

Radiotherapy with select doses: All cancers

		Any radiation					Max dose to brain ¹					Max dose to chest ¹					
		All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
Both sexes	All cases	23558	12937	10416	205	10417	7846	1631	670	2137	857	10417	8244	1514	2529	854	
	Age at baseline	<18	5290	2601	2664	25	2665	1553	280	199	441	152	2665	2035	219	224	147
		18-19	1964	1023	934	7	934	590	144	61	182	53	934	816	82	80	52
		20-24	5470	2951	2482	37	2482	1644	469	136	557	182	2482	2111	299	395	183
		25-29	5110	2943	2116	51	2116	1649	424	152	560	209	2116	1775	428	585	206
		30-34	3523	2063	1405	55	1405	1358	224	84	288	164	1405	973	336	640	169
		35+	2201	1356	815	30	815	1052	90	38	109	97	815	534	150	605	97
	Years since diagnosis	5-9	2383	1458	909	16	910	819	144	115	302	93	910	935	146	303	89
		10-14	7680	4020	3614	46	3614	2606	333	196	706	225	3614	2638	524	677	227
		15-19	7552	4147	3340	65	3340	2485	624	193	643	267	3340	2688	461	801	262
		20+	5943	3312	2553	78	2553	1936	530	166	486	272	2553	1983	383	748	276
	Age at diagnosis	<1	1778	503	1264	11	1264	376	27	36	42	33	1264	435	31	15	33
		1-4	7584	4066	3475	43	3475	2250	746	272	580	261	3475	3256	348	247	258
		5-9	5282	3047	2184	51	2185	1497	445	171	773	211	2185	2037	323	530	207
		10-14	4993	2915	2033	45	2033	1847	283	125	521	184	2033	1574	469	734	183
		15-20	3921	2406	1460	55	1460	1876	130	66	221	168	1460	942	343	1003	173
Males	All cases	12463	6936	5412	115	5413	4108	879	381	1213	469	5413	4452	780	1354	464	
	Age at baseline	<18	2841	1469	1353	19	1354	856	165	107	261	98	1354	1146	121	127	93
		18-19	1014	549	460	5	460	315	88	32	94	25	460	430	47	51	26
		20-24	2840	1543	1277	20	1277	846	237	64	317	99	1277	1062	165	238	98
		25-29	2800	1640	1134	26	1134	900	224	99	327	116	1134	987	231	334	114
		30-34	1856	1061	763	32	763	682	116	58	154	83	763	533	153	320	87
		35+	1112	674	425	13	425	509	49	21	60	48	425	294	63	284	46
	Years since diagnosis	5-9	1326	844	470	12	471	472	88	72	169	54	471	540	87	177	51
		10-14	4084	2199	1860	25	1860	1381	200	112	406	125	1860	1468	268	361	127
		15-19	3918	2136	1745	37	1745	1240	316	104	368	145	1745	1374	229	429	141
		20+	3135	1757	1337	41	1337	1015	275	93	270	145	1337	1070	196	387	145
	Age at diagnosis	<1	901	257	636	8	636	185	15	18	29	18	636	221	21	6	17
		1-4	3934	2160	1748	26	1748	1176	395	137	326	152	1748	1720	177	141	148
		5-9	2955	1740	1186	29	1187	861	243	99	447	118	1187	1131	192	330	115
		10-14	2603	1528	1051	24	1051	948	144	79	290	91	1051	836	235	387	94
		15-20	2070	1251	791	28	791	938	82	48	121	90	791	544	155	490	90
Females	All cases	11095	6001	5004	90	5004	3738	752	289	924	388	5004	3792	734	1175	390	
	Age at baseline	<18	2449	1132	1311	6	1311	697	115	92	180	54	1311	889	98	97	54
		18-19	950	474	474	2	474	275	56	29	88	28	474	386	35	29	26
		20-24	2630	1408	1205	17	1205	798	232	72	240	83	1205	1049	134	157	85
		25-29	2310	1303	982	25	982	749	200	53	233	93	982	788	197	251	92
		30-34	1667	1002	642	23	642	676	108	26	134	81	642	440	183	320	82
		35+	1089	682	390	17	390	543	41	17	49	49	390	240	87	321	51
	Years since diagnosis	5-9	1057	614	439	4	439	347	56	43	133	39	439	395	59	126	38
		10-14	3596	1821	1754	21	1754	1225	133	84	300	100	1754	1170	256	316	100
		15-19	3634	2011	1595	28	1595	1245	308	89	275	122	1595	1314	232	372	121
		20+	2808	1555	1216	37	1216	921	255	73	216	127	1216	913	187	361	131

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: All cancers

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
		All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
	Age at diagnosis	<1	877	246	628	3	628	191	12	18	13	15	628	214	10	9	16
		1-4	3650	1906	1727	17	1727	1074	351	135	254	109	1727	1536	171	106	110
		5-9	2327	1307	998	22	998	636	202	72	326	93	998	906	131	200	92
		10-14	2390	1387	982	21	982	899	139	46	231	93	982	738	234	347	89
		15-20	1851	1155	669	27	669	938	48	18	100	78	669	398	188	513	83

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: All leukemias

		All cases	Any radiation			Max dose to brain ¹						Max dose to chest ¹					
			Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
Both sexes	All cases	7245	3791	3393	61	3394	1999	1408	183	8	253	3394	3372	212	19	248	
	Age at baseline	<18	2096	1001	1085	10	1086	654	242	56	4	54	1086	919	32	5	54
		18-19	769	410	357	2	357	242	131	19	1	19	357	384	8	1	19
		20-24	1788	949	828	11	828	455	406	41	.	58	828	859	43	.	58
		25-29	1459	791	657	11	657	336	372	40	3	51	657	671	74	7	50
		30-34	761	417	326	18	326	194	177	18	.	46	326	351	36	3	45
		35+	372	223	140	9	140	118	80	9	.	25	140	188	19	3	22
	Years since diagnosis	5-9	904	487	415	2	416	282	123	48	4	31	416	428	25	4	31
		10-14	2445	1200	1226	19	1226	835	269	45	1	69	1226	1128	19	4	68
		15-19	2236	1228	994	14	994	579	538	51	.	74	994	1133	36	2	71
		20+	1660	876	758	26	758	303	478	39	3	79	758	683	132	9	78
	Age at diagnosis	<1	232	89	141	2	141	60	21	1	1	8	141	81	2	.	8
		1-4	3421	1700	1704	17	1704	849	690	84	4	90	1704	1513	105	8	91
		5-9	1754	919	818	17	819	453	363	46	3	70	819	808	55	3	69
		10-14	1203	713	480	10	480	410	229	36	.	48	480	634	41	3	45
		15-20	635	370	250	15	250	227	105	16	.	37	250	336	9	5	35
Males	All cases	3827	2086	1702	39	1703	1114	740	112	3	155	1703	1841	121	11	151	
	Age at baseline	<18	1136	590	539	7	540	383	144	35	.	34	540	539	21	2	34
		18-19	411	232	177	2	177	132	77	12	1	12	177	214	7	1	12
		20-24	891	488	398	5	398	241	202	20	.	30	398	445	19	.	29
		25-29	783	434	341	8	341	187	190	28	2	35	341	354	49	4	35
		30-34	397	211	176	10	176	96	86	13	.	26	176	180	15	1	25
		35+	209	131	71	7	71	75	41	4	.	18	71	109	10	3	16
	Years since diagnosis	5-9	510	307	201	2	202	179	74	35	.	20	202	267	18	3	20
		10-14	1301	681	609	11	609	463	162	27	1	39	609	640	12	1	39
		15-19	1136	619	508	9	508	296	260	27	.	45	508	565	19	2	42
		20+	880	479	384	17	384	176	244	23	2	51	384	369	72	5	50
	Age at diagnosis	<1	110	51	58	1	58	36	11	1	.	4	58	46	2	.	4
		1-4	1809	930	867	12	867	471	366	46	2	57	867	822	59	4	57
		5-9	935	518	407	10	408	267	190	29	1	40	408	456	32	.	39
		10-14	588	350	233	5	233	199	108	23	.	25	233	306	22	3	24
		15-20	385	237	137	11	137	141	65	13	.	29	137	211	6	4	27
Females	All cases	3418	1705	1691	22	1691	885	668	71	5	98	1691	1531	91	8	97	
	Age at baseline	<18	960	411	546	3	546	271	98	21	4	20	546	380	11	3	20
		18-19	358	178	180	.	180	110	54	7	.	7	180	170	1	.	7
		20-24	897	461	430	6	430	214	204	21	.	28	430	414	24	.	29
		25-29	676	357	316	3	316	149	182	12	1	16	316	317	25	3	15
		30-34	364	206	150	8	150	98	91	5	.	20	150	171	21	2	20
		35+	163	92	69	2	69	43	39	5	.	7	69	79	9	.	6
	Years since diagnosis	5-9	394	180	214	.	214	103	49	13	4	11	214	161	7	1	11
		10-14	1144	519	617	8	617	372	107	18	.	30	617	488	7	3	29
		15-19	1100	609	486	5	486	283	278	24	.	29	486	568	17	.	29
		20+	780	397	374	9	374	127	234	16	1	28	374	314	60	4	28
	Age at diagnosis	<1	122	38	83	1	83	24	10	.	1	4	83	35	.	.	4
		1-4	1612	770	837	5	837	378	324	38	2	33	837	691	46	4	34

