

BREAST  
FEMALES

TABLE 1A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the breast, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	0	41,109	41,109
No. who developed a second primary cancer	0	3,984	3,984
Average age at diagnosis of first cancer, yr	0	59	59
Average yr of diagnosis of first cancer	0	1964	1964
Person-yr of follow-up	0	271,524	271,524
Average follow-up, yr	0.0	6.6	6.6
Percent given radiotherapy for first cancer	0.0	28.4	28.4

+ ICD-0 code = 174.

\* 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 an initial cancer of the breast in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	3,657	91.8
Only the first cancer	235	5.9
Only the second cancer	73	1.8
Neither first nor second cancer	19	0.5
Total second primary cancers	3,984	100.0

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

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TABLE 1C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
No. starting interval	41,109			36,068			18,609			9,306			41,109		
Person-yr in interval	32,043			103,274			66,162			70,046			271,524		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	413	247.91	1.7*	1,412	842.22	1.7*	964	588.98	1.6*	1,195	747.99	1.6*	3,984	2,425.68	1.6*
All excluding site of initial cancer	172	181.10	0.9	658	616.35	1.1	497	433.32	1.1*	730	559.48	1.3*	2,057	1,789.22	1.1*
Buccal cavity, pharynx	5	4.35	1.1	23	14.97	1.5	9	10.62	0.8	19	13.39	1.4	56	43.30	1.3
Lip	1	0.26	3.8	1	0.87	1.1	1	0.61	1.6	2	0.78	2.6	5	2.53	2.0
Tongue	1	0.88	1.1	8	3.05	2.6*	2	2.18	0.9	3	2.75	1.1	14	8.85	1.6
Salivary gland	0	0.56	0.0	4	1.89	2.1	1	1.31	0.8	5	1.59	3.1*	10	5.34	1.9
Gum, other mouth	2	1.50	1.3	8	5.19	1.5	4	3.70	1.1	4	4.79	0.8	18	15.17	1.2
Pharynx	1	0.97	1.0	2	3.35	0.6	1	2.38	0.4	4	2.95	1.4	8	9.65	0.8
Digestive system	74	73.29	1.0	263	249.98	1.1	194	177.27	1.1	297	235.80	1.3*	828	735.92	1.1*
Esophagus	1	1.69	0.6	4	5.78	0.7	5	4.08	1.2	6	5.33	1.1	16	16.86	0.9
Stomach	12	9.98	1.2	39	32.99	1.2	29	22.52	1.3	22	27.43	0.8	102	92.86	1.1
Colon	27	33.89	0.8	114	116.68	1.0	104	83.76	1.2*	166	114.12	1.5*	411	348.26	1.2*
Rectum	23	14.03	1.6*	53	47.88	1.1	30	33.88	0.9	53	44.70	1.2	159	140.40	1.1
Liver, biliary	4	4.95	0.8	17	16.64	1.0	10	11.66	0.9	14	15.26	0.9	45	48.49	0.9
Pancreas	6	7.23	0.8	31	24.90	1.2	9	17.84	0.5*	31	24.64	1.3	77	74.56	1.0
Respiratory system	7	14.91	0.5*	54	52.23	1.0	42	37.62	1.1	90	50.44	1.8*	193	155.10	1.2*
Nasal cavities, sinuses	0	0.43	0.0	1	1.43	0.7	2	0.98	2.0	2	1.20	1.7	5	4.04	1.2
Larynx	1	0.90	1.1	3	3.13	1.0	2	2.25	0.9	3	2.81	1.1	9	9.08	1.0
Trachea, bronchus, lung	5	13.39	0.4*	50	47.03	1.1	37	33.95	1.1	85	45.86	1.9*	177	140.16	1.3*
Female breast	241	66.81	3.6*	754	225.87	3.3*	467	155.66	3.0*	465	188.51	2.5*	1,927	636.46	3.0*
Female genital tract	52	42.46	1.2	176	141.16	1.2*	146	95.96	1.5*	161	112.01	1.4*	535	391.34	1.4*
Cervix uteri	9	9.11	1.0	32	28.76	1.1	19	18.18	1.0	16	18.27	0.9	76	74.28	1.0
Corpus uteri	19	16.37	1.2	76	56.25	1.4*	65	39.88	1.6*	67	49.93	1.3*	227	162.34	1.4*
Uterus, NOS	1	3.23	0.3	7	10.02	0.7	4	6.21	0.6	10	5.76	1.7	22	25.20	0.9
Ovary, fallopian tubes	21	11.46	1.8*	52	38.42	1.4*	50	26.30	1.9*	60	31.02	1.9*	183	107.14	1.7*
Kidney, renal pelvis, ureter	5	3.74	1.3	16	12.88	1.2	9	9.11	1.0	6	12.05	0.5	36	37.75	1.0
Bladder, other urinary	5	6.58	0.8	29	22.85	1.3	15	16.46	0.9	24	22.64	1.1	73	68.50	1.1
Melanoma of the skin	5	3.02	1.7	18	10.29	1.8*	8	7.04	1.1	12	8.23	1.5	43	28.56	1.5*
Eye	0	0.42	0.0	6	1.41	4.2*	0	0.97	0.0	4	1.22	3.3	10	4.02	2.5*
Brain, central nervous system	2	2.51	0.8	7	8.56	0.8	3	5.95	0.5	9	7.33	1.2	21	24.34	0.9
Thyroid gland	6	1.91	3.1*	7	6.31	1.1	8	4.18	1.9	7	4.76	1.5	28	17.15	1.6*
Bone	1	0.39	2.6	1	1.25	0.8	0	0.81	0.0	2	0.90	2.2	4	3.35	1.2
Connective tissue	0	1.07	0.0	9	3.58	2.5*	7	2.44	2.9*	7	2.98	2.3	23	10.07	2.3*
Lymphatic, hematopoietic system	8	15.22	0.5	34	52.45	0.6*	39	37.51	1.0	56	51.24	1.1	137	156.33	0.9
Non-Hodgkin's lymphoma	5	5.77	0.9	15	19.99	0.8	17	14.34	1.2	17	19.34	0.9	54	59.40	0.9
Hodgkin's disease	0	1.17	0.0	3	3.81	0.8	2	2.57	0.8	3	3.10	1.0	8	10.64	0.8
Multiple myeloma	2	2.54	0.8	3	8.92	0.3*	3	6.54	0.5	6	9.55	0.6	14	27.53	0.5*
Leukemias	1	5.71	0.2*	13	19.63	0.7	17	14.02	1.2	30	19.20	1.6*	61	58.53	1.0
Chronic lymphocytic	0	1.55	0.0	1	5.43	0.2	2	3.95	0.5	6	5.79	1.0	9	16.72	0.5
Acute nonlymphocytic	1	1.89	0.5	7	6.56	1.1	10	4.73	2.1*	11	6.66	1.7	29	19.83	1.5

+ ICD-O code = 174.

\* P<.05.

