

ALL CANCER SITES  
BOTH SEXES

TABLE 1A. -- Characteristics of persons reported to the Danish Cancer Registry with any first primary cancer, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	171,749	208,192	379,941
No. who developed a second primary cancer	6,370	8,714	15,084
Average age at diagnosis of first cancer, yr	63	60	61
Average yr of diagnosis of first cancer	1966	1965	1965
Person-yr of follow-up	586,365	1,120,371	1,706,736
Average follow-up, yr	3.8	5.6	5.0
Percent given radiotherapy for first cancer	26	44	36

+ ICD-7 codes = 140-204.

\* Number excludes all persons who survived less than 2 mo after the diagnosis of their first primary cancer or who developed a simultaneous cancer during this period. First primary cancers diagnosed only at autopsy or by death certificate are also excluded as are in situ cancers.

TABLE 1B. -- Microscopic confirmation among persons who developed second primary cancers after any first primary cancer in Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	11,981	79.4
Only the first cancer	1,864	12.4
Only the second cancer	911	6.0
Neither first nor second cancer	329	2.2
Total second primary cancers	15,085	100.0

+ Minor discrepancies between table entries, and row and column sums in this and subsequent tables are due to rounding.

ALL CANCER SITES  
BOTH SEXES

TABLE 1C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of any first primary cancer among males and females in Denmark, 1943-80+

Second primary cancer site	Yr after first primary cancer diagnosis																		
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total						
	No. starting interval	Person-yr in interval		Person-yr in interval		Person-yr in interval		Person-yr in interval		Person-yr in interval		Person-yr in interval		Person-yr in interval					
	379,941	292,653		229,154		586,770		102,664		379,625		56,430		447,688		379,941		1,706,736	
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	
All second cancers	1,879	2,742	0.7*	4,952	5,383	0.9*	3,447	3,597	1.0*	4,806	4,859	1.0	15,084	16,580	0.9*				
Buccal cavity, pharynx	37	63	0.6*	126	116	1.1	92	73	1.3*	100	90	1.1	355	341	1.0				
Lip	14	28	0.5*	48	48	1.0	33	29	1.2	26	32	0.8	121	136	0.9				
Tongue	3	6	0.5	10	12	0.8	16	8	2.0*	10	11	1.0	39	37	1.1				
Salivary gland	7	8	0.9	12	15	0.8	5	10	0.5	17	12	1.5	41	44	0.9				
Gum, other mouth	4	11	0.4*	30	21	1.4	19	14	1.3	25	21	1.2	78	68	1.1				
Pharynx	9	10	0.9	26	19	1.4	19	12	1.6	22	15	1.5	76	56	1.4*				
Digestive system	607	989	0.6*	1,556	1,872	0.8*	1,128	1,234	0.9*	1,688	1,673	1.0	4,979	5,768	0.9*				
