

ESOPHAGUS  
BOTH SEXES

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

Category	Male	Female	Total
No. with first primary cancer*	2,450	706	3,156
No. who developed a second primary cancer	46	12	58
Average age at diagnosis of first cancer, yr	64	65	64
Average yr of diagnosis of first cancer	1963	1967	1964
Person-yr of follow-up	1,689	765	2,454
Average follow-up, yr	0.7	1.1	0.8
Percent given radiotherapy for first cancer	60.4	64.2	61.3

+ ICD-O code = 150.

- 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 esophagus in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	53	91.4
Only the first cancer	2	3.5
Only the second cancer	2	3.5
Neither first nor second cancer	1	1.7
Total second primary cancers	58	100.0

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

ESOPHAGUS  
BOTH SEXES

TABLE 1C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the esophagus 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	3,156			766			76			25			3,156		
Person-yr in interval	1,275			831			205			143			2,454		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	30	16.08	1.9*	20	11.06	1.8*	5	2.86	1.7	3	2.60	1.2	58	32.57	1.8*
All excluding site of initial cancer	30	15.75	1.9*	19	10.86	1.7*	5	2.82	1.8	3	2.56	1.2	57	31.96	1.8*
Buccal cavity, pharynx	5	0.75	6.7*	4	0.46	8.6*	2	0.11	18.9*	0	0.09	0.0	11	1.41	7.8*
Lip	0	0.13	0.0	0	0.07	0.0	1	0.01	69.7	0	0.02	0.0	1	0.24	4.2
Tongue	1	0.15	6.6	3	0.09	31.9*	0	0.02	0.0	0	0.02	0.0	4	0.28	14.1*
Salivary gland	0	0.04	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.08	0.0
Gum, other mouth	3	0.21	14.2*	0	0.14	0.0	1	0.03	31.5	0	0.03	0.0	4	0.41	9.9*
Pharynx	1	0.18	5.5	1	0.12	8.7	0	0.03	0.0	0	0.02	0.0	2	0.35	5.8
Digestive system	9	5.23	1.7	2	3.53	0.6	0	0.93	0.0	0	0.85	0.0	11	10.53	1.0
Esophagus	0	0.33	0.0	1	0.20	5.0	0	0.04	0.0	0	0.04	0.0	1	0.61	1.6
Stomach	2	0.95	2.1	0	0.59	0.0	0	0.15	0.0	0	0.13	0.0	2	1.82	1.1
Colon	2	1.98	1.0	1	1.40	0.7	0	0.39	0.0	0	0.36	0.0	3	4.12	0.7
Rectum	2	1.07	1.9	0	0.72	0.0	0	0.18	0.0	0	0.16	0.0	2	2.14	0.9
Liver, biliary	2	0.28	7.1	0	0.20	0.0	0	0.05	0.0	0	0.05	0.0	2	0.58	3.4
