

PHARYNX
BOTH SEXES

TABLE 5A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial cancer of the pharynx, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	1,289	568	1,857
No. who developed a second primary cancer	51	17	68
Average age at diagnosis of first cancer, yr	61	61	61
Average yr of diagnosis of first cancer	1965	1964	1965
Person-yr of follow-up	3,743	2,168	5,911
Average follow-up, yr	2.9	3.8	3.2
Percent given radiotherapy for first cancer	91	89	90

+ ICD-7 codes = 145-148.

* 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 5B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the pharynx in Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	57	83.8
Only the first cancer	9	13.2
Only the second cancer	2	2.9
Neither first nor second cancer	0	0.0
Total second primary cancers	68	100.0

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

PHARYNX
BOTH SEXES

TABLE 5C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the pharynx 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
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	1,857			1,113			318			143			1,857		
Person-yr in interval	1,491			2,214			1,093			1,113			5,910		
All second cancers	9	13.70	0.7	33	19.81	1.7*	15	10.38	1.4	11	11.44	1.0	68	55.32	1.2
All excluding site of initial cancer	9	13.63	0.7	33	19.72	1.7*	15	10.34	1.5	11	11.40	1.0	68	55.07	1.2
Buccal cavity, pharynx	0	0.40	0.0	1	0.54	1.9	1	0.25	4.0	1	0.27	3.7	3	1.47	2.0
Lip	0	0.20	0.0	0	0.25	0.0	1	0.12	8.3	0	0.12	0.0	1	0.69	1.4
Tongue	0	0.04	0.0	0	0.05	0.0	0	0.03	0.0	0	0.02	0.0	0	0.14	0.0
Salivary gland	0	0.04	0.0	1	0.06	16.7	0	0.03	0.0	0	0.03	0.0	1	0.15	6.7
Gum, other mouth	0	0.06	0.0	0	0.08	0.0	0	0.05	0.0	1	0.05	20.0	1	0.24	4.2
Pharynx	0	0.07	0.0	0	0.09	0.0	0	0.04	0.0	0	0.04	0.0	0	0.25	0.0
Digestive system	1	5.12	0.2	10	7.07	1.4	4	3.69	1.1	5	4.00	1.3	20	19.89	1.0
Esophagus	0	0.23	0.0	1	0.28	3.6	1	0.14	7.1	0	0.15	0.0	2	0.80	2.5
Stomach	0	1.62	0.0	1	2.08	0.5	1	1.04	1.0	1	1.01	1.0	3	5.73	0.5
Colon	1	1.21	0.8	2	1.78	1.1	0	0.97	0.0	2	1.14	1.8	5	5.11	1.0
Rectum	0	1.09	0.0	3	1.49	2.0	0	0.76	0.0	1	0.81	1.2	4	4.15	1.0
Liver, biliary	0	0.30	0.0	2	0.46	4.3	1	0.26	3.8	0	0.32	0.0	3	1.32	2.3
Pancreas	0	0.50	0.0	1	0.73	1.4	1	0.39	2.6	0	0.46	0.0	2	2.08	1.0
Respiratory system	4	2.23	1.8	7	3.22	2.2	5	1.60	3.1*	2	1.79	1.1	18	8.83	2.0*
Nasal cavities, sinuses	0	0.04	0.0	0	0.05	0.0	0	0.03	0.0	0	0.03	0.0	0	0.13	0.0
Larynx	0	0.16	0.0	2	0.22	9.1*	1	0.11	9.1	0	0.11	0.0	3	0.59	5.1*
Trachea, bronchus, lung	4	1.93	2.1	5	2.81	1.8	4	1.40	2.9	2	1.57	1.3	15	7.70	1.9*
Female breast	0	0.76	0.0	2	1.37	1.5	0	0.82	0.0	1	0.94	1.1	3	3.88	0.8
Female genital tract	0	0.70	0.0	2	1.27	1.6	0	0.73	0.0	0	0.80	0.0	2	3.49	0.6
Cervix uteri	0	0.23	0.0	2	0.41	4.9	0	0.22	0.0	0	0.23	0.0	2	1.09	1.8
Corpus uteri	0	0.20	0.0	0	0.37	0.0	0	0.22	0.0	0	0.24	0.0	0	1.03	0.0
Uterus, NOS	0	0.02	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.08	0.0
Ovary, fallopian tubes	0	0.20	0.0	0	0.38	0.0	0	0.22	0.0	0	0.25	0.0	0	1.06	0.0
Prostate gland	0	1.26	0.0	3	1.64	1.8	2	0.82	2.4	0	0.90	0.0	5	4.63	1.1
Testis	0	0.05	0.0	1	0.07	14.3	0	0.03	0.0	0	0.04	0.0	1	0.19	5.3
Kidney, renal pelvis, ureter	1	0.42	2.4	2	0.61	3.3	0	0.32	0.0	0	0.36	0.0	3	1.72	1.7
Bladder, other urinary	1	0.90	1.1	0	1.29	0.0	2	0.66	3.0	0	0.75	0.0	3	3.59	0.8
Melanoma of the skin	0	0.14	0.0	0	0.22	0.0	0	0.11	0.0	0	0.13	0.0	0	0.60	0.0
Eye	0	0.04	0.0	0	0.06	0.0	0	0.03	0.0	0	0.03	0.0	0	0.16	0.0
Brain, central nervous system	0	0.25	0.0	2	0.39	5.1	1	0.20	5.0	0	0.21	0.0	3	1.04	2.9
Thyroid gland	1	0.05	20.0	0	0.08	0.0	0	0.05	0.0	0	0.05	0.0	1	0.24	4.2
Bone	0	0.03	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.10	0.0
Connective tissue	0	0.05	0.0	0	0.07	0.0	0	0.03	0.0	0	0.03	0.0	0	0.19	0.0
Lymphatic, hematopoietic system	1	0.83	1.2	3	1.20	2.5	0	0.64	0.0	2	0.73	2.7	6	3.40	1.8
Non-Hodgkin's lymphoma	1	0.22	4.5	2	0.33	6.1	0	0.18	0.0	0	0.20	0.0	3	0.93	3.2
Hodgkin's disease	0	0.06	0.0	0	0.09	0.0	0	0.05	0.0	0	0.05	0.0	0	0.26	0.0
Multiple myeloma	0	0.16	0.0	0	0.23	0.0	0	0.12	0.0	0	0.14	0.0	0	0.63	0.0
Leukemias	0	0.38	0.0	1	0.54	1.9	0	0.28	0.0	2	0.33	6.1	3	1.53	2.0
Chronic lymphocytic	0	0.20	0.0	0	0.27	0.0	0	0.14	0.0	1	0.16	6.3	1	0.79	1.3
Acute nonlymphocytic	0	0.09	0.0	1	0.14	7.1	0	0.08	0.0	0	0.10	0.0	1	0.41	2.4