BREAST  
 FEMALES  
 RADIOTHERAPY

TABLE 1D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females given radiotherapy in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	11,691		9,750			4,366			2,002			11,691		
Person-yr in interval	8,865		25,846			15,102			13,283			63,096			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	129	61.98	2.1*	407	193.78	2.1*	245	126.57	1.9*	259	132.41	2.0*	1,040	514.41	2.0*
All excluding site of initial cancer	48	44.56	1.1	154	139.55	1.1	131	91.91	1.4*	163	98.21	1.7*	496	374.00	1.3*
Buccal cavity, pharynx	2	1.12	1.8	4	3.58	1.1	2	2.39	0.8	4	2.45	1.6	12	9.53	1.3
Lip	0	0.06	0.0	0	0.18	0.0	0	0.12	0.0	1	0.13	7.6	1	0.50	2.0
Tongue	0	0.23	0.0	0	0.74	0.0	1	0.48	2.1	2	0.51	4.0	3	1.95	1.5
Salivary gland	0	0.14	0.0	1	0.44	2.3	0	0.28	0.0	0	0.28	0.0	1	1.14	0.9
Gum, other mouth	2	0.38	5.3	2	1.23	1.6	1	0.84	1.2	0	0.86	0.0	5	3.30	1.5
Pharynx	0	0.26	0.0	1	0.84	1.2	0	0.56	0.0	0	0.57	0.0	1	2.23	0.4
Digestive system	14	17.07	0.8	56	53.35	1.0	54	35.41	1.5*	54	39.81	1.4*	178	145.55	1.2*
Esophagus	1	0.41	2.5	0	1.30	0.0	3	0.88	3.4	2	0.93	2.2	6	3.51	1.7
Stomach	4	2.24	1.8	10	6.66	1.5	8	4.20	1.9	4	4.56	0.9	26	17.65	1.5
Colon	3	7.87	0.4	22	24.92	0.9	27	16.77	1.6*	28	19.17	1.5	80	68.68	1.2
Rectum	6	3.37	1.8	15	10.55	1.4	11	6.98	1.6	7	7.72	0.9	39	28.61	1.4
Liver, biliary	0	1.12	0.0	4	3.42	1.2	2	2.23	0.9	2	2.55	0.8	8	9.32	0.9
Pancreas	0	1.69	0.0	5	5.41	0.9	1	3.64	0.3	8	4.14	1.9	14	14.87	0.9
Respiratory system	2	3.86	0.5	9	12.94	0.7	10	9.14	1.1	26	9.44	2.8*	47	35.36	1.3
Nasal cavities, sinuses	0	0.11	0.0	0	0.33	0.0	0	0.21	0.0	1	0.22	4.6	1	0.87	1.1
Larynx	0	0.24	0.0	1	0.79	1.3	1	0.55	1.8	1	0.55	1.8	3	2.13	1.4
Trachea, bronchus, lung	2	3.46	0.6	8	11.66	0.7	9	8.28	1.1	24	8.57	2.8*	43	31.94	1.3
Female breast	81	17.42	4.7*	253	54.23	4.7*	114	34.66	3.3*	96	34.20	2.8*	544	140.41	3.9*
Female genital tract	18	11.29	1.6	49	34.10	1.4*	33	21.36	1.5*	37	20.92	1.8*	137	87.61	1.6*
Cervix uteri	0	2.49	0.0	6	6.98	0.9	3	3.98	0.8	5	3.49	1.4	14	16.93	0.8
Corpus uteri	6	4.43	1.4	25	14.09	1.8*	15	9.29	1.6	13	9.42	1.4	59	37.21	1.6*
Uterus, NOS	1	0.78	1.3	1	2.08	0.5	1	1.17	0.9	2	1.05	1.9	5	5.07	1.0
Ovary, fallopian tubes	11	3.05	3.6*	12	9.29	1.3	13	5.85	2.2*	14	5.77	2.4*	50	23.94	2.1*
Kidney, renal pelvis, ureter	3	0.93	3.2	7	2.95	2.4	3	1.97	1.5	2	2.14	0.9	15	7.98	1.9*
Bladder, other urinary	1	1.52	0.7	4	4.93	0.8	3	3.37	0.9	3	3.81	0.8	11	13.63	0.8
Melanoma of the skin	1	0.80	1.2	6	2.56	2.3	0	1.66	0.0	3	1.54	1.9	10	6.57	1.5
Eye	0	0.11	0.0	2	0.32	6.2	0	0.20	0.0	1	0.21	4.7	3	0.85	3.5
Brain, central nervous system	2	0.69	2.9	1	2.14	0.5	0	1.38	0.0	1	1.40	0.7	4	5.61	0.7
Thyroid gland	1	0.51	2.0	0	1.53	0.0	2	0.93	2.2	3	0.86	3.5	6	3.83	1.6
Bone	0	0.10	0.0	1	0.28	3.5	0	0.17	0.0	1	0.16	6.1	2	0.71	2.8
Connective tissue	0	0.27	0.0	2	0.82	2.4	3	0.51	5.8*	4	0.53	7.6*	9	2.12	4.2*
Lymphatic, hematopoietic system	3	3.70	0.8	9	11.83	0.8	13	7.95	1.6	18	8.80	2.0*	43	32.26	1.3
Non-Hodgkin's lymphoma	2	1.42	1.4	4	4.59	0.9	7	3.15	2.2	8	3.42	2.3*	21	12.58	1.7*
Hodgkin's disease	0	0.32	0.0	0	0.92	0.0	0	0.55	0.0	1	0.56	1.8	1	2.35	0.4
Multiple myeloma	0	0.62	0.0	0	2.05	0.0	0	1.41	0.0	2	1.62	1.2	2	5.70	0.4
Leukemias	1	1.34	0.7	5	4.25	1.2	6	2.82	2.1	7	3.18	2.2	19	11.59	1.6
Chronic lymphocytic	0	0.36	0.0	0	1.17	0.0	2	0.80	2.5	2	0.95	2.1	4	3.27	1.2
Acute nonlymphocytic	1	0.45	2.2	3	1.47	2.0	3	0.99	3.0	3	1.11	2.7	10	4.02	2.5*

+ ICD-O code = 174.

\* P<.05.

