	1,222,386	1,250,160	177,784	89,529	88,256
Kentucky	4,169,639	2,040,327	2,129,312	3,788,042	1,853,589	1,934,454	328,133	160,340	167,793
Louisiana	4,386,989	2,128,087	2,258,903	2,867,543	1,408,295	1,459,248	1,424,000	671,766	752,234
Maine	1,310,086	639,039	671,047	1,275,519	621,580	653,940	13,840	7,810	6,030
Maryland	5,566,141	2,690,263	2,875,878	3,614,109	1,774,017	1,840,092	1,649,089	769,705	879,385
Massachusetts	6,444,907	3,120,164	3,324,743	5,645,115	2,729,292	2,915,823	463,981	225,479	238,502
Michigan	10,076,619	4,957,004	5,119,615	8,274,531	4,094,042	4,180,490	1,486,383	704,687	781,696
Minnesota	5,111,021	2,541,046	2,569,976	4,621,625	2,292,295	2,329,330	239,232	124,484	114,748
Mississippi	2,888,145	1,398,200	1,489,945	1,780,097	876,005	904,092	1,069,327	503,341	565,987

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

<sup>a</sup> American Indian/Alaska Native statistics are reported based on the CHSDA (Contract Health Service Delivery Area) counties. All other race/ethnicities are not shown for these areas.

Table A.9 - continued

## Annual Populations Averaged Over 2003-2007

## By State, Race/Ethnicity and Sex

State	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	5,788,759	2,823,233	2,965,526	4,980,717	2,440,658	2,540,059	684,425	321,837	362,588
Montana	935,933	467,819	468,114	858,506	429,228	429,278	6,912	3,891	3,021
Nebraska	1,750,929	866,583	884,346	1,618,871	800,953	817,918	82,549	41,204	41,345
Nevada	2,399,583	1,220,699	1,178,884	1,999,817	1,026,385	973,432	198,826	99,979	98,847
New Hampshire	1,298,987	640,275	658,712	1,254,092	617,145	636,947	16,366	8,869	7,497
New Jersey	8,627,667	4,210,449	4,417,217	6,678,583	3,270,079	3,408,503	1,281,717	608,659	673,058
New Mexico	1,914,475	944,015	970,461	1,631,032	805,165	825,868	57,169	29,845	27,324
New York	19,332,942	9,359,681	9,973,261	14,404,962	7,028,627	7,376,334	3,460,185	1,604,795	1,855,390
North Carolina	8,696,171	4,253,397	4,442,774	6,500,021	3,215,655	3,284,366	1,913,904	899,192	1,014,713
North Dakota	635,693	318,653	317,040	588,260	294,671	293,588	7,205	4,179	3,026
Ohio	11,452,477	5,578,082	5,874,395	9,822,060	4,799,132	5,022,928	1,414,056	672,047	742,009
Oklahoma	3,542,892	1,746,848	1,796,044	2,859,860	1,410,144	1,449,716	296,734	146,979	149,754
Oregon	3,633,319	1,804,056	1,829,263	3,342,318	1,659,757	1,682,562	82,380	43,407	38,973
Pennsylvania	12,362,633	6,001,499	6,361,134	10,688,221	5,198,990	5,489,231	1,353,323	643,639	709,684
Rhode Island	1,063,793	513,770	550,023	953,736	459,557	494,179	71,570	35,591	35,979
South Carolina	4,263,863	2,074,329	2,189,534	2,942,288	1,452,545	1,489,744	1,249,998	586,854	663,143
South Dakota	780,473	388,684	391,788	695,915	346,245	349,670	9,650	5,627	4,023
Tennessee	5,991,426	2,920,821	3,070,605	4,869,296	2,390,143	2,479,153	1,020,270	480,319	539,951
Texas	22,901,177	11,407,249	11,493,928	19,160,456	9,585,003	9,575,453	2,752,628	1,329,650	1,422,978
Utah	2,515,131	1,266,751	1,248,380	2,370,933	1,193,917	1,177,016	34,022	18,645	15,377
Vermont	619,072	304,406	314,666	603,514	296,622	306,891	5,715	3,152	2,563
Virginia	7,538,367	3,696,774	3,841,593	5,609,603	2,773,292	2,836,311	1,532,149	731,693	800,456
Washington	6,270,893	3,122,777	3,148,116	5,425,303	2,705,819	2,719,484	263,974	139,865	124,108
West Virginia	1,805,243	882,482	922,761	1,723,350	840,799	882,551	65,433	33,421	32,012
Wisconsin	5,537,871	2,748,482	2,789,389	5,015,791	2,492,208	2,523,584	350,088	170,276	179,813
Wyoming	508,741	257,175	251,566	484,516	244,806	239,710	6,810	3,755	3,056

