

### Surgery: All cancers

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Click link below to see detailed listing	All cases	Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)				
		Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%			
<b>All cancers</b>	<b>Both sexes</b>	<b>All cases</b>	<b>12596</b>	<b>10237</b>	<b>2323</b>	<b>36</b>	<b>2119</b>	<b>16.9</b>	<b>549</b>	<b>4.4</b>	<b>1264</b>	<b>10.1</b>	<b>1452</b>	<b>11.6</b>	<b>4014</b>	<b>32.0</b>	<b>3489</b>	<b>27.8</b>	<b>1502</b>	<b>12.0</b>	<b>1829</b>	<b>14.6</b>	<b>2829</b>	<b>22.5</b>	<b>918</b>	<b>7.3</b>	
		<b>Age at baseline</b>	<18	3606	2667	928	11	647	18.0	217	6.0	443	12.3	381	10.6	910	25.3	855	23.8	662	18.4	477	13.3	481	13.4	239	6.6
			18-19	1112	858	253	1	190	17.1	51	4.6	125	11.3	110	9.9	267	24.0	265	23.9	174	15.7	214	19.3	161	14.5	67	6.0
			20-24	2665	2144	516	5	486	18.3	120	4.5	258	9.7	328	12.3	728	27.4	629	23.6	340	12.8	418	15.7	554	20.8	180	6.8
			25-29	2406	2022	378	6	414	17.3	74	3.1	231	9.6	278	11.6	810	33.8	697	29.0	229	9.5	342	14.3	650	27.1	176	7.3
			30-34	1697	1519	170	8	274	16.2	48	2.8	135	8.0	221	13.1	717	42.5	556	32.9	64	3.8	230	13.6	598	35.4	133	7.9
			35+	1110	1027	78	5	108	9.8	39	3.5	72	6.5	134	12.1	582	52.7	487	44.1	33	3.0	148	13.4	385	34.8	123	11.1
		<b>Years since diagnosis</b>	5-9	1932	1495	432	5	397	20.6	62	3.2	196	10.2	283	14.7	615	31.9	467	24.2	206	10.7	225	11.7	373	19.4	170	8.8
			10-14	4649	3707	928	14	826	17.8	191	4.1	472	10.2	492	10.6	1392	30.0	1165	25.1	570	12.3	648	14.0	978	21.1	275	5.9
			15-19	3456	2894	554	8	519	15.1	137	4.0	350	10.2	407	11.8	1118	32.4	982	28.5	398	11.5	616	17.9	831	24.1	236	6.8
			20+	2559	2141	409	9	377	14.8	159	6.2	246	9.6	270	10.6	889	34.9	875	34.3	328	12.9	340	13.3	647	25.4	237	9.3
		<b>Age at diagnosis</b>	<1	882	817	64	1	146	16.6	145	16.5	113	12.8	174	19.8	289	32.8	390	44.3	238	27.0	65	7.4	186	21.1	75	8.5
			1-4	4186	3011	1168	7	615	14.7	212	5.1	506	12.1	369	8.8	950	22.7	903	21.6	826	19.8	735	17.6	526	12.6	255	6.1
			5-9	2777	2145	619	13	600	21.7	87	3.1	311	11.3	234	8.5	711	25.7	600	21.7	297	10.7	408	14.8	500	18.1	194	7.0
			10-14	2531	2210	316	5	488	19.3	56	2.2	196	7.8	328	13.0	952	37.7	762	30.2	80	3.2	319	12.6	788	31.2	205	8.1
			15-20	2220	2054	156	10	270	12.2	49	2.2	138	6.2	347	15.7	1112	50.3	834	37.7	61	2.8	302	13.7	829	37.5	189	8.6
		<b>Treatment</b>	Surgery only	910	910	.	.	450	49.5	66	7.3	97	10.7	104	11.4	116	12.7	139	15.3	43	4.7	20	2.2	292	32.1	95	10.4
			Chemotherapy, no radiation	3091	2274	816	1	106	3.4	128	4.1	216	7.0	330	10.7	853	27.6	698	22.6	471	15.2	373	12.1	871	28.2	117	3.8
			Radiation, no chemotherapy	1514	1480	33	1	728	48.1	59	3.9	136	9.0	133	8.8	586	38.7	599	39.6	40	2.6	128	8.5	263	17.4	244	16.1
			Chemotherapy and radiation	7024	5553	1459	12	831	11.9	296	4.2	815	11.6	883	12.6	2454	35.0	2050	29.2	947	13.5	1308	18.7	1397	19.9	459	6.5
			Unknown	57	20	15	22	4	11.4	.	.	.	.	2	5.7	5	14.3	3	8.6	1	2.9	.	.	6	17.1	3	8.6
	<b>Males</b>	<b>All cases</b>	<b>6650</b>	<b>5781</b>	<b>847</b>	<b>22</b>	<b>1138</b>	<b>17.2</b>	<b>263</b>	<b>4.0</b>	<b>694</b>	<b>10.5</b>	<b>770</b>	<b>11.6</b>	<b>2208</b>	<b>33.3</b>	<b>1855</b>	<b>28.0</b>	<b>745</b>	<b>11.2</b>	<b>1365</b>	<b>20.6</b>	<b>1437</b>	<b>21.7</b>	<b>476</b>	<b>7.2</b>	
		<b>Age at baseline</b>	<18	1919	1544	368	7	343	17.9	113	5.9	239	12.5	196	10.3	501	26.2	451	23.6	333	17.4	440	23.0	248	13.0	116	6.1
			18-19	606	538	67	1	102	16.9	31	5.1	71	11.7	62	10.2	169	27.9	154	25.5	86	14.2	200	33.1	93	15.4	34	5.6
			20-24	1380	1228	150	2	253	18.4	50	3.6	138	10.0	170	12.3	421	30.6	351	25.5	161	11.7	356	25.8	275	20.0	89	6.5
			25-29	1331	1175	153	3	234	17.6	43	3.2	137	10.3	156	11.7	485	36.5	399	30.0	121	9.1	238	17.9	337	25.4	101	7.6
			30-34	886	810	70	6	151	17.2	17	1.9	80	9.1	120	13.6	370	42.0	283	32.2	30	3.4	102	11.6	297	33.8	73	8.3
			35+	528	486	39	3	55	10.5	9	1.7	29	5.5	66	12.6	262	49.9	217	41.3	14	2.7	29	5.5	187	35.6	63	12.0

		<b>Years since diagnosis</b>	5-9	1073	869	201	3	218	20.4	34	3.2	113	10.6	159	14.9	358	33.5	261	24.4	97	9.1	183	17.1	197	18.4	91	8.5
			10-14	2495	2137	349	9	445	17.9	94	3.8	264	10.6	261	10.5	773	31.1	631	25.4	288	11.6	512	20.6	511	20.6	138	5.6
			15-19	1764	1627	133	4	275	15.6	56	3.2	178	10.1	212	12.0	605	34.4	508	28.9	195	11.1	465	26.4	415	23.6	129	7.3
			20+	1318	1148	164	6	200	15.2	79	6.0	139	10.6	138	10.5	472	36.0	455	34.7	165	12.6	205	15.6	314	23.9	118	9.0
		<b>Age at diagnosis</b>	<1	446	421	24	1	71	16.0	77	17.3	52	11.7	89	20.0	153	34.4	202	45.4	122	27.4	42	9.4	91	20.4	31	7.0
			1-4	2174	1778	392	4	320	14.7	108	5.0	280	12.9	186	8.6	535	24.7	477	22.0	413	19.0	682	31.4	273	12.6	129	5.9
			5-9	1548	1316	225	7	337	21.9	48	3.1	178	11.6	129	8.4	434	28.2	366	23.8	135	8.8	359	23.3	283	18.4	106	6.9
			10-14	1315	1189	121	5	264	20.2	19	1.5	112	8.5	172	13.1	518	39.5	403	30.8	45	3.4	182	13.9	364	27.8	114	8.7
			15-20	1167	1077	85	5	146	12.6	11	0.9	72	6.2	194	16.7	568	48.9	407	35.0	30	2.6	100	8.6	426	36.7	96	8.3
		<b>Treatment</b>	Surgery only	458	458	.	.	241	52.6	34	7.4	43	9.4	54	11.8	62	13.5	72	15.7	20	4.4	8	1.7	135	29.5	49	10.7
			Chemotherapy, no radiation	1570	1278	292	.	46	2.9	54	3.4	116	7.4	172	11.0	460	29.3	369	23.5	230	14.6	302	19.2	455	29.0	46	2.9
			Radiation, no chemotherapy	779	758	20	1	365	46.9	25	3.2	73	9.4	62	8.0	309	39.7	303	38.9	22	2.8	19	2.4	127	16.3	129	16.6
			Chemotherapy and radiation	3810	3275	528	7	484	12.7	150	3.9	462	12.1	480	12.6	1374	36.1	1108	29.1	472	12.4	1036	27.2	716	18.8	250	6.6
			Unknown	33	12	7	14	2	10.5	.	.	.	.	2	10.5	3	15.8	3	15.8	1	5.3	.	.	4	21.1	2	10.5
	<b>Females</b>	<b>All cases</b>		<b>5946</b>	<b>4456</b>	<b>1476</b>	<b>14</b>	<b>981</b>	<b>16.5</b>	<b>286</b>	<b>4.8</b>	<b>570</b>	<b>9.6</b>	<b>682</b>	<b>11.5</b>	<b>1806</b>	<b>30.4</b>	<b>1634</b>	<b>27.5</b>	<b>757</b>	<b>12.8</b>	<b>464</b>	<b>7.8</b>	<b>1392</b>	<b>23.5</b>	<b>442</b>	<b>7.5</b>
		<b>Age at baseline</b>	<18	1687	1123	560	4	304	18.1	104	6.2	204	12.1	185	11.0	409	24.3	404	24.0	329	19.5	37	2.2	233	13.8	123	7.3
			18-19	506	320	186	.	88	17.4	20	4.0	54	10.7	48	9.5	98	19.4	111	21.9	88	17.4	14	2.8	68	13.4	33	6.5
			20-24	1285	916	366	3	233	18.2	70	5.5	120	9.4	158	12.3	307	23.9	278	21.7	179	14.0	62	4.8	279	21.8	91	7.1
			25-29	1075	847	225	3	180	16.8	31	2.9	94	8.8	122	11.4	325	30.3	298	27.8	108	10.1	104	9.7	313	29.2	75	7.0
			30-34	811	709	100	2	123	15.2	31	3.8	55	6.8	101	12.5	347	42.9	273	33.7	34	4.2	128	15.8	301	37.2	60	7.4
			35+	582	541	39	2	53	9.1	30	5.2	43	7.4	68	11.7	320	55.2	270	46.6	19	3.3	119	20.5	198	34.1	60	10.3
		<b>Years since diagnosis</b>	5-9	859	626	231	2	179	20.9	28	3.3	83	9.7	124	14.5	257	30.0	206	24.0	109	12.7	42	4.9	176	20.5	79	9.2
			10-14	2154	1570	579	5	381	17.7	97	4.5	208	9.7	231	10.7	619	28.8	534	24.8	282	13.1	136	6.3	467	21.7	137	6.4
			15-19	1692	1267	421	4	244	14.5	81	4.8	172	10.2	195	11.6	513	30.4	474	28.1	203	12.0	151	8.9	416	24.6	107	6.3
			20+	1241	993	245	3	177	14.3	80	6.5	107	8.6	132	10.7	417	33.7	420	33.9	163	13.2	135	10.9	333	26.9	119	9.6
		<b>Age at diagnosis</b>	<1	436	396	40	.	75	17.2	68	15.6	61	14.0	85	19.5	136	31.2	188	43.1	116	26.6	23	5.3	95	21.8	44	10.1
			1-4	2012	1233	776	3	295	14.7	104	5.2	226	11.2	183	9.1	415	20.7	426	21.2	413	20.6	53	2.6	253	12.6	126	6.3
			5-9	1229	829	394	6	263	21.5	39	3.2	133	10.9	105	8.6	277	22.6	234	19.1	162	13.2	49	4.0	217	17.7	88	7.2
			10-14	1216	1021	195	.	224	18.4	37	3.0	84	6.9	156	12.8	434	35.7	359	29.5	35	2.9	137	11.3	424	34.9	91	7.5
			15-20	1053	977	71	5	124	11.8	38	3.6	66	6.3	153	14.6	544	51.9	427	40.7	31	3.0	202	19.3	403	38.5	93	8.9
		<b>Treatment</b>	Surgery only	452	452	.	.	209	46.2	32	7.1	54	11.9	50	11.1	54	11.9	67	14.8	23	5.1	12	2.7	157	34.7	46	10.2
			Chemotherapy, no radiation	1521	996	524	1	60	3.9	74	4.9	100	6.6	158	10.4	393	25.9	329	21.6	241	15.9	71	4.7	416	27.4	71	4.7
			Radiation, no chemotherapy	735	722	13	.	363	49.4	34	4.6	63	8.6	71	9.7	277	37.7	296	40.3	18	2.4	109	14.8	136	18.5	115	15.6
			Chemotherapy and radiation	3214	2278	931	5	347	10.8	146	4.5	353	11.0	403	12.6	1080	33.7	942	29.4	475	14.8	272	8.5	681	21.2	209	6.5
			Unknown	24	8	8	8	2	12.5	.	.	.	.	.	.	2	12.5	.	.	.	.	.	.	2	12.5	1	6.3

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information



## Surgery: All leukemias

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				Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
<b>All leukemias</b>	<b>Both sexes</b>	<b>All cases</b>	<b>4276</b>	<b>2091</b>	<b>2167</b>	<b>18</b>	<b>157</b>	<b>3.7</b>	<b>25</b>	<b>0.6</b>	<b>345</b>	<b>8.1</b>	<b>208</b>	<b>4.9</b>	<b>494</b>	<b>11.6</b>	<b>366</b>	<b>8.6</b>	<b>66</b>	<b>1.6</b>	<b>1119</b>	<b>26.3</b>	<b>279</b>	<b>6.6</b>	<b>87</b>	<b>2.0</b>	
		<b>Age at baseline</b>	<18	1636	733	894	9	56	3.4	2	0.1	155	9.5	77	4.7	184	11.3	100	6.1	20	1.2	376	23.1	103	6.3	43	2.6
			18-19	503	259	243	1	19	3.8	3	0.6	35	7.0	20	4.0	54	10.8	38	7.6	10	2.0	172	34.3	33	6.6	10	2.0
			20-24	999	507	489	3	33	3.3	7	0.7	65	6.5	53	5.3	109	10.9	90	9.0	14	1.4	303	30.4	54	5.4	16	1.6
			25-29	714	369	344	1	31	4.3	8	1.1	57	8.0	43	6.0	84	11.8	86	12.1	13	1.8	172	24.1	52	7.3	10	1.4
			30-34	309	163	142	4	13	4.3	2	0.7	24	7.9	12	3.9	43	14.1	37	12.1	4	1.3	75	24.6	29	9.5	5	1.6
			35+	115	60	55	.	5	4.3	3	2.6	9	7.8	3	2.6	20	17.4	15	13.0	5	4.3	21	18.3	8	7.0	3	2.6
		<b>Years since diagnosis</b>	5-9	784	367	413	4	38	4.9	1	0.1	63	8.1	49	6.3	128	16.4	70	9.0	12	1.5	154	19.7	55	7.1	23	2.9
			10-14	1679	797	874	8	53	3.2	3	0.2	143	8.6	69	4.1	207	12.4	123	7.4	19	1.1	427	25.6	114	6.8	35	2.1
			15-19	1096	586	508	2	36	3.3	10	0.9	81	7.4	59	5.4	100	9.1	91	8.3	18	1.6	388	35.5	57	5.2	22	2.0
			20+	717	341	372	4	30	4.2	11	1.5	58	8.1	31	4.3	59	8.3	82	11.5	17	2.4	150	21.0	53	7.4	7	1.0
		<b>Age at diagnosis</b>	<1	87	39	47	1	4	4.7	1	1.2	15	17.4	6	7.0	12	14.0	12	14.0	3	3.5	9	10.5	10	11.6	3	3.5
			1-4	2204	1061	1137	6	70	3.2	13	0.6	200	9.1	108	4.9	201	9.1	152	6.9	32	1.5	600	27.3	134	6.1	44	2.0
			5-9	1109	514	586	9	46	4.2	3	0.3	69	6.3	43	3.9	114	10.4	92	8.4	18	1.6	303	27.5	65	5.9	18	1.6
			10-14	592	308	283	1	24	4.1	6	1.0	38	6.4	34	5.8	98	16.6	78	13.2	10	1.7	139	23.5	44	7.4	17	2.9
			15-20	284	169	114	1	13	4.6	2	0.7	23	8.1	17	6.0	69	24.4	32	11.3	3	1.1	68	24.0	26	9.2	5	1.8
		<b>Treatment</b>	Chemotherapy, no radiation	1302	519	782	1	24	1.8	2	0.2	91	7.0	45	3.5	130	10.0	116	8.9	21	1.6	233	17.9	60	4.6	21	1.6
			Chemotherapy and radiation	2955	1567	1380	8	133	4.5	23	0.8	254	8.6	163	5.5	360	12.2	250	8.5	45	1.5	886	30.1	218	7.4	66	2.2
			Unknown	19	5	5	9	.	.	.	.	.	.	.	4	40.0	.	.	.	.	.	.	.	1	10.0	.	.
	<b>Males</b>	<b>All cases</b>	<b>2221</b>	<b>1456</b>	<b>753</b>	<b>12</b>	<b>91</b>	<b>4.1</b>	<b>11</b>	<b>0.5</b>	<b>171</b>	<b>7.7</b>	<b>107</b>	<b>4.8</b>	<b>288</b>	<b>13.0</b>	<b>202</b>	<b>9.1</b>	<b>42</b>	<b>1.9</b>	<b>1076</b>	<b>48.7</b>	<b>148</b>	<b>6.7</b>	<b>40</b>	<b>1.8</b>	
		<b>Age at baseline</b>	<18	882	525	350	7	32	3.7	2	0.2	85	9.7	40	4.6	113	12.9	68	7.8	16	1.8	373	42.6	57	6.5	21	2.4
			18-19	268	204	63	1	15	5.6	1	0.4	19	7.1	15	5.6	33	12.4	19	7.1	6	2.2	171	64.0	22	8.2	5	1.9
			20-24	485	353	132	.	16	3.3	3	0.6	23	4.7	25	5.2	65	13.4	42	8.7	8	1.6	286	59.0	28	5.8	8	1.6
			25-29	383	250	133	.	17	4.4	4	1.0	31	8.1	20	5.2	49	12.8	53	13.8	7	1.8	164	42.8	27	7.0	3	0.8
			30-34	153	99	50	4	9	6.0	1	0.7	11	7.4	5	3.4	22	14.8	16	10.7	2	1.3	68	45.6	12	8.1	2	1.3
			35+	50	25	25	.	2	4.0	.	.	2	4.0	2	4.0	6	12.0	4	8.0	3	6.0	14	28.0	2	4.0	1	2.0
		<b>Years since diagnosis</b>	5-9	441	250	188	3	20	4.6	1	0.2	34	7.8	30	6.8	81	18.5	44	10.0	11	2.5	150	34.2	36	8.2	12	2.7
			10-14	888	566	316	6	31	3.5	3	0.3	72	8.2	32	3.6	123	13.9	69	7.8	12	1.4	417	47.3	60	6.8	14	1.6
			15-19	534	425	109	.	20	3.7	2	0.4	34	6.4	30	5.6	55	10.3	48	9.0	11	2.1	373	69.9	31	5.8	10	1.9

