

LUNG
BOTH SEXES

TABLE 3A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the trachea, bronchus, or lung, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	18,764	5,659	24,423
No. who developed a second primary cancer	485	129	614
Average age at diagnosis of first cancer, yr	63	61	62
Average yr of diagnosis of first cancer	1969	1972	1970
Person-yr of follow-up	23,669	8,736	32,405
Average follow-up, yr	1.3	1.5	1.3
Percent given radiotherapy for first cancer	56.1	54.0	55.6

+ ICD-0 code = 162.

* 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 3B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the trachea, bronchus, or lung in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	536	87.3
Only the first cancer	45	7.3
Only the second cancer	22	3.6
Neither first nor second cancer	11	1.8
Total second primary cancers	614	100.0

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

LUNG
BOTH SEXES

TABLE 3C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the trachea, bronchus, or lung among males and females in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis												Total		
	<1 yr			1-4 yr			5-9 yr			10+ yr			O	E	O/E
No. starting interval	24,423			8,504			1,636			577			24,423		
Person-yr in interval	11,368			13,408			4,992			2,636			32,405		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	195	140.76	1.4*	237	172.11	1.4*	114	69.58	1.6*	68	44.28	1.5*	614	426.38	1.4*
All excluding site of initial cancer	183	116.01	1.6*	192	141.80	1.4*	80	57.34	1.4*	49	36.74	1.3	504	351.61	1.4*
Buccal cavity, pharynx	20	6.26	3.2*	16	7.34	2.2*	8	2.84	2.8*	2	1.63	1.2	46	18.06	2.5*
Lip	0	0.90	0.0	2	1.00	2.0	2	0.38	5.3	0	0.22	0.0	4	2.50	1.6
Tongue	8	1.26	6.4*	2	1.47	1.4	1	0.57	1.8	0	0.32	0.0	11	3.61	3.0*
Salivary gland	3	0.34	8.8*	1	0.40	2.5	0	0.16	0.0	0	0.10	0.0	4	1.00	4.0*
Gum, other mouth	4	1.84	2.2	4	2.19	1.8	2	0.85	2.3	0	0.49	0.0	10	5.36	1.9
Pharynx	4	1.67	2.4	7	1.97	3.5*	3	0.76	3.9	2	0.43	4.7	16	4.83	3.3*
Digestive system	56	42.01	1.3*	55	50.75	1.1	24	20.52	1.2	16	13.21	1.2	151	126.37	1.2*
Esophagus	5	2.59	1.9	1	3.04	0.3	3	1.19	2.5	1	0.69	1.4	10	7.50	1.3
Stomach	9	6.39	1.4	10	7.36	1.4	4	2.90	1.4	4	1.80	2.2	27	18.43	1.5
Colon	16	16.77	1.0	23	20.68	1.1	9	8.49	1.1	5	5.68	0.9	53	51.58	1.0