Pancreas	1	0.53	1.9	0	0.36	0.0	0	0.09	0.0	0	0.09	0.0	1	1.07	0.9
Respiratory system	2	2.82	0.7	6	1.91	3.1*	3	0.45	6.6*	2	0.36	5.5	13	5.54	2.3*
Nasal cavities, sinuses	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Larynx	2	0.32	6.2	1	0.21	4.8	0	0.05	0.0	0	0.03	0.0	3	0.61	4.9
Trachea, bronchus, lung	0	2.44	0.0	5	1.66	3.0	3	0.39	7.6*	2	0.32	6.2	10	4.81	2.1
Female breast	1	0.83	1.2	0	0.78	0.0	0	0.26	0.0	0	0.21	0.0	1	2.08	0.5
Female genital tract	0	0.50	0.0	1	0.47	2.1	0	0.15	0.0	0	0.11	0.0	1	1.23	0.8
Cervix uteri	0	0.09	0.0	0	0.08	0.0	0	0.03	0.0	0	0.02	0.0	0	0.21	0.0
Corpus uteri	0	0.21	0.0	0	0.19	0.0	0	0.06	0.0	0	0.05	0.0	0	0.51	0.0
Uterus, NOS	0	0.04	0.0	0	0.04	0.0	0	0.01	0.0	0	0.01	0.0	0	0.10	0.0
Ovary, fallopian tubes	0	0.13	0.0	1	0.13	7.9	0	0.04	0.0	0	0.03	0.0	1	0.33	3.0
Prostate gland	9	2.21	4.1*	5	1.37	3.6*	0	0.31	0.0	1	0.38	2.6	15	4.27	3.5*
Testis	0	0.02	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Kidney, renal pelvis, ureter	0	0.37	0.0	0	0.25	0.0	0	0.06	0.0	0	0.05	0.0	0	0.74	0.0
Bladder, other urinary	0	1.00	0.0	2	0.66	3.0	0	0.17	0.0	0	0.17	0.0	2	1.99	1.0
Melanoma of the skin	0	0.17	0.0	0	0.12	0.0	0	0.03	0.0	0	0.03	0.0	0	0.34	0.0
Eye	0	0.02	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.05	0.0
Brain, central nervous system	0	0.17	0.0	0	0.11	0.0	0	0.03	0.0	0	0.02	0.0	0	0.33	0.0
Thyroid gland	2	0.06	35.8*	0	0.04	0.0	0	0.01	0.0	0	0.01	0.0	2	0.12	17.2*
Bone	0	0.03	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.05	0.0
Connective tissue	0	0.08	0.0	0	0.05	0.0	0	0.01	0.0	0	0.01	0.0	0	0.15	0.0
Lymphatic, hematopoietic system	0	1.03	0.0	0	0.71	0.0	0	0.18	0.0	0	0.17	0.0	0	2.09	0.0
Non-Hodgkin's lymphoma	0	0.35	0.0	0	0.25	0.0	0	0.06	0.0	0	0.06	0.0	0	0.71	0.0
Hodgkin's disease	0	0.07	0.0	0	0.05	0.0	0	0.01	0.0	0	0.01	0.0	0	0.14	0.0
Multiple myeloma	0	0.16	0.0	0	0.11	0.0	0	0.03	0.0	0	0.03	0.0	0	0.33	0.0
Leukemias	0	0.45	0.0	0	0.30	0.0	0	0.08	0.0	0	0.08	0.0	0	0.91	0.0
Chronic lymphocytic	0	0.14	0.0	0	0.10	0.0	0	0.02	0.0	0	0.03	0.0	0	0.29	0.0
Acute nonlymphocytic	0	0.13	0.0	0	0.09	0.0	0	0.02	0.0	0	0.02	0.0	0	0.27	0.0

