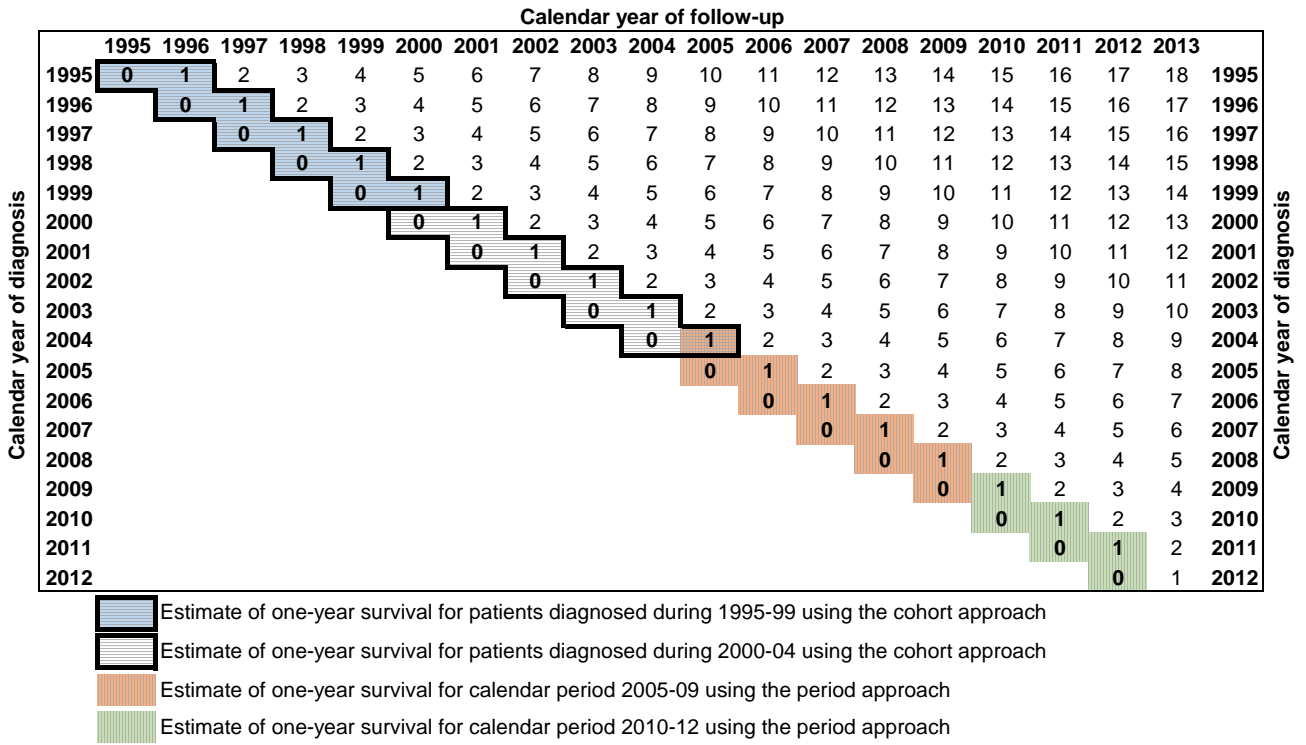


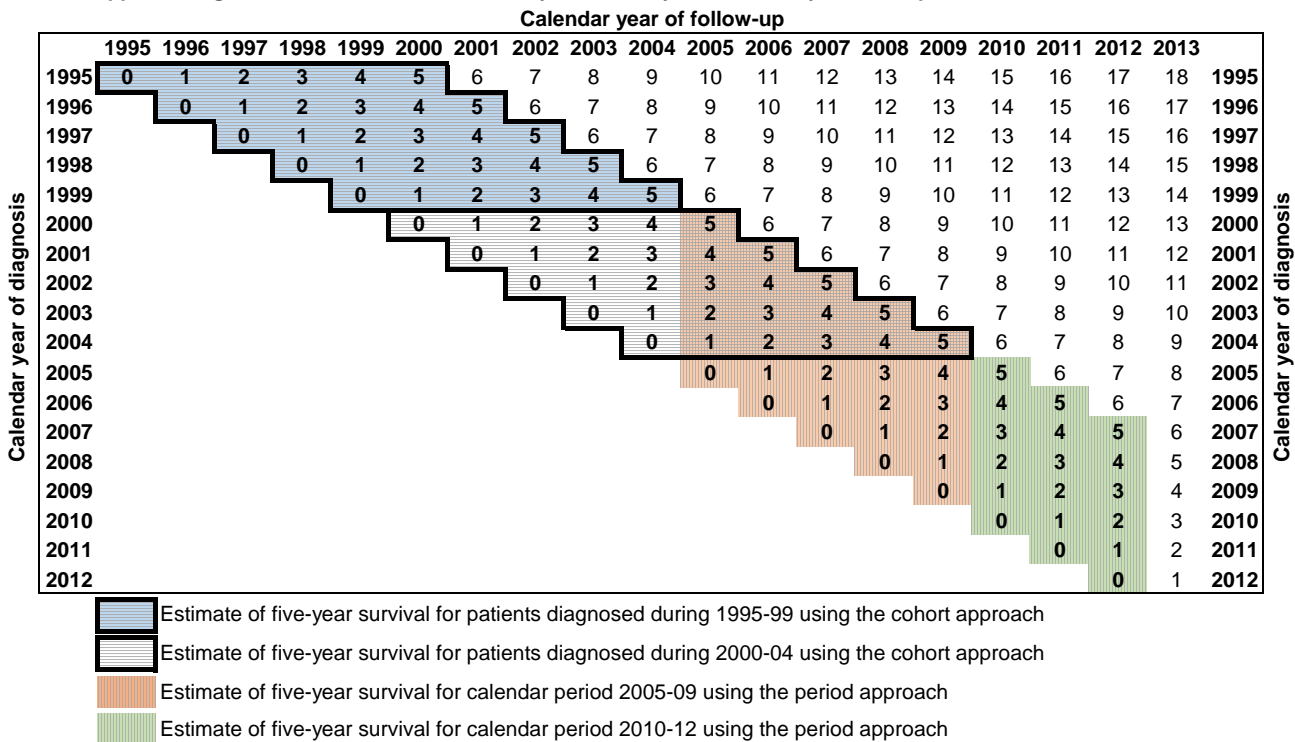
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