

Surgery: All cancers

			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases		23558	18206	5148	204	1457	6.2	751	3.2	845	3.6
	Age at baseline	<18	5290	3876	1371	43	39	0.7	34	0.6	49	0.9
		18-19	1964	1438	510	16	37	1.9	22	1.1	28	1.4
		20-24	5470	4189	1237	44	164	3.0	133	2.4	157	2.9
		25-29	5110	3961	1104	45	342	6.7	188	3.7	221	4.4
		30-34	3523	2886	601	36	412	11.9	206	5.9	230	6.6
		35+	2201	1856	325	20	463	21.5	168	7.7	160	7.4
	Years since diagnosis	5-9	2383	1783	577	23	125	5.3	80	3.4	96	4.0
		10-14	7680	5993	1629	58	386	5.1	199	2.6	294	3.8
		15-19	7552	5908	1569	75	448	6.0	262	3.5	274	3.7
		20+	5943	4522	1373	48	498	8.5	210	3.5	181	3.1
	Age at diagnosis	<1	1778	1584	184	10	6	0.3	8	0.5	8	0.5
		1-4	7584	5187	2334	63	57	0.8	36	0.5	41	0.5
		5-9	5282	3967	1262	53	187	3.6	128	2.4	130	2.5
		10-14	4993	4066	892	35	517	10.5	309	6.2	339	6.9
		15-20	3921	3402	476	43	690	18.0	270	6.9	327	8.4
Males	All cases		12463	9989	2361	113	756	6.1	390	3.1	418	3.4
	Age at baseline	<18	2841	2196	614	31	24	0.8	20	0.7	30	1.1
		18-19	1014	803	203	8	26	2.6	11	1.1	13	1.3
		20-24	2840	2305	510	25	100	3.5	67	2.4	66	2.3
		25-29	2800	2237	543	20	199	7.2	99	3.5	117	4.2
		30-34	1856	1534	304	18	198	10.9	102	5.5	109	6.0
		35+	1112	914	187	11	209	19.2	91	8.2	83	7.6
	Years since diagnosis	5-9	1326	1024	284	18	72	5.4	46	3.5	48	3.6
		10-14	4084	3341	713	30	209	5.2	112	2.8	144	3.5
		15-19	3918	3221	659	38	224	5.8	131	3.3	136	3.5
		20+	3135	2403	705	27	251	8.1	101	3.2	90	2.9
	Age at diagnosis	<1	901	812	84	5	3	0.3	3	0.3	3	0.3
		1-4	3934	2876	1016	42	32	0.8	18	0.5	19	0.5
		5-9	2955	2346	581	28	128	4.4	68	2.3	65	2.2
		10-14	2603	2177	407	19	261	10.1	142	5.5	165	6.4
		15-20	2070	1778	273	19	332	16.3	159	7.7	166	8.1
Females	All cases		11095	8217	2787	91	701	6.4	361	3.3	427	3.9
	Age at baseline	<18	2449	1680	757	12	15	0.6	14	0.6	19	0.8
		18-19	950	635	307	8	11	1.2	11	1.2	15	1.6
		20-24	2630	1884	727	19	64	2.4	66	2.5	91	3.5
		25-29	2310	1724	561	25	143	6.3	89	3.9	104	4.6
		30-34	1667	1352	297	18	214	13.0	104	6.3	121	7.3
		35+	1089	942	138	9	254	23.8	77	7.1	77	7.1
	Years since diagnosis	5-9	1057	759	293	5	53	5.0	34	3.2	48	4.6
		10-14	3596	2652	916	28	177	5.0	87	2.4	150	4.2
		15-19	3634	2687	910	37	224	6.2	131	3.6	138	3.8
		20+	2808	2119	668	21	247	8.8	109	3.9	91	3.3
	Age at diagnosis	<1	877	772	100	5	3	0.3	5	0.6	5	0.6
		1-4	3650	2311	1318	21	25	0.7	18	0.5	22	0.6
		5-9	2327	1621	681	25	59	2.5	60	2.6	65	2.8

CCSS data from Jan2020 data freeze-all % based on denominator with non-missing values
 Data for patients with medical records abstraction and baseline qx, info in 1st 5 years

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² In expansion, only collected for Hodgkin survivors

³ In expansion, only collected for STS and Bone tumor survivors

Surgery: All cancers

			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³		
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	2390	1889	485	16	256	10.8	167	7.0	174	7.4
		15-20	1851	1624	203	24	358	19.8	111	6.0	161	8.8

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Surgery: All leukemias

			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases		7245	2565	4581	99	45	0.6	2	0.0	11	0.2
	Age at baseline	<18	2096	777	1291	28	11	0.5	1	0.0	2	0.1
		18-19	769	289	473	7	4	0.5	1	0.1	.	.
		20-24	1788	640	1120	28	4	0.2	.	.	3	0.2
		25-29	1459	473	968	18	13	0.9	.	.	2	0.1
		30-34	761	264	481	16	9	1.2	.	.	4	0.5
		35+	372	122	248	2	4	1.1	.	.	.	.
	Years since diagnosis	5-9	904	347	543	14	6	0.7	1	0.1	3	0.3
		10-14	2445	949	1464	32	18	0.7	1	0.0	2	0.1
		15-19	2236	824	1376	36	13	0.6	.	.	3	0.1
		20+	1660	445	1198	17	8	0.5	.	.	3	0.2
	Age at diagnosis	<1	232	81	147	4	3	1.3	.	.	.	.
		1-4	3421	1173	2208	40	9	0.3	2	0.1	1	0.0
		5-9	1754	593	1131	30	8	0.5	.	.	4	0.2
		10-14	1203	448	744	11	15	1.2	.	.	4	0.3
		15-20	635	270	351	14	10	1.6	.	.	2	0.3
Males	All cases		3827	1729	2040	58	19	0.5	.	.	8	0.2
	Age at baseline	<18	1136	544	570	22	6	0.5	.	.	2	0.2
		18-19	411	222	185	4	1	0.2	.	.	.	.
		20-24	891	433	446	12	.	.	.	.	2	0.2
		25-29	783	308	466	9	7	0.9	.	.	2	0.3
		30-34	397	159	228	10	3	0.8	.	.	2	0.5
		35+	209	63	145	1	2	1.0	.	.	.	.
	Years since diagnosis	5-9	510	234	263	13	3	0.6	.	.	2	0.4
		10-14	1301	657	624	20	12	0.9	.	.	2	0.2
		15-19	1136	566	553	17	2	0.2	.	.	2	0.2
		20+	880	272	600	8	2	0.2	.	.	2	0.2
	Age at diagnosis	<1	110	43	65	2	1	0.9	.	.	.	.
		1-4	1809	830	951	28	3	0.2	.	.	1	0.1
		5-9	935	427	495	13	3	0.3	.	.	3	0.3
		10-14	588	253	329	6	6	1.0	.	.	2	0.3
		15-20	385	176	200	9	6	1.6	.	.	2	0.5
Females	All cases		3418	836	2541	41	26	0.8	2	0.1	3	0.1
	Age at baseline	<18	960	233	721	6	5	0.5	1	0.1	.	.
		18-19	358	67	288	3	3	0.8	1	0.3	.	.
		20-24	897	207	674	16	4	0.4	.	.	1	0.1
		25-29	676	165	502	9	6	0.9	.	.	.	.
		30-34	364	105	253	6	6	1.6	.	.	2	0.6
		35+	163	59	103	1	2	1.2	.	.	.	.
	Years since diagnosis	5-9	394	113	280	1	3	0.8	1	0.3	1	0.3
		10-14	1144	292	840	12	6	0.5	1	0.1	.	.
		15-19	1100	258	823	19	11	1.0	.	.	1	0.1
		20+	780	173	598	9	6	0.8	.	.	1	0.1
	Age at diagnosis	<1	122	38	82	2	2	1.6
		1-4	1612	343	1257	12	6	0.4	2	0.1	.	.
		5-9	819	166	636	17	5	0.6	.	.	1	0.1

