

ESOPHAGUS
BOTH SEXES

TABLE 1A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial cancer of the esophagus, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	2,778	1,406	4,184
No. who developed a second primary cancer	33	22	55
Average age at diagnosis of first cancer, yr	68	71	69
Average yr of diagnosis of first cancer	1962	1962	1962
Person-yr of follow-up	3,106	1,990	5,096
Average follow-up, yr	1.1	1.4	1.2
Percent given radiotherapy for first cancer	50	50	50

+ ICD-7 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 Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	39	70.9
Only the first cancer	10	18.2
Only the second cancer	3	5.5
Neither first nor second cancer	3	5.5
Total second primary cancers	55	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 Denmark, 1943-80+

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	4,184			1,069			205			87			4,184		
Person-yr in interval	2,361			1,520			683			532			5,096		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	17	28.81	0.6*	18	18.36	1.0	11	8.95	1.2	9	7.93	1.1	55	64.05	0.9
All excluding site of initial cancer	17	28.24	0.6*	18	18.06	1.0	11	8.82	1.2	9	7.83	1.1	55	62.94	0.9
Buccal cavity, pharynx	0	0.79	0.0	1	0.47	2.1	2	0.21	9.5*	0	0.18	0.0	3	1.65	1.8
Lip	0	0.38	0.0	0	0.22	0.0	1	0.10	10.0	0	0.08	0.0	1	0.77	1.3
Tongue	0	0.08	0.0	0	0.05	0.0	1	0.02	50.0	0	0.02	0.0	1	0.16	6.3
Salivary gland	0	0.08	0.0	0	0.05	0.0	0	0.02	0.0	0	0.02	0.0	0	0.17	0.0
Gum, other mouth	0	0.13	0.0	0	0.08	0.0	0	0.04	0.0	0	0.03	0.0	0	0.29	0.0
Pharynx	0	0.12	0.0	1	0.08	12.5	0	0.03	0.0	0	0.03	0.0	1	0.25	4.0
Digestive system	7	12.25	0.6	3	7.29	0.4	1	3.45	0.3	2	2.90	0.7	13	25.88	0.5*
Esophagus	0	0.57	0.0	0	0.30	0.0	0	0.13	0.0	0	0.10	0.0	0	1.11	0.0
Stomach	2	4.25	0.5	2	2.29	0.9	1	0.99	1.0	0	0.74	0.0	5	8.28	0.6
Colon	1	2.84	0.4	0	1.81	0.0	0	0.92	0.0	1	0.82	1.2	2	6.40	0.3
Rectum	2	2.46	0.8	1	1.47	0.7	0	0.68	0.0	0	0.58	0.0	3	5.20	0.6
Liver, biliary	1	0.64	1.6	0	0.46	0.0	0	0.24	0.0	0	0.22	0.0	1	1.56	0.6
Pancreas	1	1.01	1.0	0	0.69	0.0	0	0.35	0.0	1	0.33	3.0	2	2.40	0.8