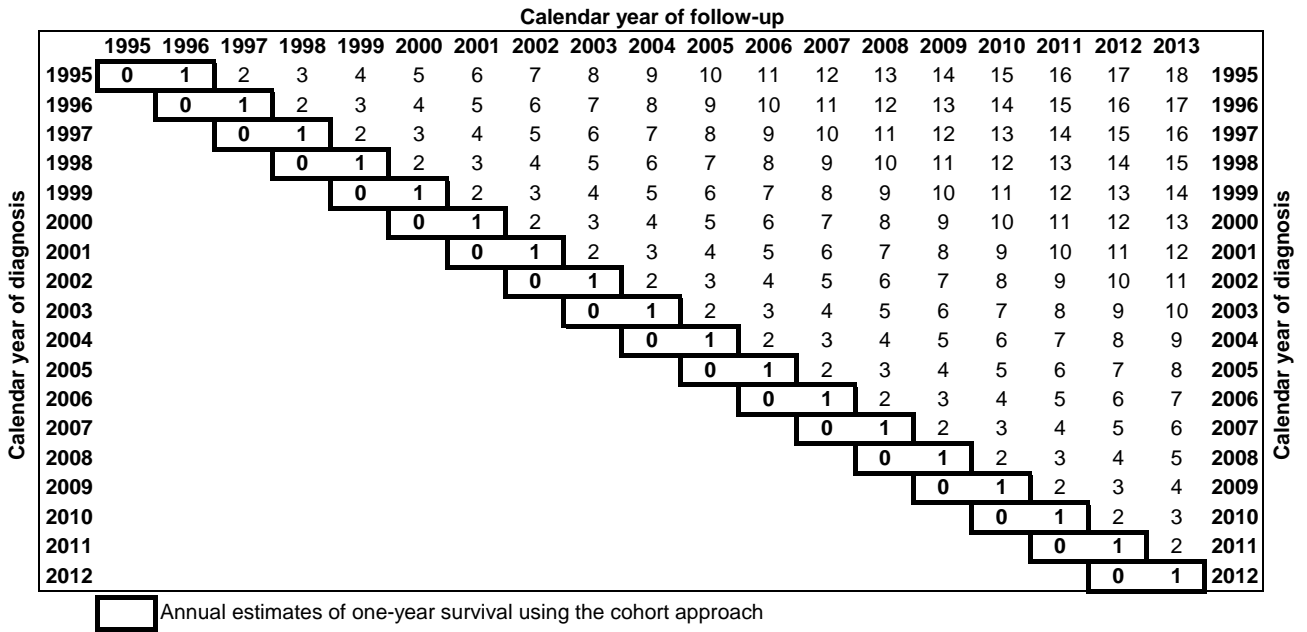
Web Appendix Figure 1. Structure of survival analysis for one-year survival by calendar period