BREAST  
FEMALES  
NO RADIOTHERAPY

TABLE 1E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females not given radiotherapy in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	29,418		26,318			14,243			7,304			29,418		
Person-yr in interval	23,177		77,428			51,060			56,763			208,428			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	284	185.93	1.5*	1,005	648.43	1.5*	719	462.41	1.6*	936	615.59	1.5*	2,944	1,911.27	1.5*
All excluding site of initial cancer	124	136.53	0.9	504	476.79	1.1	366	341.41	1.1	567	461.28	1.2*	1,561	1,415.22	1.1*
Buccal cavity, pharynx	3	3.23	0.9	19	11.39	1.7*	7	8.23	0.9	15	10.94	1.4	44	33.77	1.3
Lip	1	0.20	5.0	1	0.69	1.5	1	0.49	2.0	1	0.65	1.5	4	2.03	2.0
Tongue	1	0.65	1.5	8	2.31	3.5*	1	1.69	0.6	1	2.25	0.4	11	6.90	1.6
Salivary gland	0	0.42	0.0	3	1.45	2.1	1	1.03	1.0	5	1.31	3.8*	9	4.21	2.1
Gum, other mouth	0	1.12	0.0	6	3.96	1.5	3	2.87	1.0	4	3.93	1.0	13	11.87	1.1
Pharynx	1	0.71	1.4	1	2.51	0.4	1	1.82	0.5	4	2.38	1.7	7	7.42	0.9
Digestive system	60	56.22	1.1	207	196.63	1.1	140	141.86	1.0	243	195.99	1.2*	650	590.37	1.1*
Esophagus	0	1.28	0.0	4	4.48	0.9	2	3.20	0.6	4	4.40	0.9	10	13.35	0.7
Stomach	8	7.74	1.0	29	26.33	1.1	21	18.32	1.1	18	22.87	0.8	76	75.21	1.0
Colon	24	26.02	0.9	92	91.76	1.0	77	66.99	1.1	138	94.96	1.5*	331	279.58	1.2*
Rectum	17	10.66	1.6	38	37.33	1.0	19	26.90	0.7	46	36.97	1.2	120	111.80	1.1
Liver, biliary	4	3.83	1.0	13	13.22	1.0	8	9.44	0.8	12	12.71	0.9	37	39.17	0.9
Pancreas	6	5.53	1.1	26	19.50	1.3	8	14.20	0.6	23	20.50	1.1	63	59.69	1.1
Respiratory system	5	11.04	0.5	45	39.28	1.1	32	28.48	1.1	64	41.00	1.6*	146	119.74	1.2*
Nasal cavities, sinuses	0	0.32	0.0	1	1.09	0.9	2	0.77	2.6	1	0.99	1.0	4	3.16	1.3
Larynx	1	0.66	1.5	2	2.34	0.9	1	1.70	0.6	2	2.27	0.9	6	6.95	0.9
Trachea, bronchus, lung	3	9.93	0.3*	42	35.38	1.2	28	25.67	1.1	61	37.29	1.6*	134	108.21	1.2*
Female breast	160	49.40	3.2*	501	171.64	2.9*	353	121.00	2.9*	369	154.31	2.4*	1,383	496.05	2.8*
Female genital tract	34	31.17	1.1	127	107.06	1.2	113	74.59	1.5*	124	91.09	1.4*	398	303.73	1.3*
Cervix uteri	9	6.62	1.4	26	21.78	1.2	16	14.20	1.1	11	14.78	0.7	62	57.35	1.1
Corpus uteri	13	11.94	1.1	51	42.17	1.2	50	30.59	1.6*	54	40.51	1.3*	168	125.13	1.3*
Uterus, NOS	0	2.46	0.0	6	7.93	0.8	3	5.04	0.6	8	4.71	1.7	17	20.12	0.8
Ovary, fallopian tubes	10	8.41	1.2	40	29.13	1.4	37	20.46	1.8*	46	25.25	1.8*	133	83.19	1.6*
Kidney, renal pelvis, ureter	2	2.81	0.7	9	9.92	0.9	6	7.14	0.8	4	9.90	0.4	21	29.77	0.7
Bladder, other urinary	4	5.06	0.8	25	17.91	1.4	12	13.09	0.9	21	18.84	1.1	62	54.87	1.1
Melanoma of the skin	4	2.22	1.8	12	7.72	1.6	8	5.37	1.5	9	6.69	1.3	33	21.99	1.5*
Eye	0	0.32	0.0	4	1.09	3.7	0	0.77	0.0	3	1.00	3.0	7	3.17	2.2
Brain, central nervous system	0	1.83	0.0	6	6.42	0.9	3	4.57	0.7	8	5.93	1.3	17	18.73	0.9
Thyroid gland	5	1.40	3.6*	7	4.78	1.5	6	3.26	1.8	4	3.89	1.0	22	13.32	1.7*
Bone	1	0.29	3.4	0	0.97	0.0	0	0.64	0.0	1	0.74	1.4	2	2.64	0.8
Connective tissue	0	0.80	0.0	7	2.76	2.5*	4	1.93	2.1	3	2.46	1.2	14	7.94	1.8
Lymphatic, hematopoietic system	5	11.52	0.4	25	40.62	0.6*	26	29.56	0.9	38	42.43	0.9	94	124.06	0.8*
Non-Hodgkin's lymphoma	3	4.35	0.7	11	15.40	0.7	10	11.18	0.9	9	15.92	0.6	33	46.82	0.7*
Hodgkin's disease	0	0.85	0.0	3	2.89	1.0	2	2.02	1.0	2	2.53	0.8	7	8.29	0.8
Multiple myeloma	2	1.92	1.0	3	6.86	0.4	3	5.13	0.6	4	7.93	0.5	12	21.83	0.5*
Leukemias	0	4.37	0.0*	8	15.38	0.5	11	11.20	1.0	23	16.02	1.4	42	46.94	0.9
Chronic lymphocytic	0	1.19	0.0	1	4.25	0.2	0	3.16	0.0	4	4.85	0.8	5	13.44	0.4*
Acute nonlymphocytic	0	1.44	0.0	4	5.10	0.8	7	3.74	1.9	8	5.55	1.4	19	15.81	1.2

+ ICD-O code = 174.

\* P<.05.

