

LARYNX  
BOTH SEXES

TABLE 2A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the larynx, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	3,653	486	4,139
No. who developed a second primary cancer	496	45	541
Average age at diagnosis of first cancer, yr	62	59	61
Average yr of diagnosis of first cancer	1965	1970	1966
Person-yr of follow-up	19,528	2,603	22,131
Average follow-up, yr	5.3	5.4	5.3
Percent given radiotherapy for first cancer	58.6	64.6	59.3

+ ICD-0 code = 161.

\* 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 2B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the larynx in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	476	88.0
Only the first cancer	45	8.3
Only the second cancer	14	2.6
Neither first nor second cancer	6	1.1
Total second primary cancers	541	100.0

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

LARYNX  
BOTH SEXES

TABLE 2C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the larynx 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	4,139			3,217			1,596			782			4,139		
Person-yr in interval	3,020			8,842			5,669			4,600			22,131		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	63	34.39	1.8*	208	109.94	1.9*	129	83.30	1.5*	141	86.76	1.6*	541	314.21	1.7*
All excluding site of initial cancer	62	33.54	1.8*	207	107.32	1.9*	129	81.47	1.6*	141	85.15	1.7*	539	307.31	1.8*
Buccal cavity, pharynx	7	1.79	3.9*	13	5.48	2.4*	12	3.86	3.1*	8	3.52	2.3	40	14.65	2.7*
Lip	0	0.30	0.0	0	0.89	0.0	0	0.63	0.0	0	0.58	0.0	0	2.40	0.0
Tongue	3	0.37	8.2*	3	1.11	2.7	4	0.78	5.2*	1	0.69	1.5	11	2.94	3.7*
Salivary gland	0	0.09	0.0	0	0.27	0.0	0	0.20	0.0	1	0.21	4.8	1	0.77	1.3
Gum, other mouth	2	0.51	3.9	6	1.57	3.8*	5	1.10	4.5*	0	1.01	0.0	13	4.18	3.1*
Pharynx	2	0.46	4.3	3	1.43	2.1	2	1.00	2.0	5	0.89	5.6*	12	3.78	3.2*
Digestive system	19	10.81	1.8*	47	34.11	1.4*	39	25.75	1.5*	40	26.77	1.5*	145	97.38	1.5*
Esophagus	4	0.75	5.3*	4	2.30	1.7	9	1.64	5.5*	2	1.52	1.3	19	6.21	3.1*
Stomach	2	1.95	1.0	6	5.85	1.0	8	4.24	1.9	7	4.20	1.7	23	16.23	1.4
Colon	7	3.96	1.8	21	12.83	1.6*	13	10.01	1.3	16	10.98	1.5	57	37.76	1.5*
Rectum	0	2.29	0.0	7	7.25	1.0	3	5.41	0.6	9	5.47	1.6	19	20.40	0.9