			20+	358	215	140	3	20	5.6	5	1.4	31	8.7	15	4.2	29	8.2	41	11.5	8	2.3	136	38.3	21	5.9	4	1.1	
		<b>Age at diagnosis</b>	<1	38	22	15	1	4	10.8	.	.	9	24.3	2	5.4	5	13.5	6	16.2	2	5.4	9	24.3	4	10.8	2	5.4	
			1-4	1149	766	379	4	43	3.8	7	0.6	105	9.2	54	4.7	124	10.8	91	7.9	20	1.7	589	51.4	72	6.3	21	1.8	
			5-9	583	376	202	5	30	5.2	2	0.3	31	5.4	26	4.5	69	11.9	53	9.2	9	1.6	291	50.3	38	6.6	9	1.6	
			10-14	278	177	100	1	8	2.9	2	0.7	15	5.4	13	4.7	45	16.2	36	13.0	8	2.9	126	45.5	19	6.9	7	2.5	
			15-20	173	115	57	1	6	3.5	.	.	11	6.4	12	7.0	45	26.2	16	9.3	3	1.7	61	35.5	15	8.7	1	0.6	
		<b>Treatment</b>	Chemotherapy, no radiation	598	329	269	.	12	2.0	1	0.2	43	7.2	21	3.5	59	9.9	57	9.5	10	1.7	222	37.1	26	4.3	8	1.3	
			Chemotherapy and radiation	1611	1124	482	5	79	4.9	10	0.6	128	8.0	86	5.4	227	14.1	145	9.0	32	2.0	854	53.2	121	7.5	32	2.0	
			Unknown	12	3	2	7	.	.	.	.	.	.	.	.	2	40.0	.	.	.	.	.	.	1	20.0	.	.	
	<b>Females</b>	<b>All cases</b>		<b>2055</b>	<b>635</b>	<b>1414</b>	<b>6</b>	<b>66</b>	<b>3.2</b>	<b>14</b>	<b>0.7</b>	<b>174</b>	<b>8.5</b>	<b>101</b>	<b>4.9</b>	<b>206</b>	<b>10.1</b>	<b>164</b>	<b>8.0</b>	<b>24</b>	<b>1.2</b>	<b>43</b>	<b>2.1</b>	<b>131</b>	<b>6.4</b>	<b>47</b>	<b>2.3</b>	
		<b>Age at baseline</b>	<18	754	208	544	2	24	3.2	.	.	70	9.3	37	4.9	71	9.4	32	4.3	4	0.5	3	0.4	46	6.1	22	2.9	
			18-19	235	55	180	.	4	1.7	2	0.9	16	6.8	5	2.1	21	8.9	19	8.1	4	1.7	1	0.4	11	4.7	5	2.1	
			20-24	514	154	357	3	17	3.3	4	0.8	42	8.2	28	5.5	44	8.6	48	9.4	6	1.2	17	3.3	26	5.1	8	1.6	
			25-29	331	119	211	1	14	4.2	4	1.2	26	7.9	23	7.0	35	10.6	33	10.0	6	1.8	8	2.4	25	7.6	7	2.1	
			30-34	156	64	92	.	4	2.6	1	0.6	13	8.3	7	4.5	21	13.5	21	13.5	2	1.3	7	4.5	17	10.9	3	1.9	
			35+	65	35	30	.	3	4.6	3	4.6	7	10.8	1	1.5	14	21.5	11	16.9	2	3.1	7	10.8	6	9.2	2	3.1	
		<b>Years since diagnosis</b>	5-9	343	117	225	1	18	5.3	.	.	29	8.5	19	5.6	47	13.7	26	7.6	1	0.3	4	1.2	19	5.6	11	3.2	
			10-14	791	231	558	2	22	2.8	.	.	71	9.0	37	4.7	84	10.6	54	6.8	7	0.9	10	1.3	54	6.8	21	2.7	
			15-19	562	161	399	2	16	2.9	8	1.4	47	8.4	29	5.2	45	8.0	43	7.7	7	1.3	15	2.7	26	4.6	12	2.1	
			20+	359	126	232	1	10	2.8	6	1.7	27	7.5	16	4.5	30	8.4	41	11.5	9	2.5	14	3.9	32	8.9	3	0.8	
		<b>Age at diagnosis</b>	<1	49	17	32	.	.	.	1	2.0	6	12.2	4	8.2	7	14.3	6	12.2	1	2.0	.	.	6	12.2	1	2.0	
			1-4	1055	295	758	2	27	2.6	6	0.6	95	9.0	54	5.1	77	7.3	61	5.8	12	1.1	11	1.0	62	5.9	23	2.2	
			5-9	526	138	384	4	16	3.1	1	0.2	38	7.3	17	3.3	45	8.6	39	7.5	9	1.7	12	2.3	27	5.2	9	1.7	
			10-14	314	131	183	.	16	5.1	4	1.3	23	7.3	21	6.7	53	16.9	42	13.4	2	0.6	13	4.1	25	8.0	10	3.2	
			15-20	111	54	57	.	7	6.3	2	1.8	12	10.8	5	4.5	24	21.6	16	14.4	.	.	7	6.3	11	9.9	4	3.6	
		<b>Treatment</b>	Chemotherapy, no radiation	704	190	513	1	12	1.7	1	0.1	48	6.8	24	3.4	71	10.1	59	8.4	11	1.6	11	1.6	34	4.8	13	1.8	
			Chemotherapy and radiation	1344	443	898	3	54	4.0	13	1.0	126	9.4	77	5.7	133	9.9	105	7.8	13	1.0	32	2.4	97	7.2	34	2.5	
			Unknown	7	2	3	2	.	.	.	.	.	.	.	.	2	40.0	.	.	.	.	.	.	.	.	.	.	.

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: ALL

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
<a href="#">ALL</a>	Both sexes	All cases	3657	1745	1894	18	133	3.7	16	0.4	258	7.1	156	4.3	348	9.6	281	7.7	52	1.4	1029	28.3	213	5.9	63	1.7	
		Age at baseline	<18	1428	618	801	9	50	3.5	1	0.1	117	8.2	57	4.0	141	9.9	79	5.6	16	1.1	346	24.4	79	5.6	33	2.3
			18-19	436	225	210	1	18	4.1	2	0.5	24	5.5	15	3.4	39	9.0	26	6.0	6	1.4	162	37.2	26	6.0	5	1.1
			20-24	863	427	433	3	24	2.8	4	0.5	50	5.8	39	4.5	80	9.3	73	8.5	11	1.3	278	32.3	40	4.7	11	1.3
			25-29	600	307	292	1	27	4.5	6	1.0	44	7.3	31	5.2	57	9.5	63	10.5	11	1.8	160	26.7	39	6.5	8	1.3
			30-34	248	126	118	4	10	4.1	1	0.4	18	7.4	11	4.5	21	8.6	31	12.7	4	1.6	66	27.0	21	8.6	4	1.6
			35+	82	42	40	.	4	4.9	2	2.4	5	6.1	3	3.7	10	12.2	9	11.0	4	4.9	17	20.7	8	9.8	2	2.4
		Years since diagnosis	5-9	649	292	353	4	34	5.3	.	.	46	7.1	35	5.4	84	13.0	52	8.1	8	1.2	142	22.0	44	6.8	17	2.6
			10-14	1456	665	783	8	45	3.1	1	0.1	108	7.5	49	3.4	153	10.6	93	6.4	14	1.0	395	27.3	84	5.8	23	1.6
			15-19	937	500	435	2	28	3.0	7	0.7	60	6.4	45	4.8	66	7.1	69	7.4	15	1.6	357	38.2	43	4.6	18	1.9
			20+	615	288	323	4	26	4.3	8	1.3	44	7.2	27	4.4	45	7.4	67	11.0	15	2.5	135	22.1	42	6.9	5	0.8
		Age at diagnosis	<1	51	22	28	1	2	4.0	.	.	8	16.0	5	10.0	3	6.0	4	8.0	2	4.0	6	12.0	5	10.0	1	2.0
			1-4	1949	917	1026	6	63	3.2	9	0.5	157	8.1	86	4.4	165	8.5	124	6.4	24	1.2	553	28.5	103	5.3	33	1.7
			5-9	998	454	535	9	42	4.2	3	0.3	53	5.4	32	3.2	89	9.0	76	7.7	17	1.7	286	28.9	55	5.6	16	1.6
			10-14	464	235	228	1	18	3.9	2	0.4	25	5.4	20	4.3	55	11.9	56	12.1	8	1.7	125	27.0	32	6.9	11	2.4
			15-20	195	117	77	1	8	4.1	2	1.0	15	7.7	13	6.7	36	18.6	21	10.8	1	0.5	59	30.4	18	9.3	2	1.0
		Treatment	Chemotherapy, no radiation	1069	403	665	1	19	1.8	1	0.1	59	5.5	29	2.7	86	8.1	76	7.1	17	1.6	210	19.7	41	3.8	11	1.0
			Chemotherapy and radiation	2573	1339	1226	8	114	4.4	15	0.6	199	7.8	127	5.0	259	10.1	205	8.0	35	1.4	819	31.9	172	6.7	52	2.0
			Unknown	15	3	3	9	.	.	.	.	.	.	.	3	50.0	.	.	.	.	.	.	.	.	.	.	.
	Males	All cases	1914	1267	635	12	81	4.3	8	0.4	132	6.9	81	4.3	218	11.5	164	8.6	33	1.7	994	52.3	114	6.0	28	1.5	
		Age at baseline	<18	774	459	308	7	29	3.8	1	0.1	64	8.3	30	3.9	93	12.1	58	7.6	13	1.7	343	44.7	45	5.9	17	2.2
			18-19	238	187	50	1	14	5.9	.	.	13	5.5	13	5.5	26	11.0	15	6.3	4	1.7	162	68.4	17	7.2	2	0.8
			20-24	418	309	109	.	15	3.6	2	0.5	20	4.8	18	4.3	48	11.5	37	8.9	6	1.4	264	63.2	20	4.8	5	1.2
			25-29	326	216	110	.	16	4.9	4	1.2	26	8.0	13	4.0	38	11.7	39	12.0	6	1.8	153	46.9	23	7.1	2	0.6
			30-34	121	76	41	4	6	5.1	1	0.9	7	6.0	5	4.3	10	8.5	13	11.1	2	1.7	60	51.3	7	6.0	1	0.9
			35+	37	20	17	.	1	2.7	.	.	2	5.4	2	5.4	3	8.1	2	5.4	2	5.4	12	32.4	2	5.4	1	2.7
		Years since diagnosis	5-9	366	207	156	3	18	5.0	.	.	25	6.9	20	5.5	59	16.3	34	9.4	7	1.9	140	38.6	27	7.4	9	2.5
			10-14	780	492	282	6	30	3.9	1	0.1	56	7.2	24	3.1	96	12.4	55	7.1	9	1.2	385	49.7	44	5.7	8	1.0
			15-19	457	383	74	.	16	3.5	2	0.4	27	5.9	25	5.5	38	8.3	40	8.8	10	2.2	345	75.5	26	5.7	8	1.8

			20+	311	185	123	3	17	5.5	5	1.6	24	7.8	12	3.9	25	8.1	35	11.4	7	2.3	124	40.3	17	5.5	3	1.0	
		<b>Age at diagnosis</b>	<1	24	15	8	1	2	8.7	.	.	6	26.1	2	8.7	2	8.7	3	13.0	2	8.7	6	26.1	2	8.7	1	4.3	
			1-4	1023	685	334	4	41	4.0	5	0.5	83	8.1	46	4.5	107	10.5	80	7.9	16	1.6	545	53.5	58	5.7	16	1.6	
			5-9	525	339	181	5	28	5.4	2	0.4	24	4.6	18	3.5	56	10.8	45	8.7	8	1.5	274	52.7	33	6.3	8	1.5	
			10-14	220	145	74	1	8	3.7	1	0.5	11	5.0	6	2.7	28	12.8	26	11.9	6	2.7	114	52.1	11	5.0	3	1.4	
			15-20	122	83	38	1	2	1.7	.	.	8	6.6	9	7.4	25	20.7	10	8.3	1	0.8	55	45.5	10	8.3	.	.	
		<b>Treatment</b>	Chemotherapy, no radiation	495	276	219	.	9	1.8	1	0.2	29	5.9	13	2.6	45	9.1	43	8.7	9	1.8	204	41.2	19	3.8	5	1.0	
			Chemotherapy and radiation	1410	989	416	5	72	5.1	7	0.5	103	7.3	68	4.8	171	12.2	121	8.6	24	1.7	790	56.2	95	6.8	23	1.6	
			Unknown	9	2	.	7	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.	.
<b>Females</b>	<b>All cases</b>			<b>1743</b>	<b>478</b>	<b>1259</b>	<b>6</b>	<b>52</b>	<b>3.0</b>	<b>8</b>	<b>0.5</b>	<b>126</b>	<b>7.3</b>	<b>75</b>	<b>4.3</b>	<b>130</b>	<b>7.5</b>	<b>117</b>	<b>6.7</b>	<b>19</b>	<b>1.1</b>	<b>35</b>	<b>2.0</b>	<b>99</b>	<b>5.7</b>	<b>35</b>	<b>2.0</b>	
		<b>Age at baseline</b>	<18	654	159	493	2	21	3.2	.	.	53	8.1	27	4.1	48	7.4	21	3.2	3	0.5	3	0.5	34	5.2	16	2.5	
			18-19	198	38	160	.	4	2.0	2	1.0	11	5.6	2	1.0	13	6.6	11	5.6	2	1.0	.	.	9	4.5	3	1.5	
			20-24	445	118	324	3	9	2.0	2	0.5	30	6.8	21	4.8	32	7.2	36	8.1	5	1.1	14	3.2	20	4.5	6	1.4	
			25-29	274	91	182	1	11	4.0	2	0.7	18	6.6	18	6.6	19	7.0	24	8.8	5	1.8	7	2.6	16	5.9	6	2.2	
			30-34	127	50	77	.	4	3.1	.	.	11	8.7	6	4.7	11	8.7	18	14.2	2	1.6	6	4.7	14	11.0	3	2.4	
			35+	45	22	23	.	3	6.7	2	4.4	3	6.7	1	2.2	7	15.6	7	15.6	2	4.4	5	11.1	6	13.3	1	2.2	
		<b>Years since diagnosis</b>	5-9	283	85	197	1	16	5.7	.	.	21	7.4	15	5.3	25	8.9	18	6.4	1	0.4	2	0.7	17	6.0	8	2.8	
			10-14	676	173	501	2	15	2.2	.	.	52	7.7	25	3.7	57	8.5	38	5.6	5	0.7	10	1.5	40	5.9	15	2.2	
			15-19	480	117	361	2	12	2.5	5	1.0	33	6.9	20	4.2	28	5.9	29	6.1	5	1.0	12	2.5	17	3.6	10	2.1	
			20+	304	103	200	1	9	3.0	3	1.0	20	6.6	15	5.0	20	6.6	32	10.6	8	2.6	11	3.6	25	8.3	2	0.7	
		<b>Age at diagnosis</b>	<1	27	7	20	.	.	.	.	.	2	7.4	3	11.1	1	3.7	1	3.7	.	.	.	.	3	11.1	.	.	
			1-4	926	232	692	2	22	2.4	4	0.4	74	8.0	40	4.3	58	6.3	44	4.8	8	0.9	8	0.9	45	4.9	17	1.8	
			5-9	473	115	354	4	14	3.0	1	0.2	29	6.2	14	3.0	33	7.0	31	6.6	9	1.9	12	2.6	22	4.7	8	1.7	
			10-14	244	90	154	.	10	4.1	1	0.4	14	5.7	14	5.7	27	11.1	30	12.3	2	0.8	11	4.5	21	8.6	8	3.3	
			15-20	73	34	39	.	6	8.2	2	2.7	7	9.6	4	5.5	11	15.1	11	15.1	.	.	4	5.5	8	11.0	2	2.7	
		<b>Treatment</b>	Chemotherapy, no radiation	574	127	446	1	10	1.7	.	.	30	5.2	16	2.8	41	7.2	33	5.8	8	1.4	6	1.0	22	3.8	6	1.0	
			Chemotherapy and radiation	1163	350	810	3	42	3.6	8	0.7	96	8.3	59	5.1	88	7.6	84	7.2	11	0.9	29	2.5	77	6.6	29	2.5	
			Unknown	6	1	3	2	.	.	.	.	.	.	.	.	1	25.0	.	.	.	.	.	.	.	.	.	.	.

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: AML

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				Any surgery		Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
				<a href="#">AML</a>	Both sexes	All cases	322	185	137	15	4.7	4	1.2	51	15.8	32	9.9	94	29.2	55	17.1	7	2.2	23	7.1	39
		Age at baseline	<18	103	62	41	2	1.9	.	24	23.3	15	14.6	24	23.3	14	13.6	2	1.9	8	7.8	12	11.7	6	5.8	
			18-19	40	21	19	1	2.5	1	2.5	9	22.5	3	7.5	12	30.0	9	22.5	2	5.0	3	7.5	4	10.0	3	7.5
			20-24	62	39	23	5	8.1	1	1.6	6	9.7	5	8.1	22	35.5	10	16.1	1	1.6	7	11.3	8	12.9	1	1.6
			25-29	66	32	34	4	6.1	2	3.0	6	9.1	8	12.1	16	24.2	14	21.2	1	1.5	2	3.0	9	13.6	1	1.5
			30-34	35	22	13	2	5.7	.	.	5	14.3	1	2.9	15	42.9	5	14.3	.	.	1	2.9	6	17.1	1	2.9
			35+	16	9	7	1	6.3	.	.	1	6.3	.	.	5	31.3	3	18.8	1	6.3	2	12.5	.	.	1	6.3
		Years since diagnosis	5-9	70	37	33	2	2.9	.	.	9	12.9	11	15.7	26	37.1	10	14.3	.	.	3	4.3	4	5.7	1	1.4
			10-14	127	82	45	5	3.9	2	1.6	24	18.9	15	11.8	36	28.3	23	18.1	4	3.1	9	7.1	19	15.0	8	6.3
			15-19	86	45	41	6	7.0	1	1.2	15	17.4	5	5.8	24	27.9	16	18.6	1	1.2	6	7.0	11	12.8	3	3.5
			20+	39	21	18	2	5.1	1	2.6	3	7.7	1	2.6	8	20.5	6	15.4	2	5.1	5	12.8	5	12.8	1	2.6
		Age at diagnosis	<1	28	15	13	2	7.1	.	.	5	17.9	1	3.6	9	32.1	8	28.6	1	3.6	3	10.7	4	14.3	2	7.1
			1-4	106	62	44	2	1.9	2	1.9	26	24.5	9	8.5	18	17.0	13	12.3	4	3.8	9	8.5	15	14.2	6	5.7
			5-9	57	36	21	2	3.5	.	.	8	14.0	9	15.8	18	31.6	12	21.1	1	1.8	7	12.3	6	10.5	1	1.8
			10-14	74	40	34	6	8.1	2	2.7	7	9.5	9	12.2	29	39.2	14	18.9	.	.	1	1.4	8	10.8	1	1.4
			15-20	57	32	25	3	5.3	.	.	5	8.8	4	7.0	20	35.1	8	14.0	1	1.8	3	5.3	6	10.5	3	5.3
		Treatment	Chemotherapy, no radiation	166	90	76	5	3.0	1	0.6	26	15.7	15	9.0	37	22.3	35	21.1	3	1.8	12	7.2	19	11.4	8	4.8
			Chemotherapy and radiation	155	94	61	10	6.5	3	1.9	25	16.1	17	11.0	57	36.8	20	12.9	4	2.6	11	7.1	19	12.3	5	3.2
			Unknown	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
	Males	All cases		153	88	65	6	3.9	2	1.3	24	15.7	20	13.1	41	26.8	22	14.4	3	2.0	18	11.8	22	14.4	6	3.9
		Age at baseline	<18	52	30	22	1	1.9	.	.	14	26.9	9	17.3	8	15.4	5	9.6	1	1.9	8	15.4	6	11.5	2	3.8
			18-19	19	8	11	1	5.3	1	5.3	5	26.3	2	10.5	5	26.3	3	15.8	.	.	2	10.5	3	15.8	2	10.5
			20-24	32	22	10	.	.	1	3.1	.	.	5	15.6	13	40.6	4	12.5	1	3.1	5	15.6	6	18.8	1	3.1
			25-29	27	13	14	1	3.7	.	.	1	3.7	4	14.8	5	18.5	7	25.9	.	.	2	7.4	4	14.8	.	.
			30-34	18	12	6	2	11.1	.	.	4	22.2	.	.	8	44.4	2	11.1	.	.	1	5.6	3	16.7	1	5.6
			35+	5	3	2	1	20.0	.	.	.	.	.	.	2	40.0	1	20.0	1	20.0	.	.	.	.	.	.
		Years since diagnosis	5-9	41	22	19	1	2.4	.	.	6	14.6	9	22.0	14	34.1	6	14.6	.	.	2	4.9	3	7.3	1	2.4
			10-14	58	39	19	.	.	2	3.4	11	19.0	7	12.1	15	25.9	8	13.8	2	3.4	9	15.5	12	20.7	3	5.2
			15-19	39	16	23	3	7.7	.	.	6	15.4	3	7.7	9	23.1	6	15.4	.	.	4	10.3	4	10.3	2	5.1
			20+	15	11	4	2	13.3	.	.	1	6.7	1	6.7	3	20.0	2	13.3	1	6.7	3	20.0	3	20.0	.	.