BREAST  
 FEMALES  
 AGES <45 YR

TABLE 1F. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females, aged <45 yr in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	6,958		6,287			3,679			2,329			6,958		
Person-yr in interval	5,522		18,964			14,563			23,640			62,688			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	69	10.10	6.8*	245	47.03	5.2*	158	52.54	3.0*	327	167.78	1.9*	799	277.36	2.9*
All excluding site of initial cancer	8	5.91	1.4	51	27.21	1.9*	45	31.60	1.4*	177	117.28	1.5*	281	181.94	1.5*
Buccal cavity, pharynx	1	0.13	7.9	2	0.72	2.8	1	0.98	1.0	6	3.56	1.7	10	5.39	1.9
Lip	0	0.01	0.0	0	0.02	0.0	0	0.03	0.0	1	0.13	7.7	1	0.19	5.4
Tongue	0	0.02	0.0	0	0.15	0.0	0	0.19	0.0	2	0.74	2.7	2	1.09	1.8
Salivary gland	0	0.03	0.0	1	0.15	6.8	0	0.15	0.0	2	0.36	5.6	3	0.68	4.4
Gum, other mouth	1	0.03	31.6	1	0.22	4.6	1	0.33	3.1	1	1.21	0.8	4	1.79	2.2
Pharynx	0	0.03	0.0	0	0.16	0.0	0	0.24	0.0	0	0.95	0.0	0	1.37	0.0
Digestive system	0	1.03	0.0	16	5.37	3.0*	6	7.31	0.8	64	38.41	1.7*	86	52.11	1.7*
Esophagus	0	0.01	0.0	0	0.14	0.0	0	0.23	0.0	2	1.13	1.8	2	1.51	1.3
Stomach	0	0.14	0.0	0	0.65	0.0	2	0.80	2.5	4	3.66	1.1	6	5.24	1.1
Colon	0	0.49	0.0	7	2.54	2.8*	2	3.38	0.6	30	18.26	1.6*	39	24.66	1.6*
Rectum	0	0.25	0.0	4	1.24	3.2	1	1.74	0.6	17	8.41	2.0*	22	11.64	1.9*
Liver, biliary	0	0.05	0.0	2	0.23	8.7	0	0.33	0.0	2	2.11	0.9	4	2.72	1.5
Pancreas	0	0.05	0.0	3	0.36	8.3*	0	0.60	0.0	6	4.04	1.5	9	5.06	1.8
Respiratory system	0	0.41	0.0	3	2.23	1.3	4	3.02	1.3	24	13.65	1.8*	31	19.31	1.6*
Nasal cavities, sinuses	0	0.02	0.0	0	0.08	0.0	0	0.10	0.0	0	0.30	0.0	0	0.49	0.0
Larynx	0	0.04	0.0	0	0.18	0.0	0	0.25	0.0	1	0.93	1.1	1	1.39	0.7
Trachea, bronchus, lung	0	0.35	0.0	3	1.93	1.6	3	2.64	1.1	23	12.26	1.9*	29	17.19	1.7*
Female breast	61	4.19	14.6*	194	19.82	9.8*	113	20.94	5.4*	150	50.50	3.0*	518	95.42	5.4*
Female genital tract	3	2.47	1.2	20	11.01	1.8*	21	11.99	1.8*	47	32.34	1.5*	91	57.79	1.6*
Cervix uteri	1	1.16	0.9	6	4.31	1.4	6	3.61	1.7	6	6.06	1.0	19	15.13	1.3
Corpus uteri	0	0.44	0.0	0	2.62	0.0	6	3.94	1.5	19	15.13	1.3	25	22.13	1.1
Uterus, NOS	0	0.12	0.0	1	0.58	1.7	1	0.63	1.6	1	1.15	0.9	3	2.47	1.2
Ovary, fallopian tubes	2	0.68	2.9	12	3.18	3.8*	8	3.49	2.3	20	8.83	2.3*	42	16.18	2.6*
Kidney, renal pelvis, ureter	0	0.10	0.0	0	0.50	0.0	1	0.61	1.6	1	2.55	0.4	2	3.76	0.5
Bladder, other urinary	0	0.09	0.0	0	0.51	0.0	0	0.70	0.0	3	3.77	0.8	3	5.07	0.6
Melanoma of the skin	1	0.35	2.9	2	1.35	1.5	0	1.27	0.0	7	2.54	2.8*	10	5.50	1.8
Eye	0	0.01	0.0	0	0.07	0.0	0	0.09	0.0	2	0.27	7.3	2	0.45	4.4
Brain, central nervous system	0	0.17	0.0	1	0.71	1.4	0	0.76	0.0	3	2.29	1.3	4	3.92	1.0
Thyroid gland	2	0.27	7.4	2	1.00	2.0	5	0.79	6.4*	2	1.35	1.5	11	3.40	3.2*
Bone	0	0.02	0.0	0	0.09	0.0	0	0.08	0.0	1	0.19	5.2	1	0.38	2.6
Connective tissue	0	0.08	0.0	1	0.31	3.3	1	0.28	3.6	0	0.70	0.0	2	1.37	1.5
Lymphatic, hematopoietic system	0	0.56	0.0	3	2.29	1.3	5	2.39	2.1	9	9.72	0.9	17	14.96	1.1
Non-Hodgkin's lymphoma	0	0.21	0.0	1	0.91	1.1	2	1.00	2.0	4	4.13	1.0	7	6.24	1.1
Hodgkin's disease	0	0.14	0.0	0	0.46	0.0	0	0.35	0.0	0	0.81	0.0	0	1.75	0.0
Multiple myeloma	0	0.03	0.0	0	0.16	0.0	0	0.25	0.0	3	1.73	1.7	3	2.17	1.4
Leukemias	0	0.18	0.0	2	0.77	2.6	3	0.80	3.8	2	3.05	0.7	7	4.80	1.5
Chronic lymphocytic	0	0.01	0.0	0	0.09	0.0	0	0.12	0.0	0	0.83	0.0	0	1.07	0.0
Acute nonlymphocytic	0	0.09	0.0	1	0.34	2.9	2	0.31	6.4	1	1.17	0.9	4	1.91	2.1

+ ICD-O code = 174.

\* P<.05.