Esophagus	20	37	0.5*	51	67	0.8	35	42	0.8	63	53	1.2	169	198	0.9*				
Stomach	156	292	0.5*	379	520	0.7*	244	325	0.7*	333	389	0.9*	1,112	1,526	0.7*				
Colon	153	259	0.6*	494	513	1.0	406	353	1.2*	563	519	1.1	1,616	1,645	1.0				
Rectum	94	200	0.5*	296	377	0.8*	181	245	0.7*	338	321	1.1	909	1,143	0.8*				
Liver, biliary	59	66	0.9	116	133	0.9	87	94	0.9	130	144	0.9	392	436	0.9*				
Pancreas	99	98	1.0	142	195	0.7*	137	133	1.0	214	194	1.1	592	620	1.0				
Respiratory system	211	351	0.6*	725	661	1.1*	557	417	1.3*	663	531	1.2*	2,156	1,959	1.1*				
Nasal cavities, sinuses	4	6	0.7	11	11	1.0	4	7	0.6	14	9	1.6	33	33	1.0				
Larynx	19	22	0.9	49	41	1.2	29	25	1.2	38	30	1.3	135	118	1.1				
Trachea, bronchus, lung	180	304	0.6*	642	574	1.1*	502	362	1.4*	584	464	1.3*	1,908	1,704	1.1*				
Breast	130	278	0.5*	385	618	0.6*	308	453	0.7*	471	673	0.7*	1,294	2,021	0.6*				
Female genital tract	228	257	0.9	556	579	1.0	347	420	0.8*	494	583	0.8*	1,625	1,838	0.9*				
Cervix uteri	50	91	0.6*	145	205	0.7*	84	142	0.6*	100	169	0.6*	379	606	0.6*				
Corpus uteri	54	71	0.8*	148	161	0.9	114	120	0.9	156	180	0.9	472	532	0.9*				
Uterus, NOS	11	6	1.9	22	11	1.9*	11	8	1.4	4	10	0.4*	48	35	1.4*				
Ovary, fallopian tubes	106	75	1.4*	210	168	1.2*	106	125	0.9	165	184	0.9	587	551	1.1				
Prostate gland	126	203	0.6*	260	365	0.7*	191	222	0.9*	214	252	0.8*	791	1,042	0.8*				
Testis	4	5	0.7	18	10	1.8*	14	6	2.4*	15	6	2.5*	51	27	1.9*				
Kidney, renal pelvis, ureter	137	79	1.7*	235	156	1.5*	128	105	1.2*	175	145	1.2*	675	485	1.4*				
Bladder, other urinary	163	151	1.1	405	287	1.4*	249	185	1.3*	344	244	1.4*	1,161	867	1.3*				
Melanoma of the skin	22	29	0.7	78	62	1.3	45	44	1.0	76	62	1.2	221	197	1.1				
Eye	7	8	0.9	17	16	1.1	11	10	1.1	13	13	1.0	48	47	1.0				
Brain, central nervous system	38	48	0.8	90	98	0.9	55	66	0.8	84	88	1.0	267	300	0.9				
Thyroid gland	16	13	1.3	26	26	1.0	20	18	1.1	33	27	1.2	95	84	1.1				
Bone	3	5	0.6	7	9	0.8	16	6	2.7*	17	7	2.3*	43	28	1.6*				
Connective tissue	7	9	0.7	27	18	1.5	19	11	1.7*	29	14	2.1*	82	53	1.5*				
Lymphatic, hematopoietic system	111	159	0.7*	364	313	1.2*	218	210	1.0	298	291	1.0	991	973	1.0				
Non-Hodgkin's lymphoma	34	43	0.8	105	86	1.2	56	59	1.0	94	84	1.1	289	272	1.1				
Hodgkin's disease	11	12	0.9	25	23	1.1	13	15	0.9	21	19	1.1	70	68	1.0				
Multiple myeloma	9	30	0.3*	34	60	0.6*	28	41	0.7*	46	58	0.8	117	189	0.6*				
Leukemias	56	72	0.8	197	141	1.4*	117	94	1.3*	131	128	1.0	501	434	1.2*				
Chronic lymphocytic	25	37	0.7*	81	70	1.2	52	46	1.1	58	62	0.9	216	215	1.0				
Acute nonlymphocytic	24	18	1.3	74	37	2.0*	38	26	1.5*	41	38	1.1	177	120	1.5*				