		<b>Age at diagnosis</b>	<1	11	7	4	2	18.2	.	.	3	27.3	.	.	3	27.3	3	27.3	.	.	3	27.3	2	18.2	1	9.1
			1-4	52	26	26	.	.	1	1.9	12	23.1	5	9.6	6	11.5	5	9.6	1	1.9	7	13.5	8	15.4	2	3.8
			5-9	29	20	9	1	3.4	.	.	3	10.3	8	27.6	8	27.6	4	13.8	1	3.4	7	24.1	3	10.3	1	3.4
			10-14	27	14	13	.	.	1	3.7	3	11.1	4	14.8	10	37.0	6	22.2	.	.	.	.	6	22.2	1	3.7
			15-20	34	21	13	3	8.8	.	.	3	8.8	3	8.8	14	41.2	4	11.8	1	2.9	1	2.9	3	8.8	1	2.9
		<b>Treatment</b>	Chemotherapy, no radiation	71	35	36	3	4.2	.	.	11	15.5	8	11.3	10	14.1	11	15.5	1	1.4	8	11.3	7	9.9	1	1.4
			Chemotherapy and radiation	81	52	29	3	3.7	2	2.5	13	16.0	12	14.8	31	38.3	11	13.6	2	2.5	10	12.3	14	17.3	5	6.2
			Unknown	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
	<b>Females</b>	<b>All cases</b>		<b>169</b>	<b>97</b>	<b>72</b>	<b>9</b>	<b>5.3</b>	<b>2</b>	<b>1.2</b>	<b>27</b>	<b>16.0</b>	<b>12</b>	<b>7.1</b>	<b>53</b>	<b>31.4</b>	<b>33</b>	<b>19.5</b>	<b>4</b>	<b>2.4</b>	<b>5</b>	<b>3.0</b>	<b>17</b>	<b>10.1</b>	<b>7</b>	<b>4.1</b>
		<b>Age at baseline</b>	<18	51	32	19	1	2.0	.	.	10	19.6	6	11.8	16	31.4	9	17.6	1	2.0	.	.	6	11.8	4	7.8
			18-19	21	13	8	.	.	.	.	4	19.0	1	4.8	7	33.3	6	28.6	2	9.5	1	4.8	1	4.8	1	4.8
			20-24	30	17	13	5	16.7	.	.	6	20.0	.	.	9	30.0	6	20.0	.	.	2	6.7	2	6.7	.	.
			25-29	39	19	20	3	7.7	2	5.1	5	12.8	4	10.3	11	28.2	7	17.9	1	2.6	.	.	5	12.8	1	2.6
			30-34	17	10	7	.	.	.	.	1	5.9	1	5.9	7	41.2	3	17.6	.	.	.	.	3	17.6	.	.
			35+	11	6	5	.	.	.	.	1	9.1	.	.	3	27.3	2	18.2	.	.	2	18.2	.	.	1	9.1
		<b>Years since diagnosis</b>	5-9	29	15	14	1	3.4	.	.	3	10.3	2	6.9	12	41.4	4	13.8	.	.	1	3.4	1	3.4	.	.
			10-14	69	43	26	5	7.2	.	.	13	18.8	8	11.6	21	30.4	15	21.7	2	2.9	.	.	7	10.1	5	7.2
			15-19	47	29	18	3	6.4	1	2.1	9	19.1	2	4.3	15	31.9	10	21.3	1	2.1	2	4.3	7	14.9	1	2.1
			20+	24	10	14	.	.	1	4.2	2	8.3	.	.	5	20.8	4	16.7	1	4.2	2	8.3	2	8.3	1	4.2
		<b>Age at diagnosis</b>	<1	17	8	9	.	.	.	.	2	11.8	1	5.9	6	35.3	5	29.4	1	5.9	.	.	2	11.8	1	5.9
			1-4	54	36	18	2	3.7	1	1.9	14	25.9	4	7.4	12	22.2	8	14.8	3	5.6	2	3.7	7	13.0	4	7.4
			5-9	28	16	12	1	3.6	.	.	5	17.9	1	3.6	10	35.7	8	28.6	.	.	.	.	3	10.7	.	.
			10-14	47	26	21	6	12.8	1	2.1	4	8.5	5	10.6	19	40.4	8	17.0	.	.	1	2.1	2	4.3	.	.
			15-20	23	11	12	.	.	.	.	2	8.7	1	4.3	6	26.1	4	17.4	.	.	2	8.7	3	13.0	2	8.7
		<b>Treatment</b>	Chemotherapy, no radiation	95	55	40	2	2.1	1	1.1	15	15.8	7	7.4	27	28.4	24	25.3	2	2.1	4	4.2	12	12.6	7	7.4
			Chemotherapy and radiation	74	42	32	7	9.5	1	1.4	12	16.2	5	6.8	26	35.1	9	12.2	2	2.7	1	1.4	5	6.8	.	.

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: All CNS

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)			
Click link below to see detailed listing			All cases	Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%		
				<b>All CNS</b>	<b>Both sexes</b>	<b>All cases</b>	<b>1663</b>	<b>1621</b>	<b>34</b>	<b>8</b>	<b>1577</b>	<b>95.3</b>	<b>19</b>	<b>1.1</b>	<b>169</b>	<b>10.2</b>	<b>38</b>	<b>2.3</b>	<b>27</b>	<b>1.6</b>	<b>94</b>	<b>5.7</b>	<b>18</b>	<b>1.1</b>	<b>28</b>	<b>1.7</b>	<b>143</b>	<b>8.6</b>
		<b>Age at baseline</b>	<18	503	485	16	2	470	93.8	4	0.8	73	14.6	11	2.2	12	2.4	43	8.6	6	1.2	10	2.0	64	12.8	88	17.6	
			18-19	142	140	2	.	135	95.1	.	.	16	11.3	2	1.4	1	0.7	10	7.0	.	.	3	2.1	7	4.9	18	12.7	
			20-24	381	374	6	1	364	95.8	6	1.6	34	8.9	12	3.2	6	1.6	12	3.2	5	1.3	4	1.1	24	6.3	64	16.8	
			25-29	339	329	8	2	319	94.7	4	1.2	27	8.0	7	2.1	4	1.2	16	4.7	6	1.8	6	1.8	28	8.3	59	17.5	
			30-34	209	207	1	1	206	99.0	4	1.9	15	7.2	4	1.9	2	1.0	10	4.8	.	.	3	1.4	12	5.8	47	22.6	
			35+	89	86	1	2	83	95.4	1	1.1	4	4.6	2	2.3	2	2.3	3	3.4	1	1.1	2	2.3	8	9.2	19	21.8	
		<b>Years since diagnosis</b>	5-9	298	289	8	1	281	94.6	3	1.0	30	10.1	14	4.7	6	2.0	29	9.8	3	1.0	6	2.0	21	7.1	56	18.9	
			10-14	663	646	15	2	634	95.9	9	1.4	64	9.7	7	1.1	10	1.5	33	5.0	6	0.9	12	1.8	65	9.8	82	12.4	
			15-19	408	397	8	3	384	94.8	4	1.0	48	11.9	7	1.7	6	1.5	18	4.4	5	1.2	5	1.2	29	7.2	74	18.3	
			20+	294	289	3	2	278	95.2	3	1.0	27	9.2	10	3.4	5	1.7	14	4.8	4	1.4	5	1.7	28	9.6	83	28.4	
		<b>Age at diagnosis</b>	<1	87	84	3	.	78	89.7	.	.	18	20.7	2	2.3	6	6.9	8	9.2	.	.	2	2.3	13	14.9	19	21.8	
			1-4	485	470	14	1	449	92.8	3	0.6	76	15.7	10	2.1	9	1.9	32	6.6	12	2.5	9	1.9	59	12.2	97	20.0	
			5-9	496	483	10	3	475	96.3	6	1.2	41	8.3	14	2.8	4	0.8	29	5.9	2	0.4	9	1.8	37	7.5	83	16.8	
			10-14	412	404	6	2	400	97.6	8	2.0	21	5.1	8	2.0	4	1.0	20	4.9	1	0.2	2	0.5	22	5.4	75	18.3	
			15-20	183	180	1	2	175	96.7	2	1.1	13	7.2	4	2.2	4	2.2	5	2.8	3	1.7	6	3.3	12	6.6	21	11.6	
		<b>Treatment</b>	Surgery only	426	426	.	.	411	96.5	1	0.2	47	11.0	5	1.2	5	1.2	8	1.9	6	1.4	3	0.7	27	6.3	74	17.4	
			Chemotherapy, no radiation	29	29	.	.	25	86.2	.	.	3	10.3	.	.	.	.	1	3.4	2	6.9	3	10.3	1	3.4	2	6.9	
			Radiation, no chemotherapy	719	699	19	1	678	94.4	13	1.8	75	10.4	14	1.9	9	1.3	40	5.6	8	1.1	12	1.7	70	9.7	142	19.8	
			Chemotherapy and radiation	472	463	8	1	461	97.9	5	1.1	44	9.3	19	4.0	13	2.8	45	9.6	2	0.4	10	2.1	45	9.6	75	15.9	
			Unknown	17	4	7	6	2	18.2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	18.2
	<b>Males</b>	<b>All cases</b>	<b>912</b>	<b>887</b>	<b>19</b>	<b>6</b>	<b>856</b>	<b>94.5</b>	<b>13</b>	<b>1.4</b>	<b>90</b>	<b>9.9</b>	<b>19</b>	<b>2.1</b>	<b>14</b>	<b>1.5</b>	<b>61</b>	<b>6.7</b>	<b>12</b>	<b>1.3</b>	<b>18</b>	<b>2.0</b>	<b>66</b>	<b>7.3</b>	<b>171</b>	<b>18.9</b>		
		<b>Age at baseline</b>	<18	275	268	7	.	255	92.7	4	1.5	40	14.5	6	2.2	6	2.2	28	10.2	4	1.5	8	2.9	28	10.2	51	18.5	
			18-19	79	77	2	.	72	91.1	.	.	10	12.7	2	2.5	1	1.3	6	7.6	.	.	3	3.8	5	6.3	9	11.4	
			20-24	203	199	3	1	192	95.0	4	2.0	16	7.9	6	3.0	4	2.0	8	4.0	4	2.0	4	2.0	7	3.5	32	15.8	
			25-29	192	185	5	2	181	95.3	2	1.1	13	6.8	3	1.6	2	1.1	11	5.8	4	2.1	2	1.1	16	8.4	39	20.5	
			30-34	115	113	1	1	112	98.2	3	2.6	8	7.0	1	0.9	1	0.9	5	4.4	.	.	1	0.9	6	5.3	28	24.6	
			35+	48	45	1	2	44	95.7	.	.	3	6.5	1	2.2	.	.	3	6.5	.	.	.	.	4	8.7	12	26.1	
		<b>Years since diagnosis</b>	5-9	169	165	4	.	160	94.7	1	0.6	19	11.2	9	5.3	5	3.0	21	12.4	2	1.2	3	1.8	11	6.5	34	20.1	

			10-14	361	352	8	1	340	94.4	7	1.9	36	10.0	4	1.1	4	1.1	20	5.6	5	1.4	9	2.5	33	9.2	49	13.6	
			15-19	226	219	4	3	209	93.7	3	1.3	22	9.9	3	1.3	1	0.4	11	4.9	2	0.9	4	1.8	12	5.4	48	21.5	
			20+	156	151	3	2	147	95.5	2	1.3	13	8.4	3	1.9	4	2.6	9	5.8	3	1.9	2	1.3	10	6.5	40	26.0	
		<b>Age at diagnosis</b>	<1	51	49	2	.	44	86.3	.	.	8	15.7	1	2.0	4	7.8	6	11.8	.	.	2	3.9	5	9.8	11	21.6	
			1-4	255	250	5	.	235	92.2	3	1.2	41	16.1	4	1.6	4	1.6	19	7.5	8	3.1	8	3.1	24	9.4	47	18.4	
			5-9	275	265	8	2	258	94.5	6	2.2	24	8.8	9	3.3	3	1.1	21	7.7	2	0.7	7	2.6	18	6.6	50	18.3	
			10-14	228	223	3	2	221	97.8	4	1.8	9	4.0	2	0.9	2	0.9	11	4.9	1	0.4	.	.	10	4.4	49	21.7	
			15-20	103	100	1	2	98	97.0	.	.	8	7.9	3	3.0	1	1.0	4	4.0	1	1.0	1	1.0	9	8.9	14	13.9	
		<b>Treatment</b>	Surgery only	234	234	.	.	226	96.6	.	.	21	9.0	4	1.7	3	1.3	6	2.6	5	2.1	3	1.3	12	5.1	39	16.7	
			Chemotherapy, no radiation	16	16	.	.	12	75.0	.	.	2	12.5	.	.	.	.	1	6.3	2	12.5	3	18.8	1	6.3	1	6.3	
			Radiation, no chemotherapy	368	357	10	1	341	92.9	10	2.7	37	10.1	3	0.8	3	0.8	22	6.0	5	1.4	5	1.4	29	7.9	82	22.3	
			Chemotherapy and radiation	284	278	6	.	276	97.2	3	1.1	30	10.6	12	4.2	8	2.8	32	11.3	.	.	7	2.5	24	8.5	48	16.9	
			Unknown	10	2	3	5	1	20.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	20.0
	<b>Females</b>	<b>All cases</b>		<b>751</b>	<b>734</b>	<b>15</b>	<b>2</b>	<b>721</b>	<b>96.3</b>	<b>6</b>	<b>0.8</b>	<b>79</b>	<b>10.5</b>	<b>19</b>	<b>2.5</b>	<b>13</b>	<b>1.7</b>	<b>33</b>	<b>4.4</b>	<b>6</b>	<b>0.8</b>	<b>10</b>	<b>1.3</b>	<b>77</b>	<b>10.3</b>	<b>124</b>	<b>16.6</b>	
		<b>Age at baseline</b>	<18	228	217	9	2	215	95.1	.	.	33	14.6	5	2.2	6	2.7	15	6.6	2	0.9	2	0.9	36	15.9	37	16.4	
			18-19	63	63	.	.	63	.	.	.	6	9.5	.	.	.	.	4	6.3	.	.	.	.	2	3.2	9	14.3	
			20-24	178	175	3	.	172	96.6	2	1.1	18	10.1	6	3.4	2	1.1	4	2.2	1	0.6	.	.	17	9.6	32	18.0	
			25-29	147	144	3	.	138	93.9	2	1.4	14	9.5	4	2.7	2	1.4	5	3.4	2	1.4	4	2.7	12	8.2	20	13.6	
			30-34	94	94	.	.	94	.	1	1.1	7	7.4	3	3.2	1	1.1	5	5.3	.	.	2	2.1	6	6.4	19	20.2	
			35+	41	41	.	.	39	95.1	1	2.4	1	2.4	1	2.4	2	4.9	.	.	1	2.4	2	4.9	4	9.8	7	17.1	
		<b>Years since diagnosis</b>	5-9	129	124	4	1	121	94.5	2	1.6	11	8.6	5	3.9	1	0.8	8	6.3	1	0.8	3	2.3	10	7.8	22	17.2	
			10-14	302	294	7	1	294	97.7	2	0.7	28	9.3	3	1.0	6	2.0	13	4.3	1	0.3	3	1.0	32	10.6	33	11.0	
			15-19	182	178	4	.	175	96.2	1	0.5	26	14.3	4	2.2	5	2.7	7	3.8	3	1.6	1	0.5	17	9.3	26	14.3	
			20+	138	138	.	.	131	94.9	1	0.7	14	10.1	7	5.1	1	0.7	5	3.6	1	0.7	3	2.2	18	13.0	43	31.2	
		<b>Age at diagnosis</b>	<1	36	35	1	.	34	94.4	.	.	10	27.8	1	2.8	2	5.6	2	5.6	.	.	.	.	8	22.2	8	22.2	
			1-4	230	220	9	1	214	93.4	.	.	35	15.3	6	2.6	5	2.2	13	5.7	4	1.7	1	0.4	35	15.3	50	21.8	
			5-9	221	218	2	1	217	98.6	.	.	17	7.7	5	2.3	1	0.5	8	3.6	.	.	2	0.9	19	8.6	33	15.0	
			10-14	184	181	3	.	179	97.3	4	2.2	12	6.5	6	3.3	2	1.1	9	4.9	.	.	2	1.1	12	6.5	26	14.1	
			15-20	80	80	.	.	77	96.3	2	2.5	5	6.3	1	1.3	3	3.8	1	1.3	2	2.5	5	6.3	3	3.8	7	8.8	
		<b>Treatment</b>	Surgery only	192	192	.	.	185	96.4	1	0.5	26	13.5	1	0.5	2	1.0	2	1.0	1	0.5	.	.	15	7.8	35	18.2	
			Chemotherapy, no radiation	13	13	.	.	13	.	.	.	1	7.7	.	.	.	.	.	.	.	.	.	.	.	.	.	1	7.7
			Radiation, no chemotherapy	351	342	9	.	337	96.0	3	0.9	38	10.8	11	3.1	6	1.7	18	5.1	3	0.9	7	2.0	41	11.7	60	17.1	
			Chemotherapy and radiation	188	185	2	1	185	98.9	2	1.1	14	7.5	7	3.7	5	2.7	13	7.0	2	1.1	3	1.6	21	11.2	27	14.4	
			Unknown	7	2	4	1	1	16.7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	16.7

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

## Surgery: Astrocytomas

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
<a href="#">Astrocytomas</a>	Both sexes	All cases	1055	1021	28	6	986	94.0	7	0.7	116	11.1	19	1.8	17	1.6	51	4.9	13	1.2	14	1.3	85	8.1	191	18.2	
		Age at baseline	<18	305	289	15	1	275	90.5	2	0.7	46	15.1	5	1.6	5	1.6	22	7.2	5	1.6	6	2.0	36	11.8	50	16.4
			18-19	89	87	2	.	84	94.4	.	.	13	14.6	2	2.2	1	1.1	6	6.7	.	.	1	1.1	5	5.6	9	10.1
			20-24	247	241	5	1	233	94.7	2	0.8	26	10.6	5	2.0	5	2.0	6	2.4	3	1.2	2	0.8	15	6.1	47	19.1
			25-29	217	210	5	2	203	94.4	2	0.9	17	7.9	4	1.9	4	1.9	10	4.7	5	2.3	2	0.9	19	8.8	45	20.9
			30-34	135	133	1	1	133	99.3	1	0.7	11	8.2	2	1.5	1	0.7	6	4.5	.	.	2	1.5	5	3.7	25	18.7
			35+	62	61	.	1	58	95.1	.	.	3	4.9	1	1.6	1	1.6	1	1.6	.	.	1	1.6	5	8.2	15	24.6
		Years since diagnosis	5-9	164	157	7	.	150	91.5	1	0.6	15	9.1	5	3.0	2	1.2	13	7.9	3	1.8	3	1.8	9	5.5	31	18.9
			10-14	427	411	14	2	402	94.6	4	0.9	45	10.6	4	0.9	5	1.2	18	4.2	4	0.9	8	1.9	38	8.9	49	11.5
			15-19	247	241	4	2	233	95.1	1	0.4	34	13.9	5	2.0	5	2.0	13	5.3	3	1.2	2	0.8	17	6.9	45	18.4
			20+	217	212	3	2	201	93.5	1	0.5	22	10.2	5	2.3	5	2.3	7	3.3	3	1.4	1	0.5	21	9.8	66	30.7
		Age at diagnosis	<1	62	59	3	.	55	88.7	.	.	13	21.0	1	1.6	4	6.5	7	11.3	.	.	.	.	10	16.1	12	19.4
			1-4	325	311	13	1	293	90.4	1	0.3	55	17.0	8	2.5	6	1.9	19	5.9	10	3.1	6	1.9	37	11.4	69	21.3
			5-9	295	283	10	2	275	93.9	4	1.4	26	8.9	4	1.4	2	0.7	11	3.8	.	.	3	1.0	20	6.8	50	17.1
			10-14	262	258	2	2	256	98.5	2	0.8	15	5.8	4	1.5	4	1.5	12	4.6	1	0.4	1	0.4	13	5.0	49	18.8
			15-20	111	110	.	1	107	97.3	.	.	7	6.4	2	1.8	1	0.9	2	1.8	2	1.8	4	3.6	5	4.5	11	10.0
		Treatment	Surgery only	369	369	.	.	355	96.2	.	.	43	11.7	5	1.4	4	1.1	7	1.9	4	1.1	2	0.5	22	6.0	67	18.2
			Chemotherapy, no radiation	17	17	.	.	16	94.1	.	.	1	5.9	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Radiation, no chemotherapy	455	439	15	1	422	93.0	5	1.1	51	11.2	10	2.2	8	1.8	24	5.3	7	1.5	7	1.5	42	9.3	92	20.3
			Chemotherapy and radiation	200	194	6	.	192	96.0	2	1.0	21	10.5	4	2.0	5	2.5	20	10.0	2	1.0	5	2.5	21	10.5	31	15.5
			Unknown	14	2	7	5	1	11.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	11.1
	Males	All cases	561	541	15	5	517	93.0	5	0.9	61	11.0	8	1.4	9	1.6	30	5.4	8	1.4	8	1.4	43	7.7	106	19.1	
		Age at baseline	<18	161	154	7	.	142	88.2	2	1.2	26	16.1	2	1.2	2	1.2	13	8.1	3	1.9	5	3.1	16	9.9	30	18.6
			18-19	51	49	2	.	46	90.2	.	.	8	15.7	2	3.9	1	2.0	2	3.9	.	.	1	2.0	3	5.9	5	9.8
			20-24	121	118	2	1	113	94.2	2	1.7	12	10.0	2	1.7	3	2.5	5	4.2	2	1.7	2	1.7	6	5.0	21	17.5
			25-29	128	123	3	2	120	95.2	1	0.8	7	5.6	2	1.6	2	1.6	7	5.6	3	2.4	.	.	13	10.3	30	23.8
			30-34	68	66	1	1	66	98.5	.	.	6	9.0	.	.	1	1.5	2	3.0	.	.	.	.	2	3.0	11	16.4
			35+	32	31	.	1	30	96.8	.	.	2	6.5	.	.	.	.	1	3.2	.	.	.	.	3	9.7	9	29.0
		Years since diagnosis	5-9	90	87	3	.	82	91.1	1	1.1	12	13.3	3	3.3	2	2.2	9	10.0	2	2.2	1	1.1	6	6.7	18	20.0