Respiratory system	0	3.65	0.0	3	2.49	1.2	1	1.24	0.8	2	1.21	1.7	6	8.58	0.7
Nasal cavities, sinuses	0	0.08	0.0	0	0.04	0.0	0	0.02	0.0	0	0.01	0.0	0	0.16	0.0
Larynx	0	0.25	0.0	0	0.16	0.0	0	0.08	0.0	0	0.08	0.0	0	0.56	0.0
Trachea, bronchus, lung	0	3.10	0.0	3	2.15	1.4	1	1.07	0.9	2	1.06	1.9	6	7.39	0.8
Female breast	0	1.79	0.0	3	1.34	2.2	2	0.69	2.9	2	0.57	3.5	7	4.39	1.6
Female genital tract	1	1.41	0.7	2	1.08	1.8	0	0.55	0.0	1	0.47	2.1	4	3.51	1.1
Cervix uteri	0	0.39	0.0	2	0.29	6.8	0	0.14	0.0	1	0.11	8.9	3	0.94	3.2
Corpus uteri	0	0.40	0.0	0	0.32	0.0	0	0.17	0.0	0	0.14	0.0	0	1.03	0.0
Uterus, NOS	0	0.06	0.0	0	0.04	0.0	0	0.02	0.0	0	0.01	0.0	0	0.12	0.0
Ovary, fallopian tubes	0	0.43	0.0	0	0.34	0.0	0	0.18	0.0	0	0.16	0.0	0	1.11	0.0
Prostate gland	1	2.65	0.4	2	1.58	1.3	3	0.77	3.9	1	0.76	1.3	7	5.77	1.2
Testis	0	0.06	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.12	0.0
Kidney, renal pelvis, ureter	5	0.82	6.1*	0	0.55	0.0	0	0.28	0.0	0	0.24	0.0	5	1.89	2.6
Bladder, other urinary	2	1.64	1.2	0	1.09	0.0	1	0.54	1.9	0	0.54	0.0	3	3.81	0.8
Melanoma of the skin	0	0.23	0.0	0	0.17	0.0	0	0.08	0.0	0	0.07	0.0	0	0.54	0.0
Eye	0	0.08	0.0	0	0.05	0.0	0	0.02	0.0	0	0.02	0.0	0	0.18	0.0
Brain, central nervous system	0	0.38	0.0	0	0.27	0.0	0	0.14	0.0	0	0.12	0.0	0	0.91	0.0
Thyroid gland	0	0.12	0.0	0	0.08	0.0	0	0.05	0.0	0	0.03	0.0	0	0.27	0.0
Bone	0	0.06	0.0	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.11	0.0
Connective tissue	0	0.10	0.0	0	0.06	0.0	0	0.03	0.0	0	0.02	0.0	0	0.21	0.0
Lymphatic, hematopoietic system	0	1.62	0.0	1	1.08	0.9	1	0.54	1.9	1	0.50	2.0	3	3.74	0.8
Non-Hodgkin's lymphoma	0	0.43	0.0	0	0.29	0.0	1	0.15	6.7	0	0.13	0.0	1	1.00	1.0
Hodgkin's disease	0	0.11	0.0	0	0.07	0.0	0	0.03	0.0	1	0.03	33.3	1	0.24	4.2
Multiple myeloma	0	0.30	0.0	0	0.21	0.0	0	0.10	0.0	0	0.10	0.0	0	0.71	0.0
Leukemias	0	0.77	0.0	1	0.50	2.0	0	0.25	0.0	0	0.22	0.0	1	1.75	0.6
Chronic lymphocytic	0	0.43	0.0	1	0.28	3.6	0	0.13	0.0	0	0.12	0.0	1	0.95	1.1
Acute nonlymphocytic	0	0.16	0.0	0	0.11	0.0	0	0.06	0.0	0	0.06	0.0	0	0.40	0.0