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: All leukemias

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
		5-9	819	401	411	7	411	186	173	17	2	30	411	352	23	3	30
		10-14	615	363	247	5	247	211	121	13	.	23	247	328	19	.	21
		15-20	250	133	113	4	113	86	40	3	.	8	113	125	3	1	8

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¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: ALL

		All cases	Any radiation			Max dose to brain ¹						Max dose to chest ¹					
			Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
Both sexes	All cases	6067	3322	2697	48	2698	1678	1320	167	8	196	2698	2967	194	17	191	
	Age at baseline	<18	1812	894	908	10	909	577	223	54	4	45	909	821	32	5	45
		18-19	666	364	300	2	300	210	121	18	1	16	300	341	8	1	16
		20-24	1524	843	674	7	674	383	388	37	.	42	674	771	37	.	42
		25-29	1207	690	507	10	507	269	352	34	3	42	507	586	67	6	41
		30-34	590	352	224	14	224	150	167	17	.	32	224	297	35	3	31
		35+	268	179	84	5	84	89	69	7	.	19	84	151	15	2	16
	Years since diagnosis	5-9	777	434	342	1	343	245	118	45	4	22	343	383	25	4	22
		10-14	2049	1027	1005	17	1005	703	245	43	1	52	1005	973	16	4	51
		15-19	1847	1082	753	12	753	484	506	46	.	58	753	1005	32	2	55
		20+	1394	779	597	18	597	246	451	33	3	64	597	606	121	7	63
	Age at diagnosis	<1	127	58	67	2	67	39	13	1	1	6	67	53	1	.	6
		1-4	3030	1552	1463	15	1463	750	654	80	4	79	1463	1383	97	7	80
		5-9	1537	839	685	13	686	403	351	41	3	53	686	742	54	3	52
		10-14	940	586	347	7	347	323	206	32	.	32	347	525	36	3	29
		15-20	433	287	135	11	135	163	96	13	.	26	135	264	6	4	24
Males	All cases	3231	1851	1349	31	1350	955	693	103	3	127	1350	1637	112	9	123	
	Age at baseline	<18	982	527	448	7	449	337	132	34	.	30	449	480	21	2	30
		18-19	359	210	147	2	147	118	71	11	1	11	147	193	7	1	11
		20-24	759	436	321	2	321	207	191	17	.	23	321	399	17	.	22
		25-29	660	387	266	7	266	158	181	24	2	29	266	318	44	3	29
		30-34	313	181	123	9	123	77	81	13	.	19	123	157	14	1	18
		35+	158	110	44	4	44	58	37	4	.	15	44	90	9	2	13
	Years since diagnosis	5-9	440	274	165	1	166	156	70	33	.	15	166	238	18	3	15
		10-14	1099	596	493	10	493	401	145	25	1	34	493	562	9	1	34
		15-19	949	554	387	8	387	255	246	24	.	37	387	509	17	2	34
		20+	743	427	304	12	304	143	232	21	2	41	304	328	68	3	40
	Age at diagnosis	<1	63	32	30	1	30	23	6	1	.	3	30	29	1	.	3
		1-4	1591	853	728	10	728	420	348	43	2	50	728	753	57	3	50
		5-9	829	478	343	8	344	243	182	27	1	32	344	423	31	.	31
		10-14	476	298	174	4	174	165	96	21	.	20	174	261	19	3	19
		15-20	272	190	74	8	74	104	61	11	.	22	74	171	4	3	20
Females	All cases	2836	1471	1348	17	1348	723	627	64	5	69	1348	1330	82	8	68	
	Age at baseline	<18	830	367	460	3	460	240	91	20	4	15	460	341	11	3	15
		18-19	307	154	153	.	153	92	50	7	.	5	153	148	1	.	5
		20-24	765	407	353	5	353	176	197	20	.	19	353	372	20	.	20
		25-29	547	303	241	3	241	111	171	10	1	13	241	268	23	3	12
		30-34	277	171	101	5	101	73	86	4	.	13	101	140	21	2	13
		35+	110	69	40	1	40	31	32	3	.	4	40	61	6	.	3
	Years since diagnosis	5-9	337	160	177	.	177	89	48	12	4	7	177	145	7	1	7
		10-14	950	431	512	7	512	302	100	18	.	18	512	411	7	3	17
		15-19	898	528	366	4	366	229	260	22	.	21	366	496	15	.	21
		20+	651	352	293	6	293	103	219	12	1	23	293	278	53	4	23
	Age at diagnosis	<1	64	26	37	1	37	16	7	.	1	3	37	24	.	.	3
		1-4	1439	699	735	5	735	330	306	37	2	29	735	630	40	4	30

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: ALL

			Any radiation			Max dose to brain ¹					Max dose to chest ¹						
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
		5-9	708	361	342	5	342	160	169	14	2	21	342	319	23	3	21
		10-14	464	288	173	3	173	158	110	11	.	12	173	264	17	.	10
		15-20	161	97	61	3	61	59	35	2	.	4	61	93	2	1	4