Rectum	12	8.91	1.3	13	10.75	1.2	8	4.33	1.8	3	2.74	1.1	36	26.70	1.3
Liver, biliary	2	2.23	0.9	1	2.72	0.4	0	1.10	0.0	0	0.70	0.0	3	6.75	0.4
Pancreas	10	4.40	2.3*	7	5.34	1.3	0	2.17	0.0	3	1.38	2.2	20	13.29	1.5
Respiratory system	17	28.29	0.6*	51	34.52	1.5*	38	13.89	2.7*	19	8.48	2.2*	125	85.11	1.5*
Nasal cavities, sinuses	1	0.28	3.5	0	0.34	0.0	0	0.13	0.0	0	0.08	0.0	1	0.84	1.2
Larynx	4	2.99	1.3	6	3.55	1.7	4	1.39	2.9	0	0.78	0.0	14	8.71	1.6
Trachea, bronchus, lung	12	24.75	0.5*	45	30.31	1.5*	34	12.24	2.8*	19	7.54	2.5*	110	74.77	1.5*
Female breast	7	6.87	1.0	13	9.28	1.4	5	3.75	1.3	5	2.25	2.2	30	22.13	1.4
Female genital tract	7	4.03	1.7	4	5.40	0.7	3	2.17	1.4	1	1.26	0.8	15	12.85	1.2
Cervix uteri	0	0.64	0.0	1	0.82	1.2	2	0.32	6.2	1	0.17	5.7	4	1.95	2.0
Corpus uteri	3	1.94	1.5	1	2.64	0.4	1	1.08	0.9	0	0.62	0.0	5	6.27	0.8
Uterus, NOS	0	0.14	0.0	0	0.17	0.0	0	0.06	0.0	0	0.04	0.0	0	0.40	0.0
Ovary, fallopian tubes	3	1.11	2.7	2	1.49	1.3	0	0.60	0.0	0	0.35	0.0	5	3.55	1.4
Prostate gland	46	19.68	2.3*	54	23.92	2.3*	12	9.99	1.2	9	7.05	1.3	121	60.60	2.0*
Testis	0	0.19	0.0	0	0.21	0.0	0	0.07	0.0	0	0.03	0.0	0	0.50	0.0
Kidney, renal pelvis, ureter	12	3.47	3.5*	14	4.20	3.3*	1	1.68	0.6	0	1.03	0.0	27	10.37	2.6*
Bladder, other urinary	8	9.12	0.9	11	11.14	1.0	7	4.54	1.5	8	3.00	2.7*	34	27.78	1.2
Melanoma of the skin	1	1.79	0.6	1	2.21	0.5	3	0.86	3.5	0	0.50	0.0	5	5.35	0.9
Eye	0	0.21	0.0	1	0.25	4.1	0	0.10	0.0	0	0.06	0.0	1	0.61	1.6
Brain, central nervous system	1	1.68	0.6	1	2.04	0.5	1	0.79	1.3	0	0.44	0.0	3	4.94	0.6
Thyroid gland	4	0.50	7.9*	0	0.62	0.0	0	0.24	0.0	0	0.13	0.0	4	1.49	2.7
Bone	0	0.18	0.0	0	0.21	0.0	0	0.08	0.0	0	0.05	0.0	0	0.51	0.0
Connective tissue	2	0.65	3.1	1	0.79	1.3	1	0.31	3.2	0	0.19	0.0	4	1.94	2.1
Lymphatic, hematopoietic system	7	9.32	0.8	7	11.39	0.6	8	4.60	1.7	5	2.96	1.7	27	28.24	1.0
Non-Hodgkin's lymphoma	3	3.27	0.9	1	4.04	0.2	2	1.62	1.2	2	1.00	2.0	8	9.93	0.8
Hodgkin's disease	0	0.65	0.0	2	0.76	2.6	0	0.29	0.0	0	0.17	0.0	2	1.87	1.1
Multiple myeloma	2	1.51	1.3	0	1.88	0.0	2	0.77	2.6	0	0.51	0.0	4	4.67	0.9
Leukemias	2	3.88	0.5	4	4.70	0.9	4	1.92	2.1	3	1.28	2.4	13	11.76	1.1
Chronic lymphocytic	0	1.26	0.0	2	1.53	1.3	1	0.63	1.6	1	0.42	2.4	4	3.84	1.0
Acute nonlymphocytic	2	1.25	1.6	2	1.56	1.3	3	0.65	4.6	1	0.45	2.2	8	3.90	2.1