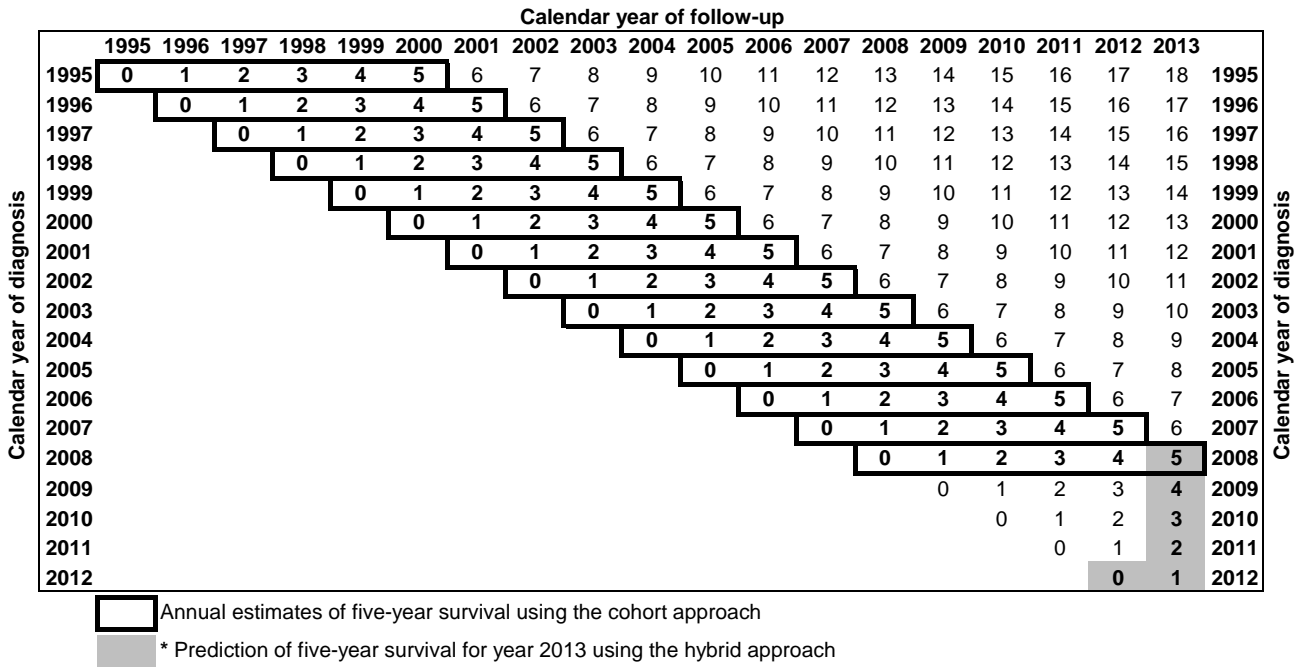
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Web Appendix Figure 4. Structure of survival analysis for five-year survival by year of diagnosis *