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

Table A.9 - continued

## Annual Populations Averaged Over 2003-2007

## By State, Race/Ethnicity and Sex

State	Asian/Pacific Islander			American Indian/Alaska Native			Hispanic <sup>a</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Total U.S.	13,973,317	6,801,559	7,171,758	3,241,145	1,617,730	1,623,414	42,568,731	21,969,068	20,599,663
CHSDA counties <sup>b</sup>	-	-	-	1,810,163	893,407	916,756	-	-	-
Non-CHSDA counties <sup>b</sup>	-	-	-	1,430,839	724,254	706,585	-	-	-
Alabama	44,569	21,696	22,873	25,769	12,974	12,795	109,603	60,807	48,796
Alaska	36,899	17,532	19,367	111,737	56,168	55,570	37,052	19,503	17,549
Arizona	159,138	75,876	83,262	311,517	152,235	159,282	1,695,171	878,864	816,307
Arkansas	31,528	15,118	16,410	23,464	11,618	11,846	130,783	71,812	58,971
California	4,689,056	2,261,799	2,427,257	500,598	252,373	248,225	12,610,008	6,469,121	6,140,888
Colorado	138,157	65,592	72,565	64,050	32,587	31,463	901,500	472,772	428,728
Connecticut	117,327	58,186	59,141	14,642	7,519	7,124	381,126	192,018	189,109
Delaware	23,560	11,588	11,972	3,760	1,866	1,894	50,707	27,000	23,707
Dist. of Columbia	19,756	8,882	10,874	2,608	1,248	1,360	48,864	25,515	23,349
Florida	420,533	198,751	221,783	89,704	46,697	43,007	3,430,959	1,731,481	1,699,478
Georgia	261,226	129,251	131,975	33,499	17,827	15,673	641,834	367,385	274,449
Hawaii	902,976	440,996	461,981	6,857	3,594	3,263	95,756	49,791	45,965
Idaho	19,208	9,000	10,209	23,383	11,721	11,662	132,247	70,954	61,293
Illinois	546,052	269,036	277,016	48,393	24,605	23,788	1,804,954	954,867	850,087
Indiana	86,245	43,122	43,123	21,222	11,003	10,219	286,224	155,408	130,816
Iowa	47,037	23,326	23,711	12,287	6,123	6,165	109,809	59,311	50,498
Kansas	63,507	31,365	32,142	31,961	16,125	15,836	228,770	122,076	106,693
Kentucky	42,917	20,973	21,944	10,547	5,425	5,121	85,513	48,639	36,874
Louisiana	66,390	33,400	32,990	29,056	14,625	14,431	131,040	67,657	63,383
Maine	12,163	5,489	6,675	8,564	4,161	4,402	14,356	7,213	7,143
Maryland	280,938	135,674	145,263	22,005	10,867	11,138	320,450	167,653	152,797
Massachusetts	313,211	154,151	159,060	22,600	11,242	11,358	507,676	253,275	254,401
Michigan	241,434	121,379	120,055	74,270	36,896	37,374	387,733	204,632	183,101
Minnesota	183,183	90,894	92,289	66,981	33,372	33,608	190,609	103,223	87,386
Mississippi	24,528	11,879	12,649	14,193	6,976	7,217	54,873	31,106	23,767

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

<sup>a</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

<sup>b</sup> American Indian/Alaska Native statistics are reported based on the CHSDA (Contract Health Service Delivery Area) counties. All other race/ethnicities are not shown for these areas.