+ ICD-7 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 Denmark, 1943-80+

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	2,778			666			116			48			2,778		
Person-yr in interval	1,529			903			383			291			3,106		
All second cancers	13	19.24	0.7	10	11.41	0.9	7	5.34	1.3	3	4.93	0.6	33	40.92	0.8
All excluding site of initial cancer	13	18.81	0.7	10	11.19	0.9	7	5.25	1.3	3	4.86	0.6	33	40.11	0.8
Buccal cavity, pharynx	0	0.65	0.0	1	0.37	2.7	1	0.16	6.2	0	0.14	0.0	2	1.32	1.5
Lip	0	0.36	0.0	0	0.20	0.0	1	0.09	11.3	0	0.07	0.0	1	0.72	1.4
Tongue	0	0.05	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.10	0.0
Salivary gland	0	0.05	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.11	0.0
Gum, other mouth	0	0.09	0.0	0	0.05	0.0	0	0.02	0.0	0	0.02	0.0	0	0.19	0.0
Pharynx	0	0.10	0.0	1	0.06	17.5	0	0.02	0.0	0	0.02	0.0	1	0.20	4.9
Digestive system	5	8.25	0.6	3	4.55	0.7	1	2.04	0.5	0	1.75	0.0	9	16.58	0.5
Esophagus	0	0.43	0.0	0	0.22	0.0	0	0.09	0.0	0	0.07	0.0	0	0.81	0.0
Stomach	2	2.97	0.7	2	1.52	1.3	1	0.63	1.6	0	0.48	0.0	5	5.61	0.9
Colon	0	1.72	0.0	0	0.99	0.0	0	0.48	0.0	0	0.44	0.0	0	3.63	0.0
Rectum	2	1.81	1.1	1	1.01	1.0	0	0.45	0.0	0	0.39	0.0	3	3.66	0.8
Liver, biliary	0	0.35	0.0	0	0.23	0.0	0	0.11	0.0	0	0.11	0.0	0	0.80	0.0
Pancreas	1	0.68	1.5	0	0.43	0.0	0	0.21	0.0	0	0.20	0.0	1	1.54	0.7
Respiratory system	0	3.22	0.0	2	2.15	0.9	1	1.06	0.9	2	1.05	1.9	5	7.47	0.7
Nasal cavities, sinuses	0	0.06	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.12	0.0
Larynx	0	0.23	0.0	0	0.15	0.0	0	0.07	0.0	0	0.07	0.0	0	0.52	0.0
Trachea, bronchus, lung	0	2.76	0.0	2	1.87	1.1	1	0.92	1.1	2	0.92	2.2	5	6.47	0.8
Prostate gland	1	2.65	0.4	2	1.58	1.3	3	0.77	3.9	1	0.76	1.3	7	5.77	1.2
Testis	0	0.06	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.12	0.0
Kidney, renal pelvis, ureter	5	0.58	8.7*	0	0.36	0.0	0	0.18	0.0	0	0.16	0.0	5	1.28	3.9*
Bladder, other urinary	2	1.38	1.4	0	0.89	0.0	1	0.43	2.3	0	0.44	0.0	3	3.14	1.0
Melanoma of the skin	0	0.14	0.0	0	0.09	0.0	0	0.04	0.0	0	0.04	0.0	0	0.30	0.0
Eye	0	0.06	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.12	0.0
Brain, central nervous system	0	0.25	0.0	0	0.17	0.0	0	0.08	0.0	0	0.07	0.0	0	0.57	0.0
Thyroid gland	0	0.05	0.0	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.11	0.0
Bone	0	0.04	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Connective tissue	0	0.07	0.0	0	0.04	0.0	0	0.02	0.0	0	0.01	0.0	0	0.14	0.0
Lymphatic, hematopoietic system	0	1.15	0.0	0	0.71	0.0	0	0.34	0.0	0	0.32	0.0	0	2.52	0.0
Non-Hodgkin's lymphoma	0	0.29	0.0	0	0.18	0.0	0	0.09	0.0	0	0.08	0.0	0	0.64	0.0
Hodgkin's disease	0	0.08	0.0	0	0.05	0.0	0	0.02	0.0	0	0.02	0.0	0	0.17	0.0
Multiple myeloma	0	0.21	0.0	0	0.13	0.0	0	0.06	0.0	0	0.06	0.0	0	0.46	0.0
Leukemias	0	0.56	0.0	0	0.34	0.0	0	0.16	0.0	0	0.15	0.0	0	1.22	0.0
Chronic lymphocytic	0	0.33	0.0	0	0.20	0.0	0	0.09	0.0	0	0.09	0.0	0	0.70	0.0
Acute nonlymphocytic	0	0.11	0.0	0	0.07	0.0	0	0.04	0.0	0	0.04	0.0	0	0.26	0.0