BREAST  
 FEMALES  
 AGES 45-54 YR

TABLE 1G. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females, aged 45-54 yr in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	9,961		9,019			5,222			2,922			9,961		
Person-yr in interval	7,923		27,183			19,624			23,828			78,557			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	97	35.18	2.8*	334	139.27	2.4*	250	127.71	2.0*	399	242.57	1.6*	1,080	544.48	2.0*
All excluding site of initial cancer	29	22.04	1.3	123	90.95	1.4*	117	88.40	1.3*	251	180.07	1.4*	520	381.30	1.4*
Buccal cavity, pharynx	0	0.69	0.0	2	2.91	0.7	3	2.84	1.1	5	4.69	1.1	10	11.13	0.9
Lip	0	0.02	0.0	0	0.10	0.0	0	0.11	0.0	0	0.21	0.0	0	0.45	0.0
Tongue	0	0.12	0.0	0	0.56	0.0	1	0.58	1.7	1	1.00	1.0	2	2.26	0.9
Salivary gland	0	0.09	0.0	0	0.34	0.0	0	0.27	0.0	2	0.50	4.0	2	1.20	1.7
Gum, other mouth	0	0.24	0.0	2	0.96	2.1	1	0.92	1.1	1	1.63	0.6	4	3.74	1.1
Pharynx	0	0.18	0.0	0	0.78	0.0	1	0.79	1.3	1	1.17	0.9	2	2.92	0.7
Digestive system	8	5.65	1.4	29	24.90	1.2	38	26.83	1.4*	82	69.91	1.2	157	127.25	1.2*
Esophagus	0	0.18	0.0	2	0.82	2.4	0	0.87	0.0	2	1.69	1.2	4	3.56	1.1
Stomach	0	0.66	0.0	4	2.75	1.5	5	2.80	1.8	5	7.26	0.7	14	13.47	1.0
Colon	3	2.53	1.2	10	11.18	0.9	22	12.14	1.8*	40	33.61	1.2	75	59.43	1.3
Rectum	5	1.37	3.7*	2	5.95	0.3	6	6.25	1.0	18	14.20	1.3	31	27.76	1.1
Liver, biliary	0	0.29	0.0	4	1.29	3.1	3	1.46	2.1	6	4.36	1.4	13	7.39	1.8
Pancreas	0	0.48	0.0	5	2.27	2.2	0	2.67	0.0	10	7.51	1.3	15	12.92	1.2
Respiratory system	2	2.12	0.9	9	9.51	0.9	14	9.96	1.4	43	18.93	2.3*	68	40.49	1.7*
Nasal cavities, sinuses	0	0.07	0.0	1	0.27	3.7	1	0.23	4.3	1	0.40	2.5	3	0.98	3.1
Larynx	0	0.17	0.0	0	0.79	0.0	1	0.78	1.3	2	1.08	1.9	3	2.82	1.1
Trachea, bronchus, lung	2	1.85	1.1	8	8.32	1.0	12	8.82	1.4	40	17.24	2.3*	62	36.22	1.7*
Female breast	68	13.14	5.2*	211	48.32	4.4*	133	39.31	3.4*	148	62.50	2.4*	560	163.18	3.4*
Female genital tract	16	8.22	1.9*	50	31.79	1.6*	33	27.86	1.2	60	40.37	1.5*	159	108.20	1.5*
Cervix uteri	1	2.24	0.4	9	7.65	1.2	7	5.69	1.2	5	6.44	0.8	22	22.00	1.0
Corpus uteri	5	2.93	1.7	20	12.87	1.6	9	12.76	0.7	27	19.19	1.4	61	47.73	1.3
Uterus, NOS	0	0.51	0.0	1	1.77	0.6	0	1.35	0.0	2	1.64	1.2	3	5.26	0.6
Ovary, fallopian tubes	10	2.32	4.3*	19	8.67	2.2*	17	7.30	2.3*	24	11.04	2.2*	70	29.31	2.4*
Kidney, renal pelvis, ureter	0	0.42	0.0	3	1.81	1.7	2	1.82	1.1	1	4.08	0.2	6	8.12	0.7
Bladder, other urinary	1	0.51	2.0	4	2.27	1.8	2	2.47	0.8	7	6.59	1.1	14	11.83	1.2
Melanoma of the skin	1	0.73	1.4	9	2.65	3.4*	5	1.95	2.6	3	2.72	1.1	18	8.04	2.2*
Eye	0	0.07	0.0	2	0.24	8.5	0	0.20	0.0	1	0.42	2.4	3	0.93	3.2
Brain, central nervous system	0	0.49	0.0	3	1.99	1.5	2	1.84	1.1	4	2.90	1.4	9	7.23	1.2
Thyroid gland	1	0.39	2.5	3	1.38	2.2	2	1.04	1.9	5	1.49	3.3*	11	4.31	2.6*
Bone	0	0.06	0.0	1	0.19	5.4	0	0.14	0.0	1	0.31	3.2	2	0.70	2.9
Connective tissue	0	0.17	0.0	1	0.67	1.5	5	0.58	8.7*	5	0.91	5.5*	11	2.33	4.7*
Lymphatic, hematopoietic system	0	1.55	0.0	6	6.50	0.9	8	6.67	1.2	23	16.24	1.4	37	30.95	1.2
Non-Hodgkin's lymphoma	0	0.64	0.0	3	2.79	1.1	4	2.94	1.4	7	6.46	1.1	14	12.82	1.1
Hodgkin's disease	0	0.19	0.0	1	0.71	1.4	2	0.61	3.3	2	1.10	1.8	5	2.61	1.9
Multiple myeloma	0	0.19	0.0	0	0.91	0.0	0	1.08	0.0	2	3.11	0.6	2	5.28	0.4
Leukemias	0	0.53	0.0	2	2.10	1.0	2	2.03	1.0	12	5.53	2.2*	16	10.18	1.6
Chronic lymphocytic	0	0.09	0.0	0	0.39	0.0	0	0.46	0.0	3	1.71	1.8	3	2.65	1.1
Acute nonlymphocytic	0	0.18	0.0	0	0.77	0.0	1	0.78	1.3	3	1.98	1.5	4	3.70	1.1

+ ICD-O code = 174.

\* P<.05.

BREAST  
 FEMALES  
 AGES 55+ YR

TABLE 1H. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females, aged 55+ yr in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis														
	<1 yr			1-4 yr			5-9 yr			10+ yr			Total		
	No. starting interval	24,190		20,762			9,708			4,055			24,190		
Person-yr in interval	18,599		57,127			31,975			22,578			130,278			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	247	202.63	1.2*	833	655.91	1.3*	556	408.73	1.4*	469	337.65	1.4*	2,105	1,603.83	1.3*
All excluding site of initial cancer	135	153.15	0.9	484	498.18	1.0	335	313.32	1.1	302	262.15	1.2*	1,256	1,225.97	1.0
Buccal cavity, pharynx	4	3.54	1.1	19	11.33	1.7*	5	6.80	0.7	8	5.13	1.6	36	26.78	1.3
Lip	1	0.23	4.3	1	0.74	1.3	1	0.47	2.1	1	0.44	2.3	4	1.89	2.1
Tongue	1	0.74	1.4	8	2.34	3.4*	1	1.41	0.7	0	1.02	0.0	10	5.50	1.8
Salivary gland	0	0.43	0.0	3	1.40	2.1	1	0.89	1.1	1	0.74	1.4	5	3.46	1.4
Gum, other mouth	1	1.23	0.8	5	4.00	1.2	2	2.46	0.8	2	1.95	1.0	10	9.64	1.0
Pharynx	1	0.77	1.3	2	2.42	0.8	0	1.35	0.0	3	0.84	3.6	6	5.36	1.1
Digestive system	66	66.60	1.0	218	219.71	1.0	150	143.12	1.0	151	127.49	1.2*	585	556.56	1.1
Esophagus	1	1.49	0.7	2	4.82	0.4	5	2.98	1.7	2	2.51	0.8	10	11.79	0.8
Stomach	12	9.18	1.3	35	29.59	1.2	22	18.92	1.2	13	16.51	0.8	82	74.15	1.1
Colon	24	30.88	0.8	97	102.96	0.9	80	68.23	1.2	96	62.26	1.5*	297	264.16	1.1*
Rectum	18	12.41	1.4	47	40.68	1.2	23	25.89	0.9	18	22.09	0.8	106	101.01	1.0
Liver, biliary	4	4.62	0.9	11	15.13	0.7	7	9.88	0.7	6	8.79	0.7	28	38.38	0.7
Pancreas	6	6.70	0.9	23	22.27	1.0	9	14.56	0.6	15	13.09	1.1	53	56.58	0.9
Respiratory system	5	12.37	0.4*	42	40.49	1.0	24	24.64	1.0	23	17.86	1.3	94	95.29	1.0
Nasal cavities, sinuses	0	0.34	0.0	0	1.08	0.0	1	0.65	1.5	1	0.51	2.0	2	2.57	0.8
Larynx	1	0.69	1.5	3	2.16	1.4	1	1.22	0.8	0	0.80	0.0	5	4.86	1.0
Trachea, bronchus, lung	3	11.19	0.3*	39	36.78	1.1	22	22.49	1.0	22	16.35	1.3	86	86.75	1.0
Female breast	112	49.48	2.3*	349	157.73	2.2*	221	95.41	2.3*	167	75.50	2.2*	849	377.86	2.2*
Female genital tract	33	31.76	1.0	106	98.36	1.1	92	56.10	1.6*	54	39.30	1.4*	285	225.36	1.3*
Cervix uteri	7	5.72	1.2	17	16.79	1.0	6	8.89	0.7	5	5.78	0.9	35	37.14	0.9
Corpus uteri	14	13.00	1.1	56	40.76	1.4*	50	23.17	2.2*	21	15.60	1.3	141	92.48	1.5*
Uterus, NOS	1	2.60	0.4	5	7.66	0.7	3	4.23	0.7	7	2.97	2.4	16	17.46	0.9
Ovary, fallopian tubes	9	8.46	1.1	21	26.57	0.8	25	15.52	1.6*	16	11.15	1.4	71	61.65	1.2
Kidney, renal pelvis, ureter	5	3.23	1.5	13	10.57	1.2	6	6.69	0.9	4	5.41	0.7	28	25.88	1.1
Bladder, other urinary	4	5.98	0.7	25	20.07	1.2	13	13.29	1.0	14	12.29	1.1	56	51.59	1.1
Melanoma of the skin	3	1.95	1.5	7	6.29	1.1	3	3.81	0.8	2	2.97	0.7	15	15.01	1.0
Eye	0	0.34	0.0	4	1.10	3.6	0	0.68	0.0	1	0.53	1.9	5	2.65	1.9
Brain, central nervous system	2	1.85	1.1	3	5.85	0.5	1	3.35	0.3	2	2.14	0.9	8	13.19	0.6
Thyroid gland	3	1.24	2.4	2	3.93	0.5	1	2.36	0.4	0	1.92	0.0	6	9.44	0.6
Bone	1	0.31	3.2	0	0.98	0.0	0	0.59	0.0	0	0.40	0.0	1	2.27	0.4
Connective tissue	0	0.82	0.0	7	2.60	2.7*	1	1.59	0.6	2	1.37	1.5	10	6.37	1.6
Lymphatic, hematopoietic system	8	13.11	0.6	25	43.65	0.6*	26	28.45	0.9	24	25.27	0.9	83	110.41	0.8*
Non-Hodgkin's lymphoma	5	4.92	1.0	11	16.29	0.7	11	10.40	1.1	6	8.75	0.7	33	40.33	0.8
Hodgkin's disease	0	0.84	0.0	2	2.65	0.8	0	1.60	0.0	1	1.19	0.8	3	6.28	0.5
Multiple myeloma	2	2.32	0.9	3	7.84	0.4	3	5.21	0.6	1	4.71	0.2	9	20.08	0.4*
Leukemias	1	5.00	0.2	9	16.76	0.5	12	11.20	1.1	16	10.62	1.5	38	43.56	0.9
Chronic lymphocytic	0	1.45	0.0	1	4.95	0.2	2	3.37	0.6	3	3.25	0.9	6	13.00	0.5
Acute nonlymphocytic	1	1.62	0.6	6	5.46	1.1	7	3.64	1.9	7	3.51	2.0	21	14.21	1.5