+ ICD-7 codes = 140-204.

\* P<.05.

ALL CANCER SITES  
MALES

TABLE 1D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of any first primary cancer among males in Denmark, 1943-80+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	171,749		92,075		35,264		17,170		171,749					
Person-yr in interval	125,334		216,634		123,347		121,051		586,365						
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	935	1,449	0.6*	2,314	2,555	0.9*	1,469	1,512	1.0	1,652	1,652	1.0	6,370	7,169	0.9*
Buccal cavity, pharynx	23	46	0.5*	85	79	1.1	54	45	1.2	45	47	1.0	207	217	1.0
Lip	11	25	0.4*	38	43	0.9	25	25	1.0	18	25	0.7	92	117	0.8*
Tongue	2	3	0.6	5	6	0.9	9	3	2.7*	3	3	0.9	19	16	1.2
Salivary gland	2	4	0.5	4	6	0.6	3	4	0.8	4	4	1.0	13	18	0.7
Gum, other mouth	3	6	0.5	22	11	2.0*	5	7	0.8	8	7	1.1	38	32	1.2
Pharynx	5	7	0.7	16	12	1.3	12	7	1.7	12	7	1.6	45	34	1.3
Digestive system	311	554	0.6*	707	955	0.7*	462	558	0.8*	559	591	0.9	2,039	2,657	0.8*
Esophagus	14	25	0.6*	27	42	0.7*	15	24	0.6	30	24	1.3	86	114	0.8*
Stomach	88	177	0.5*	198	294	0.7*	106	168	0.6*	136	165	0.8*	528	803	0.7*
Colon	70	126	0.6*	191	223	0.9*	140	134	1.0	144	150	1.0	545	633	0.9*
Rectum	51	123	0.4*	147	212	0.7*	89	124	0.7*	118	130	0.9	405	589	0.7*
Liver, biliary	26	30	0.9	48	54	0.9	40	33	1.2	46	37	1.2	160	154	1.0
Pancreas	49	56	0.9	65	101	0.6*	60	61	1.0	70	68	1.0	244	285	0.9*
Respiratory system	155	287	0.5*	499	515	1.0	349	305	1.1*	387	340	1.1*	1,390	1,446	1.0
Nasal cavities, sinuses	2	4	0.5	9	7	1.3	2	4	0.5	7	4	1.6	20	19	1.0
Larynx	14	19	0.7	42	34	1.2	21	20	1.0	29	22	1.3	106	97	1.1
Trachea, bronchus, lung	133	250	0.5*	435	450	1.0	311	267	1.2*	338	299	1.1*	1,217	1,266	1.0
Breast	1	3	0.3	3	5	0.6	1	3	0.3	5	4	1.4	10	15	0.7
Prostate gland	126	203	0.6*	260	365	0.7*	191	222	0.9*	214	252	0.8*	791	1,042	0.8*
Testis	4	5	0.7	18	10	1.8*	14	6	2.4*	15	6	2.5*	51	27	1.9*
Kidney, renal pelvis, ureter	78	47	1.7*	138	83	1.7*	66	50	1.3*	66	55	1.2	348	235	1.5*
Bladder, other urinary	119	117	1.0	284	211	1.3*	161	127	1.3*	168	144	1.2	732	598	1.2*
Melanoma of the skin	8	12	0.7	29	21	1.4	9	13	0.7	17	14	1.2	63	60	1.1
Eye	2	4	0.5	5	8	0.7	2	4	0.5	0	5	0.0*	9	21	0.4*
Brain, central nervous system	18	22	0.8	38	40	1.0	24	23	1.0	18	24	0.7	98	109	0.9
Thyroid gland	6	4	1.5	4	7	0.6	4	4	0.9	7	5	1.5	21	20	1.1
Bone	2	3	0.8	2	5	0.4	3	3	1.1	7	3	2.7*	14	12	1.1
Connective tissue	2	5	0.4	14	8	1.6	13	5	2.7*	6	5	1.2	35	23	1.5*
Lymphatic, hematopoietic system	63	93	0.7*	192	166	1.2	92	99	0.9	106	109	1.0	453	468	1.0
Non-Hodgkin's lymphoma	18	24	0.8	57	43	1.3*	20	25	0.8	32	28	1.1	127	120	1.1
Hodgkin's disease	8	7	1.2	13	11	1.1	5	7	0.7	9	7	1.3	35	32	1.1
Multiple myeloma	6	17	0.3*	22	31	0.7	15	19	0.8	13	21	0.6	56	88	0.6*
Leukemias	30	45	0.7*	97	79	1.2	51	47	1.1	51	52	1.0	229	223	1.0
Chronic lymphocytic	14	25	0.6*	47	44	1.1	31	26	1.2	27	29	0.9	119	125	1.0
Acute nonlymphocytic	11	10	1.1	35	19	1.8*	12	12	1.0	11	13	0.8	69	54	1.3

+ ICD-7 codes = 140-204.

\* P<.05.