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: AML

			Any radiation				Max dose to brain ¹					Max dose to chest ¹				
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
Both sexes	All cases		871	298	564	9	564	208	55	10	34	564	266	5	2	34
	Age at baseline	<18	225	71	154	.	154	54	13	.	4	154	67	.	.	4
		18-19	82	35	47	.	47	24	8	1	2	47	33	.	.	2
		20-24	191	68	119	4	119	50	7	2	13	119	59	.	.	13
		25-29	186	64	121	1	121	41	13	5	6	121	56	2	1	6
		30-34	118	38	79	1	79	25	7	1	6	79	32	1	.	6
		35+	69	22	44	3	44	14	7	1	3	44	19	2	1	3
	Years since diagnosis	5-9	81	28	52	1	52	22	2	.	5	52	24	.	.	5
		10-14	307	118	188	1	188	92	15	1	11	188	108	.	.	11
		15-19	301	104	195	2	195	64	28	4	10	195	94	2	.	10
		20+	182	48	129	5	129	30	10	5	8	129	40	3	2	8
	Age at diagnosis	<1	90	23	67	.	67	15	7	.	1	67	21	1	.	1
		1-4	299	94	203	2	203	69	17	3	7	203	87	1	1	7
		5-9	163	58	102	3	102	38	9	3	11	102	50	.	.	11
		10-14	182	76	105	1	105	51	16	3	7	105	69	1	.	7
		15-20	137	47	87	3	87	35	6	1	8	87	39	2	1	8
Males	All cases		427	147	272	8	272	102	27	5	21	272	129	3	2	21
	Age at baseline	<18	122	45	77	.	77	34	9	.	2	77	43	.	.	2
		18-19	42	17	25	.	25	10	5	1	1	25	16	.	.	1
		20-24	92	31	58	3	58	23	3	1	7	58	27	.	.	7
		25-29	82	25	56	1	56	14	5	3	4	56	20	1	1	4
		30-34	56	19	36	1	36	12	4	.	4	36	15	1	.	4
		35+	33	10	20	3	20	9	1	.	3	20	8	1	1	3
	Years since diagnosis	5-9	47	20	26	1	26	15	2	.	4	26	17	.	.	4
		10-14	152	55	96	1	96	41	10	1	4	96	52	.	.	4
		15-19	141	47	93	1	93	29	12	2	5	93	42	1	.	5
		20+	87	25	57	5	57	17	3	2	8	57	18	2	2	8
	Age at diagnosis	<1	39	15	24	.	24	10	5	.	.	24	14	1	.	.
		1-4	165	49	114	2	114	35	8	2	6	114	44	.	1	6
		5-9	75	28	45	2	45	17	6	1	6	45	24	.	.	6
		10-14	74	29	44	1	44	19	6	2	3	44	26	1	.	3
		15-20	74	26	45	3	45	21	2	.	6	45	21	1	1	6
Females	All cases		444	151	292	1	292	106	28	5	13	292	137	2	.	13
	Age at baseline	<18	103	26	77	.	77	20	4	.	2	77	24	.	.	2
		18-19	40	18	22	.	22	14	3	.	1	22	17	.	.	1
		20-24	99	37	61	1	61	27	4	1	6	61	32	.	.	6
		25-29	104	39	65	.	65	27	8	2	2	65	36	1	.	2
		30-34	62	19	43	.	43	13	3	1	2	43	17	.	.	2
		35+	36	12	24	.	24	5	6	1	.	24	11	1	.	.
	Years since diagnosis	5-9	34	8	26	.	26	7	.	.	1	26	7	.	.	1
		10-14	155	63	92	.	92	51	5	.	7	92	56	.	.	7
		15-19	160	57	102	1	102	35	16	2	5	102	52	1	.	5
		20+	95	23	72	.	72	13	7	3	.	72	22	1	.	.
	Age at diagnosis	<1	51	8	43	.	43	5	2	.	1	43	7	.	.	1
		1-4	134	45	89	.	89	34	9	1	1	89	43	1	.	1
		5-9	88	30	57	1	57	21	3	2	5	57	26	.	.	5

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: AML

			Any radiation			Max dose to brain ¹				Max dose to chest ¹						
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
	10-14		108	47	61	.	61	32	10	1	4	61	43	.	.	4
	15-20		63	21	42	.	42	14	4	1	2	42	18	1	.	2

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories
¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: All CNS

		All cases	Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30 Gy	Unknown	
Both sexes	All cases	4184	2433	1694	57	1694	103	10	251	1910	216	1694	1282	298	711	199	
	Age at baseline	<18	891	549	335	7	335	21	3	85	401	46	335	290	86	139	41
		18-19	349	192	153	4	153	2	1	19	160	14	153	109	30	45	12
		20-24	1093	611	469	13	469	28	.	51	499	46	469	303	94	183	44
		25-29	1021	627	380	14	380	29	5	56	499	52	380	333	55	206	47
		30-34	581	322	250	9	250	14	1	26	257	33	250	161	24	115	31
		35+	249	132	107	10	107	9	.	14	94	25	107	86	9	23	24
	Years since diagnosis	5-9	428	330	91	7	91	7	3	29	272	26	91	171	36	107	23
		10-14	1424	810	605	9	605	30	2	81	642	64	605	409	141	210	59
		15-19	1325	728	577	20	577	36	3	68	578	63	577	382	76	234	56
		20+	1007	565	421	21	421	30	2	73	418	63	421	320	45	160	61
	Age at diagnosis	<1	205	77	128	.	128	4	.	28	38	7	128	58	5	7	7
		1-4	1223	698	510	15	510	30	2	107	510	64	510	409	107	140	57
		5-9	1326	831	476	19	476	30	7	62	688	63	476	369	108	314	59
		10-14	996	582	402	12	402	31	1	40	476	46	402	297	63	193	41
		15-20	434	245	178	11	178	8	.	14	198	36	178	149	15	57	35
Males	All cases	2276	1367	872	37	872	54	7	129	1096	118	872	681	168	446	109	
	Age at baseline	<18	494	316	172	6	172	9	3	43	240	27	172	165	49	84	24
		18-19	176	100	74	2	74	2	1	12	83	4	74	55	14	29	4
		20-24	584	340	236	8	236	19	.	19	285	25	236	150	53	121	24
		25-29	579	367	204	8	204	13	3	33	297	29	204	189	31	129	26
		30-34	309	168	134	7	134	6	.	16	136	17	134	77	15	67	16
		35+	134	76	52	6	52	5	.	6	55	16	52	45	6	16	15
	Years since diagnosis	5-9	242	184	52	6	52	3	3	16	154	14	52	90	20	68	12
		10-14	766	460	301	5	301	17	2	42	372	32	301	225	79	130	31
		15-19	720	413	292	15	292	16	2	35	336	39	292	197	43	153	35
		20+	548	310	227	11	227	18	.	36	234	33	227	169	26	95	31
	Age at diagnosis	<1	121	50	71	.	71	3	.	16	29	2	71	40	4	4	2
		1-4	647	383	255	9	255	16	2	51	286	37	255	213	60	86	33
		5-9	738	476	250	12	250	18	4	32	403	31	250	195	61	204	28
		10-14	526	320	197	9	197	15	1	20	266	27	197	153	31	119	26
		15-20	244	138	99	7	99	2	.	10	112	21	99	80	12	33	20
Females	All cases	1908	1066	822	20	822	49	3	122	814	98	822	601	130	265	90	
	Age at baseline	<18	397	233	163	1	163	12	.	42	161	19	163	125	37	55	17
		18-19	173	92	79	2	79	.	.	7	77	10	79	54	16	16	8
		20-24	509	271	233	5	233	9	.	32	214	21	233	153	41	62	20
		25-29	442	260	176	6	176	16	2	23	202	23	176	144	24	77	21
		30-34	272	154	116	2	116	8	1	10	121	16	116	84	9	48	15
		35+	115	56	55	4	55	4	.	8	39	9	55	41	3	7	9
	Years since diagnosis	5-9	186	146	39	1	39	4	.	13	118	12	39	81	16	39	11
		10-14	658	350	304	4	304	13	.	39	270	32	304	184	62	80	28
		15-19	605	315	285	5	285	20	1	33	242	24	285	185	33	81	21
		20+	459	255	194	10	194	12	2	37	184	30	194	151	19	65	30
	Age at diagnosis	<1	84	27	57	.	57	1	.	12	9	5	57	18	1	3	5
		1-4	576	315	255	6	255	14	.	56	224	27	255	196	47	54	24

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: All CNS

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
		5-9	588	355	226	7	226	12	3	30	285	32	226	174	47	110	31
		10-14	470	262	205	3	205	16	.	20	210	19	205	144	32	74	15
		15-20	190	107	79	4	79	6	.	4	86	15	79	69	3	24	15