Liver, biliary	1	0.56	1.8	5	1.76	2.8	2	1.34	1.5	2	1.41	1.4	10	5.07	2.0
Pancreas	3	1.11	2.7	4	3.53	1.1	4	2.68	1.5	3	2.77	1.1	14	10.08	1.4
Respiratory system	17	7.06	2.4*	79	22.89	3.5*	41	17.04	2.4*	45	16.71	2.7*	182	63.66	2.9*
Nasal cavities, sinuses	0	0.07	0.0	2	0.23	8.6	0	0.17	0.0	0	0.17	0.0	2	0.65	3.1
Larynx	1	0.85	1.2	1	2.62	0.4	0	1.83	0.0	0	1.61	0.0	2	6.90	0.3
Trachea, bronchus, lung	16	6.08	2.6*	76	19.84	3.8*	41	14.89	2.8*	45	14.78	3.0*	178	55.55	3.2*
Female breast	2	0.78	2.6	3	2.31	1.3	2	1.59	1.3	2	1.57	1.3	9	6.24	1.4
Female genital tract	1	0.48	2.1	1	1.41	0.7	0	0.96	0.0	2	0.90	2.2	4	3.75	1.1
Cervix uteri	0	0.09	0.0	1	0.25	4.0	0	0.16	0.0	1	0.13	7.7	2	0.63	3.2
Corpus uteri	0	0.22	0.0	0	0.65	0.0	0	0.45	0.0	0	0.43	0.0	0	1.75	0.0
Uterus, NOS	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.03	0.0	0	0.14	0.0
Ovary, fallopian tubes	1	0.13	7.5	0	0.39	0.0	0	0.27	0.0	1	0.25	4.0	2	1.04	1.9
Prostate gland	6	5.10	1.2	21	17.01	1.2	18	14.07	1.3	18	16.61	1.1	63	52.76	1.2
Testis	0	0.06	0.0	0	0.17	0.0	0	0.10	0.0	0	0.07	0.0	0	0.39	0.0
Kidney, renal pelvis, ureter	4	0.88	4.5*	3	2.80	1.1	1	2.06	0.5	3	2.02	1.5	11	7.77	1.4
Bladder, other urinary	1	2.30	0.4	16	7.49	2.1*	2	5.82	0.3	9	6.32	1.4	28	21.91	1.3
Melanoma of the skin	1	0.41	2.4	3	1.29	2.3	2	0.92	2.2	1	0.88	1.1	7	3.49	2.0
Eye	1	0.05	18.4	0	0.17	0.0	0	0.12	0.0	0	0.11	0.0	1	0.45	2.2
Brain, central nervous system	0	0.41	0.0	3	1.29	2.3	1	0.88	1.1	2	0.76	2.6	6	3.34	1.8
Thyroid gland	0	0.12	0.0	1	0.35	2.8	0	0.24	0.0	0	0.21	0.0	1	0.92	1.1
Bone	0	0.05	0.0	0	0.15	0.0	0	0.10	0.0	0	0.10	0.0	0	0.40	0.0
Connective tissue	0	0.17	0.0	0	0.53	0.0	0	0.39	0.0	0	0.40	0.0	0	1.48	0.0
Lymphatic, hematopoietic system	3	2.25	1.3	9	7.20	1.2	7	5.43	1.3	7	5.72	1.2	26	20.59	1.3
Non-Hodgkin's lymphoma	1	0.77	1.3	5	2.45	2.0	2	1.80	1.1	3	1.82	1.6	11	6.83	1.6
Hodgkin's disease	0	0.18	0.0	0	0.53	0.0	1	0.36	2.8	0	0.32	0.0	1	1.38	0.7
Multiple myeloma	0	0.34	0.0	0	1.11	0.0	0	0.87	0.0	2	0.95	2.1	2	3.27	0.6
Leukemias	2	0.97	2.1	4	3.11	1.3	4	2.41	1.7	2	2.64	0.8	12	9.11	1.3
Chronic lymphocytic	1	0.31	3.2	1	1.01	1.0	2	0.80	2.5	0	0.88	0.0	4	2.99	1.3
Acute nonlymphocytic	0	0.28	0.0	3	0.92	3.3	1	0.73	1.4	1	0.85	1.2	5	2.78	1.8