ALL CANCER SITES  
FEMALES

TABLE 1E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of any first primary cancer among females in Denmark, 1943-80+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	208,192		137,079			67,400			39,260			208,192		
Person-yr in interval	167,319		370,136			256,279			326,638			1,120,371			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	944	1,292	0.7*	2,638	2,828	0.9*	1,978	2,085	0.9*	3,154	3,207	1.0	8,714	9,412	0.9*
Buccal cavity, pharynx	14	17	0.8	41	37	1.1	38	27	1.4	55	43	1.3	148	124	1.2*
Lip	3	3	1.2	10	6	1.8	8	4	2.0	8	7	1.2	29	19	1.5*
Tongue	1	3	0.3	5	6	0.8	7	5	1.5	7	7	1.0	20	21	0.9
Salivary gland	5	4	1.3	8	8	1.0	2	6	0.3	13	8	1.7	28	26	1.1
Gum, other mouth	1	5	0.2	8	10	0.8	14	8	1.8	17	14	1.2	40	36	1.1
Pharynx	4	3	1.3	10	7	1.5	7	5	1.4	10	7	1.3	31	22	1.4
Digestive system	296	435	0.7*	849	918	0.9*	666	676	1.0	1,129	1,083	1.0	2,940	3,111	0.9*
Esophagus	6	12	0.5	24	25	1.0	20	18	1.1	33	29	1.1	83	85	1.0
Stomach	68	115	0.6*	181	226	0.8*	138	158	0.9	197	224	0.9	584	723	0.8*
Colon	83	133	0.6*	303	290	1.0	266	219	1.2*	419	369	1.1*	1,071	1,011	1.1
Rectum	43	77	0.6*	149	165	0.9	92	121	0.8*	220	191	1.2*	504	554	0.9*
Liver, biliary	33	36	0.9	68	79	0.9	47	61	0.8	84	106	0.8*	232	283	0.8*
Pancreas	50	42	1.2	77	94	0.8	77	72	1.1	144	126	1.1	348	335	1.0
Respiratory system	56	64	0.9	226	146	1.5*	208	112	1.9*	276	191	1.4*	766	513	1.5*
Nasal cavities, sinuses	2	2	1.0	2	4	0.5	2	3	0.6	7	5	1.5	13	14	0.9
Larynx	5	3	1.8	7	6	1.1	8	5	1.7	9	8	1.2	29	21	1.4
Trachea, bronchus, lung	47	54	0.9	207	124	1.7*	191	96	2.0*	246	165	1.5*	691	439	1.6*
Breast	129	275	0.5*	382	612	0.6*	307	450	0.7*	466	669	0.7*	1,284	2,006	0.6*
Female genital tract	228	257	0.9	556	579	1.0	347	420	0.8*	494	583	0.8*	1,625	1,838	0.9*
Cervix uteri	50	91	0.6*	145	205	0.7*	84	142	0.6*	100	169	0.6*	379	606	0.6*
Corpus uteri	54	71	0.8*	148	161	0.9	114	120	0.9	156	180	0.9	472	532	0.9*
Uterus, NOS	11	6	1.9	22	11	1.9*	11	8	1.4	4	10	0.4*	48	35	1.4*
Ovary, fallopian tubes	106	75	1.4*	210	168	1.2*	106	125	0.9	165	184	0.9	587	551	1.1
Kidney, renal pelvis, ureter	59	33	1.8*	97	73	1.3*	62	55	1.1	109	90	1.2	327	251	1.3*
Bladder, other urinary	44	34	1.3	121	76	1.6*	88	58	1.5*	176	100	1.8*	429	269	1.6*
Melanoma of the skin	14	18	0.8	49	41	1.2	36	31	1.2	59	47	1.2	158	137	1.2
Eye	5	4	1.4	12	8	1.5	9	6	1.5	13	8	1.5	39	26	1.5*
Brain, central nervous system	20	26	0.8	52	58	0.9	31	43	0.7	66	64	1.0	169	191	0.9
Thyroid gland	10	9	1.2	22	19	1.2	16	14	1.1	26	22	1.2	74	64	1.1
Bone	1	2	0.4	5	5	1.0	13	3	3.9*	10	5	2.1*	29	15	1.9*
Connective tissue	5	4	1.1	13	10	1.4	6	7	0.9	23	9	2.5*	47	30	1.6*
Lymphatic, hematopoietic system	48	66	0.7*	172	147	1.2*	126	111	1.1	192	182	1.1	538	505	1.1
Non-Hodgkin's lymphoma	16	19	0.8	48	44	1.1	36	33	1.1	62	56	1.1	162	152	1.1
Hodgkin's disease	3	5	0.6	12	11	1.1	8	8	1.0	12	12	1.0	35	36	1.0
Multiple myeloma	3	13	0.2*	12	29	0.4*	13	22	0.6	33	37	0.9	61	101	0.6*
Leukemias	26	28	0.9	100	61	1.6*	66	46	1.4*	80	75	1.1	272	211	1.3*
Chronic lymphocytic	11	12	0.9	34	26	1.3	21	20	1.1	31	33	0.9	97	91	1.1
Acute nonlymphocytic	13	8	1.6	39	18	2.1*	26	14	1.8*	30	25	1.2	108	66	1.6*

+ ICD-7 codes = 140-204.

\* P<.05.