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Astrocytomas

		All cases	Any radiation			Max dose to brain ¹						Max dose to chest ¹					
			Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
Both sexes	All cases	2509	1105	1366	38	1366	52	4	137	824	126	1366	963	9	56	115	
	Age at baseline	<18	493	235	253	5	253	15	1	54	149	21	253	204	4	12	20
		18-19	202	80	120	2	120	2	.	4	69	7	120	73	.	2	7
		20-24	662	266	387	9	387	15	.	28	205	27	387	230	1	20	24
		25-29	629	295	322	12	322	13	3	29	225	37	322	258	3	14	32
		30-34	357	151	201	5	201	5	.	12	119	20	201	129	1	7	19
		35+	166	78	83	5	83	2	.	10	57	14	83	69	.	1	13
	Years since diagnosis	5-9	219	142	73	4	73	3	1	16	110	16	73	125	2	4	15
		10-14	838	342	490	6	490	15	.	42	257	34	490	296	3	18	31
		15-19	778	317	445	16	445	18	2	33	243	37	445	282	1	18	32
		20+	674	304	358	12	358	16	1	46	214	39	358	260	3	16	37
	Age at diagnosis	<1	144	54	90	.	90	3	.	20	25	6	90	43	1	4	6
		1-4	741	330	399	12	399	26	1	60	227	28	399	295	5	17	25
		5-9	750	327	410	13	410	11	3	33	255	38	410	284	2	18	36
		10-14	599	257	336	6	336	9	.	17	209	28	336	227	1	12	23
		15-20	275	137	131	7	131	3	.	7	108	26	131	114	.	5	25
Males	All cases	1302	583	696	23	696	29	2	61	450	64	696	509	5	35	57	
	Age at baseline	<18	258	129	125	4	125	6	1	25	90	11	125	114	3	5	11
		18-19	102	41	60	1	60	2	.	2	36	2	60	39	.	1	2
		20-24	325	130	190	5	190	7	.	8	108	12	190	111	1	13	10
		25-29	351	170	175	6	175	10	1	15	130	20	175	149	.	10	17
		30-34	178	70	103	5	103	2	.	6	56	11	103	59	1	5	10
		35+	88	43	43	2	43	2	.	5	30	8	43	37	.	1	7
	Years since diagnosis	5-9	117	72	42	3	42	1	1	8	59	6	42	65	2	2	6
		10-14	437	191	243	3	243	7	.	19	151	17	243	164	1	13	16
		15-19	391	164	216	11	216	8	1	13	129	24	216	144	1	10	20
		20+	357	156	195	6	195	13	.	21	111	17	195	136	1	10	15
	Age at diagnosis	<1	81	34	47	.	47	2	.	10	20	2	47	29	1	2	2
		1-4	373	170	196	7	196	14	1	24	124	14	196	152	3	10	12
		5-9	394	169	217	8	217	8	1	16	135	17	217	150	1	11	15
		10-14	302	137	161	4	161	5	.	7	114	15	161	119	.	9	13
		15-20	152	73	75	4	75	.	.	4	57	16	75	59	.	3	15
Females	All cases	1207	522	670	15	670	23	2	76	374	62	670	454	4	21	58	
	Age at baseline	<18	235	106	128	1	128	9	.	29	59	10	128	90	1	7	9
		18-19	100	39	60	1	60	.	.	2	33	5	60	34	.	1	5
		20-24	337	136	197	4	197	8	.	20	97	15	197	119	.	7	14
		25-29	278	125	147	6	147	3	2	14	95	17	147	109	3	4	15
		30-34	179	81	98	.	98	3	.	6	63	9	98	70	.	2	9
		35+	78	35	40	3	40	.	.	5	27	6	40	32	.	.	6
	Years since diagnosis	5-9	102	70	31	1	31	2	.	8	51	10	31	60	.	2	9
		10-14	401	151	247	3	247	8	.	23	106	17	247	132	2	5	15
		15-19	387	153	229	5	229	10	1	20	114	13	229	138	.	8	12
		20+	317	148	163	6	163	3	1	25	103	22	163	124	2	6	22
	Age at diagnosis	<1	63	20	43	.	43	1	.	10	5	4	43	14	.	2	4
		1-4	368	160	203	5	203	12	.	36	103	14	203	143	2	7	13

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Astrocytomas

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
		5-9	356	158	193	5	193	3	2	17	120	21	193	134	1	7	21
		10-14	297	120	175	2	175	4	.	10	95	13	175	108	1	3	10
		15-20	123	64	56	3	56	3	.	3	51	10	56	55	.	2	10

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 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Medulloblastoma/PNET

		Any radiation				Max dose to brain ¹						Max dose to chest ¹					
		All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
Both sexes	All cases	979	907	62	10	62	24	2	57	777	57	62	49	247	567	54	
	Age at baseline	<18	233	213	18	2	18	5	2	19	170	19	18	20	74	104	17
		18-19	77	69	8	.	8	.	.	9	56	4	8	4	26	36	3
		20-24	273	249	20	4	20	7	.	12	221	13	20	14	83	143	13
		25-29	236	226	9	1	9	7	.	10	200	10	9	7	41	169	10
		30-34	126	122	4	.	4	4	.	6	106	6	4	3	15	98	6
		35+	34	28	3	3	3	1	.	1	24	5	3	1	8	17	5
	Years since diagnosis	5-9	119	115	1	3	1	2	1	7	99	9	1	5	27	78	8
		10-14	333	315	16	2	16	8	1	18	272	18	16	18	123	159	17
		15-19	323	295	27	1	27	9	.	20	249	18	27	16	62	201	17
		20+	204	182	18	4	18	5	.	12	157	12	18	10	35	129	12
	Age at diagnosis	<1	23	11	12	.	12	1	.	5	4	1	12	6	3	1	1
		1-4	279	241	36	2	36	4	1	28	182	28	36	24	88	105	26
		5-9	402	393	6	3	6	11	1	13	358	13	6	16	98	270	12
		10-14	217	210	4	3	4	6	.	10	187	10	4	1	49	153	10
		15-20	58	52	4	2	4	2	.	1	46	5	4	2	9	38	5
Males	All cases	599	557	33	9	33	13	2	41	474	36	33	31	139	361	35	
	Age at baseline	<18	141	132	7	2	7	3	2	13	103	13	7	14	43	65	12
		18-19	43	40	3	.	3	.	.	8	31	1	3	2	14	23	1
		20-24	177	161	13	3	13	6	.	9	140	9	13	11	46	98	9
		25-29	145	139	5	1	5	2	.	9	123	6	5	3	23	108	6
		30-34	71	68	3	.	3	2	.	2	61	3	3	1	8	56	3
		35+	22	17	2	3	2	.	.	16	4	2	.	5	11	4	4
	Years since diagnosis	5-9	72	69	.	3	.	1	1	6	57	7	.	2	13	51	6
		10-14	196	187	7	2	7	6	1	13	158	11	7	12	69	97	11
		15-19	207	188	18	1	18	4	.	14	162	9	18	10	36	134	9
		20+	124	113	8	3	8	2	.	8	97	9	8	7	21	79	9
	Age at diagnosis	<1	16	10	6	.	6	1	.	5	4	.	6	6	3	1	.
		1-4	168	151	16	1	16	2	1	19	113	17	16	16	52	67	17
		5-9	257	249	5	3	5	6	1	11	225	9	5	8	57	179	8
		10-14	123	117	3	3	3	3	.	5	104	8	3	.	21	91	8
		15-20	35	30	3	2	3	1	.	1	28	2	3	1	6	23	2
Females	All cases	380	350	29	1	29	11	.	16	303	21	29	18	108	206	19	
	Age at baseline	<18	92	81	11	.	11	2	.	6	67	6	11	6	31	39	5
		18-19	34	29	5	.	5	.	.	1	25	3	5	2	12	13	2
		20-24	96	88	7	1	7	1	.	3	81	4	7	3	37	45	4
		25-29	91	87	4	.	4	5	.	1	77	4	4	4	18	61	4
		30-34	55	54	1	.	1	2	.	4	45	3	1	2	7	42	3
		35+	12	11	1	.	1	1	.	1	8	1	1	1	3	6	1
	Years since diagnosis	5-9	47	46	1	.	1	1	.	1	42	2	1	3	14	27	2
		10-14	137	128	9	.	9	2	.	5	114	7	9	6	54	62	6
		15-19	116	107	9	.	9	5	.	6	87	9	9	6	26	67	8
		20+	80	69	10	1	10	3	.	4	60	3	10	3	14	50	3
	Age at diagnosis	<1	7	1	6	.	6	1	6	.	.	.	1
		1-4	111	90	20	1	20	2	.	9	69	11	20	8	36	38	9
		5-9	145	144	1	.	1	5	.	2	133	4	1	8	41	91	4