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Surgery: All leukemias

				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	615	195	415	5	9	1.5	.	.	2	0.3
		15-20	250	94	151	5	4	1.6

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Surgery: ALL

			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases		6067	2061	3930	76	10	0.2	2	0.0	8	0.1
	Age at baseline	<18	1812	638	1148	26	3	0.2	1	0.1	1	0.1
		18-19	666	245	415	6	1	0.2	1	0.2	.	.
		20-24	1524	538	970	16	2	0.1	.	.	2	0.1
		25-29	1207	376	817	14	1	0.1	.	.	2	0.2
		30-34	590	184	394	12	1	0.2	.	.	3	0.5
		35+	268	80	186	2	2	0.7	.	.	.	.
	Years since diagnosis	5-9	777	282	483	12	1	0.1	1	0.1	2	0.3
		10-14	2049	759	1263	27	4	0.2	1	0.0	1	0.0
		15-19	1847	674	1149	24	.	.	.	.	2	0.1
		20+	1394	346	1035	13	5	0.4	.	.	3	0.2
	Age at diagnosis	<1	127	45	79	3	.	.	.	.	.	.
		1-4	3030	998	1999	33	3	0.1	2	0.1	.	.
		5-9	1537	502	1012	23	3	0.2	.	.	4	0.3
		10-14	940	337	596	7	2	0.2	.	.	4	0.4
		15-20	433	179	244	10	2	0.5	.	.	.	.
Males	All cases		3231	1473	1710	48	4	0.1	.	.	5	0.2
	Age at baseline	<18	982	465	497	20	2	0.2	.	.	1	0.1
		18-19	359	205	150	4	1	0.3	.	.	.	.
		20-24	759	384	367	8	.	.	.	.	1	0.1
		25-29	660	261	393	6	.	.	.	.	2	0.3
		30-34	313	115	189	9	.	.	.	.	1	0.3
		35+	158	43	114	1	1	0.6	.	.	.	.
	Years since diagnosis	5-9	440	197	232	11	1	0.2	.	.	1	0.2
		10-14	1099	557	525	17	2	0.2	.	.	1	0.1
		15-19	949	500	436	13	.	.	.	.	1	0.1
		20+	743	219	517	7	1	0.1	.	.	2	0.3
	Age at diagnosis	<1	63	26	35	2	.	.	.	.	.	.
		1-4	1591	737	831	23	1	0.1	.	.	.	.
		5-9	829	382	435	12	2	0.2	.	.	3	0.4
		10-14	476	205	266	5	.	.	.	.	2	0.4
		15-20	272	123	143	6	1	0.4	.	.	.	.
Females	All cases		2836	588	2220	28	6	0.2	2	0.1	3	0.1
	Age at baseline	<18	830	173	651	6	1	0.1	1	0.1	.	.
		18-19	307	40	265	2	.	.	1	0.3	.	.
		20-24	765	154	603	8	2	0.3	.	.	1	0.1
		25-29	547	115	424	8	1	0.2	.	.	.	.
		30-34	277	69	205	3	1	0.4	.	.	2	0.7
		35+	110	37	72	1	1	0.9	.	.	.	.
	Years since diagnosis	5-9	337	85	251	1	.	.	1	0.3	1	0.3
		10-14	950	202	738	10	2	0.2	1	0.1	.	.
		15-19	898	174	713	11	.	.	.	.	1	0.1
		20+	651	127	518	6	4	0.6	.	.	1	0.2
	Age at diagnosis	<1	64	19	44	1
		1-4	1439	261	1168	10	2	0.1	2	0.1	.	.
		5-9	708	120	577	11	1	0.1	.	.	1	0.1

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 Data for patients with medical records abstraction and baseline qx, info in 1st 5 years

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Surgery: ALL

				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	464	132	330	2	2	0.4	.	.	2	0.4
		15-20	161	56	101	4	1	0.6

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³ In expansion, only collected for STS and Bone tumor survivors