ALL CANCER SITES  
BOTH SEXES  
LONG-TERM SURVIVORS

TABLE 1F. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of any first primary cancer among males and females, long-term survivors in Denmark, 1943-80+

Second primary cancer site	Yr after first primary cancer diagnosis														
	1-9 yr			10-19 yr			20-29 yr			30+ yr			Total (<1-30+ yr)		
No. starting interval	229,154			56,430			18,121			3,699			379,941		
Person-yr in interval	966,394			338,445			97,336			11,908			1,706,736		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	8,399	8,980	0.9*	3,458	3,504	1.0	1,158	1,187	1.0	190	168	1.1	15,084	16,580	0.9*
Buccal cavity, pharynx	218	188	1.2*	78	66	1.2	19	21	0.9	3	3	1.0	355	341	1.0
Lip	81	77	1.1	17	24	0.7	8	7	1.2	1	1	1.1	121	136	0.9
Tongue	26	20	1.3	9	8	1.2	1	3	0.4	0	0	0.0	39	37	1.1
Salivary gland	17	25	0.7	14	9	1.6	3	2	1.2	0	0	0.0	41	44	0.9
Gum, other mouth	49	36	1.4*	23	15	1.6*	1	6	0.2*	1	1	1.0	78	68	1.1
Pharynx	45	31	1.5*	15	11	1.4	6	3	1.7	1	1	2.0	76	56	1.4*
Digestive system	2,684	3,106	0.9*	1,184	1,198	1.0	415	415	1.0	89	61	1.5*	4,979	5,768	0.9*
Esophagus	86	108	0.8*	50	39	1.3	9	13	0.7	4	2	2.3	169	198	0.9*
Stomach	623	846	0.7*	235	290	0.8*	81	88	0.9	17	11	1.5	1,112	1,526	0.7*
Small intestine	49	26	1.9*	14	10	1.4	4	4	1.0	0	1	0.0	81	49	1.7*
Colon	900	866	1.0	400	362	1.1	141	136	1.0	22	21	1.0	1,616	1,645	1.0
Rectum	477	622	0.8*	233	233	1.0	86	77	1.1	19	11	1.8*	909	1,143	0.8*
Liver	73	79	0.9	33	34	1.0	11	13	0.8	4	2	1.9	145	152	1.0
Gallbladder, other biliary	133	148	0.9	50	66	0.8*	25	25	1.0	9	4	2.5*	252	285	0.9
Pancreas	279	328	0.9*	149	136	1.1	52	51	1.0	13	8	1.7	592	620	1.0
Respiratory system	1,282	1,078	1.2*	494	386	1.3*	152	127	1.2*	17	18	1.0	2,156	1,959	1.1*
Nasal cavities, sinuses	15	18	0.8	9	7	1.4	5	2	2.4	0	0	0.0	33	33	1.0
Larynx	78	66	1.2	29	22	1.3	8	7	1.2	1	1	1.1	135	118	1.1