+ ICD-O code = 161.

\* P<.05.

LARYNX  
MALES

TABLE 2D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the larynx among males 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		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	3,653			2,836			1,417			692			3,653		
Person-yr in interval	2,665			7,819			5,009			4,035			19,528		
All second cancers	55	31.62	1.7*	188	101.73	1.8*	121	77.49	1.6*	132	80.69	1.6*	496	291.36	1.7*
All excluding site of initial cancer	54	30.79	1.8*	187	99.15	1.9*	121	75.69	1.6*	132	79.11	1.7*	494	284.57	1.7*
Buccal cavity, pharynx	7	1.74	4.0*	12	5.32	2.3*	10	3.75	2.7*	8	3.40	2.4*	37	14.20	2.6*
Lip	0	0.30	0.0	0	0.88	0.0	0	0.63	0.0	0	0.58	0.0	0	2.38	0.0
Tongue	3	0.35	8.5*	3	1.08	2.8	3	0.75	4.0	1	0.66	1.5	10	2.85	3.5*
Salivary gland	0	0.08	0.0	0	0.25	0.0	0	0.19	0.0	1	0.20	5.1	1	0.72	1.4
Gum, other mouth	2	0.49	4.1	5	1.51	3.3*	4	1.06	3.8*	0	0.96	0.0	11	4.02	2.7*
Pharynx	2	0.45	4.5	3	1.39	2.2	2	0.97	2.1	5	0.86	5.8*	12	3.67	3.3*
Digestive system	15	10.09	1.5	43	31.97	1.3	38	24.17	1.6*	38	24.96	1.5*	134	91.14	1.5*
Esophagus	2	0.73	2.7	4	2.25	1.8	9	1.60	5.6*	2	1.47	1.4	17	6.05	2.8*
Stomach	2	1.87	1.1	6	5.62	1.1	8	4.08	2.0	6	4.02	1.5	22	15.57	1.4
Colon	5	3.62	1.4	18	11.81	1.5	12	9.25	1.3	16	10.10	1.6	51	34.75	1.5*
Rectum	0	2.15	0.0	7	6.81	1.0	3	5.09	0.6	8	5.12	1.6	18	19.15	0.9
Liver, biliary	1	0.51	1.9	5	1.63	3.1	2	1.24	1.6	2	1.30	1.5	10	4.68	2.1*
Pancreas	3	1.03	2.9	3	3.30	0.9	4	2.51	1.6	3	2.57	1.2	13	9.41	1.4
Respiratory system	17	6.84	2.5*	72	22.23	3.2*	39	16.57	2.4*	44	16.23	2.7*	172	61.82	2.8*
Nasal cavities, sinuses	0	0.07	0.0	2	0.22	9.2*	0	0.16	0.0	0	0.16	0.0	2	0.61	3.3
Larynx	1	0.83	1.2	1	2.58	0.4	0	1.80	0.0	0	1.58	0.0	2	6.79	0.3
Trachea, bronchus, lung	16	5.88	2.7*	69	19.23	3.6*	39	14.46	2.7*	44	14.34	3.1*	168	53.87	3.1*
Prostate gland	6	5.10	1.2	21	17.01	1.2	18	14.07	1.3	18	16.61	1.1	63	52.76	1.2
Testis	0	0.06	0.0	0	0.17	0.0	0	0.10	0.0	0	0.07	0.0	0	0.39	0.0
Kidney, renal pelvis, ureter	3	0.84	3.6	3	2.67	1.1	1	1.97	0.5	3	1.92	1.6	10	7.40	1.4
Bladder, other urinary	1	2.23	0.4	15	7.28	2.1*	2	5.67	0.4	9	6.14	1.5	27	21.30	1.3
Melanoma of the skin	1	0.37	2.7	3	1.17	2.6	2	0.84	2.4	1	0.81	1.2	7	3.18	2.2
Eye	1	0.05	20.0	0	0.15	0.0	0	0.11	0.0	0	0.10	0.0	1	0.41	2.4
Brain, central nervous system	0	0.38	0.0	3	1.19	2.5	1	0.81	1.2	1	0.70	1.4	5	3.08	1.6
Thyroid gland	0	0.09	0.0	1	0.29	3.5	0	0.20	0.0	0	0.17	0.0	1	0.75	1.3
Bone	0	0.05	0.0	0	0.14	0.0	0	0.10	0.0	0	0.09	0.0	0	0.38	0.0
Connective tissue	0	0.16	0.0	0	0.50	0.0	0	0.37	0.0	0	0.37	0.0	0	1.39	0.0
Lymphatic, hematopoietic system	3	2.08	1.4	8	6.69	1.2	6	5.06	1.2	7	5.30	1.3	24	19.11	1.3
Non-Hodgkin's lymphoma	1	0.70	1.4	4	2.24	1.8	2	1.64	1.2	3	1.66	1.8	10	6.23	1.6
Hodgkin's disease	0	0.16	0.0	0	0.49	0.0	1	0.34	3.0	0	0.29	0.0	1	1.28	0.8
Multiple myeloma	0	0.31	0.0	0	1.02	0.0	0	0.80	0.0	2	0.86	2.3	2	2.99	0.7
Leukemias	2	0.91	2.2	4	2.93	1.4	3	2.28	1.3	2	2.48	0.8	11	8.60	1.3
Chronic lymphocytic	1	0.29	3.4	1	0.96	1.0	2	0.76	2.6	0	0.83	0.0	4	2.84	1.4
Acute nonlymphocytic	0	0.26	0.0	3	0.86	3.5	0	0.68	0.0	1	0.80	1.3	4	2.59	1.5

+ ICD-O code = 161.

\* P<.05.