			10-14	230	222	7	1	213	93.0	3	1.3	25	10.9	3	1.3	2	0.9	11	4.8	3	1.3	6	2.6	19	8.3	31	13.5	
			15-19	127	123	2	2	117	93.6	1	0.8	14	11.2	1	0.8	1	0.8	6	4.8	1	0.8	1	0.8	9	7.2	28	22.4	
			20+	114	109	3	2	105	93.8	.	.	10	8.9	1	0.9	4	3.6	4	3.6	2	1.8	.	.	9	8.0	29	25.9	
		<b>Age at diagnosis</b>	<1	33	31	2	.	28	84.8	.	.	5	15.2	.	.	3	9.1	5	15.2	.	.	.	.	2	6.1	6	18.2	
			1-4	169	164	5	.	152	89.9	1	0.6	31	18.3	3	1.8	3	1.8	9	5.3	6	3.6	5	3.0	18	10.7	34	20.1	
			5-9	158	148	8	2	141	90.4	4	2.6	14	9.0	3	1.9	1	0.6	9	5.8	.	.	3	1.9	11	7.1	29	18.6	
			10-14	140	138	.	2	137	99.3	.	.	6	4.3	.	.	2	1.4	5	3.6	1	0.7	.	.	8	5.8	30	21.7	
			15-20	61	60	.	1	59	98.3	.	.	5	8.3	2	3.3	.	.	2	3.3	1	1.7	.	.	4	6.7	7	11.7	
		<b>Treatment</b>	Surgery only	198	198	.	.	191	96.5	.	.	18	9.1	4	2.0	3	1.5	5	2.5	4	2.0	2	1.0	8	4.0	36	18.2	
			Chemotherapy, no radiation	8	8	.	.	7	87.5	.	.	1	12.5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Radiation, no chemotherapy	224	216	7	1	203	91.0	3	1.3	27	12.1	1	0.4	2	0.9	10	4.5	4	1.8	3	1.3	20	9.0	50	22.4	
			Chemotherapy and radiation	122	117	5	.	115	94.3	2	1.6	15	12.3	3	2.5	4	3.3	15	12.3	.	.	3	2.5	15	12.3	19	15.6	
			Unknown	9	2	3	4	1	20.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	20.0	
	<b>Females</b>	<b>All cases</b>		<b>494</b>	<b>480</b>	<b>13</b>	<b>1</b>	<b>469</b>	<b>95.1</b>	<b>2</b>	<b>0.4</b>	<b>55</b>	<b>11.2</b>	<b>11</b>	<b>2.2</b>	<b>8</b>	<b>1.6</b>	<b>21</b>	<b>4.3</b>	<b>5</b>	<b>1.0</b>	<b>6</b>	<b>1.2</b>	<b>42</b>	<b>8.5</b>	<b>85</b>	<b>17.2</b>	
		<b>Age at baseline</b>	<18	144	135	8	1	133	93.0	.	.	20	14.0	3	2.1	3	2.1	9	6.3	2	1.4	1	0.7	20	14.0	20	14.0	
			18-19	38	38	.	.	38	.	.	.	5	13.2	.	.	.	.	4	10.5	.	.	.	.	2	5.3	4	10.5	
			20-24	126	123	3	.	120	95.2	.	.	14	11.1	3	2.4	2	1.6	1	0.8	1	0.8	.	.	9	7.1	26	20.6	
			25-29	89	87	2	.	83	93.3	1	1.1	10	11.2	2	2.2	2	2.2	3	3.4	2	2.2	2	2.2	6	6.7	15	16.9	
			30-34	67	67	.	.	67	.	1	1.5	5	7.5	2	3.0	.	.	4	6.0	.	.	2	3.0	3	4.5	14	20.9	
			35+	30	30	.	.	28	93.3	.	.	1	3.3	1	3.3	1	3.3	.	.	.	.	1	3.3	2	6.7	6	20.0	
		<b>Years since diagnosis</b>	5-9	74	70	4	.	68	91.9	.	.	3	4.1	2	2.7	.	.	4	5.4	1	1.4	2	2.7	3	4.1	13	17.6	
			10-14	197	189	7	1	189	96.4	1	0.5	20	10.2	1	0.5	3	1.5	7	3.6	1	0.5	2	1.0	19	9.7	18	9.2	
			15-19	120	118	2	.	116	96.7	.	.	20	16.7	4	3.3	4	3.3	7	5.8	2	1.7	1	0.8	8	6.7	17	14.2	
			20+	103	103	.	.	96	93.2	1	1.0	12	11.7	4	3.9	1	1.0	3	2.9	1	1.0	1	1.0	12	11.7	37	35.9	
		<b>Age at diagnosis</b>	<1	29	28	1	.	27	93.1	.	.	8	27.6	1	3.4	1	3.4	2	6.9	.	.	.	.	8	27.6	6	20.7	
			1-4	156	147	8	1	141	91.0	.	.	24	15.5	5	3.2	3	1.9	10	6.5	4	2.6	1	0.6	19	12.3	35	22.6	
			5-9	137	135	2	.	134	97.8	.	.	12	8.8	1	0.7	1	0.7	2	1.5	.	.	.	.	9	6.6	21	15.3	
			10-14	122	120	2	.	119	97.5	2	1.6	9	7.4	4	3.3	2	1.6	7	5.7	.	.	1	0.8	5	4.1	19	15.6	
			15-20	50	50	.	.	48	96.0	.	.	2	4.0	.	.	1	2.0	.	.	1	2.0	4	8.0	1	2.0	4	8.0	
		<b>Treatment</b>	Surgery only	171	171	.	.	164	95.9	.	.	25	14.6	1	0.6	1	0.6	2	1.2	.	.	.	.	14	8.2	31	18.1	
			Chemotherapy, no radiation	9	9	.	.	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Radiation, no chemotherapy	231	223	8	.	219	94.8	2	0.9	24	10.4	9	3.9	6	2.6	14	6.1	3	1.3	4	1.7	22	9.5	42	18.2	
			Chemotherapy and radiation	78	77	1	.	77	98.7	.	.	6	7.7	1	1.3	1	1.3	5	6.4	2	2.6	2	2.6	6	7.7	12	15.4	
			Unknown	5	.	4	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

## Surgery: Medulloblastoma/PNET

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery		Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
				<a href="#">Medulloblastoma/PNET</a>	Both sexes	All cases	344	343	1	341	99.4	4	1.2	31	9.0	12	3.5	6	1.7	26	7.6	1	0.3	4	1.2	31
		Age at baseline	<18	123	122	1	122	.	2	1.6	15	12.3	5	4.1	4	3.3	16	13.1	.	.	1	0.8	19	15.6	25	20.5
			18-19	27	27	.	27	.	.	3	11.1	.	.	.	.	1	3.7	.	.	.	.	2	7.4	6	22.2	
			20-24	85	85	.	84	98.8	2	2.4	6	7.1	5	5.9	1	1.2	4	4.7	.	.	1	1.2	4	4.7	10	11.8
			25-29	69	69	.	68	98.6	.	.	5	7.2	2	2.9	.	.	2	2.9	1	1.4	1	1.4	4	5.8	8	11.6
			30-34	33	33	.	33	.	.	2	6.1	.	.	1	3.0	3	9.1	.	.	1	3.0	2	6.1	11	33.3	
			35+	7	7	.	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	28.6	
		Years since diagnosis	5-9	74	73	1	73	.	.	9	12.3	6	8.2	4	5.5	12	16.4	.	.	1	1.4	8	11.0	17	23.3	
			10-14	127	127	.	127	.	4	3.1	9	7.1	2	1.6	2	1.6	8	6.3	.	.	1	0.8	15	11.8	16	12.6
			15-19	107	107	.	105	98.1	.	.	11	10.3	2	1.9	.	.	2	1.9	.	.	.	.	6	5.6	18	16.8
			20+	36	36	.	36	.	.	2	5.6	2	5.6	.	.	4	11.1	1	2.8	2	5.6	2	5.6	11	30.6	
		Age at diagnosis	<1	10	10	.	10	.	.	1	10.0	1	10.0	.	.	.	.	.	.	.	.	.	.	.	1	10.0
			1-4	103	103	.	102	99.0	2	1.9	16	15.5	2	1.9	2	1.9	8	7.8	.	.	1	1.0	17	16.5	21	20.4
			5-9	137	136	1	136	.	1	0.7	9	6.6	6	4.4	2	1.5	14	10.3	1	0.7	3	2.2	10	7.4	21	15.4
			10-14	70	70	.	69	98.6	1	1.4	2	2.9	2	2.9	.	.	3	4.3	.	.	.	.	3	4.3	17	24.3
			15-20	24	24	.	24	.	.	3	12.5	1	4.2	2	8.3	1	4.2	.	.	.	.	1	4.2	2	8.3	
		Treatment	Surgery only	3	3	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Chemotherapy, no radiation	6	6	.	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	16.7
			Radiation, no chemotherapy	137	137	.	136	99.3	2	1.5	16	11.7	1	0.7	.	.	7	5.1	1	0.7	1	0.7	15	10.9	30	21.9
			Chemotherapy and radiation	196	195	1	195	.	2	1.0	15	7.7	11	5.6	6	3.1	19	9.7	.	.	3	1.5	16	8.2	30	15.4
			Unknown	2	2	.	1	50.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	50.0
	Males	All cases		203	203	.	202	99.5	3	1.5	16	7.9	7	3.4	3	1.5	16	7.9	1	0.5	4	2.0	12	5.9	38	18.7
		Age at baseline	<18	76	76	.	76	.	2	2.6	6	7.9	3	3.9	2	2.6	10	13.2	.	.	1	1.3	9	11.8	15	19.7
			18-19	15	15	.	15	.	.	2	13.3	.	.	.	.	1	6.7	.	.	.	.	2	13.3	2	13.3	
			20-24	50	50	.	49	98.0	1	2.0	3	6.0	3	6.0	1	2.0	1	2.0	.	.	1	2.0	.	.	6	12.0
			25-29	38	38	.	38	.	.	4	10.5	1	2.6	.	.	2	5.3	1	2.6	1	2.6	1	2.6	4	10.5	
			30-34	20	20	.	20	.	.	1	5.0	.	.	.	.	2	10.0	.	.	1	5.0	.	.	9	45.0	
			35+	4	4	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	50.0
		Years since diagnosis	5-9	48	48	.	48	.	.	4	8.3	4	8.3	3	6.3	8	16.7	.	.	1	2.1	4	8.3	12	25.0	
			10-14	68	68	.	68	.	3	4.4	4	5.9	.	.	.	.	3	4.4	.	.	1	1.5	8	11.8	5	7.4

			15-19	67	67	.	66	98.5	.	.	7	10.4	2	3.0	.	.	2	3.0	.	.	.	.	.	.	14	20.9	
			20+	20	20	.	20	.	.	.	1	5.0	1	5.0	.	.	3	15.0	1	5.0	2	10.0	.	.	7	35.0	
		<b>Age at diagnosis</b>	<1	9	9	.	9	.	.	.	1	11.1	1	11.1	.	.	.	.	.	.	.	.	.	.	1	11.1	
			1-4	59	59	.	58	98.3	2	3.4	7	11.9	1	1.7	.	.	5	8.5	.	.	1	1.7	6	10.2	12	20.3	
			5-9	83	83	.	83	.	1	1.2	5	6.0	4	4.8	2	2.4	9	10.8	1	1.2	3	3.6	5	6.0	11	13.3	
			10-14	38	38	.	38	.	.	.	1	2.6	1	2.6	.	.	2	5.3	.	.	.	.	.	.	12	31.6	
			15-20	14	14	.	14	.	.	.	2	14.3	.	.	1	7.1	.	.	.	.	.	.	.	1	7.1	2	14.3
		<b>Treatment</b>	Surgery only	3	3	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Chemotherapy, no radiation	3	3	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	33.3	
			Radiation, no chemotherapy	73	73	.	72	98.6	2	2.7	7	9.6	1	1.4	.	.	4	5.5	1	1.4	1	1.4	6	8.2	17	23.3	
			Chemotherapy and radiation	124	124	.	124	.	1	0.8	9	7.3	6	4.8	3	2.4	12	9.7	.	.	3	2.4	6	4.8	20	16.1	
	<b>Females</b>	<b>All cases</b>		<b>141</b>	<b>140</b>		<b>1</b>	<b>139</b>	<b>99.3</b>	<b>1</b>	<b>0.7</b>	<b>15</b>	<b>10.7</b>	<b>5</b>	<b>3.6</b>	<b>3</b>	<b>2.1</b>	<b>10</b>	<b>7.1</b>	.	.	.	.	<b>19</b>	<b>13.6</b>	<b>24</b>	<b>17.1</b>
		<b>Age at baseline</b>	<18	47	46	1	46	.	.	.	9	19.6	2	4.3	2	4.3	6	13.0	.	.	.	.	.	10	21.7	10	21.7
			18-19	12	12	.	12	.	.	.	1	8.3	.	.	.	.	.	.	.	.	.	.	.	.	4	33.3	
			20-24	35	35	.	35	.	1	2.9	3	8.6	2	5.7	.	.	3	8.6	.	.	.	.	.	4	11.4	4	11.4
			25-29	31	31	.	30	96.8	.	.	1	3.2	1	3.2	.	.	.	.	.	.	.	.	.	3	9.7	4	12.9
			30-34	13	13	.	13	.	.	.	1	7.7	.	.	1	7.7	1	7.7	.	.	.	.	.	2	15.4	2	15.4
			35+	3	3	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		<b>Years since diagnosis</b>	5-9	26	25	1	25	.	.	.	5	20.0	2	8.0	1	4.0	4	16.0	.	.	.	.	.	4	16.0	5	20.0
			10-14	59	59	.	59	.	1	1.7	5	8.5	2	3.4	2	3.4	5	8.5	.	.	.	.	.	7	11.9	11	18.6
			15-19	40	40	.	39	97.5	.	.	4	10.0	.	.	.	.	.	.	.	.	.	.	.	6	15.0	4	10.0
			20+	16	16	.	16	.	.	.	1	6.3	1	6.3	.	.	1	6.3	.	.	.	.	.	2	12.5	4	25.0
		<b>Age at diagnosis</b>	<1	1	1	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			1-4	44	44	.	44	.	.	.	9	20.5	1	2.3	2	4.5	3	6.8	.	.	.	.	.	11	25.0	9	20.5
			5-9	54	53	1	53	.	.	.	4	7.5	2	3.8	.	.	5	9.4	.	.	.	.	.	5	9.4	10	18.9
			10-14	32	32	.	31	96.9	1	3.1	1	3.1	1	3.1	.	.	1	3.1	.	.	.	.	.	3	9.4	5	15.6
			15-20	10	10	.	10	.	.	.	1	10.0	1	10.0	1	10.0	1	10.0	.	.	.	.	.	.	.	.	.
		<b>Treatment</b>	Chemotherapy, no radiation	3	3	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Radiation, no chemotherapy	64	64	.	64	.	.	.	9	14.1	.	.	.	.	3	4.7	.	.	.	.	.	9	14.1	13	20.3
			Chemotherapy and radiation	72	71	1	71	.	1	1.4	6	8.5	5	7.0	3	4.2	7	9.9	.	.	.	.	.	10	14.1	10	14.1
			Unknown	2	2	.	1	50.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	50.0	

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction  
 Surgery groups based on classification of ICD9-CM codes  
 Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

## Surgery: Hodgkin

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
<a href="#">Hodgkin</a>	Both sexes	All cases	1675	1636	35	4	29	1.7	67	4.0	87	5.2	261	15.6	1578	94.4	1332	79.7	28	1.7	302	18.1	313	18.7	187	11.2	
		Age at baseline	<18	44	43	1	.	.	.	1	2.3	4	9.1	3	6.8	42	95.5	32	72.7	.	.	1	2.3	2	4.5	3	6.8
			18-19	38	38	.	.	.	.	4	10.5	2	5.3	6	15.8	37	97.4	31	81.6	2	5.3	4	10.5	9	23.7	3	7.9
			20-24	226	221	4	1	3	1.3	5	2.2	10	4.4	47	20.9	212	94.2	165	73.3	4	1.8	27	12.0	37	16.4	17	7.6
			25-29	422	413	8	1	11	2.6	9	2.1	27	6.4	72	17.1	399	94.8	331	78.6	5	1.2	64	15.2	90	21.4	35	8.3
			30-34	474	463	10	1	14	3.0	21	4.4	26	5.5	73	15.4	446	94.3	381	80.5	8	1.7	107	22.6	106	22.4	46	9.7
			35+	471	458	12	1	1	0.2	27	5.7	18	3.8	60	12.8	442	94.0	392	83.4	9	1.9	99	21.1	69	14.7	83	17.7
		Years since diagnosis	5-9	193	187	6	.	1	0.5	4	2.1	8	4.1	44	22.8	179	92.7	138	71.5	4	2.1	21	10.9	24	12.4	16	8.3
			10-14	523	512	9	2	11	2.1	16	3.1	19	3.6	93	17.9	484	92.9	396	76.0	9	1.7	86	16.5	96	18.4	45	8.6
			15-19	492	482	8	2	10	2.0	20	4.1	35	7.1	75	15.3	473	96.5	407	83.1	7	1.4	106	21.6	105	21.4	55	11.2
			20+	467	455	12	.	7	1.5	27	5.8	25	5.4	49	10.5	442	94.6	391	83.7	8	1.7	89	19.1	88	18.8	71	15.2
		Age at diagnosis	1-4	47	46	1	.	.	.	2	4.3	5	10.6	1	2.1	45	95.7	36	76.6	1	2.1	5	10.6	12	25.5	3	6.4
			5-9	211	207	4	.	7	3.3	11	5.2	20	9.5	23	10.9	204	96.7	171	81.0	2	0.9	27	12.8	40	19.0	22	10.4
			10-14	577	567	9	1	11	1.9	24	4.2	31	5.4	98	17.0	551	95.7	470	81.6	9	1.6	104	18.1	128	22.2	53	9.2
			15-20	840	816	21	3	11	1.3	30	3.6	31	3.7	139	16.6	778	93.0	655	78.3	16	1.9	166	19.8	133	15.9	109	13.0
		Treatment	Chemotherapy, no radiation	98	92	6	.	1	1.0	5	5.1	1	1.0	20	20.4	86	87.8	52	53.1	2	2.0	12	12.2	19	19.4	3	3.1
			Radiation, no chemotherapy	548	543	5	.	4	0.7	22	4.0	34	6.2	44	8.0	522	95.3	483	88.1	8	1.5	107	19.5	89	16.2	73	13.3
			Chemotherapy and radiation	1024	998	24	2	24	2.3	40	3.9	52	5.1	197	19.3	970	94.9	797	78.0	18	1.8	183	17.9	205	20.1	111	10.9
			Unknown	5	3	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	Males	All cases	891	865	24	2	19	2.1	18	2.0	57	6.4	135	15.2	835	93.9	689	77.5	14	1.6	34	3.8	152	17.1	101	11.4	
		Age at baseline	<18	34	33	1	.	.	.	1	2.9	4	11.8	2	5.9	32	94.1	24	70.6	.	.	.	.	1	2.9	3	8.8
			18-19	31	31	.	.	.	.	3	9.7	2	6.5	3	9.7	30	96.8	25	80.6	1	3.2	.	.	8	25.8	3	9.7
			20-24	144	139	4	1	3	2.1	1	0.7	9	6.3	27	18.9	131	91.6	102	71.3	2	1.4	5	3.5	24	16.8	12	8.4
			25-29	244	239	5	.	9	3.7	5	2.0	22	9.0	38	15.6	234	95.9	188	77.0	4	1.6	12	4.9	49	20.1	21	8.6
			30-34	237	229	7	1	7	3.0	4	1.7	13	5.5	40	16.9	222	94.1	179	75.8	3	1.3	8	3.4	45	19.1	24	10.2
			35+	201	194	7	.	.	.	4	2.0	7	3.5	25	12.4	186	92.5	171	85.1	4	2.0	9	4.5	25	12.4	38	18.9
		Years since diagnosis	5-9	115	110	5	.	1	0.9	3	2.6	7	6.1	24	20.9	104	90.4	80	69.6	3	2.6	2	1.7	14	12.2	10	8.7
			10-14	281	274	6	1	8	2.9	4	1.4	13	4.6	49	17.5	260	92.9	205	73.2	4	1.4	5	1.8	46	16.4	29	10.4
			15-19	270	264	5	1	6	2.2	5	1.9	23	8.6	41	15.2	260	96.7	215	79.9	4	1.5	13	4.8	58	21.6	30	11.2