Table A.9 - continued

## Annual Populations Averaged Over 2003-2007

## By State, Race/Ethnicity and Sex

State	Asian/Pacific Islander			American Indian/Alaska Native			Hispanic <sup>a</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	89,621	43,593	46,029	33,995	17,145	16,850	162,641	85,618	77,023
Montana	6,878	3,009	3,870	63,637	31,691	31,946	24,945	12,691	12,254
Nebraska	30,735	15,168	15,567	18,774	9,258	9,516	124,395	67,368	57,027
Nevada	161,420	74,593	86,827	39,520	19,742	19,778	564,795	299,288	265,507
New Hampshire	24,388	12,119	12,269	4,141	2,142	1,999	29,992	15,456	14,535
New Jersey	634,283	314,687	319,596	33,084	17,024	16,060	1,313,607	668,363	645,245
New Mexico	30,499	14,198	16,301	195,775	94,808	100,967	839,781	418,273	421,508
New York	1,340,586	663,477	677,109	127,209	62,781	64,427	3,109,439	1,536,052	1,573,387
North Carolina	168,161	82,195	85,966	114,085	56,355	57,730	552,015	315,892	236,123
North Dakota	5,128	2,578	2,550	35,100	17,225	17,875	11,185	5,963	5,222
Ohio	182,094	89,678	92,416	34,267	17,226	17,042	270,191	140,388	129,804
Oklahoma	65,544	32,297	33,247	320,754	157,427	163,326	239,941	128,708	111,233
Oregon	147,724	70,469	77,255	60,896	30,423	30,473	359,693	196,122	163,570
Pennsylvania	293,156	145,125	148,032	27,933	13,746	14,187	510,643	262,544	248,100
Rhode Island	31,109	15,054	16,055	7,377	3,567	3,810	112,765	56,109	56,655
South Carolina	53,481	25,678	27,803	18,097	9,253	8,844	144,985	82,707	62,279
South Dakota	6,304	3,049	3,255	68,603	33,763	34,840	17,754	9,456	8,299
Tennessee	81,928	39,914	42,014	19,933	10,445	9,488	186,570	106,225	80,345
Texas	808,930	401,354	407,576	179,163	91,242	87,921	8,002,653	4,095,739	3,906,914
Utah	73,005	35,579	37,426	37,171	18,610	18,561	272,029	145,327	126,703
Vermont	6,935	3,179	3,756	2,907	1,452	1,455	7,529	3,784	3,744
Virginia	367,788	177,190	190,598	28,827	14,599	14,228	457,209	243,562	213,647
Washington	460,086	216,572	243,514	121,530	60,521	61,009	560,213	297,640	262,573
West Virginia	12,462	6,212	6,250	3,998	2,050	1,948	17,265	8,899	8,365
Wisconsin	114,743	57,420	57,323	57,248	28,579	28,669	251,760	135,482	116,278
Wyoming	4,104	1,874	2,230	13,311	6,741	6,570	36,198	18,862	17,336