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Medulloblastoma/PNET

			Any radiation			Max dose to brain ¹					Max dose to chest ¹						
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
	10-14	94	93	1	.	1	3	.	5	83	2	1	1	28	62	2	
	15-20	23	22	1	.	1	1	.	.	18	3	1	1	3	15	3	

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories
¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Hodgkin

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
Both sexes	All cases		2827	2431	371	25	371	2318	10	15	1	112	371	279	713	1343	121
	Age at baseline	<18	55	49	6	.	6	44	1	1	1	2	6	17	16	14	2
		18-19	55	39	16	.	16	39	.	.	.	.	16	17	13	9	.
		20-24	328	274	53	1	53	259	1	2	.	13	53	62	87	112	14
		25-29	733	623	104	6	104	586	6	5	.	32	104	85	242	268	34
		30-34	862	750	100	12	100	721	2	5	.	34	100	59	244	421	38
		35+	794	696	92	6	92	669	.	2	.	31	92	39	111	519	33
	Years since diagnosis	5-9	221	200	19	2	19	188	1	3	1	9	19	19	54	120	9
		10-14	867	731	128	8	128	703	3	2	.	31	128	94	266	345	34
		15-19	930	816	105	9	105	775	5	6	.	39	105	97	265	421	42
		20+	809	684	119	6	119	652	1	4	.	33	119	69	128	457	36
	Age at diagnosis	1-4	71	55	16	.	16	52	.	1	.	2	16	32	9	12	2
		5-9	353	283	69	1	69	261	4	2	1	16	69	84	87	96	17
		10-14	1026	872	147	7	147	829	3	7	.	40	147	103	325	408	43
		15-20	1377	1221	139	17	139	1176	3	5	.	54	139	60	292	827	59
Males	All cases		1458	1257	191	10	191	1195	7	13	1	51	191	206	344	660	57
	Age at baseline	<18	42	38	4	.	4	33	1	1	1	2	4	15	11	10	2
		18-19	44	32	12	.	12	32	.	.	.	.	12	16	10	6	.
		20-24	207	177	30	.	30	168	1	1	.	7	30	45	57	67	8
		25-29	401	350	46	5	46	326	4	5	.	20	46	66	117	151	21
		30-34	429	364	60	5	60	349	1	5	.	14	60	44	109	199	17
		35+	335	296	39	.	39	287	.	1	.	8	39	20	40	227	9
	Years since diagnosis	5-9	126	114	11	1	11	108	1	2	1	3	11	15	31	66	3
		10-14	441	381	56	4	56	366	1	2	.	16	56	64	129	174	18
		15-19	492	429	59	4	59	403	5	6	.	19	59	79	127	205	22
		20+	399	333	65	1	65	318	.	3	.	13	65	48	57	215	14
	Age at diagnosis	1-4	52	41	11	.	11	38	.	1	.	2	11	25	6	8	2
		5-9	259	212	47	.	47	193	4	2	1	12	47	73	61	65	13
		10-14	522	440	78	4	78	420	1	6	.	17	78	70	158	197	19
		15-20	625	564	55	6	55	544	2	4	.	20	55	38	119	390	23
Females	All cases		1369	1174	180	15	180	1123	3	2	.	61	180	73	369	683	64
	Age at baseline	<18	13	11	2	.	2	11	.	.	.	.	2	2	5	4	.
		18-19	11	7	4	.	4	7	.	.	.	.	4	1	3	3	.
		20-24	121	97	23	1	23	91	.	1	.	6	23	17	30	45	6
		25-29	332	273	58	1	58	260	2	.	.	12	58	19	125	117	13
		30-34	433	386	40	7	40	372	1	.	.	20	40	15	135	222	21
		35+	459	400	53	6	53	382	.	1	.	23	53	19	71	292	24
	Years since diagnosis	5-9	95	86	8	1	8	80	.	1	.	6	8	4	23	54	6
		10-14	426	350	72	4	72	337	2	.	.	15	72	30	137	171	16
		15-19	438	387	46	5	46	372	.	.	.	20	46	18	138	216	20
		20+	410	351	54	5	54	334	1	1	.	20	54	21	71	242	22
	Age at diagnosis	1-4	19	14	5	.	5	14	.	.	.	.	5	7	3	4	.
		5-9	94	71	22	1	22	68	.	.	.	4	22	11	26	31	4
		10-14	504	432	69	3	69	409	2	1	.	23	69	33	167	211	24
		15-20	752	657	84	11	84	632	1	1	.	34	84	22	173	437	36

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: NHL

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
Both sexes	All cases		1915	810	1093	12	1093	550	151	56	13	52	1093	549	95	124	54
	Age at baseline	<18	200	84	116	.	116	56	22	2	2	2	116	66	10	6	2
		18-19	119	49	69	1	69	34	9	4	.	3	69	35	9	2	4
		20-24	405	159	246	.	246	105	37	6	1	10	246	118	15	16	10
		25-29	526	207	314	5	314	141	35	18	4	14	314	144	29	25	14
		30-34	438	200	234	4	234	125	40	18	3	18	234	124	24	38	18
		35+	227	111	114	2	114	89	8	8	3	5	114	62	8	37	6
	Years since diagnosis	5-9	132	65	67	.	67	41	13	5	2	4	67	41	13	6	5
		10-14	609	247	360	2	360	176	47	14	3	9	360	180	25	34	10
		15-19	657	284	369	4	369	183	59	25	2	19	369	189	36	44	19
		20+	517	214	297	6	297	150	32	12	6	20	297	139	21	40	20
	Age at diagnosis	<1	12	6	6	.	6	5	1	.	.	.	6	5	1	.	.
		1-4	315	115	199	1	199	75	28	3	1	9	199	94	9	4	9
		5-9	579	233	340	6	340	150	55	13	5	16	340	164	31	28	16
		10-14	602	264	336	2	336	181	45	21	3	16	336	180	32	37	17
		15-20	407	192	212	3	212	139	22	19	4	11	212	106	22	55	12
Males	All cases		1290	543	742	5	742	367	102	43	8	28	742	383	61	75	29
	Age at baseline	<18	138	56	82	.	82	39	12	2	2	1	82	45	6	4	1
		18-19	87	41	45	1	45	30	7	2	.	3	45	27	9	2	4
		20-24	264	101	163	.	163	65	24	5	.	7	163	71	11	12	7
		25-29	367	141	225	1	225	93	26	14	2	7	225	106	19	10	7
		30-34	286	128	155	3	155	81	27	13	2	8	155	91	11	21	8
		35+	148	76	72	.	72	59	6	7	2	2	72	43	5	26	2
	Years since diagnosis	5-9	99	47	52	.	52	32	8	3	1	3	52	29	11	3	4
		10-14	413	167	245	1	245	118	31	12	2	5	245	129	16	18	5
		15-19	426	178	246	2	246	110	40	19	1	10	246	126	22	22	10
		20+	352	151	199	2	199	107	23	9	4	10	199	99	12	32	10
	Age at diagnosis	<1	3	.	3	.	3	.	.	.	.	.	3	.	.	.	.
		1-4	211	78	132	1	132	50	18	3	1	7	132	63	5	4	7
		5-9	404	166	235	3	235	112	38	8	3	8	235	121	22	18	8
		10-14	409	174	235	.	235	115	31	18	2	8	235	125	19	21	9
		15-20	263	125	137	1	137	90	15	14	2	5	137	74	15	32	5
Females	All cases		625	267	351	7	351	183	49	13	5	24	351	166	34	49	25
	Age at baseline	<18	62	28	34	.	34	17	10	.	.	1	34	21	4	2	1
		18-19	32	8	24	.	24	4	2	2	.	.	24	8	.	.	.
		20-24	141	58	83	.	83	40	13	1	1	3	83	47	4	4	3
		25-29	159	66	89	4	89	48	9	4	2	7	89	38	10	15	7
		30-34	152	72	79	1	79	44	13	5	1	10	79	33	13	17	10
		35+	79	35	42	2	42	30	2	1	1	3	42	19	3	11	4
	Years since diagnosis	5-9	33	18	15	.	15	9	5	2	1	1	15	12	2	3	1
		10-14	196	80	115	1	115	58	16	2	1	4	115	51	9	16	5
		15-19	231	106	123	2	123	73	19	6	1	9	123	63	14	22	9
		20+	165	63	98	4	98	43	9	3	2	10	98	40	9	8	10
	Age at diagnosis	<1	9	6	3	.	3	5	1	.	.	.	3	5	1	.	.
		1-4	104	37	67	.	67	25	10	.	.	2	67	31	4	.	2
		5-9	175	67	105	3	105	38	17	5	2	8	105	43	9	10	8