+ ICD-O code = 162.

* P<.05.

LUNG
MALES

TABLE 3D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the trachea, bronchus, or lung among males in Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis												Total		
	<1 yr			1-4 yr			5-9 yr			10+ yr					
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	18,764			6,330			1,171			414			18,764		
Person-yr in interval	8,581			9,697			3,548			1,843			23,669		
All second cancers	154	115.67	1.3*	184	138.01	1.3*	94	55.65	1.7*	53	35.57	1.5*	485	344.60	1.4*
All excluding site of initial cancer	147	92.91	1.6*	152	110.45	1.4*	65	44.55	1.5*	37	28.73	1.3	401	276.40	1.5*
Buccal cavity, pharynx	18	5.76	3.1*	13	6.66	2.0*	7	2.56	2.7*	2	1.47	1.4	40	16.43	2.4*
Lip	0	0.88	0.0	2	0.97	2.1	2	0.37	5.4	0	0.21	0.0	4	2.43	1.6
Tongue	7	1.15	6.1*	2	1.33	1.5	0	0.51	0.0	0	0.29	0.0	9	3.28	2.7*
Salivary gland	3	0.29	10.4*	1	0.34	3.0	0	0.13	0.0	0	0.08	0.0	4	0.84	4.8*
Gum, other mouth	4	1.66	2.4	2	1.94	1.0	2	0.75	2.7	0	0.43	0.0	8	4.78	1.7
Pharynx	3	1.54	1.9	6	1.80	3.3*	3	0.69	4.3	2	0.39	5.1	14	4.43	3.2*
Digestive system	48	35.26	1.4*	44	41.52	1.1	21	16.69	1.3	13	10.65	1.2	126	104.03	1.2*
Esophagus	4	2.41	1.7	1	2.79	0.4	3	1.08	2.8	1	0.63	1.6	9	6.90	1.3
Stomach	9	5.71	1.6	9	6.44	1.4	3	2.52	1.2	4	1.54	2.6	25	16.20	1.5
Colon	15	13.50	1.1	17	16.20	1.0	8	6.63	1.2	4	4.41	0.9	44	40.71	1.1
Rectum	8	7.55	1.1	10	8.90	1.1	7	3.56	2.0	2	2.24	0.9	27	22.23	1.2
Liver, biliary	1	1.83	0.5	0	2.17	0.0	0	0.87	0.0	0	0.55	0.0	1	5.41	0.2
Pancreas	9	3.67	2.4*	7	4.35	1.6	0	1.75	0.0	2	1.10	1.8	18	10.87	1.7
Respiratory system	10	26.11	0.4*	36	31.50	1.1	33	12.65	2.6*	16	7.73	2.1*	95	77.92	1.2
Nasal cavities, sinuses	0	0.24	0.0	0	0.28	0.0	0	0.11	0.0	0	0.07	0.0	0	0.70	0.0
Larynx	3	2.87	1.0	4	3.38	1.2	4	1.32	3.0	0	0.74	0.0	11	8.30	1.3
Trachea, bronchus, lung	7	22.76	0.3*	32	27.56	1.2	29	11.10	2.6*	16	6.84	2.3*	84	68.20	1.2
Prostate gland	46	19.68	2.3*	54	23.92	2.3*	12	9.99	1.2	9	7.05	1.3	121	60.60	2.0*
Testis	0	0.19	0.0	0	0.21	0.0	0	0.07	0.0	0	0.03	0.0	0	0.50	0.0
Kidney, renal pelvis, ureter	8	3.06	2.6*	11	3.65	3.0*	1	1.45	0.7	0	0.88	0.0	20	9.03	2.2*
Bladder, other urinary	7	8.44	0.8	11	10.18	1.1	7	4.15	1.7	8	2.73	2.9*	33	25.48	1.3
Melanoma of the skin	1	1.43	0.7	1	1.73	0.6	2	0.67	3.0	0	0.39	0.0	4	4.22	0.9
Eye	0	0.17	0.0	1	0.20	5.1	0	0.08	0.0	0	0.04	0.0	1	0.49	2.1
Brain, central nervous system	1	1.39	0.7	1	1.64	0.6	1	0.63	1.6	0	0.35	0.0	3	4.00	0.8
Thyroid gland	3	0.32	9.2*	0	0.38	0.0	0	0.14	0.0	0	0.08	0.0	3	0.92	3.3
Bone	0	0.15	0.0	0	0.17	0.0	0	0.06	0.0	0	0.04	0.0	0	0.42	0.0
Connective tissue	2	0.56	3.6	1	0.65	1.5	1	0.26	3.9	0	0.16	0.0	4	1.63	2.5
Lymphatic, hematopoietic system	4	7.69	0.5	7	9.16	0.8	6	3.69	1.6	4	2.35	1.7	21	22.86	0.9
Non-Hodgkin's lymphoma	2	2.60	0.8	1	3.12	0.3	1	1.23	0.8	1	0.76	1.3	5	7.70	0.6
Hodgkin's disease	0	0.55	0.0	2	0.62	3.2	0	0.24	0.0	0	0.14	0.0	2	1.54	1.3
Multiple myeloma	1	1.21	0.8	0	1.46	0.0	1	0.60	1.7	0	0.39	0.0	2	3.66	0.5
Leukemias	1	3.33	0.3	4	3.96	1.0	4	1.61	2.5	3	1.07	2.8	12	9.96	1.2
Chronic lymphocytic	0	1.10	0.0	2	1.31	1.5	1	0.54	1.9	1	0.36	2.8	4	3.30	1.2
Acute nonlymphocytic	1	1.04	1.0	2	1.27	1.6	3	0.54	5.6*	1	0.37	2.7	7	3.21	2.2

+ ICD-O code = 162.

* P<.05.