Surgery: AML

			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases		871	378	475	18	17	2.0	.	.	2	0.2
	Age at baseline	<18	225	108	115	2	2	0.9	.	.	1	0.4
		18-19	82	36	45	1	1	1.2	.	.	.	.
		20-24	191	81	101	9	2	1.0	.	.	.	.
		25-29	186	67	117	2	8	4.3	.	.	.	.
		30-34	118	56	58	4	4	3.4	.	.	1	0.8
		35+	69	30	39	.	.	.	.	.	.	.
	Years since diagnosis	5-9	81	42	39	.	1	1.2	.	.	.	.
		10-14	307	148	155	4	5	1.6	.	.	1	0.3
		15-19	301	121	169	11	11	3.7	.	.	1	0.3
		20+	182	67	112	3	.	.	.	.	.	.
	Age at diagnosis	<1	90	33	56	1	2	2.2	.	.	.	.
		1-4	299	132	161	6	2	0.7	.	.	1	0.3
		5-9	163	74	83	6	3	1.8	.	.	.	.
		10-14	182	76	103	3	7	3.8	.	.	.	.
		15-20	137	63	72	2	3	2.2	.	.	1	0.7
Males	All cases		427	186	235	6	7	1.6	.	.	2	0.5
	Age at baseline	<18	122	62	58	2	2	1.6	.	.	1	0.8
		18-19	42	12	30	.	.	.	.	.	.	.
		20-24	92	38	52	2	.	.	.	.	.	.
		25-29	82	27	54	1	3	3.7	.	.	.	.
		30-34	56	32	23	1	2	3.6	.	.	1	1.8
		35+	33	15	18	.	.	.	.	.	.	.
	Years since diagnosis	5-9	47	25	22	.	1	2.1	.	.	.	.
		10-14	152	77	73	2	4	2.6	.	.	1	0.7
		15-19	141	52	85	4	2	1.4	.	.	1	0.7
		20+	87	32	55	.	.	.	.	.	.	.
	Age at diagnosis	<1	39	16	23	.	1	2.6	.	.	.	.
		1-4	165	65	96	4	1	0.6	.	.	1	0.6
		5-9	75	35	39	1	.	.	.	.	.	.
		10-14	74	32	42	.	3	4.1	.	.	.	.
		15-20	74	38	35	1	2	2.7	.	.	1	1.4
Females	All cases		444	192	240	12	10	2.3	.	.	.	.
	Age at baseline	<18	103	46	57	.	.	.	.	.	.	.
		18-19	40	24	15	1	1	2.5	.	.	.	.
		20-24	99	43	49	7	2	2.0	.	.	.	.
		25-29	104	40	63	1	5	4.8	.	.	.	.
		30-34	62	24	35	3	2	3.2	.	.	.	.
		35+	36	15	21	.	.	.	.	.	.	.
	Years since diagnosis	5-9	34	17	17	.	.	.	.	.	.	.
		10-14	155	71	82	2	1	0.6	.	.	.	.
		15-19	160	69	84	7	9	5.6
		20+	95	35	57	3
	Age at diagnosis	<1	51	17	33	1	1	2.0
		1-4	134	67	65	2	1	0.7
		5-9	88	39	44	5	3	3.4

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Surgery: AML

				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	108	44	61	3	4	3.7
		15-20	63	25	37	1	1	1.6

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Surgery: All CNS

			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³		
		All cases	Yes	No	Unknown	N	%	N	%	N	%	
Both sexes	All cases	4184	3972	171	41	.	.	1	0.0	11	0.3	
	Age at baseline	<18	891	835	45	11	.	.	.	4	0.4	
		18-19	349	324	21	4	.	.	.	1	0.3	
		20-24	1093	1039	47	7	.	.	.	3	0.3	
		25-29	1021	970	42	9	.	.	1	0.1	2	0.2
		30-34	581	562	13	6	.	.	.	1	0.2	
		35+	249	242	3	4	.	.	.	.	.
	Years since diagnosis	5-9	428	407	15	6	.	.	.	.	.
		10-14	1424	1359	55	10	.	.	1	0.1	8	0.6
		15-19	1325	1253	56	16	.	.	.	3	0.2	
		20+	1007	953	45	9	.	.	.	.	.
	Age at diagnosis	<1	205	187	16	2	.	.	.	1	0.5	
		1-4	1223	1137	74	12	.	.	.	3	0.2	
		5-9	1326	1261	52	13	.	.	.	3	0.2	
		10-14	996	965	22	9	.	.	1	0.1	2	0.2
		15-20	434	422	7	5	.	.	.	2	0.5	
Males	All cases	2276	2158	90	28	.	.	1	0.0	5	0.2	
	Age at baseline	<18	494	464	23	7	.	.	.	2	0.4	
		18-19	176	161	12	3	.	.	.	1	0.6	
		20-24	584	556	23	5	.	.	.	.	.
		25-29	579	552	22	5	.	.	1	0.2	1	0.2
		30-34	309	297	8	4	.	.	.	1	0.3	
		35+	134	128	2	4	.	.	.	.	.
	Years since diagnosis	5-9	242	232	6	4	.	.	.	.	.
		10-14	766	728	33	5	.	.	1	0.1	3	0.4
		15-19	720	682	25	13	.	.	.	2	0.3	
		20+	548	516	26	6	.	.	.	.	.
	Age at diagnosis	<1	121	110	10	1	.	.	.	1	0.8	
		1-4	647	607	32	8	.	.	.	1	0.2	
		5-9	738	695	34	9	.	.	.	1	0.1	
		10-14	526	508	12	6	.	.	1	0.2	.	
		15-20	244	238	2	4	.	.	.	2	0.8	
Females	All cases	1908	1814	81	13	.	.	.	.	6	0.3
	Age at baseline	<18	397	371	22	4	.	.	.	2	0.5	
		18-19	173	163	9	1	.	.	.	.	.
		20-24	509	483	24	2	.	.	.	3	0.6	
		25-29	442	418	20	4	.	.	.	1	0.2	
		30-34	272	265	5	2	.	.	.	.	.
		35+	115	114	1	.	.	.	.	.	.
	Years since diagnosis	5-9	186	175	9	2	.	.	.	.	.
		10-14	658	631	22	5	.	.	.	5	0.8	
		15-19	605	571	31	3	.	.	.	1	0.2	
		20+	459	437	19	3	
	Age at diagnosis	<1	84	77	6	1	
		1-4	576	530	42	4	.	.	.	2	0.3	
		5-9	588	566	18	4	.	.	.	2	0.3	

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				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	470	457	10	3	2	0.4
		15-20	190	184	5	1