			20+	225	217	8	.	4	1.8	6	2.7	14	6.2	21	9.3	211	93.8	189	84.0	3	1.3	14	6.2	34	15.1	32	14.2	
		<b>Age at diagnosis</b>	1-4	36	35	1	.	.	.	1	2.8	4	11.1	.	.	34	94.4	26	72.2	.	.	1	2.8	9	25.0	2	5.6	
			5-9	156	153	3	.	7	4.5	6	3.8	20	12.8	14	9.0	151	96.8	122	78.2	1	0.6	9	5.8	29	18.6	18	11.5	
			10-14	297	288	8	1	7	2.4	6	2.0	17	5.7	47	15.9	279	94.3	233	78.7	6	2.0	14	4.7	55	18.6	28	9.5	
			15-20	402	389	12	1	5	1.2	5	1.2	16	4.0	74	18.5	371	92.5	308	76.8	7	1.7	10	2.5	59	14.7	53	13.2	
		<b>Treatment</b>	Chemotherapy, no radiation	52	49	3	.	.	.	.	.	1	1.9	9	17.3	44	84.6	28	53.8	.	.	1	1.9	10	19.2	2	3.8	
			Radiation, no chemotherapy	285	281	4	.	3	1.1	5	1.8	21	7.4	20	7.0	272	95.4	241	84.6	5	1.8	10	3.5	51	17.9	32	11.2	
			Chemotherapy and radiation	552	534	17	1	16	2.9	13	2.4	35	6.4	106	19.2	519	94.2	420	76.2	9	1.6	23	4.2	91	16.5	67	12.2	
			Unknown	2	1	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	<b>Females</b>	<b>All cases</b>		<b>784</b>	<b>771</b>	<b>11</b>	<b>2</b>	<b>10</b>	<b>1.3</b>	<b>49</b>	<b>6.3</b>	<b>30</b>	<b>3.8</b>	<b>126</b>	<b>16.1</b>	<b>743</b>	<b>95.0</b>	<b>643</b>	<b>82.2</b>	<b>14</b>	<b>1.8</b>	<b>268</b>	<b>34.3</b>	<b>161</b>	<b>20.6</b>	<b>86</b>	<b>11.0</b>	
		<b>Age at baseline</b>	<18	10	10	.	.	.	.	.	.	.	.	1	10.0	10	.	8	80.0	.	.	1	10.0	1	10.0	.	.	
			18-19	7	7	.	.	.	.	1	14.3	.	.	3	42.9	7	.	6	85.7	1	14.3	4	57.1	1	14.3	.	.	
			20-24	82	82	.	.	.	.	4	4.9	1	1.2	20	24.4	81	98.8	63	76.8	2	2.4	22	26.8	13	15.9	5	6.1	
			25-29	178	174	3	1	2	1.1	4	2.3	5	2.8	34	19.2	165	93.2	143	80.8	1	0.6	52	29.4	41	23.2	14	7.9	
			30-34	237	234	3	.	7	3.0	17	7.2	13	5.5	33	13.9	224	94.5	202	85.2	5	2.1	99	41.8	61	25.7	22	9.3	
			35+	270	264	5	1	1	0.4	23	8.6	11	4.1	35	13.0	256	95.2	221	82.2	5	1.9	90	33.5	44	16.4	45	16.7	
		<b>Years since diagnosis</b>	5-9	78	77	1	.	.	.	1	1.3	1	1.3	20	25.6	75	96.2	58	74.4	1	1.3	19	24.4	10	12.8	6	7.7	
			10-14	242	238	3	1	3	1.2	12	5.0	6	2.5	44	18.3	224	92.9	191	79.3	5	2.1	81	33.6	50	20.7	16	6.6	
			15-19	222	218	3	1	4	1.8	15	6.8	12	5.4	34	15.4	213	96.4	192	86.9	3	1.4	93	42.1	47	21.3	25	11.3	
			20+	242	238	4	.	3	1.2	21	8.7	11	4.5	28	11.6	231	95.5	202	83.5	5	2.1	75	31.0	54	22.3	39	16.1	
		<b>Age at diagnosis</b>	1-4	11	11	.	.	.	.	1	9.1	1	9.1	1	9.1	11	.	10	90.9	1	9.1	4	36.4	3	27.3	1	9.1	
			5-9	55	54	1	.	.	.	5	9.1	.	.	9	16.4	53	96.4	49	89.1	1	1.8	18	32.7	11	20.0	4	7.3	
			10-14	280	279	1	.	4	1.4	18	6.4	14	5.0	51	18.2	272	97.1	237	84.6	3	1.1	90	32.1	73	26.1	25	8.9	
			15-20	438	427	9	2	6	1.4	25	5.7	15	3.4	65	14.9	407	93.3	347	79.6	9	2.1	156	35.8	74	17.0	56	12.8	
		<b>Treatment</b>	Chemotherapy, no radiation	46	43	3	.	1	2.2	5	10.9	.	.	11	23.9	42	91.3	24	52.2	2	4.3	11	23.9	9	19.6	1	2.2	
			Radiation, no chemotherapy	263	262	1	.	1	0.4	17	6.5	13	4.9	24	9.1	250	95.1	242	92.0	3	1.1	97	36.9	38	14.4	41	15.6	
			Chemotherapy and radiation	472	464	7	1	8	1.7	27	5.7	17	3.6	91	19.3	451	95.8	377	80.0	9	1.9	160	34.0	114	24.2	44	9.3	
			Unknown	3	2	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: NHL

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
				<a href="#">NHL</a>	Both sexes	All cases	925	866	57	2	43	4.7	22	2.4	152	16.5	148	16.0	506	54.8	318	34.5	36	3.9	86	9.3	203
		Age at baseline	<18	144	136	8	.	12	8.3	1	0.7	33	22.9	23	16.0	62	43.1	52	36.1	10	6.9	9	6.3	25	17.4	8	5.6
			18-19	76	70	6	.	2	2.6	4	5.3	15	19.7	10	13.2	36	47.4	30	39.5	3	3.9	9	11.8	13	17.1	3	3.9
			20-24	198	187	11	.	11	5.6	5	2.5	30	15.2	30	15.2	113	57.1	63	31.8	5	2.5	16	8.1	44	22.2	9	4.5
			25-29	227	215	11	1	11	4.9	2	0.9	38	16.8	40	17.7	121	53.5	75	33.2	15	6.6	28	12.4	56	24.8	10	4.4
			30-34	182	168	14	.	6	3.3	7	3.8	24	13.2	34	18.7	108	59.3	59	32.4	1	0.5	13	7.1	42	23.1	8	4.4
			35+	98	90	7	1	1	1.0	3	3.1	12	12.4	11	11.3	66	68.0	39	40.2	2	2.1	11	11.3	23	23.7	9	9.3
		Years since diagnosis	5-9	110	105	5	.	6	5.5	3	2.7	19	17.3	19	17.3	65	59.1	34	30.9	3	2.7	9	8.2	14	12.7	6	5.5
			10-14	358	335	22	1	23	6.4	6	1.7	62	17.4	65	18.2	173	48.5	114	31.9	21	5.9	36	10.1	89	24.9	16	4.5
			15-19	278	258	20	.	9	3.2	7	2.5	40	14.4	43	15.5	154	55.4	94	33.8	9	3.2	25	9.0	64	23.0	11	4.0
			20+	179	168	10	1	5	2.8	6	3.4	31	17.4	21	11.8	114	64.0	76	42.7	3	1.7	16	9.0	36	20.2	14	7.9
		Age at diagnosis	<1	8	6	2	.	.	.	.	.	1	12.5	2	25.0	1	12.5	1	12.5	1	12.5	.	.	3	37.5	2	25.0
			1-4	150	140	10	.	8	5.3	4	2.7	32	21.3	22	14.7	68	45.3	60	40.0	8	5.3	9	6.0	32	21.3	4	2.7
			5-9	280	266	14	.	16	5.7	8	2.9	52	18.6	34	12.1	152	54.3	99	35.4	16	5.7	25	8.9	46	16.4	12	4.3
			10-14	282	266	15	1	10	3.6	5	1.8	44	15.7	47	16.7	163	58.0	99	35.2	5	1.8	32	11.4	61	21.7	15	5.3
			15-20	205	188	16	1	9	4.4	5	2.5	23	11.3	43	21.1	122	59.8	59	28.9	6	2.9	20	9.8	61	29.9	14	6.9
		Treatment	Surgery only	12	12	.	.	.	.	1	8.3	1	8.3	.	.	5	41.7	5	41.7	.	.	.	.	6	50.0	1	8.3
			Chemotherapy, no radiation	276	254	22	.	10	3.6	2	0.7	34	12.3	37	13.4	151	54.7	122	44.2	10	3.6	24	8.7	41	14.9	9	3.3
			Radiation, no chemotherapy	37	32	5	.	3	8.1	1	2.7	7	18.9	3	8.1	18	48.6	14	37.8	.	.	1	2.7	9	24.3	5	13.5
			Chemotherapy and radiation	598	567	30	1	30	5.0	18	3.0	110	18.4	108	18.1	332	55.6	176	29.5	26	4.4	61	10.2	147	24.6	32	5.4
			Unknown	2	1	.	1	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.
	Males	All cases		645	608	35	2	35	5.4	11	1.7	111	17.3	93	14.5	355	55.2	239	37.2	24	3.7	59	9.2	126	19.6	33	5.1
		Age at baseline	<18	101	97	4	.	11	10.9	.	.	24	23.8	12	11.9	44	43.6	40	39.6	8	7.9	7	6.9	15	14.9	1	1.0
			18-19	61	59	2	.	1	1.6	3	4.9	13	21.3	8	13.1	32	52.5	27	44.3	2	3.3	8	13.1	11	18.0	2	3.3
			20-24	136	129	7	.	10	7.4	.	.	22	16.2	21	15.4	82	60.3	51	37.5	4	2.9	15	11.0	27	19.9	9	6.6
			25-29	162	152	9	1	8	5.0	1	0.6	26	16.1	26	16.1	85	52.8	54	33.5	7	4.3	18	11.2	33	20.5	7	4.3
			30-34	122	112	10	.	4	3.3	4	3.3	19	15.6	20	16.4	70	57.4	43	35.2	1	0.8	10	8.2	27	22.1	6	4.9
			35+	63	59	3	1	1	1.6	3	4.8	7	11.3	6	9.7	42	67.7	24	38.7	2	3.2	1	1.6	13	21.0	8	12.9
		Years since diagnosis	5-9	84	80	4	.	4	4.8	2	2.4	13	15.5	15	17.9	52	61.9	29	34.5	2	2.4	8	9.5	8	9.5	3	3.6

			10-14	254	237	16		1	20	7.9	1	0.4	47	18.6	37	14.6	123	48.6	92	36.4	14	5.5	28	11.1	58	22.9	11	4.3	
			15-19	177	168	9		.	7	4.0	3	1.7	30	16.9	25	14.1	95	53.7	64	36.2	7	4.0	15	8.5	37	20.9	6	3.4	
			20+	130	123	6		1	4	3.1	5	3.9	21	16.3	16	12.4	85	65.9	54	41.9	1	0.8	8	6.2	23	17.8	13	10.1	
		<b>Age at diagnosis</b>	<1	3	3	.		.	.	.	.	.	.	.	.	.	1	33.3	.	.	.	.	.	.	2	66.7	.	.	
			1-4	103	100	3		.	7	6.8	1	1.0	26	25.2	15	14.6	48	46.6	46	44.7	6	5.8	7	6.8	17	16.5	2	1.9	
			5-9	204	194	10		.	14	6.9	6	2.9	35	17.2	21	10.3	107	52.5	80	39.2	12	5.9	22	10.8	33	16.2	8	3.9	
			10-14	202	191	10		1	8	4.0	1	0.5	36	17.9	35	17.4	123	61.2	73	36.3	2	1.0	19	9.5	39	19.4	13	6.5	
			15-20	133	120	12		1	6	4.5	3	2.3	14	10.6	22	16.7	76	57.6	40	30.3	4	3.0	11	8.3	35	26.5	10	7.6	
		<b>Treatment</b>	Surgery only	9	9	.		.	.	.	1	11.1	.	.	.	.	4	44.4	4	44.4	.	.	.	.	5	55.6	.	.	
			Chemotherapy, no radiation	205	189	16		.	9	4.4	.	.	27	13.2	22	10.7	113	55.1	94	45.9	8	3.9	16	7.8	25	12.2	5	2.4	
			Radiation, no chemotherapy	28	24	4		.	2	7.1	1	3.6	5	17.9	2	7.1	15	53.6	9	32.1	.	.	.	.	6	21.4	5	17.9	
			Chemotherapy and radiation	401	385	15		1	24	6.0	9	2.3	79	19.8	69	17.3	223	55.8	131	32.8	16	4.0	43	10.8	90	22.5	23	5.8	
			Unknown	2	1	.		1	.	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.
	<b>Females</b>	<b>All cases</b>		<b>280</b>	<b>258</b>	<b>22</b>		.	<b>8</b>	<b>2.9</b>	<b>11</b>	<b>3.9</b>	<b>41</b>	<b>14.6</b>	<b>55</b>	<b>19.6</b>	<b>151</b>	<b>53.9</b>	<b>79</b>	<b>28.2</b>	<b>12</b>	<b>4.3</b>	<b>27</b>	<b>9.6</b>	<b>77</b>	<b>27.5</b>	<b>14</b>	<b>5.0</b>	
		<b>Age at baseline</b>	<18	43	39	4		.	1	2.3	1	2.3	9	20.9	11	25.6	18	41.9	12	27.9	2	4.7	2	4.7	10	23.3	7	16.3	
			18-19	15	11	4		.	1	6.7	1	6.7	2	13.3	2	13.3	4	26.7	3	20.0	1	6.7	1	6.7	2	13.3	1	6.7	
			20-24	62	58	4		.	1	1.6	5	8.1	8	12.9	9	14.5	31	50.0	12	19.4	1	1.6	1	1.6	17	27.4	.	.	
			25-29	65	63	2		.	3	4.6	1	1.5	12	18.5	14	21.5	36	55.4	21	32.3	8	12.3	10	15.4	23	35.4	3	4.6	
			30-34	60	56	4		.	2	3.3	3	5.0	5	8.3	14	23.3	38	63.3	16	26.7	.	.	3	5.0	15	25.0	2	3.3	
			35+	35	31	4		.	.	.	.	.	5	14.3	5	14.3	24	68.6	15	42.9	.	.	10	28.6	10	28.6	1	2.9	
		<b>Years since diagnosis</b>	5-9	26	25	1		.	2	7.7	1	3.8	6	23.1	4	15.4	13	50.0	5	19.2	1	3.8	1	3.8	6	23.1	3	11.5	
			10-14	104	98	6		.	3	2.9	5	4.8	15	14.4	28	26.9	50	48.1	22	21.2	7	6.7	8	7.7	31	29.8	5	4.8	
			15-19	101	90	11		.	2	2.0	4	4.0	10	9.9	18	17.8	59	58.4	30	29.7	2	2.0	10	9.9	27	26.7	5	5.0	
			20+	49	45	4		.	1	2.0	1	2.0	10	20.4	5	10.2	29	59.2	22	44.9	2	4.1	8	16.3	13	26.5	1	2.0	
		<b>Age at diagnosis</b>	<1	5	3	2		.	.	.	.	.	1	20.0	2	40.0	.	.	1	20.0	1	20.0	.	.	1	20.0	2	40.0	
			1-4	47	40	7		.	1	2.1	3	6.4	6	12.8	7	14.9	20	42.6	14	29.8	2	4.3	2	4.3	15	31.9	2	4.3	
			5-9	76	72	4		.	2	2.6	2	2.6	17	22.4	13	17.1	45	59.2	19	25.0	4	5.3	3	3.9	13	17.1	4	5.3	
			10-14	80	75	5		.	2	2.5	4	5.0	8	10.0	12	15.0	40	50.0	26	32.5	3	3.8	13	16.3	22	27.5	2	2.5	
			15-20	72	68	4		.	3	4.2	2	2.8	9	12.5	21	29.2	46	63.9	19	26.4	2	2.8	9	12.5	26	36.1	4	5.6	
		<b>Treatment</b>	Surgery only	3	3	.		.	.	.	.	.	1	33.3	.	.	1	33.3	1	33.3	.	.	.	.	1	33.3	1	33.3	
			Chemotherapy, no radiation	71	65	6		.	1	1.4	2	2.8	7	9.9	15	21.1	38	53.5	28	39.4	2	2.8	8	11.3	16	22.5	4	5.6	
			Radiation, no chemotherapy	9	8	1		.	1	11.1	.	.	2	22.2	1	11.1	3	33.3	5	55.6	.	.	1	11.1	3	33.3	.	.	
			Chemotherapy and radiation	197	182	15		.	6	3.0	9	4.6	31	15.7	39	19.8	109	55.3	45	22.8	10	5.1	18	9.1	57	28.9	9	4.6	

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: Wilms

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery		Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
				<a href="#">Wilms</a>	Both sexes	All cases	1088	1086	2	18	1.7	193	17.7	70	6.4	128	11.8	613	56.3	576	52.9	1073	98.6	59	5.4	95
		Age at baseline	<18	523	523	.	9	1.7	88	16.8	35	6.7	62	11.9	307	58.7	283	54.1	516	98.7	20	3.8	29	5.5	17	3.3
			18-19	131	131	.	2	1.5	17	13.0	6	4.6	11	8.4	77	58.8	78	59.5	131	.	9	6.9	9	6.9	7	5.3
			20-24	249	247	2	6	2.4	46	18.5	20	8.0	29	11.6	135	54.2	122	49.0	245	98.4	14	5.6	28	11.2	12	4.8
			25-29	149	149	.	1	0.7	35	23.5	5	3.4	22	14.8	76	51.0	78	52.3	147	98.7	14	9.4	24	16.1	16	10.7
			30-34	28	28	.	.	.	6	21.4	3	10.7	3	10.7	16	57.1	11	39.3	26	92.9	.	.	4	14.3	1	3.6
			35+	8	8	.	.	.	1	12.5	1	12.5	1	12.5	2	25.0	4	50.0	8	.	2	25.0	1	12.5	.	.
		Years since diagnosis	5-9	145	145	.	3	2.1	20	13.8	12	8.3	24	16.6	91	62.8	84	57.9	143	98.6	7	4.8	11	7.6	10	6.9
			10-14	436	436	.	8	1.8	81	18.6	26	6.0	50	11.5	248	56.9	231	53.0	431	98.9	16	3.7	32	7.3	10	2.3
			15-19	279	279	.	5	1.8	39	14.0	20	7.2	26	9.3	155	55.6	144	51.6	276	98.9	21	7.5	24	8.6	15	5.4
			20+	228	226	2	2	0.9	53	23.2	12	5.3	28	12.3	119	52.2	117	51.3	223	97.8	15	6.6	28	12.3	18	7.9
		Age at diagnosis	<1	162	161	1	3	1.9	15	9.3	13	8.0	10	6.2	79	48.8	83	51.2	158	97.5	16	9.9	8	4.9	4	2.5
			1-4	659	658	1	9	1.4	124	18.8	41	6.2	76	11.5	386	58.6	350	53.1	653	99.1	26	3.9	53	8.0	33	5.0
			5-9	225	225	.	5	2.2	46	20.4	14	6.2	36	16.0	129	57.3	123	54.7	222	98.7	12	5.3	23	10.2	13	5.8
			10-14	30	30	.	.	.	7	23.3	.	.	5	16.7	16	53.3	14	46.7	29	96.7	2	6.7	10	33.3	3	10.0
			15-20	12	12	.	1	8.3	1	8.3	2	16.7	1	8.3	3	25.0	6	50.0	11	91.7	3	25.0	1	8.3	.	.
		Treatment	Surgery only	14	14	.	.	.	1	7.1	.	.	.	.	5	35.7	4	28.6	14	.	3	21.4	.	.	1	7.1
			Chemotherapy, no radiation	369	368	1	4	1.1	56	15.2	29	7.9	16	4.3	210	56.9	176	47.7	367	99.5	14	3.8	20	5.4	8	2.2
			Radiation, no chemotherapy	3	3	.	.	.	2	66.7	2	66.7	.	.	2	66.7	2	66.7	3	.	.	.	.	.	1	33.3
			Chemotherapy and radiation	701	700	1	14	2.0	134	19.1	39	5.6	112	16.0	396	56.5	393	56.1	688	98.1	42	6.0	75	10.7	43	6.1
			Unknown	1	1	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	.	.	.	.	.	.
	Males	All cases		502	501	1	9	1.8	94	18.7	34	6.8	63	12.5	292	58.2	256	51.0	494	98.4	41	8.2	46	9.2	24	4.8
		Age at baseline	<18	253	253	.	3	1.2	45	17.8	17	6.7	29	11.5	147	58.1	124	49.0	248	98.0	15	5.9	14	5.5	5	2.0
			18-19	58	58	.	1	1.7	9	15.5	3	5.2	6	10.3	39	67.2	35	60.3	58	.	6	10.3	3	5.2	4	6.9
			20-24	105	104	1	4	3.8	16	15.2	8	7.6	13	12.4	61	58.1	54	51.4	103	98.1	11	10.5	13	12.4	4	3.8
			25-29	75	75	.	1	1.3	22	29.3	5	6.7	12	16.0	40	53.3	35	46.7	74	98.7	9	12.0	14	18.7	11	14.7
			30-34	9	9	.	.	.	1	11.1	1	11.1	2	22.2	4	44.4	7	77.8	9	.	.	.	2	22.2	.	.
			35+	2	2	.	.	.	1	50.0	.	.	1	50.0	1	50.0	1	50.0	2	.	.	.	.	.	.	.
		Years since diagnosis	5-9	62	62	.	.	.	9	14.5	5	8.1	9	14.5	38	61.3	32	51.6	61	98.4	3	4.8	4	6.5	3	4.8