Web Appendix Table 1. Data quality control by calendar period of diagnosis (records and patients ineligible and excluded) - Stomach cancer															
	1995-2000			2000-2004			2005-2009			2010-2012			1995-2012		
	Records	Patients	%	Records	Patients	%	Records	Patients	%	Records	Patients	%	Records	Patients	%
Total registered	42,370	42,337	100.0	37,347	37,314	100.0	33,470	33,410	100.0	18,851	18,807	100.0	132,038	131,868	100.0
Incomplete data*	29	29	<0.1	14	14	<0.1	32	32	<0.1	4	4	<0.1	79	79	<0.1
Not resident in England	33	33	<0.1	6	6	<0.1	1	1	<0.1	0	0	0.0	40	40	<0.1
In situ neoplasm	224	218	0.5	310	299	0.8	467	440	1.3	321	306	1.6	1,322	1,263	1.0
Benign or uncertain	298	289	0.7	523	513	1.4	1,073	1,057	3.2	1,101	1,085	5.8	2,995	2,944	2.2
Metastatic	25	25	<0.1	25	25	<0.1	13	13	<0.1	0	0	0.0	63	63	<0.1
Kaposi Sarcoma	0	0	0.0	0	0	0.0	1	1	<0.1	1	1	<0.1	2	2	<0.1
Otherwise ineligible	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Lymphoma	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Leukaemia or myeloma	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Aged 100+	19	19	<0.1	20	20	<0.1	20	20	<0.1	18	18	<0.1	77	77	<0.1
Total ineligible		613	1.4		877	2.4		1,564	4.7		1,414	7.5		4,468	3.4
Total eligible		41,724	100.0		36,437	100.0		31,846	100.0		17,393	100.0		127,400	100.0
Vital status unknown	91	58	0.1	105	91	0.2	82	54	0.2	46	43	0.2	324	246	0.2
Sex not known	0	0	0.0	0	0	0.0	2	0	0.0	0	0	0.0	2	0	0.0
Sex-site error	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Site-morphology mismatch	37	37	<0.1	53	53	0.1	134	134	0.4	13	13	<0.1	237	237	0.2
Age-site mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Age-morphology mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Age-site-morphology mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Invalid dates**	5	3	<0.1	5	4	<0.1	2	1	<0.1	2	1	<0.1	14	9	<0.1
Death certificate only	3,012	2,990	7.2	1,447	1,440	4.0	931	920	2.9	358	355	2.0	5,748	5,705	4.5
Duplicate registration	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Synchronous tumours†	155	148	0.4	48	45	0.1	34	29	<0.1	19	14	<0.1	256	236	0.2
Multiple primary same site‡	23	11	<0.1	21	9	<0.1	28	15	<0.1	24	14	<0.1	96	49	<0.1
Total exclusions		3,247	7.8		1,642	4.5		1,153	3.6		440	2.5		6,482	5.1
Patients included in analysis		38,477	92.2		34,795	95.5		30,693	96.4		16,953	97.5		120,918	94.9

* Missing year of birth; missing month and/or year of diagnosis; missing year of last known vital status
** For example, 31 February, or date of diagnosis earlier than date of birth
† Two or more invasive primary malignancies in the same person, in the same site, and with the same date of diagnosis
‡ Two or more invasive primary malignancies in the same person, in the same site, but with different dates of diagnosis

Web Appendix Table 2. Data quality control by calendar period of diagnosis (records and patients ineligible and excluded) - Colon cancer															
	1995-2000			2000-2004			2005-2009			2010-2012			1995-2012		
	Records	Patients	%	Records	Patients	%	Records	Patients	%	Records	Patients	%	Records	Patients	%
Total registered	103,119	102,483	100.0	106,988	106,081	100.0	122,481	120,893	100.0	79,884	78,863	100.0	412,472	408,320	0.0
Incomplete data*	79	79	<0.1	22	22	<0.1	19	19	<0.1	4	4	<0.1	124	124	<0.1
Not resident in England	140	140	0.1	52	51	<0.1	1	1	<0.1	2	2	<0.1	195	194	<0.1
In situ neoplasm	440	419	0.4	1,446	1,381	1.3	4,463	4,223	3.5	4,327	4,056	5.1	10,676	10,079	2.5
Benign or uncertain	2,745	2,534	2.5	3,280	3,049	2.9	3,993	3,718	3.1	1,749	1,664	2.1	11,767	10,965	2.7
Metastatic	222	221	0.2	208	208	0.2	206	205	0.2	118	118	0.1	754	752	0.2
Kaposi Sarcoma	0	0	0.0	1	1	<0.1	1	1	<0.1	0	0	0.0	2	2	<0.1
Otherwise ineligible	183	23	<0.1	140	1	<0.1	172	0	0.0	115	0	0.0	610	24	<0.1
Lymphoma	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Leukaemia or myeloma	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Aged 100+	32	32	<0.1	39	39	<0.1	47	47	<0.1	38	38	<0.1	156	156	<0.1
Total ineligible		3,448	3.4		4,752	4.5		8,214	6.8		5,882	7.5		22,296	5.5
Total eligible		99,035	100.0		101,329	100.0		112,679	100.0		72,981	100.0		386,024	100.0
Vital status unknown	267	183	0.2	238	210	0.2	150	132	0.1	305	301	0.4	960	826	0.2
Sex not known	1	0	0.0	1	0	0.0	1	0	0.0	0	0	0.0	3	0	0.0
Sex-site error	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Site-morphology mismatch	67	67	<0.1	62	62	<0.1	34	34	<0.1	37	37	<0.1	200	200	<0.1
Age-site mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Age-morphology mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Age-site-morphology mismatch	25	25	<0.1	25	25	<0.1	37	37	<0.1	31	31	<0.1	118	118	<0.1
Invalid dates**	11	10	<0.1	18	2	<0.1	12	6	<0.1	4	3	<0.1	45	21	<0.1
Death certificate only	5,762	5,697	5.8	3,366	3,327	3.3	2,444	2,409	2.1	1,051	1,031	1.4	12,623	12,464	3.2
Duplicate registration	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Synchronous tumours†	1,006	700	0.7	882	551	0.5	1,165	646	0.6	719	397	0.5	3,772	2,294	0.6
Multiple primary same site‡	869	569	0.6	1,178	741	0.7	1,973	1,139	1.0	1,400	898	1.2	5,420	3,347	0.9
Total exclusions		7,251	7.3		4,918	4.9		4,403	3.9		2,698	3.7		19,270	5.0
Patients included in analysis		91,784	92.7		96,411	95.1		108,276	96.1		70,283	96.3		366,754	95.0