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: NHL

			Any radiation			Max dose to brain ¹					Max dose to chest ¹						
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
	10-14	193	90	101	2	101	66	14	3	1	8	101	55	13	16	8	
	15-20	144	67	75	2	75	49	7	5	2	6	75	32	7	23	7	

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories
¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Wilms

			Any radiation				Max dose to brain ¹					Max dose to chest ¹				
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
Both sexes	All cases		2070	1158	903	9	903	1095	1	2	69	903	979	83	35	70
	Age at baseline	<18	761	374	386	1	386	359	.	.	16	386	321	27	10	17
		18-19	275	156	119	.	119	145	.	.	11	119	132	12	1	11
		20-24	611	348	260	3	260	328	1	2	20	260	298	24	9	20
		25-29	342	227	111	4	111	214	.	.	17	111	186	18	10	17
		30-34	66	43	22	1	22	40	.	.	4	22	34	2	4	4
		35+	15	10	5	.	5	9	.	.	1	5	8	.	1	1
	Years since diagnosis	5-9	167	87	80	.	80	83	.	1	3	80	76	5	3	3
		10-14	675	367	307	1	307	352	1	.	15	307	306	37	9	16
		15-19	679	379	297	3	297	355	.	1	26	297	325	20	11	26
		20+	549	325	219	5	219	305	.	.	25	219	272	21	12	25
	Age at diagnosis	<1	301	77	220	4	220	75	.	.	6	220	72	2	1	6
		1-4	1261	726	535	.	535	685	.	1	40	535	622	49	14	41
		5-9	434	301	129	4	129	286	1	.	18	129	241	29	17	18
		10-14	54	41	12	1	12	39	.	.	3	12	33	3	3	3
		15-20	20	13	7	.	7	10	.	1	2	7	11	.	.	2
Males	All cases		917	499	413	5	413	472	.	.	32	413	426	30	16	32
	Age at baseline	<18	369	183	185	1	185	173	.	.	11	185	159	9	5	11
		18-19	111	53	58	.	58	51	.	.	2	58	46	4	1	2
		20-24	252	137	112	3	112	126	.	.	14	112	117	6	3	14
		25-29	152	106	45	1	45	103	.	.	4	45	88	11	4	4
		30-34	27	17	10	.	10	16	.	.	1	10	14	.	2	1
		35+	6	3	3	.	3	3	.	.	.	3	2	.	1	.
	Years since diagnosis	5-9	74	41	33	.	33	40	.	.	1	33	37	1	2	1
		10-14	307	156	150	1	150	147	.	.	10	150	129	14	4	10
		15-19	289	151	137	1	137	142	.	.	10	137	131	6	5	10
		20+	247	151	93	3	93	143	.	.	11	93	129	9	5	11
	Age at diagnosis	<1	149	35	110	4	110	35	.	.	4	110	34	1	.	4
		1-4	564	327	237	.	237	308	.	.	19	237	285	16	7	19
		5-9	177	118	58	1	58	110	.	.	9	58	92	11	7	9
		10-14	19	15	4	.	4	15	.	.	.	4	11	2	2	.
		15-20	8	4	4	.	4	4	.	.	.	4	4	.	.	.
Females	All cases		1153	659	490	4	490	623	1	2	37	490	553	53	19	38
	Age at baseline	<18	392	191	201	.	201	186	.	.	5	201	162	18	5	6
		18-19	164	103	61	.	61	94	.	.	9	61	86	8	.	9
		20-24	359	211	148	.	148	202	1	2	6	148	181	18	6	6
		25-29	190	121	66	3	66	111	.	.	13	66	98	7	6	13
		30-34	39	26	12	1	12	24	.	.	3	12	20	2	2	3
		35+	9	7	2	.	2	6	.	.	1	2	6	.	.	1
	Years since diagnosis	5-9	93	46	47	.	47	43	.	1	2	47	39	4	1	2
		10-14	368	211	157	.	157	205	1	.	5	157	177	23	5	6
		15-19	390	228	160	2	160	213	.	1	16	160	194	14	6	16
		20+	302	174	126	2	126	162	.	.	14	126	143	12	7	14
	Age at diagnosis	<1	152	42	110	.	110	40	.	.	2	110	38	1	1	2
		1-4	697	399	298	.	298	377	.	1	21	298	337	33	7	22
		5-9	257	183	71	3	71	176	1	.	9	71	149	18	10	9

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 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Wilms

			Any radiation				Max dose to brain ¹				Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
		10-14	35	26	8	1	8	24	.	.	3	8	22	1	1	3
		15-20	12	9	3	.	3	6	.	1	2	3	7	.	.	2

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories
¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Neuroblastoma

		All cases	Any radiation			Max dose to brain ¹					Max dose to chest ¹						
			Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
Both sexes	All cases	1798	673	1114	11	1114	572	30	21	15	46	1114	487	95	56	46	
	Age at baseline	<18	889	289	595	5	595	249	11	11	4	19	595	215	44	17	18
		18-19	216	67	149	.	149	56	3	3	2	3	149	50	9	5	3
		20-24	504	220	281	3	281	191	13	5	1	13	281	159	34	16	14
		25-29	150	73	74	3	74	59	2	2	4	9	74	50	7	10	9
		30-34	34	21	13	.	13	17	1	.	2	1	13	11	1	8	1
		35+	5	3	2	.	2	.	.	.	2	1	2	2	.	.	1
	Years since diagnosis	5-9	152	79	71	2	71	61	4	7	1	8	71	51	10	12	8
		10-14	558	170	386	2	386	144	8	7	6	7	386	121	33	11	7
		15-19	594	210	381	3	381	184	8	4	2	15	381	162	22	15	14
		20+	494	214	276	4	276	183	10	3	6	16	276	153	30	18	17
	Age at diagnosis	<1	912	216	693	3	693	206	5	1	.	7	693	184	21	6	8
		1-4	706	360	339	7	339	293	19	14	7	34	339	243	65	26	33
		5-9	137	73	64	.	64	58	5	4	3	3	64	46	8	16	3
		10-14	27	14	12	1	12	9	1	2	2	1	12	9	1	4	1
		15-20	16	10	6	.	6	6	.	.	3	1	6	5	.	4	1
Males	All cases	870	323	543	4	543	277	15	7	3	25	543	232	47	24	24	
	Age at baseline	<18	440	140	297	3	297	122	4	3	1	13	297	102	23	6	12
		18-19	94	33	61	.	61	26	3	2	.	2	61	27	2	2	2
		20-24	255	104	150	1	150	91	6	1	1	6	150	76	18	5	6
		25-29	65	33	32	.	32	28	1	1	.	3	32	21	3	6	3
		30-34	14	11	3	.	3	10	1	.	.	.	3	5	1	5	.
		35+	2	2	.	.	.	.	.	.	1	1	.	1	.	.	1
	Years since diagnosis	5-9	72	37	34	1	34	27	2	3	1	5	34	24	4	5	5
		10-14	274	83	190	1	190	73	3	2	1	5	190	59	17	3	5
		15-19	283	99	183	1	183	87	4	.	.	9	183	75	10	7	8
		20+	241	104	136	1	136	90	6	2	1	6	136	74	16	9	6
	Age at diagnosis	<1	470	108	361	1	361	102	4	.	.	3	361	90	14	2	3
		1-4	317	167	147	3	147	138	7	5	1	19	147	113	28	11	18
		5-9	67	38	29	.	29	30	4	1	1	2	29	25	4	7	2
		10-14	10	6	4	.	4	5	.	1	.	.	4	3	1	2	.
		15-20	6	4	2	.	2	2	.	.	1	1	2	1	.	2	1
Females	All cases	928	350	571	7	571	295	15	14	12	21	571	255	48	32	22	
	Age at baseline	<18	449	149	298	2	298	127	7	8	3	6	298	113	21	11	6
		18-19	122	34	88	.	88	30	.	1	2	1	88	23	7	3	1
		20-24	249	116	131	2	131	100	7	4	.	7	131	83	16	11	8
		25-29	85	40	42	3	42	31	1	1	4	6	42	29	4	4	6
		30-34	20	10	10	.	10	7	.	.	2	1	10	6	.	3	1
		35+	3	1	2	.	2	.	.	.	1	.	2	1	.	.	.
	Years since diagnosis	5-9	80	42	37	1	37	34	2	4	.	3	37	27	6	7	3
		10-14	284	87	196	1	196	71	5	5	5	2	196	62	16	8	2
		15-19	311	111	198	2	198	97	4	4	2	6	198	87	12	8	6
		20+	253	110	140	3	140	93	4	1	5	10	140	79	14	9	11
	Age at diagnosis	<1	442	108	332	2	332	104	1	1	.	4	332	94	7	4	5
		1-4	389	193	192	4	192	155	12	9	6	15	192	130	37	15	15
		5-9	70	35	35	.	35	28	1	3	2	1	35	21	4	9	1