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			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases		2509	2316	163	30	.	.	1	0.0	6	0.2
	Age at baseline	<18	493	440	44	9	.	.	.	.	1	0.2
		18-19	202	178	20	4	.	.	.	.	1	0.5
		20-24	662	611	46	5	.	.	.	.	3	0.5
		25-29	629	582	39	8	.	.	1	0.2	1	0.2
		30-34	357	342	12	3	.	.	.	.	.	.
		35+	166	163	2	1	.	.	.	.	.	.
	Years since diagnosis	5-9	219	203	13	3	.	.	.	.	.	.
		10-14	838	776	53	9	.	.	1	0.1	5	0.6
		15-19	778	714	52	12	.	.	.	.	1	0.1
		20+	674	623	45	6	.	.	.	.	.	.
	Age at diagnosis	<1	144	126	16	2	.	.	.	.	1	0.7
		1-4	741	657	73	11	.	.	.	.	.	.
		5-9	750	688	52	10	.	.	.	.	3	0.4
		10-14	599	578	16	5	.	.	1	0.2	2	0.3
		15-20	275	267	6	2	.	.	.	.	.	.
Males	All cases		1302	1200	83	19	.	.	1	0.1	2	0.2
	Age at baseline	<18	258	230	22	6	.	.	.	.	1	0.4
		18-19	102	88	11	3	.	.	.	.	1	1.0
		20-24	325	300	22	3	.	.	.	.	.	.
		25-29	351	327	20	4	.	.	1	0.3	.	.
		30-34	178	169	7	2	.	.	.	.	.	.
		35+	88	86	1	1	.	.	.	.	.	.
	Years since diagnosis	5-9	117	111	4	2	.	.	.	.	.	.
		10-14	437	402	31	4	.	.	1	0.2	1	0.2
		15-19	391	359	22	10	.	.	.	.	1	0.3
		20+	357	328	26	3	.	.	.	.	.	.
	Age at diagnosis	<1	81	70	10	1	.	.	.	.	1	1.2
		1-4	373	335	31	7	.	.	.	.	.	.
		5-9	394	353	34	7	.	.	.	.	1	0.3
		10-14	302	292	7	3	.	.	1	0.3	.	.
		15-20	152	150	1	1	.	.	.	.	.	.
Females	All cases		1207	1116	80	11	.	.	.	.	4	0.3
	Age at baseline	<18	235	210	22	3	.	.	.	.	.	.
		18-19	100	90	9	1	.	.	.	.	.	.
		20-24	337	311	24	2	.	.	.	.	3	0.9
		25-29	278	255	19	4	.	.	.	.	1	0.4
		30-34	179	173	5	1	.	.	.	.	.	.
		35+	78	77	1	.	.	.	.	.	.	.
	Years since diagnosis	5-9	102	92	9	1	.	.	.	.	.	.
		10-14	401	374	22	5	.	.	.	.	4	1.0
		15-19	387	355	30	2
		20+	317	295	19	3
	Age at diagnosis	<1	63	56	6	1
		1-4	368	322	42	4
		5-9	356	335	18	3	2	0.6

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Surgery: Astrocytomas

				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	297	286	9	2	2	0.7
		15-20	123	117	5	1

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			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
		All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases	979	970	2	7	.	.	.	.	2	0.2
	Age at baseline	<18	233	231	.	2	.	.	.	1	0.4
		18-19	77	76	1	.	.	.	.	.	.
		20-24	273	271	.	2	.	.	.	.	.
		25-29	236	236	.	.	.	.	.	.	.
		30-34	126	124	1	1	.	.	.	1	0.8
		35+	34	32	.	2	.	.	.	.	.
	Years since diagnosis	5-9	119	115	1	3	.	.	.	.	.
		10-14	333	333	.	.	.	.	.	.	.
		15-19	323	320	1	2	.	.	.	2	0.6
		20+	204	202	.	2	.	.	.	.	.
	Age at diagnosis	<1	23	23	.	.	.	.	.	.	.
		1-4	279	278	.	1	.	.	.	1	0.4
		5-9	402	399	.	3	.	.	.	.	.
		10-14	217	213	2	2	.	.	.	.	.
		15-20	58	57	.	1	.	.	.	1	1.7
Males	All cases	599	592	2	5	.	.	.	.	1	0.2
	Age at baseline	<18	141	140	.	1	.	.	.	.	.
		18-19	43	42	1	.	.	.	.	.	.
		20-24	177	175	.	2	.	.	.	.	.
		25-29	145	145	.	.	.	.	.	.	.
		30-34	71	70	1	.	.	.	.	1	1.4
		35+	22	20	.	2	.	.	.	.	.
	Years since diagnosis	5-9	72	69	1	2	.	.	.	.	.
		10-14	196	196	.	.	.	.	.	.	.
		15-19	207	205	1	1	.	.	.	1	0.5
		20+	124	122	.	2	.	.	.	.	.
	Age at diagnosis	<1	16	16	.	.	.	.	.	.	.
		1-4	168	167	.	1	.	.	.	.	.
		5-9	257	255	.	2	.	.	.	.	.
		10-14	123	120	2	1	.	.	.	.	.
		15-20	35	34	.	1	.	.	.	1	2.9
Females	All cases	380	378	.	2	.	.	.	.	1	0.3
	Age at baseline	<18	92	91	.	1	.	.	.	1	1.1
		18-19	34	34	.	.	.	.	.	.	.
		20-24	96	96	.	.	.	.	.	.	.
		25-29	91	91	.	.	.	.	.	.	.
		30-34	55	54	.	1	.	.	.	.	.
		35+	12	12	.	.	.	.	.	.	.
	Years since diagnosis	5-9	47	46	.	1	.	.	.	.	.
		10-14	137	137
		15-19	116	115	.	1	.	.	.	1	0.9
		20+	80	80
	Age at diagnosis	<1	7	7
		1-4	111	111	1	0.9
		5-9	145	144	.	1

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			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³		
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	94	93	.	1
		15-20	23	23