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

<sup>a</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Table A.10

## Annual Populations Averaged Over 2003-2007

## By SEER Registry, Race/Ethnicity and Sex

Area	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Atlanta & Rural GA	3,422,438	1,687,827	1,734,611	1,927,860	980,380	947,480	1,298,970	608,689	690,281
Metropolitan Atlanta	3,299,664	1,628,827	1,670,837	1,857,601	945,696	911,905	1,247,182	584,733	662,450
Rural Georgia	122,774	59,001	63,774	70,259	34,684	35,575	51,788	23,956	27,832
California	35,864,262	17,911,591	17,952,671	28,083,802	14,124,017	13,959,785	2,590,806	1,273,403	1,317,403
Greater Bay Area	6,578,917	3,299,402	3,279,515	4,491,006	2,280,685	2,210,321	486,887	237,438	249,448
San Francisco-Oakland, SMSA	4,171,712	2,070,222	2,101,490	2,757,257	1,392,644	1,364,612	411,396	196,080	215,316
San Jose-Monterey	2,407,205	1,229,180	1,178,025	1,733,749	888,041	845,708	75,491	41,358	34,132
Los Angeles	9,824,594	4,863,300	4,961,293	7,375,901	3,701,460	3,674,441	991,430	463,568	527,862
Greater California	19,460,751	9,748,889	9,711,862	16,216,896	8,141,872	8,075,024	1,112,490	572,397	540,093
Connecticut	3,479,952	1,693,428	1,786,524	2,979,867	1,451,603	1,528,264	368,116	176,121	191,995
Metropolitan Detroit	4,046,923	1,969,024	2,077,899	2,845,095	1,407,242	1,437,853	1,041,779	481,221	560,558
Hawaii	1,261,391	634,843	626,548	309,460	166,242	143,218	42,097	24,012	18,086
Iowa	2,955,710	1,456,352	1,499,358	2,813,708	1,384,017	1,429,691	82,678	42,886	39,792
Kentucky	4,169,639	2,040,327	2,129,312	3,788,042	1,853,589	1,934,454	328,133	160,340	167,793
Louisiana	4,386,989	2,128,087	2,258,903	2,867,543	1,408,295	1,459,248	1,424,000	671,766	752,234
New Jersey	8,627,667	4,210,449	4,417,217	6,678,583	3,270,079	3,408,503	1,281,717	608,659	673,058
New Mexico	1,914,475	944,015	970,461	1,631,032	805,165	825,868	57,169	29,845	27,324
Seattle-Puget Sound	4,288,764	2,136,548	2,152,216	3,576,520	1,786,320	1,790,201	228,524	120,298	108,226
Utah	2,515,131	1,266,751	1,248,380	2,370,933	1,193,917	1,177,016	34,022	18,645	15,377
9 SEER areas <sup>a</sup>	27,933,722	13,800,009	14,133,713	21,141,472	10,532,845	10,608,627	3,512,963	1,673,839	1,839,124
11 SEER areas <sup>a</sup>	40,165,521	19,892,489	20,273,032	30,251,122	15,122,345	15,128,776	4,579,884	2,178,766	2,401,118
13 SEER areas <sup>a</sup>	40,955,783	20,297,190	20,658,593	30,808,307	15,412,222	15,396,085	4,663,597	2,219,529	2,444,068
17 SEER areas <sup>a</sup>	77,600,829	38,424,942	39,175,887	60,359,370	30,086,057	30,273,313	8,809,937	4,232,692	4,577,245

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

<sup>a</sup> The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta. The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles. The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia. The SEER 17 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana and New Jersey.

Table A.10 - continued

## Annual Populations Averaged Over 2003-2007

## By SEER Registry, Race/Ethnicity and Sex

Area	Asian/Pacific Islander			Hispanic <sup>a</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females
Atlanta & Rural GA	180,905	90,957	89,948	345,107	199,029	146,078
Metropolitan Atlanta	180,420	90,711	89,709	342,453	197,493	144,960
Rural Georgia	486	246	239	2,654	1,536	1,118
California	4,689,056	2,261,799	2,427,257	12,610,008	6,469,121	6,140,888
Greater Bay Area	1,540,721	750,239	790,483	1,540,541	808,132	732,409
San Francisco-Oakland, SMSA	969,173	464,071	505,102	811,973	424,225	387,748
San Jose-Monterey	571,549	286,168	285,381	728,568	383,908	344,660
Los Angeles	1,342,421	639,807	702,614	4,591,597	2,318,808	2,272,789
Greater California	1,805,914	871,753	934,161	6,477,870	3,342,180	3,135,690
Connecticut	117,327	58,186	59,141	381,126	192,018	189,109
Metropolitan Detroit	141,588	71,601	69,988	144,673	76,171	68,502
Hawaii	902,976	440,996	461,981	95,756	49,791	45,965
Iowa	47,037	23,326	23,711	109,809	59,311	50,498
Kentucky	42,917	20,973	21,944	85,513	48,639	36,874
Louisiana	66,390	33,400	32,990	131,040	67,657	63,383
New Jersey	634,283	314,687	319,596	1,313,607	668,363	645,245
New Mexico	30,499	14,198	16,301	839,781	418,273	421,508
Seattle-Puget Sound	409,015	192,734	216,282	282,223	150,836	131,386
Utah	73,005	35,579	37,426	272,029	145,327	126,703
9 SEER areas <sup>b</sup>	2,871,041	1,391,400	1,479,641	3,279,824	1,713,444	1,566,380
11 SEER areas <sup>b</sup>	4,785,011	2,317,375	2,467,635	8,599,989	4,416,160	4,183,829
13 SEER areas <sup>b</sup>	4,822,395	2,335,153	2,487,242	8,639,695	4,437,199	4,202,495
17 SEER areas <sup>b</sup>	7,371,899	3,575,966	3,795,933	16,647,725	8,564,039	8,083,686