+ ICD-O code = 174.

\* P<.05.

BREAST  
FEMALES  
LONG-TERM SURVIVORS

TABLE 11. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females, long-term survivors in Connecticut, 1935-82+

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	36,068		9,306			2,661			610			41,109		
Person-yr in interval	169,435		52,886			14,203			2,956			271,524			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	2,376	1,430.76	1.7*	855	529.89	1.6*	280	173.18	1.6*	60	45.02	1.3*	3,984	2,425.68	1.6*
All excluding site of initial cancer	1,155	1,049.35	1.1*	505	394.00	1.3*	180	130.88	1.4*	45	34.68	1.3	2,057	1,789.22	1.1*
Buccal cavity, pharynx	32	25.58	1.3	17	9.63	1.8*	2	3.05	0.7	0	0.71	0.0	56	43.30	1.3
Lip	2	1.48	1.3	2	0.55	3.6	0	0.18	0.0	0	0.05	0.0	5	2.53	2.0
Tongue	10	5.22	1.9	3	1.98	1.5	0	0.63	0.0	0	0.14	0.0	14	8.85	1.6
Salivary gland	5	3.19	1.6	5	1.13	4.4*	0	0.37	0.0	0	0.09	0.0	10	5.34	1.9
Gum, other mouth	12	8.89	1.4	3	3.40	0.9	1	1.12	0.9	0	0.27	0.0	18	15.17	1.2
Pharynx	3	5.73	0.5	3	2.18	1.4	1	0.64	1.6	0	0.13	0.0	8	9.65	0.8
Digestive system	457	427.12	1.1	196	163.52	1.2*	81	56.33	1.4*	20	15.99	1.3	828	735.92	1.1*
Esophagus	9	9.86	0.9	4	3.74	1.1	1	1.25	0.8	1	0.34	3.0	16	16.86	0.9
Stomach	68	55.49	1.2	18	19.62	0.9	3	6.17	0.5	1	1.64	0.6	102	92.86	1.1
Colon	218	200.37	1.1	114	78.27	1.5*	46	27.73	1.7*	6	8.15	0.7	411	348.26	1.2*
Rectum	83	81.74	1.0	29	31.26	0.9	18	10.57	1.7*	6	2.87	2.1	159	140.40	1.1
Liver, biliary	27	28.30	1.0	8	10.67	0.7	5	3.60	1.4	1	0.99	1.0	45	48.49	0.9
Pancreas	40	42.73	0.9	21	16.86	1.2	5	6.03	0.8	5	1.75	2.9	77	74.56	1.0
Respiratory system	96	89.82	1.1	58	35.15	1.6*	26	12.25	2.1*	6	3.04	2.0	193	155.10	1.2*
Nasal cavities, sinuses	3	2.41	1.2	2	0.87	2.3	0	0.27	0.0	0	0.06	0.0	5	4.04	1.2
Larynx	5	5.37	0.9	3	2.04	1.5	0	0.63	0.0	0	0.14	0.0	9	9.08	1.0
Trachea, bronchus, lung	87	80.96	1.1	53	31.84	1.7*	26	11.21	2.3*	6	2.81	2.1	177	140.16	1.3*
Female breast	1,221	381.41	3.2*	350	135.89	2.6*	100	42.30	2.4*	15	10.34	1.5	1,927	636.46	3.0*
Female genital tract	322	237.05	1.4*	119	82.90	1.4*	37	23.99	1.5*	5	5.14	1.0	535	391.34	1.4*
Cervix uteri	51	46.92	1.1	12	14.18	0.8	4	3.46	1.2	0	0.64	0.0	76	74.28	1.0
Corpus uteri	141	96.10	1.5*	46	36.44	1.3	17	11.15	1.5	4	2.34	1.7	227	162.34	1.4*
Uterus, NOS	11	16.22	0.7	7	4.59	1.5	3	0.98	3.1	0	0.18	0.0	22	25.20	0.9
Ovary, fallopian tubes	102	64.70	1.6*	46	22.80	2.0*	13	6.71	1.9*	1	1.51	0.7	183	107.14	1.7*
Kidney, renal pelvis, ureter	25	21.98	1.1	3	8.43	0.4	2	2.89	0.7	1	0.73	1.4	36	37.75	1.0
Bladder, other urinary	44	39.30	1.1	21	15.47	1.4	1	5.53	0.2	2	1.65	1.2	73	68.50	1.1
Melanoma of the skin	26	17.32	1.5	7	5.95	1.2	3	1.85	1.6	2	0.43	4.6	43	28.56	1.5*
Eye	6	2.38	2.5	2	0.88	2.3	2	0.28	7.1	0	0.06	0.0	10	4.02	2.5*
Brain, central nervous system	10	14.50	0.7	8	5.34	1.5	0	1.65	0.0	1	0.35	2.9	21	24.34	0.9
Thyroid gland	15	10.49	1.4	5	3.52	1.4	2	1.02	2.0	0	0.22	0.0	28	17.15	1.6*
Bone	1	2.06	0.5	2	0.66	3.0	0	0.20	0.0	0	0.05	0.0	4	3.35	1.2
Connective tissue	16	6.02	2.7*	5	2.15	2.3	2	0.66	3.0	0	0.17	0.0	23	10.07	2.3*
Lymphatic, hematopoietic system	73	89.93	0.8	38	35.17	1.1	14	12.49	1.1	4	3.58	1.1	137	156.33	0.9
Non-Hodgkin's lymphoma	32	34.31	0.9	11	13.37	0.8	6	4.66	1.3	0	1.31	0.0	54	59.40	0.9
Hodgkin's disease	5	6.38	0.8	2	2.25	0.9	1	0.70	1.4	0	0.14	0.0	8	10.64	0.8
Multiple myeloma	6	15.45	0.4*	2	6.38	0.3	2	2.44	0.8	2	0.73	2.8	14	27.53	0.5*
Leukemias	30	33.64	0.9	23	13.12	1.8*	5	4.68	1.1	2	1.40	1.4	61	58.53	1.0
Chronic lymphocytic	3	9.38	0.3*	4	3.87	1.0	1	1.48	0.7	1	0.45	2.2	9	16.72	0.5
Acute nonlymphocytic	17	11.29	1.5	7	4.48	1.6	4	1.66	2.4	0	0.52	0.0	29	19.83	1.5