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			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases		2827	2681	127	19	1340	49.8	1	0.0	3	0.1
	Age at baseline	<18	55	52	3	.	24	45.3	.	.	.	.
		18-19	55	55	.	.	28	50.9	.	.	.	.
		20-24	328	317	10	1	150	47.0	.	.	2	0.6
		25-29	733	696	33	4	308	44.1	.	.	1	0.1
		30-34	862	815	38	9	389	48.1	1	0.1	.	.
		35+	794	746	43	5	441	58.4	.	.	.	.
	Years since diagnosis	5-9	221	211	10	.	114	52.1	.	.	.	.
		10-14	867	832	28	7	353	42.6	.	.	2	0.2
		15-19	930	883	40	7	414	47.4	1	0.1	1	0.1
		20+	809	755	49	5	459	59.8	.	.	.	.
	Age at diagnosis	1-4	71	67	4	.	32	47.1	.	.	.	.
		5-9	353	336	16	1	168	49.4	.	.	1	0.3
		10-14	1026	980	40	6	491	50.4	1	0.1	2	0.2
		15-20	1377	1298	67	12	649	49.7	.	.	.	.
Males	All cases		1458	1383	69	6	693	49.9	1	0.1	.	.
	Age at baseline	<18	42	40	2	.	17	41.5	.	.	.	.
		18-19	44	44	.	.	22	50.0	.	.	.	.
		20-24	207	197	9	1	94	47.2	.	.	.	.
		25-29	401	384	16	1	178	46.1	.	.	.	.
		30-34	429	406	20	3	187	46.6	1	0.2	.	.
		35+	335	312	22	1	195	61.5	.	.	.	.
	Years since diagnosis	5-9	126	118	8	.	66	52.8	.	.	.	.
		10-14	441	429	11	1	185	43.6	.	.	.	.
		15-19	492	468	21	3	216	46.2	1	0.2	.	.
		20+	399	368	29	2	226	60.9	.	.	.	.
	Age at diagnosis	1-4	52	48	4	.	21	42.9	.	.	.	.
		5-9	259	246	12	1	120	48.4	.	.	.	.
		10-14	522	499	20	3	247	49.7	1	0.2	.	.
		15-20	625	590	33	2	305	51.3	.	.	.	.
Females	All cases		1369	1298	58	13	647	49.7	.	.	3	0.2
	Age at baseline	<18	13	12	1	.	7	58.3	.	.	.	.
		18-19	11	11	.	.	6	54.5	.	.	.	.
		20-24	121	120	1	.	56	46.7	.	.	2	1.7
		25-29	332	312	17	3	130	41.7	.	.	1	0.3
		30-34	433	409	18	6	202	49.5	.	.	.	.
		35+	459	434	21	4	246	56.2	.	.	.	.
	Years since diagnosis	5-9	95	93	2	.	48	51.1	.	.	.	.
		10-14	426	403	17	6	168	41.5	.	.	2	0.5
		15-19	438	415	19	4	198	48.8	.	.	1	0.2
		20+	410	387	20	3	233	58.8	.	.	.	.
	Age at diagnosis	1-4	19	19	.	.	11	57.9
		5-9	94	90	4	.	48	52.2	.	.	1	1.1
		10-14	504	481	20	3	244	51.2	.	.	2	0.4
		15-20	752	708	34	10	344	48.2

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			Any surgery ¹				Splnectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases	1915	1690	212	13	46	2.4	.	.	11	0.6	
	Age at baseline	<18	200	186	14	.	1	0.5	.	.	.	
		18-19	119	104	13	2	1	0.8	.	.	.	
		20-24	405	355	49	1	4	1.0	.	.	3	
		25-29	526	469	51	6	9	1.7	.	.	3	
		30-34	438	375	63	.	13	3.0	.	.	3	
		35+	227	201	22	4	18	8.0	.	.	2	
	Years since diagnosis	5-9	132	125	6	1	3	2.3	.	.	.	
		10-14	609	539	67	3	12	2.0	.	.	2	
		15-19	657	573	79	5	11	1.7	.	.	4	
		20+	517	453	60	4	20	3.9	.	.	5	
	Age at diagnosis	<1	12	9	3	.	.	.	.	.	.
		1-4	315	277	36	2	2	0.6	.	.	.	
		5-9	579	521	55	3	6	1.0	.	.	4	
		10-14	602	521	77	4	8	1.3	.	.	6	
		15-20	407	362	41	4	30	7.4	.	.	1	
Males	All cases	1290	1149	134	7	32	2.5	.	.	8	0.6	
	Age at baseline	<18	138	131	7	.	1	0.7	.	.	.	
		18-19	87	80	6	1	.	.	.	.	.
		20-24	264	236	27	1	3	1.1	.	.	1	
		25-29	367	326	37	4	8	2.2	.	.	3	
		30-34	286	242	44	.	8	2.8	.	.	2	
		35+	148	134	13	1	12	8.2	.	.	2	
	Years since diagnosis	5-9	99	94	5	.	3	3.0	.	.	.	
		10-14	413	374	37	2	11	2.7	.	.	1	
		15-19	426	373	51	2	2	0.5	.	.	3	
		20+	352	308	41	3	16	4.6	.	.	4	
	Age at diagnosis	<1	3	3	.	.	.	.	.	.	.
		1-4	211	187	22	2	1	0.5	.	.	.	
		5-9	404	365	36	3	3	0.7	.	.	2	
		10-14	409	364	44	1	7	1.7	.	.	5	
		15-20	263	230	32	1	21	8.0	.	.	1	
Females	All cases	625	541	78	6	14	2.2	.	.	3	0.5	
	Age at baseline	<18	62	55	7	.	.	.	.	.	.
		18-19	32	24	7	1	1	3.1	.	.	.	
		20-24	141	119	22	.	1	0.7	.	.	2	
		25-29	159	143	14	2	1	0.6	.	.	.	
		30-34	152	133	19	.	5	3.3	.	.	1	
		35+	79	67	9	3	6	7.6	.	.	.	
	Years since diagnosis	5-9	33	31	1	1	.	.	.	.	.
		10-14	196	165	30	1	1	0.5	.	.	1	
		15-19	231	200	28	3	9	3.9	.	.	1	
		20+	165	145	19	1	4	2.4	.	.	1	
	Age at diagnosis	<1	9	6	3	
		1-4	104	90	14	.	1	1.0	.	.	.	
		5-9	175	156	19	.	3	1.7	.	.	2	

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				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	193	157	33	3	1	0.5	.	.	1	0.5
		15-20	144	132	9	3	9	6.3