+ ICD-7 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 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	1,406		403			89			39			1,406		
Person-yr in interval	832		617			300			241			1,990			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	4	9.57	0.4	8	6.95	1.2	4	3.61	1.1	6	3.00	2.0	22	23.13	1.0
All excluding site of initial cancer	4	9.43	0.4	8	6.87	1.2	4	3.57	1.1	6	2.97	2.0	22	22.83	1.0
Buccal cavity, pharynx	0	0.14	0.0	0	0.10	0.0	1	0.05	19.6	0	0.04	0.0	1	0.33	3.0
Lip	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Tongue	0	0.03	0.0	0	0.02	0.0	1	0.01	103.6*	0	0.01	0.0	1	0.06	15.7
Salivary gland	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.06	0.0
Gum, other mouth	0	0.04	0.0	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.10	0.0
Pharynx	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Digestive system	2	4.00	0.5	0	2.74	0.0	0	1.41	0.0	2	1.15	1.7	4	9.30	0.4
Esophagus	0	0.14	0.0	0	0.08	0.0	0	0.04	0.0	0	0.03	0.0	0	0.30	0.0
Stomach	0	1.28	0.0	0	0.77	0.0	0	0.36	0.0	0	0.26	0.0	0	2.67	0.0
Colon	1	1.12	0.9	0	0.82	0.0	0	0.44	0.0	1	0.38	2.6	2	2.77	0.7
Rectum	0	0.65	0.0	0	0.46	0.0	0	0.23	0.0	0	0.19	0.0	0	1.54	0.0
Liver, biliary	1	0.29	3.4	0	0.23	0.0	0	0.13	0.0	0	0.11	0.0	1	0.76	1.3
Pancreas	0	0.33	0.0	0	0.26	0.0	0	0.14	0.0	1	0.13	7.7	1	0.86	1.2
Respiratory system	0	0.43	0.0	1	0.34	2.9	0	0.18	0.0	0	0.16	0.0	1	1.11	0.9
Nasal cavities, sinuses	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.04	0.0
Larynx	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Trachea, bronchus, lung	0	0.34	0.0	1	0.28	3.5	0	0.15	0.0	0	0.14	0.0	1	0.92	1.1
Female breast	0	1.79	0.0	3	1.34	2.2	2	0.69	2.9	2	0.57	3.5	7	4.39	1.6
Female genital tract	1	1.41	0.7	2	1.08	1.8	0	0.55	0.0	1	0.47	2.1	4	3.51	1.1
Cervix uteri	0	0.39	0.0	2	0.29	6.8	0	0.14	0.0	1	0.11	8.9	3	0.94	3.2
Corpus uteri	0	0.40	0.0	0	0.32	0.0	0	0.17	0.0	0	0.14	0.0	0	1.03	0.0
Uterus, NOS	0	0.06	0.0	0	0.04	0.0	0	0.02	0.0	0	0.01	0.0	0	0.12	0.0
Ovary, fallopian tubes	0	0.43	0.0	0	0.34	0.0	0	0.18	0.0	0	0.16	0.0	0	1.11	0.0
Kidney, renal pelvis, ureter	0	0.24	0.0	0	0.19	0.0	0	0.10	0.0	0	0.08	0.0	0	0.61	0.0
Bladder, other urinary	0	0.26	0.0	0	0.20	0.0	0	0.11	0.0	0	0.10	0.0	0	0.67	0.0
Melanoma of the skin	0	0.09	0.0	0	0.08	0.0	0	0.04	0.0	0	0.03	0.0	0	0.24	0.0
Eye	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
Brain, central nervous system	0	0.13	0.0	0	0.10	0.0	0	0.06	0.0	0	0.05	0.0	0	0.34	0.0
Thyroid gland	0	0.07	0.0	0	0.05	0.0	0	0.03	0.0	0	0.02	0.0	0	0.16	0.0
Bone	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.04	0.0
Connective tissue	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
Lymphatic, hematopoietic system	0	0.47	0.0	1	0.37	2.7	1	0.20	5.0	1	0.18	5.6	3	1.22	2.4
Non-Hodgkin's lymphoma	0	0.14	0.0	0	0.11	0.0	1	0.06	16.5	0	0.05	0.0	1	0.36	2.8
Hodgkin's disease	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	1	0.01	102.0*	1	0.07	13.5
Multiple myeloma	0	0.09	0.0	0	0.08	0.0	0	0.04	0.0	0	0.04	0.0	0	0.25	0.0
Leukemias	0	0.21	0.0	1	0.16	6.3	0	0.09	0.0	0	0.07	0.0	1	0.53	1.9
Chronic lymphocytic	0	0.10	0.0	1	0.08	13.2	0	0.04	0.0	0	0.03	0.0	1	0.25	4.0
Acute nonlymphocytic	0	0.05	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.14	0.0

+ ICD-7 code = 150.

* P<.05.