+ ICD-O code = 174.

\* P<.05.



BREAST  
 FEMALES  
 LONG-TERM SURVIVORS  
 RADIOTHERAPY

TABLE 1J. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females given radiotherapy, long-term survivors in Connecticut, 1935-82+

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			No. starting interval			No. starting interval			No. starting interval			No. starting interval		
Person-yr in interval	9,750			2,002			455			96			11,691		
	40,947			10,224			2,520			540			63,096		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	652	320.26	2.0*	195	95.63	2.0*	56	28.83	1.9*	8	7.97	1.0	1,040	514.41	2.0*
All excluding site of initial cancer	285	231.40	1.2*	118	70.44	1.7*	40	21.67	1.8*	5	6.12	0.8	496	374.00	1.3*
Buccal cavity, pharynx	6	5.97	1.0	4	1.80	2.2	0	0.52	0.0	0	0.13	0.0	12	9.53	1.3
Lip	0	0.30	0.0	1	0.09	10.6	0	0.03	0.0	0	0.01	0.0	1	0.50	2.0
Tongue	1	1.22	0.8	2	0.37	5.4	0	0.11	0.0	0	0.03	0.0	3	1.95	1.5
Salivary gland	1	0.71	1.4	0	0.20	0.0	0	0.06	0.0	0	0.02	0.0	1	1.14	0.9
Gum, other mouth	3	2.06	1.5	0	0.62	0.0	0	0.19	0.0	0	0.05	0.0	5	3.30	1.5
Pharynx	1	1.40	0.7	0	0.43	0.0	0	0.11	0.0	0	0.02	0.0	1	2.23	0.4
Digestive system	110	88.73	1.2*	33	27.95	1.2	19	9.10	2.1*	2	2.77	0.7	178	145.55	1.2*
Esophagus	3	2.18	1.4	2	0.66	3.0	0	0.21	0.0	0	0.06	0.0	6	3.51	1.7
Stomach	18	10.86	1.7	2	3.28	0.6	2	1.00	2.0	0	0.28	0.0	26	17.65	1.5
Colon	49	41.67	1.2	22	13.31	1.7*	6	4.44	1.3	0	1.41	0.0	80	68.68	1.2
Rectum	26	17.53	1.5	3	5.49	0.5	3	1.73	1.7	1	0.50	2.0	39	28.61	1.4
Liver, biliary	6	5.64	1.1	1	1.80	0.6	1	0.58	1.7	0	0.17	0.0	8	9.32	0.9
Pancreas	6	9.04	0.7	3	2.87	1.0	4	0.97	4.1*	1	0.31	3.3	14	14.87	0.9
Respiratory system	19	22.08	0.9	16	6.81	2.4*	9	2.07	4.4*	1	0.57	1.8	47	35.36	1.3
Nasal cavities, sinuses	0	0.54	0.0	1	0.16	6.2	0	0.05	0.0	0	0.01	0.0	1	0.87	1.1
Larynx	2	1.34	1.5	1	0.41	2.4	0	0.11	0.0	0	0.03	0.0	3	2.13	1.4
Trachea, bronchus, lung	17	19.93	0.9	14	6.16	2.3*	9	1.88	4.8*	1	0.52	1.9	43	31.94	1.3
Female breast	367	88.86	4.1*	77	25.19	3.1*	16	7.16	2.2*	3	1.85	1.6	544	140.41	3.9*
Female genital tract	82	55.45	1.5*	31	15.75	2.0*	5	4.22	1.2	1	0.95	1.1	137	87.61	1.6*
Cervix uteri	9	10.96	0.8	4	2.75	1.5	1	0.63	1.6	0	0.12	0.0	14	16.93	0.8
Corpus uteri	40	23.37	1.7*	10	7.02	1.4	2	1.97	1.0	1	0.44	2.3	59	37.21	1.6*
Uterus, NOS	2	3.25	0.6	2	0.85	2.4	0	0.17	0.0	0	0.03	0.0	5	5.07	1.0
Ovary, fallopian tubes	25	15.13	1.7*	12	4.31	2.8*	2	1.18	1.7	0	0.28	0.0	50	23.94	2.1*
Kidney, renal pelvis, ureter	10	4.92	2.0	1	1.52	0.7	0	0.49	0.0	1	0.13	7.4	15	7.98	1.9*
Bladder, other urinary	7	8.31	0.8	3	2.65	1.1	0	0.88	0.0	0	0.28	0.0	11	13.63	0.8
Melanoma of the skin	6	4.22	1.4	3	1.15	2.6	0	0.32	0.0	0	0.08	0.0	10	6.57	1.5
Eye	2	0.53	3.8	1	0.15	6.5	0	0.05	0.0	0	0.01	0.0	3	0.85	3.5
Brain, central nervous system	1	3.52	0.3	1	1.04	1.0	0	0.29	0.0	0	0.07	0.0	4	5.61	0.7
Thyroid gland	2	2.46	0.8	2	0.65	3.1	1	0.17	5.8	0	0.04	0.0	6	3.83	1.6
Bone	1	0.45	2.2	1	0.12	8.2	0	0.03	0.0	0	0.01	0.0	2	0.71	2.8
Connective tissue	5	1.33	3.8*	4	0.39	10.4*	0	0.11	0.0	0	0.03	0.0	9	2.12	4.2*
Lymphatic, hematopoietic system	22	19.78	1.1	15	6.16	2.4*	3	2.02	1.5	0	0.63	0.0	43	32.26	1.3
Non-Hodgkin's lymphoma	11	7.74	1.4	5	2.43	2.1	3	0.77	3.9	0	0.23	0.0	21	12.58	1.7*
Hodgkin's disease	0	1.47	0.0	1	0.41	2.4	0	0.12	0.0	0	0.03	0.0	1	2.35	0.4
Multiple myeloma	0	3.47	0.0	2	1.10	1.8	0	0.39	0.0	0	0.13	0.0	2	5.70	0.4
Leukemias	11	7.07	1.6	7	2.20	3.2*	0	0.74	0.0	0	0.24	0.0	19	11.59	1.6
Chronic lymphocytic	2	1.97	1.0	2	0.64	3.1	0	0.23	0.0	0	0.08	0.0	4	3.27	1.2
Acute nonlymphocytic	6	2.46	2.4	3	0.77	3.9	0	0.26	0.0	0	0.09	0.0	10	4.02	2.5*

+ ICD-0 code = 174.