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			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³		
		All cases	Yes	No	Unknown	N	%	N	%	N	%	
Both sexes	All cases	2070	2065	3	2	20	1.0	1	0.0	3	0.1	
	Age at baseline	<18	761	760	1	.	2	0.3	.	.	2	0.3
		18-19	275	274	.	1	4	1.5	.	.	.	.
		20-24	611	608	2	1	4	0.7	.	.	.	.
		25-29	342	342	.	.	10	2.9	1	0.3	1	0.3
		30-34	66	66	.	.	.	.	.	.	.	.
		35+	15	15	.	.	.	.	.	.	.	.
	Years since diagnosis	5-9	167	167	.	.	1	0.6	.	.	.	.
		10-14	675	674	1	.	2	0.3	.	.	2	0.3
		15-19	679	678	.	1	8	1.2	.	.	.	.
		20+	549	546	2	1	9	1.6	1	0.2	1	0.2
	Age at diagnosis	<1	301	299	1	1	2	0.7	.	.	.	.
		1-4	1261	1258	2	1	13	1.0	.	.	3	0.2
		5-9	434	434	.	.	3	0.7	1	0.2	.	.
		10-14	54	54	.	.	2	3.7	.	.	.	.
		15-20	20	20	.	.	.	.	.	.	.	.
Males	All cases	917	914	2	1	8	0.9	.	.	1	0.1	
	Age at baseline	<18	369	368	1	.	.	.	.	.	1	0.3
		18-19	111	111	.	.	3	2.7	.	.	.	.
		20-24	252	250	1	1	1	0.4	.	.	.	.
		25-29	152	152	.	.	4	2.6	.	.	.	.
		30-34	27	27	.	.	.	.	.	.	.	.
		35+	6	6	.	.	.	.	.	.	.	.
	Years since diagnosis	5-9	74	74	.	.	.	.	.	.	.	.
		10-14	307	306	1	.	.	.	.	.	1	0.3
		15-19	289	289	.	.	3	1.0	.	.	.	.
		20+	247	245	1	1	5	2.0	.	.	.	.
	Age at diagnosis	<1	149	147	1	1	1	0.7	.	.	.	.
		1-4	564	563	1	.	6	1.1	.	.	1	0.2
		5-9	177	177	.	.	1	0.6	.	.	.	.
		10-14	19	19	.	.	.	.	.	.	.	.
		15-20	8	8	.	.	.	.	.	.	.	.
Females	All cases	1153	1151	1	1	12	1.0	1	0.1	2	0.2	
	Age at baseline	<18	392	392	.	.	2	0.5	.	.	1	0.3
		18-19	164	163	.	1	1	0.6	.	.	.	.
		20-24	359	358	1	.	3	0.8	.	.	.	.
		25-29	190	190	.	.	6	3.2	1	0.5	1	0.5
		30-34	39	39	.	.	.	.	.	.	.	.
		35+	9	9	.	.	.	.	.	.	.	.
	Years since diagnosis	5-9	93	93	.	.	1	1.1	.	.	.	.
		10-14	368	368	.	.	2	0.5	.	.	1	0.3
		15-19	390	389	.	1	5	1.3	.	.	.	.
		20+	302	301	1	.	4	1.3	1	0.3	1	0.3
	Age at diagnosis	<1	152	152	.	.	1	0.7
		1-4	697	695	1	1	7	1.0	.	.	2	0.3
		5-9	257	257	.	.	2	0.8	1	0.4	.	.

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				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	35	35	.	.	2	5.7
		15-20	12	12

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			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³		
		All cases	Yes	No	Unknown	N	%	N	%	N	%	
Both sexes	All cases	1798	1761	27	10	3	0.2	.	.	12	0.7	
	Age at baseline	<18	889	870	15	4	1	0.1	.	.	4	0.4
		18-19	216	214	2	.	.	.	.	2	0.9	
		20-24	504	496	6	2	1	0.2	.	.	4	0.8
		25-29	150	145	3	2	1	0.7	.	.	.	.
		30-34	34	31	1	2	.	.	.	.	2	6.1
		35+	5	5	.	.	.	.	.	.	.	.
	Years since diagnosis	5-9	152	149	1	2	1	0.7	.	.	3	2.0
		10-14	558	549	7	2	.	.	.	.	1	0.2
		15-19	594	583	10	1	.	.	.	.	4	0.7
		20+	494	480	9	5	2	0.4	.	.	4	0.8
	Age at diagnosis	<1	912	893	17	2	1	0.1	.	.	6	0.7
		1-4	706	694	8	4	1	0.1	.	.	3	0.4
		5-9	137	132	2	3	1	0.7	.	.	1	0.7
		10-14	27	26	.	1	.	.	.	.	2	7.4
		15-20	16	16	.	.	.	.	.	.	.	.
Males	All cases	870	852	14	4	2	0.2	.	.	4	0.5	
	Age at baseline	<18	440	429	9	2	.	.	.	.	2	0.5
		18-19	94	94	.	.	.	.	.	1	1.1	
		20-24	255	251	2	2	1	0.4	.	.	.	.
		25-29	65	63	2	.	1	1.5	.	.	.	.
		30-34	14	13	1	.	.	.	.	1	7.1	
		35+	2	2	.	.	.	.	.	.	.	.
	Years since diagnosis	5-9	72	70	1	1	.	.	.	.	1	1.4
		10-14	274	269	4	1	.	.	.	.	.	.
		15-19	283	278	5	.	.	.	.	.	2	0.7
		20+	241	235	4	2	2	0.8	.	.	1	0.4
	Age at diagnosis	<1	470	461	8	1	1	0.2	.	.	2	0.4
		1-4	317	311	4	2	1	0.3	.	.	1	0.3
		5-9	67	64	2	1	.	.	.	.	1	1.5
		10-14	10	10	.	.	.	.	.	.	.	.
		15-20	6	6	.	.	.	.	.	.	.	.
Females	All cases	928	909	13	6	1	0.1	.	.	8	0.9	
	Age at baseline	<18	449	441	6	2	1	0.2	.	.	2	0.4
		18-19	122	120	2	.	.	.	.	1	0.8	
		20-24	249	245	4	.	.	.	.	4	1.6	
		25-29	85	82	1	2	.	.	.	.	.	.
		30-34	20	18	.	2	.	.	.	1	5.3	
		35+	3	3	.	.	.	.	.	.	.	.
	Years since diagnosis	5-9	80	79	.	1	1	1.3	.	.	2	2.5
		10-14	284	280	3	1	.	.	.	.	1	0.4
		15-19	311	305	5	1	.	.	.	.	2	0.6
		20+	253	245	5	3	3	1.2
	Age at diagnosis	<1	442	432	9	1	4	0.9
		1-4	389	383	4	2	2	0.5
		5-9	70	68	.	2	1	1.4

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				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	17	16	.	1	2	11.8
		15-20	10	10