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Neuroblastoma

			Any radiation			Max dose to brain ¹					Max dose to chest ¹						
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
	10-14		17	8	8	1	8	4	1	1	2	1	8	6	.	2	1
	15-20		10	6	4	.	4	4	.	.	2	.	4	4	.	2	.

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories
¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: STS

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
Both sexes	All cases		1588	1043	532	13	532	682	19	119	173	63	532	868	8	114	66
	Age at baseline	<18	313	213	99	1	99	134	1	39	29	11	99	180	1	22	11
		18-19	115	81	34	.	34	46	.	15	18	2	34	70	1	8	2
		20-24	382	259	120	3	120	166	9	25	48	14	120	221	2	24	15
		25-29	351	241	107	3	107	154	4	25	44	17	107	200	1	26	17
		30-34	264	169	91	4	91	120	3	13	24	13	91	132	2	25	14
		35+	163	80	81	2	81	62	2	2	10	6	81	65	1	9	7
	Years since diagnosis	5-9	165	117	48	.	48	75	.	18	19	5	48	89	.	23	5
		10-14	473	315	155	3	155	205	3	39	52	19	155	273	2	23	20
		15-19	498	321	173	4	173	218	9	31	53	14	173	267	2	41	15
		20+	452	290	156	6	156	184	7	31	49	25	156	239	4	27	26
	Age at diagnosis	<1	108	34	72	2	72	23	.	5	3	5	72	31	.	1	4
		1-4	507	376	129	2	129	239	6	59	55	19	129	321	3	33	21
		5-9	361	274	85	2	85	149	9	36	67	15	85	231	2	28	15
		10-14	311	209	99	3	99	146	4	14	35	13	99	165	1	33	13
		15-20	301	150	147	4	147	125	.	5	13	11	147	120	2	19	13
Males	All cases		847	555	286	6	286	362	6	63	94	36	286	462	4	58	37
	Age at baseline	<18	179	127	51	1	51	82	1	20	17	8	51	108	.	13	7
		18-19	58	40	18	.	18	26	.	4	9	1	18	34	1	4	1
		20-24	213	141	70	2	70	91	2	15	28	7	70	119	1	15	8
		25-29	179	122	56	1	56	76	.	14	23	10	56	102	.	11	10
		30-34	139	87	50	2	50	57	1	8	15	8	50	68	1	11	9
		35+	79	38	41	.	41	30	2	2	2	2	41	31	1	4	2
	Years since diagnosis	5-9	89	65	24	.	24	42	.	10	10	3	24	47	.	15	3
		10-14	264	182	81	1	81	120	1	21	30	11	81	160	.	12	11
		15-19	252	150	100	2	100	101	3	12	28	8	100	126	1	17	8
		20+	242	158	81	3	81	99	2	20	26	14	81	129	3	14	15
	Age at diagnosis	<1	44	11	31	2	31	8	.	.	.	5	31	9	.	.	4
		1-4	293	214	78	1	78	141	1	30	33	10	78	184	2	18	11
		5-9	202	146	55	1	55	78	2	22	35	10	55	121	.	16	10
		10-14	167	117	49	1	49	79	3	9	21	6	49	96	1	15	6
		15-20	141	67	73	1	73	56	.	2	5	5	73	52	1	9	6
Females	All cases		741	488	246	7	246	320	13	56	79	27	246	406	4	56	29
	Age at baseline	<18	134	86	48	.	48	52	.	19	12	3	48	72	1	9	4
		18-19	57	41	16	.	16	20	.	11	9	1	16	36	.	4	1
		20-24	169	118	50	1	50	75	7	10	20	7	50	102	1	9	7
		25-29	172	119	51	2	51	78	4	11	21	7	51	98	1	15	7
		30-34	125	82	41	2	41	63	2	5	9	5	41	64	1	14	5
		35+	84	42	40	2	40	32	.	.	8	4	40	34	.	5	5
	Years since diagnosis	5-9	76	52	24	.	24	33	.	8	9	2	24	42	.	8	2
		10-14	209	133	74	2	74	85	2	18	22	8	74	113	2	11	9
		15-19	246	171	73	2	73	117	6	19	25	6	73	141	1	24	7
		20+	210	132	75	3	75	85	5	11	23	11	75	110	1	13	11
	Age at diagnosis	<1	64	23	41	.	41	15	.	5	3	.	41	22	.	1	.
		1-4	214	162	51	1	51	98	5	29	22	9	51	137	1	15	10
		5-9	159	128	30	1	30	71	7	14	32	5	30	110	2	12	5

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: STS

			Any radiation			Max dose to brain ¹					Max dose to chest ¹						
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
		10-14	144	92	50	2	50	67	1	5	14	7	50	69	.	18	7
		15-20	160	83	74	3	74	69	.	3	8	6	74	68	1	10	7

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 Data for patients with medical records abstraction and completed baseline qx, info in 1st 5 years
 N/% reflect those with direct radiation; Patients with TBI not included in other categories
¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: All bone