			10-14	207	207	.	3	1.4	40	19.3	13	6.3	26	12.6	119	57.5	104	50.2	204	98.6	13	6.3	14	6.8	4	1.9
			15-19	122	122	.	4	3.3	15	12.3	9	7.4	12	9.8	71	58.2	59	48.4	120	98.4	15	12.3	12	9.8	5	4.1
			20+	111	110	1	2	1.8	30	27.0	7	6.3	16	14.4	64	57.7	61	55.0	109	98.2	10	9.0	16	14.4	12	10.8
		<b>Age at diagnosis</b>	<1	87	86	1	1	1.1	8	9.2	6	6.9	1	1.1	42	48.3	42	48.3	84	96.6	13	14.9	4	4.6	1	1.1
			1-4	309	309	.	5	1.6	63	20.4	20	6.5	41	13.3	194	62.8	160	51.8	306	99.0	20	6.5	30	9.7	17	5.5
			5-9	90	90	.	3	3.3	20	22.2	8	8.9	16	17.8	49	54.4	46	51.1	88	97.8	6	6.7	8	8.9	5	5.6
			10-14	12	12	.	.	.	3	25.0	.	.	4	33.3	6	50.0	7	58.3	12	.	2	16.7	4	33.3	1	8.3
			15-20	4	4	.	.	.	.	.	.	.	1	25.0	1	25.0	1	25.0	4	.	.	.	.	.	.	.
		<b>Treatment</b>	Surgery only	7	7	.	.	.	.	.	.	.	.	.	3	42.9	2	28.6	7	.	2	28.6	.	.	1	14.3
			Chemotherapy, no radiation	179	178	1	.	.	23	12.8	14	7.8	5	2.8	101	56.4	77	43.0	178	99.4	9	5.0	12	6.7	2	1.1
			Chemotherapy and radiation	315	315	.	9	2.9	71	22.5	20	6.3	58	18.4	188	59.7	176	55.9	308	97.8	30	9.5	34	10.8	21	6.7
			Unknown	1	1	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	.	.	.	.	.	.
	<b>Females</b>	<b>All cases</b>		<b>586</b>	<b>585</b>	<b>1</b>	<b>9</b>	<b>1.5</b>	<b>99</b>	<b>16.9</b>	<b>36</b>	<b>6.1</b>	<b>65</b>	<b>11.1</b>	<b>321</b>	<b>54.8</b>	<b>320</b>	<b>54.6</b>	<b>579</b>	<b>98.8</b>	<b>18</b>	<b>3.1</b>	<b>49</b>	<b>8.4</b>	<b>29</b>	<b>4.9</b>
		<b>Age at baseline</b>	<18	270	270	.	6	2.2	43	15.9	18	6.7	33	12.2	160	59.3	159	58.9	268	99.3	5	1.9	15	5.6	12	4.4
			18-19	73	73	.	1	1.4	8	11.0	3	4.1	5	6.8	38	52.1	43	58.9	73	.	3	4.1	6	8.2	3	4.1
			20-24	144	143	1	2	1.4	30	20.8	12	8.3	16	11.1	74	51.4	68	47.2	142	98.6	3	2.1	15	10.4	8	5.6
			25-29	74	74	.	.	.	13	17.6	.	.	10	13.5	36	48.6	43	58.1	73	98.6	5	6.8	10	13.5	5	6.8
			30-34	19	19	.	.	.	5	26.3	2	10.5	1	5.3	12	63.2	4	21.1	17	89.5	.	.	2	10.5	1	5.3
			35+	6	6	.	.	.	.	.	1	16.7	.	.	1	16.7	3	50.0	6	.	2	33.3	1	16.7	.	.
		<b>Years since diagnosis</b>	5-9	83	83	.	3	3.6	11	13.3	7	8.4	15	18.1	53	63.9	52	62.7	82	98.8	4	4.8	7	8.4	7	8.4
			10-14	229	229	.	5	2.2	41	17.9	13	5.7	24	10.5	129	56.3	127	55.5	227	99.1	3	1.3	18	7.9	6	2.6
			15-19	157	157	.	1	0.6	24	15.3	11	7.0	14	8.9	84	53.5	85	54.1	156	99.4	6	3.8	12	7.6	10	6.4
			20+	117	116	1	.	.	23	19.7	5	4.3	12	10.3	55	47.0	56	47.9	114	97.4	5	4.3	12	10.3	6	5.1
		<b>Age at diagnosis</b>	<1	75	75	.	2	2.7	7	9.3	7	9.3	9	12.0	37	49.3	41	54.7	74	98.7	3	4.0	4	5.3	3	4.0
			1-4	350	349	1	4	1.1	61	17.4	21	6.0	35	10.0	192	54.9	190	54.3	347	99.1	6	1.7	23	6.6	16	4.6
			5-9	135	135	.	2	1.5	26	19.3	6	4.4	20	14.8	80	59.3	77	57.0	134	99.3	6	4.4	15	11.1	8	5.9
			10-14	18	18	.	.	.	4	22.2	.	.	1	5.6	10	55.6	7	38.9	17	94.4	.	.	6	33.3	2	11.1
			15-20	8	8	.	1	12.5	1	12.5	2	25.0	.	.	2	25.0	5	62.5	7	87.5	3	37.5	1	12.5	.	.
		<b>Treatment</b>	Surgery only	7	7	.	.	.	1	14.3	.	.	.	.	2	28.6	2	28.6	7	.	1	14.3	.	.	.	.
			Chemotherapy, no radiation	190	190	.	4	2.1	33	17.4	15	7.9	11	5.8	109	57.4	99	52.1	189	99.5	5	2.6	8	4.2	6	3.2
			Radiation, no chemotherapy	3	3	.	.	.	2	66.7	2	66.7	.	.	2	66.7	2	66.7	3	.	.	.	.	.	1	33.3
			Chemotherapy and radiation	386	385	1	5	1.3	63	16.3	19	4.9	54	14.0	208	53.9	217	56.2	380	98.4	12	3.1	41	10.6	22	5.7

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

## Surgery: Neuroblastoma

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
				<a href="#">Neuroblastoma</a>	Both sexes	All cases	833	816	16	1	126	15.1	201	24.2	93	11.2	271	32.6	324	38.9	458	55.0	115	13.8	27	3.2	199
		Age at baseline	<18	480	471	9	.	67	14.0	119	24.8	56	11.7	152	31.7	207	43.1	271	56.5	64	13.3	11	2.3	109	22.7	48	10.0
			18-19	96	95	1	.	15	15.6	22	22.9	14	14.6	32	33.3	32	33.3	47	49.0	13	13.5	4	4.2	22	22.9	6	6.3
			20-24	177	174	3	.	27	15.3	44	24.9	16	9.0	61	34.5	62	35.0	100	56.5	26	14.7	8	4.5	46	26.0	18	10.2
			25-29	59	57	2	.	13	22.0	13	22.0	4	6.8	18	30.5	18	30.5	33	55.9	9	15.3	3	5.1	17	28.8	4	6.8
			30-34	19	17	1	1	3	16.7	3	16.7	1	5.6	8	44.4	5	27.8	7	38.9	3	16.7	1	5.6	5	27.8	1	5.6
			35+	2	2	.	.	1	50.0	.	.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
		Years since diagnosis	5-9	98	98	.	.	15	15.3	27	27.6	10	10.2	31	31.6	56	57.1	61	62.2	17	17.3	.	.	17	17.3	16	16.3
			10-14	296	291	5	.	44	14.9	69	23.3	37	12.5	92	31.1	124	41.9	157	53.0	38	12.8	9	3.0	72	24.3	28	9.5
			15-19	249	244	5	.	36	14.5	51	20.5	31	12.4	90	36.1	89	35.7	127	51.0	28	11.2	9	3.6	62	24.9	17	6.8
			20+	190	183	6	1	31	16.4	54	28.6	15	7.9	58	30.7	55	29.1	113	59.8	32	16.9	9	4.8	48	25.4	16	8.5
		Age at diagnosis	<1	457	446	11	.	58	12.7	127	27.8	51	11.2	141	30.9	168	36.8	263	57.5	59	12.9	18	3.9	112	24.5	38	8.3
			1-4	301	297	4	.	48	15.9	66	21.9	33	11.0	101	33.6	130	43.2	163	54.2	48	15.9	7	2.3	64	21.3	30	10.0
			5-9	57	55	1	1	15	26.8	7	12.5	6	10.7	23	41.1	19	33.9	26	46.4	6	10.7	1	1.8	18	32.1	8	14.3
			10-14	12	12	.	.	2	16.7	.	.	.	.	5	41.7	5	41.7	5	41.7	2	16.7	.	.	3	25.0	1	8.3
			15-20	6	6	.	.	3	50.0	1	16.7	3	50.0	1	16.7	2	33.3	1	16.7	.	.	1	16.7	2	33.3	.	.
		Treatment	Surgery only	199	199	.	.	17	8.5	61	30.7	22	11.1	69	34.7	64	32.2	106	53.3	19	9.5	6	3.0	32	16.1	10	5.0
			Chemotherapy, no radiation	220	216	4	.	25	11.4	57	25.9	22	10.0	63	28.6	104	47.3	137	62.3	28	12.7	7	3.2	52	23.6	14	6.4
			Radiation, no chemotherapy	135	132	3	.	33	24.4	18	13.3	10	7.4	62	45.9	29	21.5	51	37.8	17	12.6	5	3.7	39	28.9	20	14.8
			Chemotherapy and radiation	273	267	6	.	50	18.3	65	23.8	39	14.3	77	28.2	126	46.2	163	59.7	51	18.7	9	3.3	75	27.5	33	12.1
			Unknown	6	2	3	1	1	20.0	.	.	.	.	.	.	1	20.0	1	20.0	.	.	.	.	1	20.0	.	.
	Males	All cases		388	378	10	.	45	11.6	104	26.8	42	10.8	143	36.9	157	40.5	213	54.9	55	14.2	11	2.8	98	25.3	33	8.5
		Age at baseline	<18	223	217	6	.	23	10.3	59	26.5	22	9.9	79	35.4	100	44.8	120	53.8	27	12.1	5	2.2	55	24.7	19	8.5
			18-19	43	43	.	.	4	9.3	14	32.6	6	14.0	14	32.6	20	46.5	22	51.2	9	20.9	1	2.3	8	18.6	3	7.0
			20-24	84	82	2	.	10	11.9	21	25.0	10	11.9	33	39.3	25	29.8	53	63.1	14	16.7	4	4.8	22	26.2	7	8.3
			25-29	26	25	1	.	6	23.1	8	30.8	3	11.5	10	38.5	9	34.6	14	53.8	3	11.5	1	3.8	9	34.6	3	11.5
			30-34	11	10	1	.	1	9.1	2	18.2	.	.	7	63.6	3	27.3	4	36.4	2	18.2	.	.	4	36.4	1	9.1
			35+	1	1	.	.	1	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

		<b>Years since diagnosis</b>	5-9	45	45	.	.	8	17.8	16	35.6	5	11.1	15	33.3	26	57.8	26	57.8	6	13.3	.	.	10	22.2	9	20.0	
			10-14	140	137	3	.	13	9.3	33	23.6	15	10.7	50	35.7	62	44.3	75	53.6	18	12.9	4	2.9	35	25.0	8	5.7	
			15-19	111	108	3	.	10	9.0	26	23.4	12	10.8	45	40.5	43	38.7	52	46.8	14	12.6	2	1.8	28	25.2	9	8.1	
			20+	92	88	4	.	14	15.2	29	31.5	10	10.9	33	35.9	26	28.3	60	65.2	17	18.5	5	5.4	25	27.2	7	7.6	
		<b>Age at diagnosis</b>	<1	232	226	6	.	22	9.5	67	28.9	26	11.2	80	34.5	88	37.9	135	58.2	26	11.2	7	3.0	58	25.0	16	6.9	
			1-4	123	120	3	.	15	12.2	33	26.8	13	10.6	45	36.6	58	47.2	65	52.8	26	21.1	4	3.3	27	22.0	14	11.4	
			5-9	24	23	1	.	5	20.8	3	12.5	2	8.3	13	54.2	7	29.2	9	37.5	2	8.3	.	.	10	41.7	2	8.3	
			10-14	6	6	.	.	1	16.7	.	.	.	.	4	66.7	2	33.3	3	50.0	1	16.7	.	.	1	16.7	1	16.7	
			15-20	3	3	.	.	2	66.7	1	33.3	1	33.3	1	33.3	2	66.7	1	33.3	.	.	.	.	2	66.7	.	.	
		<b>Treatment</b>	Surgery only	96	96	.	.	6	6.3	32	33.3	9	9.4	37	38.5	32	33.3	51	53.1	6	6.3	2	2.1	16	16.7	5	5.2	
			Chemotherapy, no radiation	101	98	3	.	7	6.9	27	26.7	8	7.9	32	31.7	46	45.5	60	59.4	14	13.9	2	2.0	27	26.7	4	4.0	
			Radiation, no chemotherapy	62	61	1	.	14	22.6	7	11.3	6	9.7	34	54.8	16	25.8	26	41.9	9	14.5	3	4.8	17	27.4	9	14.5	
			Chemotherapy and radiation	126	122	4	.	18	14.3	38	30.2	19	15.1	40	31.7	62	49.2	75	59.5	26	20.6	4	3.2	38	30.2	15	11.9	
			Unknown	3	1	2	.	.	.	.	.	.	.	.	.	1	33.3	1	33.3	.	.	.	.	.	.	.	.	
	<b>Females</b>	<b>All cases</b>		<b>445</b>	<b>438</b>	<b>6</b>		<b>1</b>	<b>81</b>	<b>18.2</b>	<b>97</b>	<b>21.8</b>	<b>51</b>	<b>11.5</b>	<b>128</b>	<b>28.8</b>	<b>167</b>	<b>37.6</b>	<b>245</b>	<b>55.2</b>	<b>60</b>	<b>13.5</b>	<b>16</b>	<b>3.6</b>	<b>101</b>	<b>22.7</b>	<b>44</b>	<b>9.9</b>
		<b>Age at baseline</b>	<18	257	254	3	.	44	17.1	60	23.3	34	13.2	73	28.4	107	41.6	151	58.8	37	14.4	6	2.3	54	21.0	29	11.3	
			18-19	53	52	1	.	11	20.8	8	15.1	8	15.1	18	34.0	12	22.6	25	47.2	4	7.5	3	5.7	14	26.4	3	5.7	
			20-24	93	92	1	.	17	18.3	23	24.7	6	6.5	28	30.1	37	39.8	47	50.5	12	12.9	4	4.3	24	25.8	11	11.8	
			25-29	33	32	1	.	7	21.2	5	15.2	1	3.0	8	24.2	9	27.3	19	57.6	6	18.2	2	6.1	8	24.2	1	3.0	
			30-34	8	7	.	1	2	28.6	1	14.3	1	14.3	1	14.3	2	28.6	3	42.9	1	14.3	1	14.3	1	14.3	.	.	
			35+	1	1	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
		<b>Years since diagnosis</b>	5-9	53	53	.	.	7	13.2	11	20.8	5	9.4	16	30.2	30	56.6	35	66.0	11	20.8	.	.	7	13.2	7	13.2	
			10-14	156	154	2	.	31	19.9	36	23.1	22	14.1	42	26.9	62	39.7	82	52.6	20	12.8	5	3.2	37	23.7	20	12.8	
			15-19	138	136	2	.	26	18.8	25	18.1	19	13.8	45	32.6	46	33.3	75	54.3	14	10.1	7	5.1	34	24.6	8	5.8	
			20+	98	95	2	1	17	17.5	25	25.8	5	5.2	25	25.8	29	29.9	53	54.6	15	15.5	4	4.1	23	23.7	9	9.3	
		<b>Age at diagnosis</b>	<1	225	220	5	.	36	16.0	60	26.7	25	11.1	61	27.1	80	35.6	128	56.9	33	14.7	11	4.9	54	24.0	22	9.8	
			1-4	178	177	1	.	33	18.5	33	18.5	20	11.2	56	31.5	72	40.4	98	55.1	22	12.4	3	1.7	37	20.8	16	9.0	
			5-9	33	32	.	1	10	31.3	4	12.5	4	12.5	10	31.3	12	37.5	17	53.1	4	12.5	1	3.1	8	25.0	6	18.8	
			10-14	6	6	.	.	1	16.7	.	.	.	.	1	16.7	3	50.0	2	33.3	1	16.7	.	.	2	33.3	.	.	
			15-20	3	3	.	.	1	33.3	.	.	2	66.7	.	.	.	.	.	.	.	.	.	1	33.3	.	.	.	.
		<b>Treatment</b>	Surgery only	103	103	.	.	11	10.7	29	28.2	13	12.6	32	31.1	32	31.1	55	53.4	13	12.6	4	3.9	16	15.5	5	4.9	
			Chemotherapy, no radiation	119	118	1	.	18	15.1	30	25.2	14	11.8	31	26.1	58	48.7	77	64.7	14	11.8	5	4.2	25	21.0	10	8.4	
			Radiation, no chemotherapy	73	71	2	.	19	26.0	11	15.1	4	5.5	28	38.4	13	17.8	25	34.2	8	11.0	2	2.7	22	30.1	11	15.1	
			Chemotherapy and radiation	147	145	2	.	32	21.8	27	18.4	20	13.6	37	25.2	64	43.5	88	59.9	25	17.0	5	3.4	37	25.2	18	12.2	
			Unknown	3	1	1	1	1	50.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	50.0	.	.