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			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³		
		All cases	Yes	No	Unknown	N	%	N	%	N	%	
Both sexes	All cases	1588	1562	10	16	2	0.1	75	4.7	43	2.7	
	Age at baseline	<18	313	312	1	.	.	10	3.2	5	1.6	
		18-19	115	113	.	2	.	2	1.8	3	2.7	
		20-24	382	378	.	4	1	0.3	10	2.6	10	2.6
		25-29	351	343	3	5	.	19	5.4	10	2.9	
		30-34	264	262	1	1	1	0.4	12	4.6	12	4.6
		35+	163	154	5	4	.	22	13.7	3	1.9	
	Years since diagnosis	5-9	165	165	.	.	.	11	6.7	7	4.2	
		10-14	473	468	2	3	.	12	2.5	15	3.2	
		15-19	498	485	6	7	2	0.4	20	4.0	12	2.4
		20+	452	444	2	6	.	32	7.1	9	2.0	
	Age at diagnosis	<1	108	107	.	1	.	8	7.4	.	.	
		1-4	507	502	1	4	.	9	1.8	8	1.6	
		5-9	361	357	1	3	1	0.3	11	3.0	12	3.3
		10-14	311	305	3	3	.	21	6.8	9	2.9	
		15-20	301	291	5	5	1	0.3	26	8.8	14	4.7
Males	All cases	847	836	5	6	1	0.1	39	4.6	23	2.7	
	Age at baseline	<18	179	178	1	.	.	4	2.2	5	2.8	
		18-19	58	58	.	.	.	1	1.7	1	1.7	
		20-24	213	210	.	3	1	0.5	5	2.3	5	2.4
		25-29	179	179	.	.	.	12	6.7	4	2.2	
		30-34	139	138	1	.	.	5	3.6	7	5.0	
		35+	79	73	3	3	.	12	15.2	1	1.3	
	Years since diagnosis	5-9	89	89	.	.	.	4	4.5	4	4.5	
		10-14	264	263	1	.	.	7	2.7	10	3.8	
		15-19	252	247	3	2	1	0.4	12	4.8	4	1.6
		20+	242	237	1	4	.	16	6.6	5	2.1	
	Age at diagnosis	<1	44	44	.	.	.	3	6.8	.	.	
		1-4	293	290	1	2	.	8	2.7	4	1.4	
		5-9	202	201	.	1	1	0.5	4	2.0	6	3.0
		10-14	167	164	1	2	.	13	7.8	8	4.8	
		15-20	141	137	3	1	.	11	7.8	5	3.5	
Females	All cases	741	726	5	10	1	0.1	36	4.9	20	2.7	
	Age at baseline	<18	134	134	.	.	.	6	4.5	.	.	
		18-19	57	55	.	2	.	1	1.8	2	3.6	
		20-24	169	168	.	1	.	5	3.0	5	3.0	
		25-29	172	164	3	5	.	7	4.1	6	3.5	
		30-34	125	124	.	1	1	0.8	7	5.6	5	4.0
		35+	84	81	2	1	.	10	12.2	2	2.5	
	Years since diagnosis	5-9	76	76	.	.	.	7	9.3	3	3.9	
		10-14	209	205	1	3	.	5	2.4	5	2.4	
		15-19	246	238	3	5	1	0.4	8	3.3	8	3.3
		20+	210	207	1	2	.	16	7.7	4	1.9	
	Age at diagnosis	<1	64	63	.	1	.	5	7.8	.	.	
		1-4	214	212	.	2	.	1	0.5	4	1.9	
		5-9	159	156	1	2	.	7	4.4	6	3.8	

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				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	144	141	2	1	.	.	8	5.6	1	0.7
		15-20	160	154	2	4	1	0.6	15	9.7	9	5.8

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			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases	1931	1910	17	4	1	0.1	671	35.0	751	41.4	
	Age at baseline	<18	85	84	1	.	.	23	27.1	32	38.1	
		18-19	66	65	1	.	.	19	28.8	22	34.4	
		20-24	359	356	3	.	.	123	34.5	132	38.8	
		25-29	528	523	4	1	1	167	31.9	202	41.4	
		30-34	517	511	4	2	.	193	37.7	208	43.1	
		35+	376	371	4	1	.	146	39.1	155	43.4	
	Years since diagnosis	5-9	214	212	2	.	.	68	32.1	83	39.9	
		10-14	629	623	5	1	1	185	29.6	262	43.2	
		15-19	633	629	2	2	.	241	38.3	247	42.0	
		20+	455	446	8	1	.	177	39.4	159	38.5	
	Age at diagnosis	<1	8	8	.	.	.	.	.	1	12.5
		1-4	80	79	1	.	.	25	31.3	23	31.5	
		5-9	338	333	5	.	.	116	34.6	105	34.5	
		10-14	774	767	6	1	1	286	37.2	314	43.1	
		15-20	731	723	5	3	.	244	33.7	308	43.9	
Males	All cases	978	968	7	3	1	0.1	349	36.1	369	40.2	
	Age at baseline	<18	43	42	1	.	.	16	37.2	18	41.9	
		18-19	33	33	.	.	.	10	30.3	10	31.3	
		20-24	174	172	2	.	.	62	35.8	58	36.0	
		25-29	274	273	.	1	1	86	31.6	107	41.0	
		30-34	255	252	2	1	.	96	38.2	96	40.7	
		35+	199	196	2	1	.	79	40.3	80	43.2	
	Years since diagnosis	5-9	114	113	1	.	.	42	37.2	41	37.6	
		10-14	318	315	2	1	1	104	32.9	127	41.2	
		15-19	320	318	1	1	.	118	37.2	123	41.3	
		20+	226	222	3	1	.	85	38.3	78	38.4	
	Age at diagnosis	<1	4	4	.	.	.	.	.	.	.
		1-4	41	40	1	.	.	10	24.4	11	30.6	
		5-9	173	171	2	.	.	64	37.2	52	32.5	
		10-14	362	360	1	1	1	127	35.4	150	43.9	
		15-20	398	393	3	2	.	148	37.8	156	41.5	
Females	All cases	953	942	10	1	.	.	322	34.0	382	42.5	
	Age at baseline	<18	42	42	.	.	.	7	16.7	14	34.1	
		18-19	33	32	1	.	.	9	27.3	12	37.5	
		20-24	185	184	1	.	.	61	33.2	74	41.3	
		25-29	254	250	4	.	.	81	32.3	95	41.9	
		30-34	262	259	2	1	.	97	37.2	112	45.3	
		35+	177	175	2	.	.	67	37.9	75	43.6	
	Years since diagnosis	5-9	100	99	1	.	.	26	26.3	42	42.4	
		10-14	311	308	3	.	.	81	26.1	135	45.2	
		15-19	313	311	1	1	.	123	39.4	124	42.8	
		20+	229	224	5	.	.	92	40.5	81	38.6	
	Age at diagnosis	<1	4	4	1	25.0	
		1-4	39	39	.	.	.	15	38.5	12	32.4	
		5-9	165	162	3	.	.	52	31.9	53	36.8	

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				Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	412	407	5	.	.	.	159	38.9	164	42.4
		15-20	333	330	2	1	.	.	96	28.8	152	46.6