LARYNX  
FEMALES

TABLE 2E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the larynx among 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	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	486			381			179			90			486		
Person-yr in interval	355			1,023			660			566			2,603		
All second cancers	8	2.77	2.9*	20	8.21	2.4*	8	5.81	1.4	9	6.07	1.5	45	22.85	2.0*
All excluding site of initial cancer	8	2.76	2.9*	20	8.17	2.4*	8	5.78	1.4	9	6.04	1.5	45	22.74	2.0*
Buccal cavity, pharynx	0	0.05	0.0	1	0.16	6.2	2	0.11	17.7*	0	0.12	0.0	3	0.45	6.7*
Lip	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.02	0.0
Tongue	0	0.01	0.0	0	0.03	0.0	1	0.02	43.4	0	0.02	0.0	1	0.09	11.0
Salivary gland	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Gum, other mouth	0	0.02	0.0	1	0.06	17.7	1	0.04	25.3	0	0.04	0.0	2	0.16	12.8*
Pharynx	0	0.01	0.0	0	0.04	0.0	0	0.03	0.0	0	0.03	0.0	0	0.11	0.0
Digestive system	4	0.72	5.6*	4	2.15	1.9	1	1.58	0.6	2	1.80	1.1	11	6.24	1.8
Esophagus	2	0.02	104.1*	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	2	0.16	12.4*
Stomach	0	0.08	0.0	0	0.23	0.0	0	0.16	0.0	1	0.18	5.4	1	0.65	1.5
Colon	2	0.34	5.9	3	1.02	2.9	1	0.76	1.3	0	0.89	0.0	6	3.01	2.0
Rectum	0	0.15	0.0	0	0.44	0.0	0	0.32	0.0	1	0.35	2.9	1	1.26	0.8
Liver, biliary	0	0.04	0.0	0	0.13	0.0	0	0.10	0.0	0	0.11	0.0	0	0.38	0.0
Pancreas	0	0.07	0.0	1	0.23	4.4	0	0.17	0.0	0	0.19	0.0	1	0.66	1.5
Respiratory system	0	0.22	0.0	7	0.66	10.6*	2	0.47	4.2	1	0.48	2.1	10	1.84	5.4*
Nasal cavities, sinuses	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Larynx	0	0.01	0.0	0	0.04	0.0	0	0.03	0.0	0	0.03	0.0	0	0.11	0.0
Trachea, bronchus, lung	0	0.20	0.0	7	0.60	11.7*	2	0.43	4.6	1	0.44	2.3	10	1.67	6.0*
Female breast	2	0.78	2.6	3	2.31	1.3	2	1.59	1.3	2	1.57	1.3	9	6.24	1.4
Female genital tract	1	0.48	2.1	1	1.41	0.7	0	0.96	0.0	2	0.90	2.2	4	3.75	1.1
Cervix uteri	0	0.09	0.0	1	0.25	4.0	0	0.16	0.0	1	0.13	7.7	2	0.63	3.2
Corpus uteri	0	0.22	0.0	0	0.65	0.0	0	0.45	0.0	0	0.43	0.0	0	1.75	0.0
Uterus, NOS	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.03	0.0	0	0.14	0.0
Ovary, fallopian tubes	1	0.13	7.5	0	0.39	0.0	0	0.27	0.0	1	0.25	4.0	2	1.04	1.9
Kidney, renal pelvis, ureter	1	0.04	22.8	0	0.13	0.0	0	0.10	0.0	0	0.10	0.0	1	0.37	2.7
Bladder, other urinary	0	0.07	0.0	1	0.21	4.7	0	0.16	0.0	0	0.18	0.0	1	0.62	1.6
Melanoma of the skin	0	0.04	0.0	0	0.12	0.0	0	0.08	0.0	0	0.07	0.0	0	0.31	0.0
Eye	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Brain, central nervous system	0	0.03	0.0	0	0.10	0.0	0	0.07	0.0	1	0.06	16.0	1	0.26	3.8
Thyroid gland	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.16	0.0
Bone	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.03	0.0
Connective tissue	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.09	0.0
Lymphatic, hematopoietic system	0	0.17	0.0	1	0.52	1.9	1	0.37	2.7	0	0.42	0.0	2	1.48	1.3
Non-Hodgkin's lymphoma	0	0.07	0.0	1	0.21	4.7	0	0.15	0.0	0	0.17	0.0	1	0.60	1.7
Hodgkin's disease	0	0.01	0.0	0	0.04	0.0	0	0.03	0.0	0	0.02	0.0	0	0.10	0.0
Multiple myeloma	0	0.03	0.0	0	0.09	0.0	0	0.07	0.0	0	0.08	0.0	0	0.27	0.0
Leukemias	0	0.06	0.0	0	0.17	0.0	1	0.13	7.9	0	0.15	0.0	1	0.51	2.0
Chronic lymphocytic	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	0	0.05	0.0	0	0.15	0.0
Acute nonlymphocytic	0	0.02	0.0	0	0.06	0.0	1	0.05	21.4	0	0.06	0.0	1	0.19	5.3

+ ICD-O code = 161.

\* P<.05.