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information





### Surgery: STS

[Click here to see the Medical Records Abstraction Form for Survivors](#)

Click link below to see detailed listing		All cases	Any surgery			Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
			Yes	No	Unknown	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
<a href="#">STS</a>	Both sexes	All cases	1092	1084	5	3	92	8.4	15	1.4	309	28.4	142	13.0	320	29.4	274	25.2	147	13.5	188	17.3	607	55.7	104	9.6
		Age at baseline	<18	229	229	.	26	11.4	2	0.9	83	36.2	33	14.4	84	36.7	70	30.6	45	19.7	50	21.8	103	45.0	29	12.7
			18-19	83	83	.	9	10.8	1	1.2	33	39.8	16	19.3	24	28.9	27	32.5	15	18.1	12	14.5	33	39.8	14	16.9
			20-24	224	224	.	16	7.1	6	2.7	72	32.1	34	15.2	58	25.9	60	26.8	37	16.5	39	17.4	119	53.1	25	11.2
			25-29	230	227	2	14	6.1	2	0.9	63	27.5	21	9.2	64	27.9	59	25.8	28	12.2	47	20.5	135	59.0	20	8.7
			30-34	191	190	.	14	7.4	2	1.1	36	18.9	22	11.6	59	31.1	32	16.8	16	8.4	28	14.7	131	68.9	11	5.8
			35+	135	131	3	13	9.7	2	1.5	22	16.4	16	11.9	31	23.1	26	19.4	6	4.5	12	9.0	86	64.2	5	3.7
		Years since diagnosis	5-9	152	152	.	23	15.1	4	2.6	46	30.3	41	27.0	53	34.9	35	23.0	20	13.2	24	15.8	84	55.3	23	15.1
			10-14	337	335	1	32	9.5	5	1.5	108	32.1	34	10.1	96	28.6	83	24.7	42	12.5	53	15.8	179	53.3	38	11.3
			15-19	323	319	3	20	6.2	4	1.2	83	25.8	34	10.6	98	30.4	85	26.4	49	15.2	58	18.0	172	53.4	23	7.1
			20+	280	278	1	17	6.1	2	0.7	72	25.8	33	11.8	73	26.2	71	25.4	36	12.9	53	19.0	172	61.6	20	7.2
		Age at diagnosis	<1	80	80	.	3	3.8	2	2.5	15	18.8	13	16.3	23	28.8	23	28.8	17	21.3	20	25.0	39	48.8	9	11.3
			1-4	305	305	.	27	8.9	.	.	117	38.4	40	13.1	101	33.1	107	35.1	72	23.6	78	25.6	141	46.2	42	13.8
			5-9	223	223	.	18	8.1	4	1.8	96	43.0	22	9.9	62	27.8	50	22.4	24	10.8	30	13.5	113	50.7	22	9.9
			10-14	231	229	2	16	6.9	4	1.7	47	20.3	35	15.2	65	28.1	49	21.2	19	8.2	25	10.8	141	61.0	15	6.5
			15-20	253	247	3	28	11.2	5	2.0	34	13.6	32	12.8	69	27.6	45	18.0	15	6.0	35	14.0	173	69.2	16	6.4
		Treatment	Surgery only	167	167	.	18	10.8	2	1.2	22	13.2	15	9.0	29	17.4	16	9.6	4	2.4	8	4.8	135	80.8	8	4.8
			Chemotherapy, no radiation	230	230	.	3	1.3	3	1.3	23	10.0	24	10.4	95	41.3	70	30.4	38	16.5	74	32.2	122	53.0	19	8.3
			Radiation, no chemotherapy	59	59	.	6	10.2	3	5.1	7	11.9	7	11.9	5	8.5	7	11.9	4	6.8	3	5.1	45	76.3	1	1.7
			Chemotherapy and radiation	631	626	5	65	10.3	7	1.1	257	40.7	96	15.2	191	30.3	181	28.7	101	16.0	103	16.3	303	48.0	76	12.0
			Unknown	5	2	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	.	.
	Males	All cases	563	560	3	40	7.1	10	1.8	163	29.0	73	13.0	187	33.2	158	28.1	92	16.3	118	21.0	300	53.3	47	8.3	
		Age at baseline	<18	127	127	.	14	11.0	2	1.6	44	34.6	18	14.2	55	43.3	45	35.4	30	23.6	32	25.2	55	43.3	15	11.8
			18-19	42	42	.	4	9.5	1	2.4	15	35.7	6	14.3	10	23.8	17	40.5	10	23.8	10	23.8	16	38.1	6	14.3
			20-24	124	124	.	6	4.8	4	3.2	43	34.7	14	11.3	35	28.2	33	26.6	24	19.4	27	21.8	60	48.4	9	7.3
			25-29	112	112	.	3	2.7	1	0.9	32	28.6	14	12.5	40	35.7	33	29.5	18	16.1	30	26.8	60	53.6	9	8.0
			30-34	96	96	.	8	8.3	2	2.1	23	24.0	12	12.5	31	32.3	18	18.8	8	8.3	14	14.6	66	68.8	6	6.3
			35+	62	59	3	5	8.1	.	.	6	9.7	9	14.5	16	25.8	12	19.4	2	3.2	5	8.1	43	69.4	2	3.2
		Years since diagnosis	5-9	80	80	.	10	12.5	2	2.5	25	31.3	22	27.5	32	40.0	20	25.0	11	13.8	16	20.0	41	51.3	12	15.0

			10-14	176	176	.	.	17	9.7	5	2.8	60	34.1	15	8.5	54	30.7	52	29.5	28	15.9	32	18.2	90	51.1	13	7.4
			15-19	157	155	2	.	7	4.5	2	1.3	40	25.5	18	11.5	58	36.9	47	29.9	32	20.4	41	26.1	75	47.8	15	9.6
			20+	150	149	1	.	6	4.0	1	0.7	38	25.3	18	12.0	43	28.7	39	26.0	21	14.0	29	19.3	94	62.7	7	4.7
		<b>Age at diagnosis</b>	<1	34	34	.	.	.	.	2	5.9	3	8.8	5	14.7	13	38.2	13	38.2	10	29.4	11	32.4	17	50.0	1	2.9
			1-4	183	183	.	.	12	6.6	.	.	70	38.3	23	12.6	69	37.7	69	37.7	47	25.7	52	28.4	81	44.3	25	13.7
			5-9	120	120	.	.	9	7.5	4	3.3	48	40.0	12	10.0	35	29.2	29	24.2	17	14.2	23	19.2	61	50.8	9	7.5
			10-14	114	114	.	.	7	6.1	2	1.8	24	21.1	17	14.9	35	30.7	25	21.9	12	10.5	16	14.0	64	56.1	5	4.4
			15-20	112	109	3	.	12	10.7	2	1.8	18	16.1	16	14.3	35	31.3	22	19.6	6	5.4	16	14.3	77	68.8	7	6.3
		<b>Treatment</b>	Surgery only	74	74	.	.	7	9.5	1	1.4	10	13.5	7	9.5	17	23.0	9	12.2	2	2.7	1	1.4	64	86.5	3	4.1
			Chemotherapy, no radiation	127	127	.	.	1	0.8	2	1.6	13	10.2	11	8.7	60	47.2	40	31.5	17	13.4	48	37.8	64	50.4	7	5.5
			Radiation, no chemotherapy	30	30	.	.	3	10.0	2	6.7	4	13.3	3	10.0	3	10.0	4	13.3	3	10.0	1	3.3	20	66.7	.	.
			Chemotherapy and radiation	331	328	3	.	29	8.8	5	1.5	136	41.1	52	15.7	107	32.3	105	31.7	70	21.1	68	20.5	151	45.6	37	11.2
			Unknown	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
	<b>Females</b>	<b>All cases</b>		<b>529</b>	<b>524</b>	<b>2</b>	<b>3</b>	<b>52</b>	<b>9.9</b>	<b>5</b>	<b>1.0</b>	<b>146</b>	<b>27.8</b>	<b>69</b>	<b>13.1</b>	<b>133</b>	<b>25.3</b>	<b>116</b>	<b>22.1</b>	<b>55</b>	<b>10.5</b>	<b>70</b>	<b>13.3</b>	<b>307</b>	<b>58.4</b>	<b>57</b>	<b>10.8</b>
		<b>Age at baseline</b>	<18	102	102	.	.	12	11.8	.	.	39	38.2	15	14.7	29	28.4	25	24.5	15	14.7	18	17.6	48	47.1	14	13.7
			18-19	41	41	.	.	5	12.2	.	.	18	43.9	10	24.4	14	34.1	10	24.4	5	12.2	2	4.9	17	41.5	8	19.5
			20-24	100	100	.	.	10	10.0	2	2.0	29	29.0	20	20.0	23	23.0	27	27.0	13	13.0	12	12.0	59	59.0	16	16.0
			25-29	118	115	2	1	11	9.4	1	0.9	31	26.5	7	6.0	24	20.5	26	22.2	10	8.5	17	14.5	75	64.1	11	9.4
			30-34	95	94	.	1	6	6.4	.	.	13	13.8	10	10.6	28	29.8	14	14.9	8	8.5	14	14.9	65	69.1	5	5.3
			35+	73	72	.	1	8	11.1	2	2.8	16	22.2	7	9.7	15	20.8	14	19.4	4	5.6	7	9.7	43	59.7	3	4.2
		<b>Years since diagnosis</b>	5-9	72	72	.	.	13	18.1	2	2.8	21	29.2	19	26.4	21	29.2	15	20.8	9	12.5	8	11.1	43	59.7	11	15.3
			10-14	161	159	1	1	15	9.4	.	.	48	30.0	19	11.9	42	26.3	31	19.4	14	8.8	21	13.1	89	55.6	25	15.6
			15-19	166	164	1	1	13	7.9	2	1.2	43	26.1	16	9.7	40	24.2	38	23.0	17	10.3	17	10.3	97	58.8	8	4.8
			20+	130	129	.	1	11	8.5	1	0.8	34	26.4	15	11.6	30	23.3	32	24.8	15	11.6	24	18.6	78	60.5	13	10.1
		<b>Age at diagnosis</b>	<1	46	46	.	.	3	6.5	.	.	12	26.1	8	17.4	10	21.7	10	21.7	7	15.2	9	19.6	22	47.8	8	17.4
			1-4	122	122	.	.	15	12.3	.	.	47	38.5	17	13.9	32	26.2	38	31.1	25	20.5	26	21.3	60	49.2	17	13.9
			5-9	103	103	.	.	9	8.7	.	.	48	46.6	10	9.7	27	26.2	21	20.4	7	6.8	7	6.8	52	50.5	13	12.6
			10-14	117	115	2	.	9	7.7	2	1.7	23	19.7	18	15.4	30	25.6	24	20.5	7	6.0	9	7.7	77	65.8	10	8.5
			15-20	141	138	.	3	16	11.6	3	2.2	16	11.6	16	11.6	34	24.6	23	16.7	9	6.5	19	13.8	96	69.6	9	6.5
		<b>Treatment</b>	Surgery only	93	93	.	.	11	11.8	1	1.1	12	12.9	8	8.6	12	12.9	7	7.5	2	2.2	7	7.5	71	76.3	5	5.4
			Chemotherapy, no radiation	103	103	.	.	2	1.9	1	1.0	10	9.7	13	12.6	35	34.0	30	29.1	21	20.4	26	25.2	58	56.3	12	11.7
			Radiation, no chemotherapy	29	29	.	.	3	10.3	1	3.4	3	10.3	4	13.8	2	6.9	3	10.3	1	3.4	2	6.9	25	86.2	1	3.4
			Chemotherapy and radiation	300	298	2	.	36	12.0	2	0.7	121	40.3	44	14.7	84	28.0	76	25.3	31	10.3	35	11.7	152	50.7	39	13.0
			Unknown	4	1	.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: All bone

[Click here to see the Medical Records Abstraction Form for Survivors](#)

				Any surgery		Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)		
Click link below to see detailed listing			All cases	Yes	No	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
				<b>All bone</b>	<b>Both sexes</b>	<b>All cases</b>	<b>1044</b>	<b>1037</b>	<b>7</b>	<b>77</b>	<b>7.4</b>	<b>7</b>	<b>0.7</b>	<b>39</b>	<b>3.7</b>	<b>256</b>	<b>24.5</b>	<b>152</b>	<b>14.6</b>	<b>71</b>	<b>6.8</b>	<b>19</b>	<b>1.8</b>	<b>20</b>	<b>1.9</b>	<b>990</b>
		<b>Age at baseline</b>	<18	47	47	.	7	14.9	.	.	4	8.5	20	42.6	12	25.5	4	8.5	1	2.1	.	.	46	97.9	3	6.4
			18-19	43	42	1	8	18.6	.	.	4	9.3	13	30.2	6	14.0	4	9.3	.	.	1	2.3	35	81.4	6	14.0
			20-24	211	210	1	26	12.3	1	0.5	11	5.2	62	29.4	33	15.6	17	8.1	4	1.9	7	3.3	202	95.7	19	9.0
			25-29	266	263	3	14	5.3	1	0.4	10	3.8	55	20.7	44	16.5	19	7.1	6	2.3	8	3.0	248	93.2	22	8.3
			30-34	285	283	2	18	6.3	3	1.1	6	2.1	65	22.8	38	13.3	19	6.7	6	2.1	3	1.1	269	94.4	14	4.9
			35+	192	192	.	4	2.1	2	1.0	4	2.1	41	21.4	19	9.9	8	4.2	2	1.0	1	0.5	190	99.0	4	2.1
		<b>Years since diagnosis</b>	5-9	152	152	.	30	19.7	.	.	8	5.3	61	40.1	37	24.3	16	10.5	4	2.6	4	2.6	147	96.7	20	13.2
			10-14	357	355	2	21	5.9	2	0.6	13	3.6	82	23.0	50	14.0	28	7.8	4	1.1	9	2.5	331	92.7	21	5.9
			15-19	331	329	2	19	5.7	2	0.6	12	3.6	73	22.1	43	13.0	16	4.8	6	1.8	4	1.2	318	96.1	19	5.7
			20+	204	201	3	7	3.4	3	1.5	6	2.9	40	19.6	22	10.8	11	5.4	5	2.5	3	1.5	194	95.1	8	3.9
		<b>Age at diagnosis</b>	<1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
			1-4	35	34	1	4	11.4	.	.	2	5.7	11	31.4	10	28.6	3	8.6	.	.	1	2.9	31	88.6	2	5.7
			5-9	176	172	4	18	10.2	2	1.1	13	7.4	39	22.2	27	15.3	10	5.7	7	4.0	1	0.6	158	89.8	16	9.1
			10-14	395	394	1	25	6.3	2	0.5	15	3.8	96	24.3	50	12.7	27	6.8	5	1.3	15	3.8	379	95.9	26	6.6
			15-20	437	436	1	30	6.9	3	0.7	9	2.1	110	25.2	65	14.9	31	7.1	7	1.6	3	0.7	421	96.3	24	5.5
		<b>Treatment</b>	Surgery only	92	92	.	4	4.3	.	.	5	5.4	15	16.3	8	8.7	.	.	.	.	.	.	92	.	1	1.1
			Chemotherapy, no radiation	567	566	1	14	2.5	3	0.5	13	2.3	125	22.0	77	13.6	24	4.2	3	0.5	6	1.1	556	98.1	41	7.2
			Radiation, no chemotherapy	13	12	1	4	30.8	.	.	1	7.7	3	23.1	1	7.7	2	15.4	.	.	.	.	11	84.6	2	15.4
			Chemotherapy and radiation	370	365	5	54	14.6	4	1.1	20	5.4	111	30.0	66	17.8	45	12.2	16	4.3	14	3.8	329	88.9	23	6.2
			Unknown	2	2	.	1	50.0	.	.	.	.	2	.	.	.	.	.	.	.	.	.	2	.	1	50.0
	<b>Males</b>	<b>All cases</b>		<b>528</b>	<b>526</b>	<b>2</b>	<b>43</b>	<b>8.1</b>	<b>2</b>	<b>0.4</b>	<b>26</b>	<b>4.9</b>	<b>137</b>	<b>25.9</b>	<b>80</b>	<b>15.2</b>	<b>37</b>	<b>7.0</b>	<b>12</b>	<b>2.3</b>	<b>8</b>	<b>1.5</b>	<b>501</b>	<b>94.9</b>	<b>27</b>	<b>5.1</b>
		<b>Age at baseline</b>	<18	24	24	.	5	20.8	.	.	3	12.5	10	41.7	4	16.7	2	8.3	.	.	.	.	23	95.8	1	4.2
			18-19	24	24	.	5	20.8	.	.	3	12.5	8	33.3	4	16.7	3	12.5	.	.	1	4.2	20	83.3	2	8.3
			20-24	99	98	1	12	12.1	1	1.0	7	7.1	31	31.3	18	18.2	8	8.1	2	2.0	4	4.0	94	94.9	8	8.1
			25-29	137	137	.	9	6.6	.	.	5	3.6	33	24.1	26	19.0	11	8.0	4	2.9	2	1.5	129	94.2	8	5.8
			30-34	143	142	1	10	7.0	.	.	5	3.5	33	23.1	17	11.9	11	7.7	5	3.5	1	0.7	135	94.4	6	4.2
			35+	101	101	.	2	2.0	1	1.0	3	3.0	22	21.8	11	10.9	2	2.0	1	1.0	.	.	100	99.0	2	2.0
		<b>Years since diagnosis</b>	5-9	77	77	.	15	19.5	.	.	5	6.5	35	45.5	20	26.0	9	11.7	1	1.3	1	1.3	73	94.8	8	10.4

			10-14	188	188	.	13	6.9	1	0.5	8	4.3	48	25.5	28	14.9	14	7.4	3	1.6	4	2.1	175	93.1	10	5.3	
			15-19	167	166	1	12	7.2	.	.	8	4.8	38	22.8	22	13.2	12	7.2	5	3.0	2	1.2	162	97.0	6	3.6	
			20+	96	95	1	3	3.1	1	1.0	5	5.2	16	16.7	10	10.4	2	2.1	3	3.1	1	1.0	91	94.8	3	3.1	
		<b>Age at diagnosis</b>	<1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
			1-4	16	15	1	3	18.8	.	.	1	6.3	4	25.0	4	25.0	1	6.3	.	.	1	6.3	13	81.3	1	6.3	
			5-9	96	95	1	11	11.5	1	1.0	10	10.4	18	18.8	13	13.5	6	6.3	4	4.2	1	1.0	86	89.6	5	5.2	
			10-14	178	178	.	12	6.7	1	0.6	11	6.2	50	28.1	26	14.6	15	8.4	3	1.7	5	2.8	172	96.6	10	5.6	
			15-20	237	237	.	17	7.2	.	.	4	1.7	65	27.4	37	15.6	15	6.3	5	2.1	1	0.4	229	96.6	11	4.6	
		<b>Treatment</b>	Surgery only	38	38	.	2	5.3	.	.	3	7.9	6	15.8	3	7.9	.	.	.	.	.	.	38	.	1	2.6	
			Chemotherapy, no radiation	292	292	.	5	1.7	1	0.3	8	2.7	72	24.7	37	12.7	12	4.1	1	0.3	1	0.3	290	99.3	17	5.8	
			Radiation, no chemotherapy	6	5	1	2	33.3	.	.	.	.	.	.	.	.	1	16.7	.	.	.	.	4	66.7	1	16.7	
			Chemotherapy and radiation	190	189	1	33	17.4	1	0.5	15	7.9	57	30.0	40	21.1	24	12.6	11	5.8	7	3.7	167	87.9	7	3.7	
			Unknown	2	2	.	1	50.0	.	.	.	.	2	.	.	.	.	.	.	.	.	.	2	.	1	50.0	
	<b>Females</b>	<b>All cases</b>		<b>516</b>	<b>511</b>	<b>5</b>	<b>34</b>	<b>6.6</b>	<b>5</b>	<b>1.0</b>	<b>13</b>	<b>2.5</b>	<b>119</b>	<b>23.1</b>	<b>72</b>	<b>14.0</b>	<b>34</b>	<b>6.6</b>	<b>7</b>	<b>1.4</b>	<b>12</b>	<b>2.3</b>	<b>489</b>	<b>94.8</b>	<b>41</b>	<b>7.9</b>	
		<b>Age at baseline</b>	<18	23	23	.	2	8.7	.	.	1	4.3	10	43.5	8	34.8	2	8.7	1	4.3	.	.	23	.	2	8.7	
			18-19	19	18	1	3	15.8	.	.	1	5.3	5	26.3	2	10.5	1	5.3	.	.	.	.	15	78.9	4	21.1	
			20-24	112	112	.	14	12.5	.	.	4	3.6	31	27.7	15	13.4	9	8.0	2	1.8	3	2.7	108	96.4	11	9.8	
			25-29	129	126	3	5	3.9	1	0.8	5	3.9	22	17.1	18	14.0	8	6.2	2	1.6	6	4.7	119	92.2	14	10.9	
			30-34	142	141	1	8	5.6	3	2.1	1	0.7	32	22.5	21	14.8	8	5.6	1	0.7	2	1.4	134	94.4	8	5.6	
			35+	91	91	.	2	2.2	1	1.1	1	1.1	19	20.9	8	8.8	6	6.6	1	1.1	1	1.1	90	98.9	2	2.2	
		<b>Years since diagnosis</b>	5-9	75	75	.	15	20.0	.	.	3	4.0	26	34.7	17	22.7	7	9.3	3	4.0	3	4.0	74	98.7	12	16.0	
			10-14	169	167	2	8	4.7	1	0.6	5	3.0	34	20.1	22	13.0	14	8.3	1	0.6	5	3.0	156	92.3	11	6.5	
			15-19	164	163	1	7	4.3	2	1.2	4	2.4	35	21.3	21	12.8	4	2.4	1	0.6	2	1.2	156	95.1	13	7.9	
			20+	108	106	2	4	3.7	2	1.9	1	0.9	24	22.2	12	11.1	9	8.3	2	1.9	2	1.9	103	95.4	5	4.6	
		<b>Age at diagnosis</b>	1-4	19	19	.	1	5.3	.	.	1	5.3	7	36.8	6	31.6	2	10.5	.	.	.	.	18	94.7	1	5.3	
			5-9	80	77	3	7	8.8	1	1.3	3	3.8	21	26.3	14	17.5	4	5.0	3	3.8	.	.	72	90.0	11	13.8	
			10-14	217	216	1	13	6.0	1	0.5	4	1.8	46	21.2	24	11.1	12	5.5	2	0.9	10	4.6	207	95.4	16	7.4	
			15-20	200	199	1	13	6.5	3	1.5	5	2.5	45	22.5	28	14.0	16	8.0	2	1.0	2	1.0	192	96.0	13	6.5	
		<b>Treatment</b>	Surgery only	54	54	.	2	3.7	.	.	2	3.7	9	16.7	5	9.3	.	.	.	.	.	.	54	.	.	.	
			Chemotherapy, no radiation	275	274	1	9	3.3	2	0.7	5	1.8	53	19.3	40	14.5	12	4.4	2	0.7	5	1.8	266	96.7	24	8.7	
			Radiation, no chemotherapy	7	7	.	2	28.6	.	.	1	14.3	3	42.9	1	14.3	1	14.3	.	.	.	.	7	.	1	14.3	
			Chemotherapy and radiation	180	176	4	21	11.7	3	1.7	5	2.8	54	30.0	26	14.4	21	11.7	5	2.8	7	3.9	162	90.0	16	8.9	