+ ICD-O code = 150.

\* P<.05.

ESOPHAGUS  
MALES

TABLE 1D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the esophagus 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	2,450			554			41			15			2,450		
Person-yr in interval	955			544			111			78			1,689		
All second cancers	24	12.82	1.9*	15	7.91	1.9*	4	1.76	2.3	3	1.72	1.7	46	24.19	1.9*
All excluding site of initial cancer	24	12.52	1.9*	15	7.74	1.9*	4	1.72	2.3	3	1.69	1.8	46	23.64	1.9*
Buccal cavity, pharynx	3	0.69	4.3	2	0.41	4.9	1	0.09	11.5	0	0.08	0.0	6	1.26	4.8*
Lip	0	0.13	0.0	0	0.07	0.0	1	0.01	76.3	0	0.01	0.0	1	0.23	4.4
Tongue	0	0.14	0.0	1	0.08	12.1	0	0.02	0.0	0	0.01	0.0	1	0.25	4.0
Salivary gland	0	0.03	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.06	0.0
Gum, other mouth	2	0.19	10.5*	0	0.12	0.0	0	0.03	0.0	0	0.02	0.0	2	0.35	5.7
Pharynx	1	0.17	5.9	1	0.10	9.7	0	0.02	0.0	0	0.02	0.0	2	0.31	6.4
Digestive system	8	4.21	1.9	0	2.51	0.0	0	0.54	0.0	0	0.54	0.0	8	7.79	1.0
Esophagus	0	0.30	0.0	0	0.17	0.0	0	0.04	0.0	0	0.03	0.0	0	0.55	0.0
Stomach	2	0.82	2.4	0	0.45	0.0	0	0.09	0.0	0	0.09	0.0	2	1.45	1.4
Colon	2	1.50	1.3	0	0.93	0.0	0	0.21	0.0	0	0.21	0.0	2	2.84	0.7
Rectum	1	0.88	1.1	0	0.53	0.0	0	0.12	0.0	0	0.11	0.0	1	1.63	0.6
Liver, biliary	2	0.21	9.4*	0	0.13	0.0	0	0.03	0.0	0	0.03	0.0	2	0.40	5.0
Pancreas	1	0.42	2.4	0	0.26	0.0	0	0.05	0.0	0	0.05	0.0	1	0.79	1.3
Respiratory system	1	2.60	0.4	6	1.70	3.5*	3	0.39	7.6*	2	0.30	6.6	12	4.99	2.4*
Nasal cavities, sinuses	0	0.03	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.05	0.0
Larynx	1	0.31	3.2	1	0.19	5.1	0	0.05	0.0	0	0.03	0.0	2	0.58	3.5
Trachea, bronchus, lung	0	2.24	0.0	5	1.47	3.4*	3	0.34	8.8*	2	0.27	7.5	10	4.32	2.3*
Prostate gland	9	2.21	4.1*	5	1.37	3.6*	0	0.31	0.0	1	0.38	2.6	15	4.27	3.5*
Testis	0	0.02	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Kidney, renal pelvis, ureter	0	0.32	0.0	0	0.20	0.0	0	0.05	0.0	0	0.04	0.0	0	0.61	0.0
Bladder, other urinary	0	0.91	0.0	2	0.57	3.5	0	0.13	0.0	0	0.14	0.0	2	1.74	1.2
Melanoma of the skin	0	0.13	0.0	0	0.08	0.0	0	0.02	0.0	0	0.02	0.0	0	0.25	0.0
Eye	0	0.02	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Brain, central nervous system	0	0.14	0.0	0	0.09	0.0	0	0.02	0.0	0	0.01	0.0	0	0.25	0.0
Thyroid gland	1	0.03	29.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	1	0.06	15.7
Bone	0	0.02	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.04	0.0
Connective tissue	0	0.06	0.0	0	0.04	0.0	0	0.01	0.0	0	0.01	0.0	0	0.12	0.0
Lymphatic, hematopoietic system	0	0.82	0.0	0	0.51	0.0	0	0.11	0.0	0	0.11	0.0	0	1.55	0.0
Non-Hodgkin's lymphoma	0	0.27	0.0	0	0.17	0.0	0	0.04	0.0	0	0.03	0.0	0	0.51	0.0
Hodgkin's disease	0	0.06	0.0	0	0.04	0.0	0	0.01	0.0	0	0.01	0.0	0	0.11	0.0
Multiple myeloma	0	0.12	0.0	0	0.08	0.0	0	0.02	0.0	0	0.02	0.0	0	0.24	0.0
Leukemias	0	0.37	0.0	0	0.23	0.0	0	0.05	0.0	0	0.05	0.0	0	0.70	0.0
Chronic lymphocytic	0	0.12	0.0	0	0.07	0.0	0	0.02	0.0	0	0.02	0.0	0	0.23	0.0
Acute nonlymphocytic	0	0.10	0.0	0	0.07	0.0	0	0.01	0.0	0	0.02	0.0	0	0.20	0.0

+ ICD-O code = 150.

\* P<.05.