* Missing year of birth; missing month and/or year of diagnosis; missing year of last known vital status

** For example, 31 February, or date of diagnosis earlier than date of birth

† Two or more invasive primary malignancies in the same person, in the same site, and with the same date of diagnosis

‡ Two or more invasive primary malignancies in the same person, in the same site, but with different dates of diagnosis

Web Appendix Table 3. Data quality control by calendar period of diagnosis (records and patients ineligible and excluded) - Rectal cancer															
	1995-2000			2000-2004			2005-2009			2010-2012			1995-2012		
	Records	Patients	%	Records	Patients	%	Records	Patients	%	Records	Patients	%	Records	Patients	%
Total registered	47,207	47,043	100.0	49,646	49,423	100.0	54,604	54,388	100.0	35,533	35,411	100.0	226,757	226,032	100.0
Incomplete data*	46	46	<0.1	19	19	<0.1	18	18	<0.1	10	10	<0.1	93	93	<0.1
Not resident in England	76	76	0.2	32	32	<0.1	2	1	<0.1	1	1	<0.1	111	110	<0.1
In situ neoplasm	596	575	1.2	1,352	1,306	2.6	3,378	3,294	6.1	3,173	3,083	8.7	8,499	8,258	3.7
Benign or uncertain	2,603	2,510	5.3	2,729	2,622	5.3	2,392	2,315	4.3	525	519	1.5	8,249	7,966	3.5
Metastatic	19	18	<0.1	20	20	<0.1	13	13	<0.1	1	1	<0.1	53	52	<0.1
Kaposi Sarcoma	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Otherwise ineligible	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Lymphoma	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Leukaemia or myeloma	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Aged 100+	28	28	<0.1	14	14	<0.1	34	32	<0.1	12	12	0.1	88	86	<0.1
Total ineligible		3,253	6.9		4,013	8.1		5,673	10.4		3,626	10.2		16,565	7.3
Total eligible		43,790	93.1		45,410	91.9		48,715	89.6		31,785	89.8		169,700	100.0
Vital status unknown	181	133	0.7	160	143	0.7	119	105	0.3	217	208	1.2	677	589	0.3
Sex not known	0	0	0.0	1	0	0.0	2	0	0.0	2	0	0.0	5	0	0.0
Sex-site error	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Site-morphology mismatch	98	98	0.2	77	77	0.2	49	49	0.1	26	26	<0.1	250	250	0.1
Age-site mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Age-morphology mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Age-site-morphology mismatch	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Invalid dates**	6	5	<0.1	17	1	0.0	6	3	<0.1	2	0	0.0	31	9	<0.1
Death certificate only	1,799	1,769	5.8	1,156	1,147	3.3	788	780	1.8	381	381	1.4	4,124	4,077	2.4
Duplicate registration	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Synchronous tumours†	220	186	0.9	139	108	0.2	102	84	0.2	52	43	0.2	498	406	0.2
Multiple primary same site‡	94	52	0.3	119	62	0.1	127	74	0.2	88	64	0.2	341	165	<0.1
Total exclusions		2,243	5.1		1,538	3.4		1,095	2.2		722	2.3		5,598	3.3
Patients included in analysis		41,547	94.9		43,872	96.6		47,620	97.8		31,063	97.7		164,102	96.7

* Missing year of birth; missing month and/or year of diagnosis; missing year of last known vital status

** For example, 31 February, or date of diagnosis earlier than date of birth

† Two or more invasive primary malignancies in the same person, in the same site, and with the same date of diagnosis

‡ Two or more invasive primary malignancies in the same person, in the same site, but with different dates of diagnosis