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

<sup>a</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

<sup>b</sup> The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta. The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles. The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia. The SEER 17 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana and New Jersey.



Table A.10 - continued

## Annual Populations Averaged Over 2003-2007

## American Indian/Alaska Native By SEER Registry, CHSDA County Status and Sex

Area	American Indian/Alaska Native Total U.S.			American Indian/Alaska Native CHSDA			American Indian/Alaska Native Non-CHSDA		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Atlanta & Rural GA	14,703	7,802	6,901	0	0	0	14,703	7,802	6,901
Metropolitan Atlanta	14,461	7,687	6,774	0	0	0	14,461	7,687	6,774
Rural Georgia	242	115	127	0	0	0	242	115	127
Alaska	111,737	56,168	55,570	111,737	56,168	55,570	0	0	0
California	500,598	252,373	248,225	214,984	107,302	107,682	285,614	145,071	140,543
Greater Bay Area	60,304	31,040	29,263	0	0	0	60,304	31,040	29,263
San Francisco- Oakland, SMSA	33,887	17,427	16,460	0	0	0	33,887	17,427	16,460
San Jose-Monterey	26,417	13,613	12,803	0	0	0	26,417	13,613	12,803
Los Angeles	114,842	58,465	56,377	0	0	0	114,842	58,465	56,377
Greater California	325,452	162,867	162,585	214,984	107,302	107,682	110,468	55,566	54,902
Connecticut	14,642	7,519	7,124	14,642	7,519	7,124	0	0	0
Metropolitan Detroit	18,462	8,961	9,501	0	0	0	18,462	8,961	9,501
Hawaii	6,857	3,594	3,263	0	0	0	6,857	3,594	3,263
Iowa	12,287	6,123	6,165	4,084	1,998	2,086	8,204	4,125	4,079
Kentucky	10,547	5,425	5,121	0	0	0	10,547	5,425	5,121
Louisiana	29,056	14,625	14,431	3,111	1,557	1,554	25,945	13,068	12,876
New Jersey	33,084	17,024	16,060	0	0	0	33,084	17,024	16,060
New Mexico	195,775	94,808	100,967	186,520	90,109	96,410	9,255	4,698	4,557
Seattle-Puget Sound	74,704	37,197	37,507	74,558	37,121	37,437	146	75	70
Utah	37,171	18,610	18,561	17,928	8,719	9,209	19,243	9,891	9,352
9 SEER areas <sup>a</sup>	408,246	201,925	206,322	297,732	145,466	152,266	110,514	56,458	54,056
11 SEER areas <sup>a</sup>	549,505	274,003	275,502	297,732	145,466	152,266	251,773	128,536	123,237
13 SEER areas <sup>a</sup>	661,485	330,285	331,199	409,469	201,634	207,835	252,015	128,651	123,364
17 SEER areas <sup>a</sup>	1,059,623	530,227	529,396	627,565	310,492	317,072	432,058	219,734	212,324

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

<sup>a</sup> The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.  
The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.  
The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.  
The SEER 17 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana and New Jersey