ESOPHAGUS  
FEMALES

TABLE 1E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the esophagus 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	O	E	O/E
No. starting interval	706			212			35			10			706		
Person-yr in interval	320			287			94			64			765		
All second cancers	6	3.25	1.8	5	3.14	1.6	1	1.10	0.9	0	0.89	0.0	12	8.38	1.4
All excluding site of initial cancer	6	3.22	1.9	4	3.12	1.3	1	1.09	0.9	0	0.88	0.0	11	8.31	1.3
Buccal cavity, pharynx	2	0.06	34.2*	2	0.06	35.5*	1	0.02	53.5	0	0.02	0.0	5	0.15	33.5*
Lip	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.01	0.0
Tongue	1	0.01	85.7*	2	0.01	169.5*	0	0.00	0.0	0	0.00	0.0	3	0.03	97.8*
Salivary gland	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.02	0.0
Gum, other mouth	1	0.02	48.1	0	0.02	0.0	1	0.01	160.9*	0	0.01	0.0	2	0.05	38.0*
Pharynx	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Digestive system	1	1.03	1.0	2	1.02	2.0	0	0.39	0.0	0	0.31	0.0	3	2.74	1.1
Esophagus	0	0.03	0.0	1	0.02	41.1	0	0.01	0.0	0	0.01	0.0	1	0.07	15.3
Stomach	0	0.14	0.0	0	0.14	0.0	0	0.06	0.0	0	0.04	0.0	0	0.38	0.0
Colon	0	0.48	0.0	1	0.47	2.1	0	0.18	0.0	0	0.15	0.0	1	1.28	0.8
Rectum	1	0.19	5.2	0	0.19	0.0	0	0.07	0.0	0	0.06	0.0	1	0.50	2.0
Liver, biliary	0	0.07	0.0	0	0.07	0.0	0	0.03	0.0	0	0.02	0.0	0	0.19	0.0
Pancreas	0	0.10	0.0	0	0.10	0.0	0	0.04	0.0	0	0.03	0.0	0	0.28	0.0
Respiratory system	1	0.22	4.6	0	0.21	0.0	0	0.06	0.0	0	0.06	0.0	1	0.55	1.8
Nasal cavities, sinuses	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.02	0.0
Larynx	1	0.01	81.6*	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	1	0.03	32.9
Trachea, bronchus, lung	0	0.20	0.0	0	0.19	0.0	0	0.05	0.0	0	0.05	0.0	0	0.49	0.0
Female breast	1	0.83	1.2	0	0.78	0.0	0	0.26	0.0	0	0.21	0.0	1	2.08	0.5
Female genital tract	0	0.50	0.0	1	0.47	2.1	0	0.15	0.0	0	0.11	0.0	1	1.23	0.8
Cervix uteri	0	0.09	0.0	0	0.08	0.0	0	0.03	0.0	0	0.02	0.0	0	0.21	0.0
Corpus uteri	0	0.21	0.0	0	0.19	0.0	0	0.06	0.0	0	0.05	0.0	0	0.51	0.0
Uterus, NOS	0	0.04	0.0	0	0.04	0.0	0	0.01	0.0	0	0.01	0.0	0	0.10	0.0
Ovary, fallopian tubes	0	0.13	0.0	1	0.13	7.9	0	0.04	0.0	0	0.03	0.0	1	0.33	3.0
Kidney, renal pelvis, ureter	0	0.05	0.0	0	0.05	0.0	0	0.02	0.0	0	0.01	0.0	0	0.13	0.0
Bladder, other urinary	0	0.09	0.0	0	0.09	0.0	0	0.04	0.0	0	0.03	0.0	0	0.26	0.0
Melanoma of the skin	0	0.04	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.09	0.0
Eye	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.01	0.0
Brain, central nervous system	0	0.03	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Thyroid gland	1	0.02	46.9	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	1	0.05	18.9
Bone	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.00	0.0	0	0.01	0.0
Connective tissue	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Lymphatic, hematopoietic system	0	0.21	0.0	0	0.20	0.0	0	0.07	0.0	0	0.06	0.0	0	0.54	0.0
Non-Hodgkin's lymphoma	0	0.08	0.0	0	0.08	0.0	0	0.03	0.0	0	0.02	0.0	0	0.21	0.0
Hodgkin's disease	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Multiple myeloma	0	0.04	0.0	0	0.04	0.0	0	0.01	0.0	0	0.01	0.0	0	0.10	0.0
Leukemias	0	0.08	0.0	0	0.07	0.0	0	0.03	0.0	0	0.03	0.0	0	0.21	0.0
Chronic lymphocytic	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.06	0.0
Acute nonlymphocytic	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0

+ ICD-O code = 150.

\* P<.05.