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: Ewings

[Click here to see the Medical Records Abstraction Form for Survivors](#)

Click link below to see detailed listing		All cases	Any surgery		Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)			
			Yes	No	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%		
<a href="#">Ewings</a>	Both sexes	All cases	360	354	6	49	13.6	3	0.8	18	5.0	82	22.8	57	15.8	38	10.6	13	3.6	14	3.9	312	86.7	19	5.3	
		Age at baseline	<18	31	31	.	6	19.4	.	.	2	6.5	12	38.7	6	19.4	3	9.7	1	3.2	.	.	30	96.8	1	3.2
			18-19	23	23	.	5	21.7	.	.	2	8.7	9	39.1	2	8.7	3	13.0	.	.	1	4.3	16	69.6	2	8.7
			20-24	94	93	1	18	19.1	.	.	6	6.4	25	26.6	15	16.0	12	12.8	3	3.2	6	6.4	86	91.5	6	6.4
			25-29	91	88	3	10	11.0	.	.	4	4.4	15	16.5	12	13.2	8	8.8	4	4.4	5	5.5	76	83.5	5	5.5
			30-34	81	79	2	9	11.1	2	2.5	2	2.5	14	17.3	18	22.2	7	8.6	4	4.9	1	1.2	66	81.5	4	4.9
			35+	40	40	.	1	2.5	1	2.5	2	5.0	7	17.5	4	10.0	5	12.5	1	2.5	1	2.5	38	95.0	1	2.5
		Years since diagnosis	5-9	67	67	.	17	25.4	.	.	2	3.0	28	41.8	14	20.9	9	13.4	3	4.5	2	3.0	63	94.0	6	9.0
			10-14	126	125	1	17	13.5	.	.	5	4.0	24	19.0	20	15.9	15	11.9	3	2.4	7	5.6	101	80.2	7	5.6
			15-19	107	105	2	11	10.3	1	0.9	7	6.5	22	20.6	16	15.0	10	9.3	2	1.9	3	2.8	96	89.7	4	3.7
			20+	60	57	3	4	6.7	2	3.3	4	6.7	8	13.3	7	11.7	4	6.7	5	8.3	2	3.3	52	86.7	2	3.3
		Age at diagnosis	<1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
			1-4	23	22	1	3	13.0	.	.	2	8.7	9	39.1	5	21.7	2	8.7	.	.	1	4.3	20	87.0	1	4.3
			5-9	95	92	3	16	16.8	1	1.1	9	9.5	21	22.1	11	11.6	8	8.4	7	7.4	1	1.1	79	83.2	5	5.3
			10-14	132	131	1	14	10.6	1	0.8	6	4.5	27	20.5	18	13.6	13	9.8	3	2.3	10	7.6	118	89.4	7	5.3
			15-20	109	108	1	16	14.7	1	0.9	1	0.9	25	22.9	23	21.1	15	13.8	3	2.8	2	1.8	94	86.2	6	5.5
		Treatment	Surgery only	1	1	.	.	.	.	.	.	1	.	1	.	.	.	.	.	.	.	.	1	.	.	.
			Chemotherapy, no radiation	70	70	.	4	5.7	.	.	3	4.3	15	21.4	13	18.6	2	2.9	.	.	1	1.4	62	88.6	3	4.3
			Radiation, no chemotherapy	1	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Chemotherapy and radiation	288	283	5	45	15.6	3	1.0	15	5.2	66	22.9	43	14.9	36	12.5	13	4.5	13	4.5	249	86.5	16	5.6
	Males	All cases		186	184	2	30	16.1	1	0.5	14	7.5	38	20.4	31	16.7	20	10.8	8	4.3	7	3.8	161	86.6	7	3.8
		Age at baseline	<18	15	15	.	5	33.3	.	.	2	13.3	4	26.7	1	6.7	2	13.3	.	.	.	.	14	93.3	.	.
			18-19	14	14	.	3	21.4	.	.	1	7.1	5	35.7	1	7.1	2	14.3	.	.	1	7.1	10	71.4	1	7.1
			20-24	50	49	1	9	18.0	.	.	4	8.0	14	28.0	10	20.0	7	14.0	2	4.0	4	8.0	45	90.0	2	4.0
			25-29	44	44	.	7	15.9	.	.	3	6.8	8	18.2	7	15.9	4	9.1	3	6.8	2	4.5	37	84.1	1	2.3
			30-34	42	41	1	5	11.9	.	.	2	4.8	4	9.5	9	21.4	3	7.1	3	7.1	.	.	35	83.3	2	4.8
			35+	21	21	.	1	4.8	1	4.8	2	9.5	3	14.3	3	14.3	2	9.5	.	.	.	.	20	95.2	1	4.8
		Years since diagnosis	5-9	38	38	.	9	23.7	.	.	2	5.3	15	39.5	7	18.4	7	18.4	1	2.6	1	2.6	34	89.5	3	7.9
			10-14	62	62	.	11	17.7	.	.	3	4.8	13	21.0	12	19.4	6	9.7	2	3.2	4	6.5	49	79.0	3	4.8

			15-19	56	55	1	9	16.1	.	.	5	8.9	8	14.3	8	14.3	7	12.5	2	3.6	2	3.6	51	91.1	1	1.8
			20+	30	29	1	1	3.3	1	3.3	4	13.3	2	6.7	4	13.3	.	.	3	10.0	.	.	27	90.0	.	.
		<b>Age at diagnosis</b>	<1	1	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	.
			1-4	12	11	1	2	16.7	.	.	1	8.3	4	33.3	2	16.7	.	.	.	.	1	8.3	10	83.3	.	.
			5-9	50	49	1	11	22.0	.	.	7	14.0	8	16.0	4	8.0	5	10.0	4	8.0	1	2.0	41	82.0	1	2.0
			10-14	68	68	.	7	10.3	1	1.5	5	7.4	13	19.1	11	16.2	8	11.8	2	2.9	4	5.9	62	91.2	2	2.9
			15-20	55	55	.	10	18.2	.	.	1	1.8	13	23.6	14	25.5	7	12.7	2	3.6	1	1.8	47	85.5	4	7.3
		<b>Treatment</b>	Chemotherapy, no radiation	39	39	.	2	5.1	.	.	3	7.7	7	17.9	6	15.4	1	2.6	.	.	.	.	38	97.4	2	5.1
			Radiation, no chemotherapy	1	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
			Chemotherapy and radiation	146	145	1	28	19.2	1	0.7	11	7.5	31	21.2	25	17.1	19	13.0	8	5.5	7	4.8	123	84.2	5	3.4
	<b>Females</b>	<b>All cases</b>		<b>174</b>	<b>170</b>	<b>4</b>	<b>19</b>	<b>10.9</b>	<b>2</b>	<b>1.1</b>	<b>4</b>	<b>2.3</b>	<b>44</b>	<b>25.3</b>	<b>26</b>	<b>14.9</b>	<b>18</b>	<b>10.3</b>	<b>5</b>	<b>2.9</b>	<b>7</b>	<b>4.0</b>	<b>151</b>	<b>86.8</b>	<b>12</b>	<b>6.9</b>
		<b>Age at baseline</b>	<18	16	16	.	1	6.3	.	.	.	.	8	50.0	5	31.3	1	6.3	1	6.3	.	.	16	.	1	6.3
			18-19	9	9	.	2	22.2	.	.	1	11.1	4	44.4	1	11.1	1	11.1	.	.	.	.	6	66.7	1	11.1
			20-24	44	44	.	9	20.5	.	.	2	4.5	11	25.0	5	11.4	5	11.4	1	2.3	2	4.5	41	93.2	4	9.1
			25-29	47	44	3	3	6.4	.	.	1	2.1	7	14.9	5	10.6	4	8.5	1	2.1	3	6.4	39	83.0	4	8.5
			30-34	39	38	1	4	10.3	2	5.1	.	.	10	25.6	9	23.1	4	10.3	1	2.6	1	2.6	31	79.5	2	5.1
			35+	19	19	.	.	.	.	.	.	.	4	21.1	1	5.3	3	15.8	1	5.3	1	5.3	18	94.7	.	.
		<b>Years since diagnosis</b>	5-9	29	29	.	8	27.6	.	.	.	.	13	44.8	7	24.1	2	6.9	2	6.9	1	3.4	29	.	3	10.3
			10-14	64	63	1	6	9.4	.	.	2	3.1	11	17.2	8	12.5	9	14.1	1	1.6	3	4.7	52	81.3	4	6.3
			15-19	51	50	1	2	3.9	1	2.0	2	3.9	14	27.5	8	15.7	3	5.9	.	.	1	2.0	45	88.2	3	5.9
			20+	30	28	2	3	10.0	1	3.3	.	.	6	20.0	3	10.0	4	13.3	2	6.7	2	6.7	25	83.3	2	6.7
		<b>Age at diagnosis</b>	1-4	11	11	.	1	9.1	.	.	1	9.1	5	45.5	3	27.3	2	18.2	.	.	.	.	10	90.9	1	9.1
			5-9	45	43	2	5	11.1	1	2.2	2	4.4	13	28.9	7	15.6	3	6.7	3	6.7	.	.	38	84.4	4	8.9
			10-14	64	63	1	7	10.9	.	.	1	1.6	14	21.9	7	10.9	5	7.8	1	1.6	6	9.4	56	87.5	5	7.8
			15-20	54	53	1	6	11.1	1	1.9	.	.	12	22.2	9	16.7	8	14.8	1	1.9	1	1.9	47	87.0	2	3.7
		<b>Treatment</b>	Surgery only	1	1	.	.	.	.	.	.	.	1	.	1	.	.	.	.	.	.	.	1	.	.	.
			Chemotherapy, no radiation	31	31	.	2	6.5	.	.	.	.	8	25.8	7	22.6	1	3.2	.	.	1	3.2	24	77.4	1	3.2
			Chemotherapy and radiation	142	138	4	17	12.0	2	1.4	4	2.8	35	24.6	18	12.7	17	12.0	5	3.5	6	4.2	126	88.7	11	7.7

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information

### Surgery: Osteosarcoma

[Click here to see the Medical Records Abstraction Form for Survivors](#)

Click link below to see detailed listing		All cases	Any surgery		Nervous System (01-05)		Endocrine System (06-07)		Eye, Ear, Nose Mouth, & Pharynx (08-29)		Respiratory System (30-34)		Cardiovascular Hemic & Lymphatic (35-41)		Digestive System (42-54)		Urinary System (55-59)		Genital Organs & Obstetrics (60-75)		Musculoskeletal & Integumentary (76-86)		Miscellaneous (00,87-99)			
			Yes	No	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%		
<a href="#">Osteosarcoma</a>	Both sexes	All cases	638	637	1	18	2.8	4	0.6	17	2.7	165	25.9	86	13.5	28	4.4	6	0.9	5	0.8	635	99.5	45	7.1	
		Age at baseline	<18	14	14	.	.	.	.	1	7.1	7	50.0	4	28.6	.	.	.	.	.	.	14	.	1	7.1	
			18-19	18	17	1	2	11.1	.	1	5.6	3	16.7	3	16.7	.	.	.	.	.	.	17	94.4	3	16.7	
			20-24	110	110	.	6	5.5	1	0.9	4	3.6	35	31.8	16	14.5	3	2.7	1	0.9	.	110	.	13	11.8	
			25-29	166	166	.	2	1.2	1	0.6	6	3.6	36	21.7	30	18.1	10	6.0	2	1.2	3	1.8	165	99.4	15	9.0
			30-34	192	192	.	7	3.6	1	0.5	3	1.6	51	26.6	19	9.9	12	6.3	2	1.0	2	1.0	191	99.5	10	5.2
			35+	138	138	.	1	0.7	1	0.7	2	1.4	33	23.9	14	10.1	3	2.2	1	0.7	.	138	.	3	2.2	
		Years since diagnosis	5-9	79	79	.	9	11.4	.	.	3	3.8	30	38.0	19	24.1	4	5.1	1	1.3	1	1.3	79	.	12	15.2
			10-14	215	214	1	2	0.9	2	0.9	8	3.7	54	25.1	28	13.0	12	5.6	1	0.5	2	0.9	214	99.5	14	6.5
			15-19	213	213	.	6	2.8	1	0.5	4	1.9	50	23.5	25	11.7	6	2.8	4	1.9	1	0.5	212	99.5	14	6.6
			20+	131	131	.	1	0.8	1	0.8	2	1.5	31	23.7	14	10.7	6	4.6	.	.	1	0.8	130	99.2	5	3.8
		Age at diagnosis	1-4	10	10	.	.	.	.	.	.	2	20.0	4	40.0	.	.	.	.	.	.	10	.	.	.	
			5-9	72	71	1	1	1.4	1	1.4	3	4.2	16	22.2	14	19.4	.	.	.	.	.	70	97.2	9	12.5	
			10-14	254	254	.	8	3.1	1	0.4	8	3.1	64	25.2	28	11.0	12	4.7	2	0.8	4	1.6	253	99.6	18	7.1
			15-20	302	302	.	9	3.0	2	0.7	6	2.0	83	27.5	40	13.2	16	5.3	4	1.3	1	0.3	302	.	18	6.0
		Treatment	Surgery only	62	62	.	1	1.6	.	.	4	6.5	13	21.0	4	6.5	.	.	.	.	.	62	.	.	.	
			Chemotherapy, no radiation	492	491	1	10	2.0	3	0.6	10	2.0	107	21.7	63	12.8	21	4.3	3	0.6	5	1.0	489	99.4	38	7.7
			Radiation, no chemotherapy	8	8	.	1	12.5	.	.	.	.	2	25.0	.	.	.	.	.	.	.	8	.	.	.	
			Chemotherapy and radiation	74	74	.	5	6.8	1	1.4	3	4.1	41	55.4	19	25.7	7	9.5	3	4.1	.	74	.	6	8.1	
			Unknown	2	2	.	1	50.0	.	.	.	.	2	.	.	.	.	.	.	.	.	2	.	1	50.0	
	Males	All cases		320	320	.	9	2.8	1	0.3	10	3.1	97	30.3	46	14.4	14	4.4	4	1.3	1	0.3	319	99.7	17	5.3
		Age at baseline	<18	9	9	.	.	.	.	.	1	11.1	6	66.7	3	33.3	.	.	.	.	.	9	.	1	11.1	
			18-19	8	8	.	1	12.5	.	.	1	12.5	2	25.0	2	25.0	.	.	.	.	.	8	.	.	.	
			20-24	46	46	.	3	6.5	1	2.2	3	6.5	17	37.0	8	17.4	.	.	.	.	.	46	.	6	13.0	
			25-29	88	88	.	1	1.1	.	.	2	2.3	24	27.3	18	20.5	6	6.8	1	1.1	.	88	.	5	5.7	
			30-34	94	94	.	3	3.2	.	.	2	2.1	29	30.9	8	8.5	8	8.5	2	2.1	1	1.1	93	98.9	4	4.3
			35+	75	75	.	1	1.3	.	.	1	1.3	19	25.3	7	9.3	.	.	1	1.3	.	75	.	1	1.3	
		Years since diagnosis	5-9	37	37	.	5	13.5	.	.	2	5.4	18	48.6	12	32.4	1	2.7	.	.	.	37	.	4	10.8	
			10-14	119	119	.	1	0.8	1	0.8	5	4.2	35	29.4	16	13.4	7	5.9	1	0.8	.	119	.	7	5.9	
			15-19	104	104	.	2	1.9	.	.	2	1.9	30	28.8	13	12.5	5	4.8	3	2.9	.	104	.	4	3.8	

			20+	60	60	.	1	1.7	.	.	1	1.7	14	23.3	5	8.3	1	1.7	.	.	1	1.7	59	98.3	2	3.3
		<b>Age at diagnosis</b>	1-4	3	3	.	.	.	.	.	.	.	.	.	2	66.7	.	.	.	.	.	.	3	.	.	.
			5-9	39	39	.	.	.	1	2.6	3	7.7	10	25.6	8	20.5	.	.	.	.	.	.	38	97.4	3	7.7
			10-14	108	108	.	4	3.7	.	.	5	4.6	36	33.3	14	13.0	6	5.6	1	0.9	1	0.9	108	.	7	6.5
			15-20	170	170	.	5	2.9	.	.	2	1.2	51	30.0	22	12.9	8	4.7	3	1.8	.	.	170	.	7	4.1
		<b>Treatment</b>	Surgery only	22	22	.	.	.	.	.	2	9.1	6	27.3	1	4.5	.	.	.	.	.	.	22	.	.	.
			Chemotherapy, no radiation	251	251	.	3	1.2	1	0.4	5	2.0	65	25.9	31	12.4	10	4.0	1	0.4	1	0.4	250	99.6	15	6.0
			Radiation, no chemotherapy	4	4	.	1	25.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	.	.	.
			Chemotherapy and radiation	41	41	.	4	9.8	.	.	3	7.3	24	58.5	14	34.1	4	9.8	3	7.3	.	.	41	.	1	2.4
			Unknown	2	2	.	1	50.0	.	.	.	.	2	.	.	.	.	.	.	.	.	.	2	.	1	50.0
	<b>Females</b>	<b>All cases</b>		<b>318</b>	<b>317</b>	<b>1</b>	<b>9</b>	<b>2.8</b>	<b>3</b>	<b>0.9</b>	<b>7</b>	<b>2.2</b>	<b>68</b>	<b>21.4</b>	<b>40</b>	<b>12.6</b>	<b>14</b>	<b>4.4</b>	<b>2</b>	<b>0.6</b>	<b>4</b>	<b>1.3</b>	<b>316</b>	<b>99.4</b>	<b>28</b>	<b>8.8</b>
		<b>Age at baseline</b>	<18	5	5	.	.	.	.	.	.	.	1	20.0	1	20.0	.	.	.	.	.	.	5	.	.	.
			18-19	10	9	1	1	10.0	.	.	.	.	1	10.0	1	10.0	.	.	.	.	.	.	9	90.0	3	30.0
			20-24	64	64	.	3	4.7	.	.	1	1.6	18	28.1	8	12.5	3	4.7	1	1.6	.	.	64	.	7	10.9
			25-29	78	78	.	1	1.3	1	1.3	4	5.1	12	15.4	12	15.4	4	5.1	1	1.3	3	3.8	77	98.7	10	12.8
			30-34	98	98	.	4	4.1	1	1.0	1	1.0	22	22.4	11	11.2	4	4.1	.	.	1	1.0	98	.	6	6.1
			35+	63	63	.	.	.	1	1.6	1	1.6	14	22.2	7	11.1	3	4.8	.	.	.	.	63	.	2	3.2
		<b>Years since diagnosis</b>	5-9	42	42	.	4	9.5	.	.	1	2.4	12	28.6	7	16.7	3	7.1	1	2.4	1	2.4	42	.	8	19.0
			10-14	96	95	1	1	1.0	1	1.0	3	3.1	19	19.8	12	12.5	5	5.2	.	.	2	2.1	95	99.0	7	7.3
			15-19	109	109	.	4	3.7	1	0.9	2	1.8	20	18.3	12	11.0	1	0.9	1	0.9	1	0.9	108	99.1	10	9.2
			20+	71	71	.	.	.	1	1.4	1	1.4	17	23.9	9	12.7	5	7.0	.	.	.	.	71	.	3	4.2
		<b>Age at diagnosis</b>	1-4	7	7	.	.	.	.	.	.	.	2	28.6	2	28.6	.	.	.	.	.	.	7	.	.	.
			5-9	33	32	1	1	3.0	.	.	.	.	6	18.2	6	18.2	.	.	.	.	.	.	32	97.0	6	18.2
			10-14	146	146	.	4	2.7	1	0.7	3	2.1	28	19.2	14	9.6	6	4.1	1	0.7	3	2.1	145	99.3	11	7.5
			15-20	132	132	.	4	3.0	2	1.5	4	3.0	32	24.2	18	13.6	8	6.1	1	0.8	1	0.8	132	.	11	8.3
		<b>Treatment</b>	Surgery only	40	40	.	1	2.5	.	.	2	5.0	7	17.5	3	7.5	.	.	.	.	.	.	40	.	.	.
			Chemotherapy, no radiation	241	240	1	7	2.9	2	0.8	5	2.1	42	17.4	32	13.3	11	4.6	2	0.8	4	1.7	239	99.2	23	9.5
			Radiation, no chemotherapy	4	4	.	.	.	.	.	.	.	2	50.0	.	.	.	.	.	.	.	.	4	.	.	.
			Chemotherapy and radiation	33	33	.	1	3.0	1	3.0	.	.	17	51.5	5	15.2	3	9.1	.	.	.	.	33	.	5	15.2

CCSS data from February 2006 data freeze--Data from original diagnosis, for patients with medical records abstraction

Surgery groups based on classification of ICD9-CM codes

Denominator for percentages is all cases, but excluding those with missing or unknown ICD information