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
Both sexes	All cases		1931	598	1316	17	1316	527	2	23	17	46	1316	428	10	127	50
	Age at baseline	<18	85	42	42	1	42	36	.	5	.	2	42	27	3	11	2
		18-19	66	29	37	.	37	26	.	1	1	1	37	19	.	9	1
		20-24	359	131	225	3	225	112	2	4	8	8	225	91	.	35	8
		25-29	528	154	369	5	369	130	.	6	6	17	369	106	2	33	18
		30-34	517	141	369	7	369	127	.	4	2	15	369	101	3	26	18
		35+	376	101	274	1	274	96	.	3	.	3	274	84	2	13	3
	Years since diagnosis	5-9	214	93	118	3	118	82	.	4	3	7	118	60	3	28	5
		10-14	629	180	447	2	447	161	.	8	2	11	447	127	1	41	13
		15-19	633	181	444	8	444	155	2	7	8	17	444	133	4	33	19
		20+	455	144	307	4	307	129	.	4	4	11	307	108	2	25	13
	Age at diagnosis	<1	8	4	4	.	4	3	.	1	.	.	4	4	.	.	.
		1-4	80	36	43	1	43	27	1	3	3	3	43	22	1	10	4
		5-9	338	133	203	2	203	110	1	8	6	10	203	94	3	28	10
		10-14	774	220	545	9	545	202	.	5	5	17	545	153	3	53	20
		15-20	731	205	521	5	521	185	.	6	3	16	521	155	3	36	16
Males	All cases		978	306	663	9	663	267	2	14	8	24	663	221	5	64	25
	Age at baseline	<18	43	19	23	1	23	15	.	3	.	2	23	13	2	3	2
		18-19	33	18	15	.	15	16	.	.	1	1	15	11	.	6	1
		20-24	174	55	118	1	118	45	2	3	3	3	118	39	.	15	2
		25-29	274	87	185	2	185	74	.	4	3	8	185	61	1	19	8
		30-34	255	75	175	5	175	67	.	3	1	9	175	54	1	14	11
		35+	199	52	147	.	147	50	.	1	.	1	147	43	1	7	1
	Years since diagnosis	5-9	114	49	63	2	63	41	.	3	2	5	63	31	2	15	3
		10-14	318	89	228	1	228	77	.	6	.	7	228	62	1	19	8
		15-19	320	97	220	3	220	85	2	5	3	5	220	75	1	18	6
		20+	226	71	152	3	152	64	.	.	3	7	152	53	1	12	8
	Age at diagnosis	<1	4	2	2	.	2	1	.	1	.	.	2	2	.	.	.
		1-4	41	20	21	.	21	14	1	1	3	1	21	15	1	3	1
		5-9	173	66	105	2	105	53	1	5	3	6	105	48	1	13	6
		10-14	362	106	251	5	251	100	.	2	1	8	251	72	1	28	10
		15-20	398	112	284	2	284	99	.	5	1	9	284	84	2	20	8
Females	All cases		953	292	653	8	653	260	.	9	9	22	653	207	5	63	25
	Age at baseline	<18	42	23	19	.	19	21	.	2	.	.	19	14	1	8	.
		18-19	33	11	22	.	22	10	.	1	.	.	22	8	.	3	.
		20-24	185	76	107	2	107	67	.	1	5	5	107	52	.	20	6
		25-29	254	67	184	3	184	56	.	2	3	9	184	45	1	14	10
		30-34	262	66	194	2	194	60	.	1	1	6	194	47	2	12	7
		35+	177	49	127	1	127	46	.	2	.	2	127	41	1	6	2
	Years since diagnosis	5-9	100	44	55	1	55	41	.	1	1	2	55	29	1	13	2
		10-14	311	91	219	1	219	84	.	2	2	4	219	65	.	22	5
		15-19	313	84	224	5	224	70	.	2	5	12	224	58	3	15	13
		20+	229	73	155	1	155	65	.	4	1	4	155	55	1	13	5
	Age at diagnosis	<1	4	2	2	.	2	2	2	2	.	.	.
		1-4	39	16	22	1	22	13	.	2	.	2	22	7	.	7	3
		5-9	165	67	98	.	98	57	.	3	3	4	98	46	2	15	4

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¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: All bone

			Any radiation				Max dose to brain ¹					Max dose to chest ¹					
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
	10-14	412	114	294	4	294	102	.	3	4	9	294	81	2	25	10	
	15-20	333	93	237	3	237	86	.	1	2	7	237	71	1	16	8	

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 N/% reflect those with direct radiation; Patients with TBI not included in other categories

¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Ewings

		Any radiation				Max dose to brain ¹						Max dose to chest ¹					
		All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown	
Both sexes	All cases	685	464	213	8	213	414	1	19	10	28	213	337	7	100	28	
	Age at baseline	<18	54	35	19	.	19	31	.	4	.	.	19	22	3	10	.
		18-19	33	22	11	.	11	22	.	.	.	.	11	15	.	7	.
		20-24	157	109	47	1	47	93	1	4	6	6	47	78	.	27	5
		25-29	193	128	60	5	60	113	.	6	2	12	60	90	2	29	12
		30-34	153	102	49	2	49	91	.	3	2	8	49	75	1	19	9
		35+	95	68	27	.	27	64	.	2	.	2	27	57	1	8	2
	Years since diagnosis	5-9	90	74	15	1	15	67	.	4	1	3	15	48	3	22	2
		10-14	231	145	85	1	85	133	.	6	1	6	85	108	.	32	6
		15-19	214	140	71	3	71	121	1	5	6	10	71	104	3	26	10
		20+	150	105	42	3	42	93	.	4	2	9	42	77	1	20	10
	Age at diagnosis	<1	4	2	2	.	2	2	.	.	.	.	2	2	.	.	.
		1-4	50	31	18	1	18	24	1	2	2	3	18	18	1	10	3
		5-9	170	113	55	2	55	96	.	8	4	7	55	80	3	25	7
		10-14	257	170	83	4	83	157	.	5	2	10	83	123	2	38	11
		15-20	204	148	55	1	55	135	.	4	2	8	55	114	1	27	7
Males	All cases	353	238	112	3	112	214	1	11	4	11	112	174	4	52	11	
	Age at baseline	<18	24	14	10	.	10	12	.	2	.	.	10	10	2	2	.
		18-19	17	13	4	.	4	13	.	.	.	.	4	8	.	5	.
		20-24	78	49	29	.	29	40	1	3	3	2	29	35	.	13	1
		25-29	99	71	26	2	26	65	.	4	.	4	26	50	1	18	4
		30-34	83	53	29	1	29	47	.	2	1	4	29	39	.	10	5
		35+	52	38	14	.	14	37	.	.	.	1	14	32	1	4	1
	Years since diagnosis	5-9	48	40	7	1	7	36	.	3	.	2	7	26	2	12	1
		10-14	109	69	40	.	40	62	.	4	.	3	40	49	.	17	3
		15-19	115	75	40	.	40	66	1	4	3	1	40	60	1	13	1
		20+	81	54	25	2	25	50	.	.	1	5	25	39	1	10	6
	Age at diagnosis	<1	2	.	2	.	2	.	.	.	.	2	.	.	.	.	.
		1-4	26	18	8	.	8	13	1	1	2	1	8	13	1	3	1
		5-9	84	53	29	2	29	45	.	5	2	3	29	39	1	12	3
		10-14	135	88	47	.	47	84	.	2	.	2	47	62	1	22	3
		15-20	106	79	26	1	26	72	.	3	.	5	26	60	1	15	4
Females	All cases	332	226	101	5	101	200	.	8	6	17	101	163	3	48	17	
	Age at baseline	<18	30	21	9	.	9	19	.	2	.	.	9	12	1	8	.
		18-19	16	9	7	.	7	9	.	.	.	.	7	7	.	2	.
		20-24	79	60	18	1	18	53	.	1	3	4	18	43	.	14	4
		25-29	94	57	34	3	34	48	.	2	2	8	34	40	1	11	8
		30-34	70	49	20	1	20	44	.	1	1	4	20	36	1	9	4
		35+	43	30	13	.	13	27	.	2	.	1	13	25	.	4	1
	Years since diagnosis	5-9	42	34	8	.	8	31	.	1	1	1	8	22	1	10	1
		10-14	122	76	45	1	45	71	.	2	1	3	45	59	.	15	3
		15-19	99	65	31	3	31	55	.	1	3	9	31	44	2	13	9
		20+	69	51	17	1	17	43	.	4	1	4	17	38	.	10	4
	Age at diagnosis	<1	2	2	.	.	2	2
		1-4	24	13	10	1	10	11	.	1	.	2	10	5	.	7	2
		5-9	86	60	26	.	26	51	.	3	2	4	26	41	2	13	4

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¹ Level of 1-19.9 Gy includes scatter doses of radiation

Radiotherapy with select doses: Ewings

			Any radiation			Max dose to brain ¹					Max dose to chest ¹						
			All cases	Yes	No	Unknown	None	1-19.9 Gy	20-29.9 Gy	30-49.9 Gy	>=50 Gy	Unknown	None	1-19.9 Gy	20-29.9 Gy	>=30	Unknown
		10-14	122	82	36	4	36	73	.	3	2	8	36	61	1	16	8
		15-20	98	69	29	.	29	63	.	1	2	3	29	54	.	12	3

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