Trachea, bronchus, lung	1,144	936	1.2*	441	336	1.3*	128	112	1.1	15	16	1.0	1,908	1,704	1.1*
Other respiratory	5	7	0.7	0	2	0.0	0	1	0.0	0	0	0.0	6	13	0.5
Breast	693	1,071	0.6*	362	477	0.8*	97	171	0.6*	12	24	0.5*	1,294	2,021	0.6*
Female genital tract	903	998	0.9*	338	426	0.8*	136	139	1.0	20	18	1.1	1,625	1,838	0.9*
Cervix uteri	229	346	0.7*	71	130	0.5*	23	35	0.6*	6	4	1.5	379	606	0.6*
Corpus uteri	262	281	0.9	103	129	0.8*	47	45	1.1	6	6	1.0	472	532	0.9*
Uterus, NOS	33	19	1.7*	3	8	0.4	0	3	0.0	1	0	2.9	48	35	1.4*
Ovary, fallopian tubes	316	293	1.1	121	132	0.9	40	46	0.9	4	6	0.7	587	551	1.1
Prostate gland	451	588	0.8*	170	191	0.9	37	54	0.7*	7	8	0.9	791	1,042	0.8*
Testis	32	16	2.0*	9	5	1.9	6	1	5.0*	0	0	0.0	51	27	1.9*
Kidney, renal pelvis, ureter	363	261	1.4*	128	104	1.2*	42	36	1.2	5	5	1.0	675	485	1.4*
Bladder, other urinary	654	472	1.4*	234	176	1.3*	94	60	1.6*	16	9	1.8*	1,161	867	1.3*
Melanoma of the skin	123	106	1.2	52	44	1.2	22	15	1.4	2	2	0.9	221	197	1.1
Eye	28	26	1.1	8	10	0.8	4	3	1.3	1	0	2.9	48	47	1.0
Brain, central nervous system	145	164	0.9	54	65	0.8	27	21	1.3	3	3	1.2	267	300	0.9
Thyroid gland	46	45	1.0	27	19	1.4	5	7	0.7	1	1	1.0	95	84	1.1
Endocrine gland	13	11	1.2	7	4	1.6	3	2	1.9	0	0	0.0	23	21	1.1
Bone	23	15	1.5	13	6	2.4*	2	2	1.2	2	0	14.3*	43	28	1.6*
Connective tissue	46	29	1.6*	22	10	2.1*	6	3	1.9	1	0	2.2	82	53	1.5*
Lymphatic, hematopoietic system	582	523	1.1*	224	208	1.1	70	73	1.0	4	10	0.4*	991	973	1.0
Non-Hodgkin's lymphoma	161	145	1.1	68	59	1.1	25	21	1.2	1	3	0.3	289	272	1.1
Hodgkin's disease	38	38	1.0	17	14	1.2	4	4	0.9	0	1	0.0	70	68	1.0
Multiple myeloma	62	101	0.6*	32	41	0.8	13	15	0.9	1	2	0.5	117	189	0.6*
Leukemias	314	234	1.3*	103	91	1.1	27	32	0.9	1	5	0.2	501	434	1.2*
Chronic lymphocytic	133	116	1.1	46	45	1.0	11	15	0.7	1	2	0.5	216	215	1.0
Acute nonlymphocytic	112	63	1.8*	32	27	1.2	9	10	0.9	0	2	0.0	177	120	1.5*