Table A.11

Standard Populations, By Age

Age	2000 United States Standard Population (Census P25-1130)
All Ages	274,633,642
Age <1	3,794,901
Ages 1-4	15,191,619
Ages 5-9	19,919,840
Ages 10-14	20,056,779
Ages 15-19	19,819,518
Ages 20-24	18,257,225
Ages 25-29	17,722,067
Ages 30-34	19,511,370
Ages 35-39	22,179,956
Ages 40-44	22,479,229
Ages 45-49	19,805,793
Ages 50-54	17,224,359
Ages 55-59	13,307,234
Ages 60-64	10,654,272
Ages 65-69	9,409,940
Ages 70-74	8,725,574
Ages 75-79	7,414,559
Ages 80-84	4,900,234
Ages 85+	4,259,173

Age	IARC World Standard Million Population
All Ages	1,000,000
Age <1	24,000
Ages 1-4	96,000
Ages 5-9	100,000
Ages 10-14	90,000
Ages 15-19	90,000
Ages 20-24	80,000
Ages 25-29	80,000
Ages 30-34	60,000
Ages 35-39	60,000
Ages 40-44	60,000
Ages 45-49	60,000
Ages 50-54	50,000
Ages 55-59	40,000
Ages 60-64	40,000
Ages 65-69	30,000
Ages 70-74	20,000
Ages 75-79	10,000
Ages 80-84	5,000
Ages 85+	5,000

Source: U.S. Bureau of the Census, Census of Population 2000.

Muir C, Waterhouse J, Mack T, Powell J, Whelan S. Cancer Incidence In Five Continents, Volume V, pg. 792.

Table A.12  
All Cancer Sites (Invasive)

SEER Follow-Up Rates<sup>a</sup> for Cases Diagnosed 1975-2006  
By Registry, Sex, and Age

	Males				Females			
	All Ages	0-19	20-64	65+	All Ages	0-19	20-64	65+
<u>Followed Into 2006</u>								
Registry								
Standard 9 registries	99.18	95.36	98.68	99.63	98.34	94.11	97.34	99.39
San Francisco-Oakland	98.74	95.34	98.03	99.38	97.80	94.48	96.44	99.16
Connecticut	98.52	86.34	97.64	99.34	96.72	82.33	94.69	98.67
Metropolitan Detroit	99.26	96.08	98.81	99.67	98.39	95.85	97.28	99.51
Hawaii	99.07	95.97	98.43	99.57	97.92	94.12	96.85	99.30
Iowa	99.89	98.70	99.79	99.98	99.75	98.21	99.51	99.95
New Mexico	98.96	93.50	98.48	99.41	97.92	92.16	97.13	98.90
Seattle-Puget Sound	99.58	98.63	99.34	99.78	99.18	96.45	98.70	99.73
Utah	99.41	98.53	98.88	99.83	98.80	98.58	97.97	99.74
Metropolitan Atlanta	99.27	95.49	98.98	99.74	99.01	95.04	98.58	99.72
<u>Followed Into 2007</u>								
Registry								
Standard 9 registries	98.94	94.20	98.32	99.50	97.84	92.80	96.58	99.14
San Francisco-Oakland	98.43	94.02	97.62	99.16	97.38	92.89	95.84	98.92
Connecticut	98.35	84.05	97.38	99.28	96.36	79.58	94.14	98.52
Metropolitan Detroit	98.90	94.71	98.32	99.42	97.61	94.28	96.12	99.09
Hawaii	98.77	93.59	97.93	99.46	97.04	92.21	95.64	98.82
Iowa	99.78	97.92	99.55	99.93	99.20	97.57	98.64	99.61
New Mexico	98.61	92.38	97.97	99.19	97.25	90.27	96.20	98.53
Seattle-Puget Sound	99.48	98.63	99.15	99.74	99.01	96.40	98.42	99.67
Utah	99.23	98.53	98.54	99.75	98.37	98.40	97.22	99.65
Metropolitan Atlanta	98.92	93.60	98.49	99.60	98.43	93.27	97.72	99.57

<sup>a</sup> Represents the percentage of first primaries diagnosed 1975-2006 and followed into the specified year.