\* P<.05.

BREAST  
 FEMALES  
 LONG-TERM SURVIVORS  
 NO RADIOTHERAPY

TABLE 1K. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the breast among females not given radiotherapy, long-term survivors in Connecticut, 1935-82+

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	26,318		7,304			2,206			514			29,418		
Person-yr in interval	128,488		42,663			11,683			2,417			208,428			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	1,724	1,110.51	1.6*	660	434.26	1.5*	224	144.36	1.6*	52	37.05	1.4*	2,944	1,911.27	1.5*
All excluding site of initial cancer	870	817.96	1.1	387	323.56	1.2*	140	109.22	1.3*	40	28.56	1.4*	1,561	1,415.22	1.1*
Buccal cavity, pharynx	26	19.61	1.3	13	7.83	1.7	2	2.53	0.8	0	0.58	0.0	44	33.77	1.3
Lip	2	1.18	1.7	1	0.46	2.2	0	0.15	0.0	0	0.05	0.0	4	2.03	2.0
Tongue	9	4.00	2.2*	1	1.61	0.6	0	0.53	0.0	0	0.11	0.0	11	6.90	1.6
Salivary gland	4	2.48	1.6	5	0.93	5.4*	0	0.30	0.0	0	0.07	0.0	9	4.21	2.1
Gum, other mouth	9	6.82	1.3	3	2.78	1.1	1	0.93	1.1	0	0.23	0.0	13	11.87	1.1
Pharynx	2	4.33	0.5	3	1.75	1.7	1	0.53	1.9	0	0.11	0.0	7	7.42	0.9
Digestive system	347	338.39	1.0	163	135.57	1.2*	62	47.23	1.3*	18	13.21	1.4	650	590.37	1.1*
Esophagus	6	7.67	0.8	2	3.08	0.6	1	1.05	1.0	1	0.28	3.6	10	13.35	0.7
Stomach	50	44.63	1.1	16	16.34	1.0	1	5.17	0.2	1	1.36	0.7	76	75.21	1.0
Colon	169	158.70	1.1	92	64.96	1.4*	40	23.28	1.7*	6	6.73	0.9	331	279.58	1.2*
Rectum	57	64.21	0.9	26	25.77	1.0	15	8.84	1.7	5	2.37	2.1	120	111.80	1.1
Liver, biliary	21	22.65	0.9	7	8.87	0.8	4	3.01	1.3	1	0.82	1.2	37	39.17	0.9
Pancreas	34	33.68	1.0	18	13.99	1.3	1	5.06	0.2	4	1.45	2.8	63	59.69	1.1
Respiratory system	77	67.74	1.1	42	28.35	1.5*	17	10.18	1.7	5	2.48	2.0	146	119.74	1.2*
Nasal cavities, sinuses	3	1.86	1.6	1	0.71	1.4	0	0.23	0.0	0	0.05	0.0	4	3.16	1.3
Larynx	3	4.03	0.7	2	1.63	1.2	0	0.52	0.0	0	0.11	0.0	6	6.95	0.9
Trachea, bronchus, lung	70	61.03	1.1	39	25.68	1.5*	17	9.33	1.8*	5	2.29	2.2	134	108.21	1.2*
Female breast	854	292.55	2.9*	273	110.70	2.5*	84	35.14	2.4*	12	8.49	1.4	1,383	496.05	2.8*
Female genital tract	240	181.60	1.3*	88	67.15	1.3*	32	19.77	1.6*	4	4.19	1.0	398	303.73	1.3*
Cervix uteri	42	35.97	1.2	8	11.44	0.7	3	2.82	1.1	0	0.52	0.0	62	57.35	1.1
Corpus uteri	101	72.73	1.4*	36	29.42	1.2	15	9.19	1.6	3	1.90	1.6	168	125.13	1.3*
Uterus, NOS	9	12.97	0.7	5	3.75	1.3	3	0.81	3.7	0	0.15	0.0	17	20.12	0.8
Ovary, fallopian tubes	77	49.57	1.6*	34	18.49	1.8*	11	5.54	2.0	1	1.23	0.8	133	83.19	1.6*
Kidney, renal pelvis, ureter	15	17.06	0.9	2	6.91	0.3	2	2.40	0.8	0	0.59	0.0	21	29.77	0.7
Bladder, other urinary	37	30.99	1.2	18	12.82	1.4	1	4.65	0.2	2	1.37	1.5	62	54.87	1.1
Melanoma of the skin	20	13.09	1.5	4	4.80	0.8	3	1.53	2.0	2	0.36	5.6	33	21.99	1.5*
Eye	4	1.85	2.2	1	0.72	1.4	2	0.23	8.7	0	0.05	0.0	7	3.17	2.2
Brain, central nervous system	9	10.98	0.8	7	4.30	1.6	0	1.35	0.0	1	0.28	3.5	17	18.73	0.9
Thyroid gland	13	8.03	1.6	3	2.87	1.0	1	0.84	1.2	0	0.18	0.0	22	13.32	1.7*
Bone	0	1.61	0.0	1	0.54	1.9	0	0.16	0.0	0	0.04	0.0	2	2.64	0.8
Connective tissue	11	4.69	2.3*	1	1.76	0.6	2	0.55	3.6	0	0.14	0.0	14	7.94	1.8
Lymphatic, hematopoietic system	51	70.16	0.7*	23	29.01	0.8	11	10.47	1.1	4	2.96	1.4	94	124.06	0.8*
Non-Hodgkin's lymphoma	21	26.57	0.8	6	10.95	0.5	3	3.90	0.8	0	1.08	0.0	33	46.82	0.7*
Hodgkin's disease	5	4.91	1.0	1	1.84	0.5	1	0.58	1.7	0	0.11	0.0	7	8.29	0.8
Multiple myeloma	6	11.99	0.5	0	5.28	0.0*	2	2.05	1.0	2	0.60	3.3	12	21.83	0.5*
Leukemias	19	26.57	0.7	16	10.91	1.5	5	3.94	1.3	2	1.16	1.7	42	46.94	0.9
Chronic lymphocytic	1	7.41	0.1*	2	3.23	0.6	1	1.24	0.8	1	0.37	2.7	5	13.44	0.4*
Acute nonlymphocytic	11	8.83	1.2	4	3.72	1.1	4	1.40	2.9	0	0.43	0.0	19	15.81	1.2

+ ICD-0 code = 174.

\* P<.05.