+ ICD-7 codes = 140-204.

\* P<.05.

ALL CANCER SITES  
 MALES  
 LONG-TERM SURVIVORS

TABLE 1G. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of any first primary cancer among males, long-term survivors in Denmark, 1943-80+

Second primary cancer site	Yr after first primary cancer diagnosis																					
	1-9 yr			10-19 yr			20-29 yr			30+ yr			Total (<1-30+ yr)									
	No. starting interval	92,075		17,170		4,529		864		171,749		Person-yr in interval		339,980		95,066		23,199		2,786		586,365
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E							
All second cancers	3,783	4,067	0.9*	1,275	1,258	1.0	327	347	0.9	50	47	1.1	6,370	7,169	0.9*							
Buccal cavity, pharynx	139	124	1.1	34	36	0.9	10	10	1.1	1	1	0.8	207	217	1.0							
Lip	63	67	0.9	14	19	0.7	4	5	0.8	0	1	0.0	92	117	0.8*							
Tongue	14	9	1.5	3	3	1.2	0	1	0.0	0	0	0.0	19	16	1.2							
Salivary gland	7	10	0.7	2	3	0.7	2	1	2.6	0	0	0.0	13	18	0.7							
Gum, other mouth	27	18	1.5	7	6	1.3	1	2	0.6	0	0	0.0	38	32	1.2							
Pharynx	28	19	1.5	8	6	1.4	3	2	1.9	1	0	4.5	45	34	1.3							
Digestive system	1,169	1,513	0.8*	425	455	0.9	112	120	0.9	22	16	1.4	2,039	2,657	0.8*							
Esophagus	42	65	0.6*	27	18	1.5	1	5	0.2	2	1	3.5	86	114	0.8*							
Stomach	304	462	0.7*	100	130	0.8*	29	31	0.9	7	4	1.9	528	803	0.7*							
Small intestine	22	13	1.7*	4	4	1.0	1	1	0.9	0	0	0.0	36	22	1.6*							
Colon	331	357	0.9	107	114	0.9	36	32	1.1	1	4	0.2	545	633	0.9*							
Rectum	236	336	0.7*	92	100	0.9	21	26	0.8	5	3	1.5	405	589	0.7*							
Liver	41	44	0.9	23	15	1.6	5	4	1.1	2	1	3.1	85	79	1.1							
Gallbladder, other biliary	48	43	1.1	11	14	0.8	4	4	1.1	2	0	4.5	77	75	1.0							
Pancreas	125	161	0.8*	54	51	1.1	13	14	0.9	3	2	1.6	244	285	0.9*							
Respiratory system	848	819	1.0	303	256	1.2*	76	74	1.0	8	10	0.8	1,390	1,446	1.0							
Nasal cavities, sinuses	11	11	1.0	7	3	2.1	0	1	0.0	0	0	0.0	20	19	1.0							
Larynx	63	55	1.2	24	17	1.4	4	5	0.8	1	1	1.5	106	97	1.1							
Trachea, bronchus, lung	746	717	1.0	265	225	1.2*	66	65	1.0	7	9	0.8	1,217	1,266	1.0							
Other respiratory	3	4	0.8	0	1	0.0	0	0	0.0	0	0	0.0	4	7	0.6							
Breast	4	9	0.5	3	3	1.1	1	1	1.3	1	0	9.1	10	15	0.7							
Prostate gland	451	588	0.8*	170	191	0.9	37	54	0.7*	7	8	0.9	791	1,042	0.8*							
Testis	32	16	2.0*	9	5	1.9	6	1	5.0*	0	0	0.0	51	27	1.9*							
Kidney, renal pelvis, ureter	204	133	1.5*	55	42	1.3	11	12	0.9	0	2	0.0	348	235	1.5*							
Bladder, other urinary	445	337	1.3*	133	108	1.2*	31	32	1.0	4	5	0.9	732	598	1.2*							
Melanoma of the skin	38	34	1.1	11	11	1.0	6	3	1.9	0	0	0.0	63	60	1.1							
Eye	7	12	0.6	0	4	0.0	0	1	0.0	0	0	0.0	9	21	0.4*							
Brain, central nervous system	62	62	1.0	13	18	0.7	5	5	1.0	0	1	0.0	98	109	0.9							
Thyroid gland	8	11	0.7	5	4	1.4	2	1	2.2	0	0	0.0	21	20	1.1							
Endocrine gland	4	5	0.8	3	2	1.9	1	0	2.3	0	0	0.0	8	9	0.9							
Bone	5	7	0.7	4	2	1.9	1	1	2.0	2	0	50.0*	14	12	1.1							
Connective tissue	27	13	2.0*	5	4	1.3	1	1	1.1	0	0	0.0	35	23	1.5*							
Lymphatic, hematopoietic system	284	266	1.1	82	83	1.0	21	23	0.9	3	3	1.0	453	468	1.0							
Non-Hodgkin's lymphoma	77	68	1.1	24	21	1.1	7	6	1.2	1	1	1.3	127	120	1.1							
Hodgkin's disease	18	18	1.0	8	5	1.5	1	1	0.7	0	0	0.0	35	32	1.1							
Multiple myeloma	37	50	0.7	10	16	0.6	2	4	0.5	1	1	1.9	56	88	0.6*							
Leukemias	148	127	1.2	40	40	1.0	10	11	0.9	1	1	0.7	229	223	1.0							
Chronic lymphocytic	78	71	1.1	23	22	1.0	3	6	0.5	1	1	1.3	119	125	1.0							
Acute nonlymphocytic	47	31	1.5*	7	10	0.7	4	3	1.4	0	0	0.0	69	54	1.3							