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			Any surgery ¹				Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
			All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases		685	670	14	1	.	.	83	12.2	196	29.7
	Age at baseline	<18	54	53	1	.	.	.	8	14.8	16	29.6
		18-19	33	33	.	.	.	.	5	15.2	9	27.3
		20-24	157	155	2	.	.	.	24	15.4	45	29.8
		25-29	193	189	4	.	.	.	23	12.1	50	27.5
		30-34	153	148	4	1	.	.	16	10.6	45	30.4
		35+	95	92	3	.	.	.	7	7.4	31	34.1
	Years since diagnosis	5-9	90	89	1	.	.	.	12	13.5	21	23.6
		10-14	231	227	4	.	.	.	21	9.2	71	31.4
		15-19	214	211	2	1	.	.	38	17.8	67	33.0
		20+	150	143	7	.	.	.	12	8.2	37	26.2
	Age at diagnosis	<1	4	4	.	.	.	.	.	.	1	25.0
		1-4	50	49	1	.	.	.	9	18.0	15	30.6
		5-9	170	166	4	.	.	.	28	16.7	40	25.0
		10-14	257	252	5	.	.	.	30	11.8	78	31.5
		15-20	204	199	4	1	.	.	16	7.9	62	31.3
Males	All cases		353	347	6	.	.	.	48	13.7	102	30.2
	Age at baseline	<18	24	23	1	.	.	.	4	16.7	8	33.3
		18-19	17	17	.	.	.	.	3	17.6	4	23.5
		20-24	78	77	1	.	.	.	14	17.9	20	27.0
		25-29	99	99	.	.	.	.	11	11.2	27	28.7
		30-34	83	81	2	.	.	.	12	14.6	26	32.9
		35+	52	50	2	.	.	.	4	7.8	17	34.0
	Years since diagnosis	5-9	48	48	.	.	.	.	9	18.8	10	20.8
		10-14	109	107	2	.	.	.	12	11.1	33	31.1
		15-19	115	114	1	.	.	.	19	16.7	37	34.6
		20+	81	78	3	.	.	.	8	10.0	22	28.6
	Age at diagnosis	<1	2	2	.	.	.	.	.	.	.	.
		1-4	26	25	1	.	.	.	3	11.5	8	32.0
		5-9	84	82	2	.	.	.	18	21.7	19	24.4
		10-14	135	134	1	.	.	.	16	11.9	45	34.4
		15-20	106	104	2	.	.	.	11	10.6	30	29.4
Females	All cases		332	323	8	1	.	.	35	10.7	94	29.3
	Age at baseline	<18	30	30	.	.	.	.	4	13.3	8	26.7
		18-19	16	16	.	.	.	.	2	12.5	5	31.3
		20-24	79	78	1	.	.	.	10	12.8	25	32.5
		25-29	94	90	4	.	.	.	12	13.0	23	26.1
		30-34	70	67	2	1	.	.	4	5.8	19	27.5
		35+	43	42	1	.	.	.	3	7.0	14	34.1
	Years since diagnosis	5-9	42	41	1	.	.	.	3	7.3	11	26.8
		10-14	122	120	2	.	.	.	9	7.4	38	31.7
		15-19	99	97	1	1	.	.	19	19.2	30	31.3
		20+	69	65	4	.	.	.	4	6.0	15	23.4
	Age at diagnosis	<1	2	2	1	50.0
		1-4	24	24	6	25.0	7	29.2
		5-9	86	84	2	.	.	.	10	11.8	21	25.6

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			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³		
			All cases	Yes	No	Unknown	N	%	N	%	N	%
		10-14	122	118	4	.	.	.	14	11.8	33	28.2
		15-20	98	95	2	1	.	.	5	5.1	32	33.3

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			Any surgery ¹			Splenectomy ²		Amputation ³		Limb-sparing procedure ³	
		All cases	Yes	No	Unknown	N	%	N	%	N	%
Both sexes	All cases	1149	1143	3	3	1	0.1	580	50.8	520	49.1
	Age at baseline	<18	25	25	.	.	.	15	60.0	14	58.3
		18-19	27	26	1	.	.	14	51.9	11	44.0
		20-24	183	182	1	.	.	97	53.3	84	49.4
		25-29	317	316	.	1	1	143	45.4	148	51.4
		30-34	337	336	.	1	.	175	52.4	151	49.0
		35+	260	258	1	1	.	136	52.7	112	45.7
	Years since diagnosis	5-9	118	117	1	.	.	56	47.9	60	53.1
		10-14	361	359	1	1	1	161	44.7	175	50.9
		15-19	390	389	.	1	.	202	52.2	173	48.6
		20+	280	278	1	1	.	161	58.1	112	45.3
	Age at diagnosis	1-4	21	21	.	.	.	16	76.2	5	33.3
		5-9	151	150	1	.	.	87	58.0	60	47.2
		10-14	491	489	1	1	1	252	51.6	233	51.2
		15-20	486	483	1	2	.	225	46.7	222	47.9
Males	All cases	577	573	1	3	1	0.2	297	52.1	248	46.6
	Age at baseline	<18	18	18	.	.	.	12	66.7	10	55.6
		18-19	12	12	.	.	.	7	58.3	4	36.4
		20-24	86	85	1	.	.	48	56.5	36	46.8
		25-29	165	164	.	1	1	74	45.1	77	49.0
		30-34	158	157	.	1	.	83	53.5	63	44.1
		35+	138	137	.	1	.	73	53.7	58	46.0
	Years since diagnosis	5-9	64	63	1	.	.	33	52.4	30	50.8
		10-14	190	189	.	1	1	91	48.1	84	45.9
		15-19	190	189	.	1	.	99	52.7	82	46.6
		20+	133	132	.	1	.	74	56.9	52	45.6
	Age at diagnosis	1-4	11	11	.	.	.	7	63.6	2	28.6
		5-9	76	76	.	.	.	45	59.2	29	42.0
		10-14	220	219	.	1	1	111	51.2	104	51.0
		15-20	270	267	1	2	.	134	50.4	113	44.8
Females	All cases	572	570	2	.	.	.	283	49.6	272	51.5
	Age at baseline	<18	7	7	.	.	.	3	42.9	4	66.7
		18-19	15	14	1	.	.	7	46.7	7	50.0
		20-24	97	97	.	.	.	49	50.5	48	51.6
		25-29	152	152	.	.	.	69	45.7	71	54.2
		30-34	179	179	.	.	.	92	51.4	88	53.3
		35+	122	121	1	.	.	63	51.6	54	45.4
	Years since diagnosis	5-9	54	54	.	.	.	23	42.6	30	55.6
		10-14	171	170	1	.	.	70	40.9	91	56.5
		15-19	200	200	.	.	.	103	51.8	91	50.6
		20+	147	146	1	.	.	87	59.2	60	45.1
	Age at diagnosis	1-4	10	10	.	.	.	9	90.0	3	37.5
		5-9	75	74	1	.	.	42	56.8	31	53.4
		10-14	271	270	1	.	.	141	52.0	129	51.4
		15-20	216	216	.	.	.	91	42.1	109	51.7

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