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TABLE 3E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the trachea, bronchus, or lung 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	5,659		2,174			465			163			5,659		
Person-yr in interval	2,787		3,711			1,444			793			8,736			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	41	25.09	1.6*	53	34.10	1.6*	20	13.93	1.4	15	8.71	1.7	129	81.77	1.6*
All excluding site of initial cancer	36	23.10	1.6*	40	31.34	1.3	15	12.80	1.2	12	8.02	1.5	103	75.20	1.4*
Buccal cavity, pharynx	2	0.50	4.0	3	0.68	4.4	1	0.28	3.5	0	0.17	0.0	6	1.63	3.7*
Lip	0	0.02	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Tongue	1	0.10	9.7	0	0.14	0.0	1	0.06	17.3	0	0.03	0.0	2	0.33	6.0
Salivary gland	0	0.05	0.0	0	0.07	0.0	0	0.03	0.0	0	0.02	0.0	0	0.17	0.0
Gum, other mouth	0	0.18	0.0	2	0.24	8.2	0	0.10	0.0	0	0.06	0.0	2	0.58	3.4
Pharynx	1	0.12	8.1	1	0.17	5.9	0	0.07	0.0	0	0.04	0.0	2	0.40	5.0
Digestive system	8	6.75	1.2	11	9.22	1.2	3	3.82	0.8	3	2.56	1.2	25	22.34	1.1
Esophagus	1	0.18	5.5	0	0.25	0.0	0	0.10	0.0	0	0.07	0.0	1	0.60	1.7
Stomach	0	0.69	0.0	1	0.92	1.1	1	0.38	2.7	0	0.25	0.0	2	2.23	0.9
Colon	1	3.27	0.3	6	4.48	1.3	1	1.86	0.5	1	1.27	0.8	9	10.87	0.8
Rectum	4	1.36	2.9	3	1.85	1.6	1	0.77	1.3	1	0.50	2.0	9	4.47	2.0
Liver, biliary	1	0.40	2.5	1	0.55	1.8	0	0.23	0.0	0	0.15	0.0	2	1.34	1.5
Pancreas	1	0.73	1.4	0	1.00	0.0	0	0.42	0.0	1	0.28	3.6	2	2.42	0.8
Respiratory system	7	2.18	3.2*	15	3.02	5.0*	5	1.24	4.0*	3	0.76	4.0	30	7.19	4.2*
Nasal cavities, sinuses	1	0.04	23.5	0	0.06	0.0	0	0.02	0.0	0	0.01	0.0	1	0.14	7.3
Larynx	1	0.13	7.9	2	0.17	11.5*	0	0.07	0.0	0	0.04	0.0	3	0.41	7.3*
Trachea, bronchus, lung	5	1.99	2.5	13	2.76	4.7*	5	1.13	4.4*	3	0.69	4.3	26	6.57	4.0*
Female breast	7	6.87	1.0	13	9.28	1.4	5	3.75	1.3	5	2.25	2.2	30	22.13	1.4
Female genital tract	7	4.03	1.7	4	5.40	0.7	3	2.17	1.4	1	1.26	0.8	15	12.85	1.2
Cervix uteri	0	0.64	0.0	1	0.82	1.2	2	0.32	6.2	1	0.17	5.7	4	1.95	2.0
Corpus uteri	3	1.94	1.5	1	2.64	0.4	1	1.08	0.9	0	0.62	0.0	5	6.27	0.8
Uterus, NOS	0	0.14	0.0	0	0.17	0.0	0	0.06	0.0	0	0.04	0.0	0	0.40	0.0
Ovary, fallopian tubes	3	1.11	2.7	2	1.49	1.3	0	0.60	0.0	0	0.35	0.0	5	3.55	1.4
Kidney, renal pelvis, ureter	4	0.41	9.8*	3	0.56	5.4*	0	0.23	0.0	0	0.15	0.0	7	1.34	5.2*
Bladder, other urinary	1	0.69	1.5	0	0.95	0.0	0	0.40	0.0	0	0.26	0.0	1	2.30	0.4
Melanoma of the skin	0	0.35	0.0	0	0.48	0.0	1	0.19	5.3	0	0.11	0.0	1	1.13	0.9
Eye	0	0.04	0.0	0	0.05	0.0	0	0.02	0.0	0	0.01	0.0	0	0.12	0.0
Brain, central nervous system	0	0.29	0.0	0	0.40	0.0	0	0.16	0.0	0	0.09	0.0	0	0.94	0.0
Thyroid gland	1	0.18	5.6	0	0.24	0.0	0	0.09	0.0	0	0.05	0.0	1	0.57	1.8
Bone	0	0.03	0.0	0	0.04	0.0	0	0.02	0.0	0	0.01	0.0	0	0.09	0.0
Connective tissue	0	0.10	0.0	0	0.13	0.0	0	0.05	0.0	0	0.03	0.0	0	0.31	0.0
Lymphatic, hematopoietic system	3	1.63	1.8	0	2.23	0.0	2	0.92	2.2	1	0.60	1.7	6	5.38	1.1
Non-Hodgkin's lymphoma	1	0.67	1.5	0	0.93	0.0	1	0.38	2.6	1	0.25	4.1	3	2.23	1.3
Hodgkin's disease	0	0.11	0.0	0	0.14	0.0	0	0.06	0.0	0	0.03	0.0	0	0.33	0.0
Multiple myeloma	1	0.30	3.3	0	0.42	0.0	1	0.17	5.8	0	0.12	0.0	2	1.01	2.0
Leukemias	1	0.55	1.8	0	0.74	0.0	0	0.31	0.0	0	0.21	0.0	1	1.80	0.6
Chronic lymphocytic	0	0.16	0.0	0	0.22	0.0	0	0.09	0.0	0	0.07	0.0	0	0.54	0.0
Acute nonlymphocytic	1	0.21	4.8	0	0.29	0.0	0	0.12	0.0	0	0.08	0.0	1	0.69	1.5

+ ICD-O code = 162.

* P<.05.