+ ICD-7 codes = 140-204.

\* P<.05.

ALL CANCER SITES  
FEMALES  
LONG-TERM SURVIVORS

TABLE 1H. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of any first primary cancer among females, long-term survivors in Denmark, 1943-80+

Second primary cancer site	Yr after first primary cancer diagnosis															
	1-9 yr			10-19 yr			20-29 yr			30+ yr			Total (<1-30+ yr)			
	No. starting interval	137,079		39,260		13,592		2,835		208,192		626,414	243,380	74,137	9,122	1,120,371
Person-yr in interval																
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	
All second cancers	4,616	4,913	0.9*	2,183	2,246	1.0	831	840	1.0	140	121	1.2	8,714	9,412	0.9*	
Buccal cavity, pharynx	79	64	1.2	44	30	1.5*	9	11	0.8	2	2	1.1	148	124	1.2*	
Lip	18	10	1.9*	3	4	0.7	4	2	2.2	1	0	3.4	29	19	1.5*	
Tongue	12	11	1.1	6	5	1.2	1	2	0.5	0	0	0.0	20	21	0.9	
Salivary gland	10	14	0.7	12	6	2.0*	1	2	0.6	0	0	0.0	28	26	1.1	
Gum, other mouth	22	18	1.2	16	9	1.8*	0	4	0.0*	1	1	1.4	40	36	1.1	
Pharynx	17	12	1.4	7	5	1.3	3	2	1.6	0	0	0.0	31	22	1.4	
Digestive system	1,515	1,593	1.0*	759	743	1.0	303	295	1.0	67	45	1.5*	2,940	3,111	0.9*	
Esophagus	44	43	1.0	23	20	1.1	8	8	1.0	2	1	1.7	83	85	1.0	
Stomach	319	384	0.8*	135	160	0.8*	52	56	0.9	10	8	1.3	584	723	0.8*	
Small intestine	27	14	2.0*	10	6	1.6	3	3	1.1	0	0	0.0	45	27	1.7*	
Colon	569	509	1.1*	293	249	1.2*	105	104	1.0	21	17	1.3	1,071	1,011	1.1	
Rectum	241	286	0.8*	141	133	1.1	65	51	1.3	14	7	1.9*	504	554	0.9*	
Liver	32	35	0.9	10	19	0.5*	6	9	0.7	2	1	1.3	60	73	0.8	
Gallbladder, other biliary	85	105	0.8*	39	52	0.7	21	21	1.0	7	3	2.2	175	210	0.8*	
Pancreas	154	167	0.9	95	84	1.1	39	36	1.1	10	6	1.7	348	335	1.0	
Respiratory system	434	258	1.7*	191	130	1.5*	76	53	1.4*	9	8	1.2	766	513	1.5*	
Nasal cavities, sinuses	4	7	0.5	2	3	0.6	5	1	4.0*	0	0	0.0	13	14	0.9	
Larynx	15	11	1.4	5	5	0.9	4	2	2.0	0	0	0.0	29	21	1.4	
Trachea, bronchus, lung	398	220	1.8*	176	112	1.6*	62	46	1.3*	8	7	1.2	691	439	1.6*	
Other respiratory	2	3	0.6	0	1	0.0	0	0	0.0	0	0	0.0	2	6	0.3	
Breast	689	1,062	0.6*	359	475	0.8*	96	171	0.6*	11	24	0.5*	1,284	2,006	0.6*	
Female genital tract	903	998	0.9*	338	426	0.8*	136	139	1.0	20	18	1.1	1,625	1,838	0.9*	
Cervix uteri	229	346	0.7*	71	130	0.5*	23	35	0.6*	6	4	1.5	379	606	0.6*	
Corpus uteri	262	281	0.9	103	129	0.8*	47	45	1.1	6	6	1.0	472	532	0.9*	
Uterus, NOS	33	19	1.7*	3	8	0.4	0	3	0.0	1	0	2.9	48	35	1.4*	
Ovary, fallopian tubes	316	293	1.1	121	132	0.9	40	46	0.9	4	6	0.7	587	551	1.1	
Kidney, renal pelvis, ureter	159	128	1.2*	73	62	1.2	31	24	1.3	5	3	1.4	327	251	1.3*	
Bladder, other urinary	209	135	1.6*	101	67	1.5*	63	28	2.2*	12	4	2.8*	429	269	1.6*	
Melanoma of the skin	85	72	1.2	41	34	1.2	16	12	1.3	2	2	1.2	158	137	1.2	
Eye	21	14	1.5	8	6	1.3	4	2	1.9	1	0	4.2	39	26	1.5*	
Brain, central nervous system	83	102	0.8	41	46	0.9	22	16	1.4	3	2	1.5	169	191	0.9	
Thyroid gland	38	33	1.1	22	16	1.4	3	6	0.5	1	1	1.1	74	64	1.1	
Endocrine gland	9	6	1.5	4	3	1.4	2	1	1.7	0	0	0.0	15	12	1.3	
Bone	18	8	2.2*	9	3	2.6*	1	1	0.9	0	0	0.0	29	15	1.9*	
Connective tissue	19	16	1.2	17	7	2.6*	5	2	2.2	1	0	3.0	47	30	1.6*	
Lymphatic, hematopoietic system	298	257	1.2*	142	125	1.1	49	50	1.0	1	7	0.1*	538	505	1.1	
Non-Hodgkin's lymphoma	84	77	1.1	44	38	1.2	18	15	1.2	0	2	0.0	162	152	1.1	
Hodgkin's disease	20	20	1.0	9	9	1.1	3	3	1.0	0	0	0.0	35	36	1.0	
Multiple myeloma	25	51	0.5*	22	26	0.9	11	10	1.1	0	1	0.0	61	101	0.6*	
Leukemias	166	108	1.5*	63	52	1.2	17	21	0.8	0	3	0.0	272	211	1.3*	
Chronic lymphocytic	55	46	1.2	23	22	1.0	8	9	0.9	0	1	0.0	97	91	1.1	
Acute nonlymphocytic	65	33	2.0*	25	17	1.5	5	7	0.7	0	1	0.0	108	66	1.6*	

+ ICD-7 codes = 140-204.

\* P<.05.