+ ICD-7 codes = 145-148.

* P<.05.

PHARYNX
MALES

TABLE 5D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the pharynx 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	1,289			781			187			82			1,289		
Person-yr in interval	1,043			1,420			640			640			3,743		
All second cancers	9	10.06	0.9	21	13.26	1.6	12	6.34	1.9	9	6.75	1.3	51	36.40	1.4*
All excluding site of initial cancer	9	10.00	0.9	21	13.19	1.6	12	6.31	1.9	9	6.72	1.3	51	36.20	1.4*
Buccal cavity, pharynx	0	0.35	0.0	0	0.45	0.0	1	0.20	4.9	1	0.21	4.8	2	1.21	1.7
Lip	0	0.19	0.0	0	0.24	0.0	1	0.11	9.1	0	0.11	0.0	1	0.65	1.5
Tongue	0	0.03	0.0	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.09	0.0
Salivary gland	0	0.03	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.10	0.0
Gum, other mouth	0	0.05	0.0	0	0.06	0.0	0	0.03	0.0	1	0.03	32.2	1	0.17	5.9
Pharynx	0	0.06	0.0	0	0.07	0.0	0	0.03	0.0	0	0.03	0.0	0	0.20	0.0
Digestive system	1	3.85	0.3	7	4.83	1.4	2	2.26	0.9	4	2.32	1.7	14	13.26	1.1
Esophagus	0	0.19	0.0	1	0.22	4.5	1	0.10	10.0	0	0.10	0.0	2	0.61	3.3
Stomach	0	1.26	0.0	1	1.48	0.7	0	0.67	0.0	1	0.65	1.5	2	4.05	0.5
Colon	1	0.84	1.2	1	1.10	0.9	0	0.53	0.0	1	0.57	1.8	3	3.04	1.0
Rectum	0	0.87	0.0	3	1.09	2.7	0	0.51	0.0	1	0.52	1.9	4	2.99	1.3
Liver, biliary	0	0.20	0.0	1	0.27	3.7	0	0.13	0.0	0	0.15	0.0	1	0.74	1.3
Pancreas	0	0.38	0.0	0	0.51	0.0	1	0.25	4.0	0	0.27	0.0	1	1.40	0.7
Respiratory system	4	2.05	2.0	7	2.88	2.4	4	1.39	2.9	2	1.53	1.3	17	7.84	2.2*
Nasal cavities, sinuses	0	0.03	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.10	0.0
Larynx	0	0.15	0.0	2	0.21	9.7*	1	0.10	10.4	0	0.10	0.0	3	0.55	5.4*
Trachea, bronchus, lung	4	1.78	2.2	5	2.52	2.0	3	1.22	2.5	2	1.35	1.5	14	6.86	2.0*
Prostate gland	0	1.26	0.0	3	1.64	1.8	2	0.82	2.4	0	0.90	0.0	5	4.63	1.1
Testis	0	0.05	0.0	1	0.07	14.3	0	0.03	0.0	0	0.04	0.0	1	0.19	5.3
Kidney, renal pelvis, ureter	1	0.33	3.1	2	0.44	4.5	0	0.21	0.0	0	0.23	0.0	3	1.22	2.5
Bladder, other urinary	1	0.80	1.3	0	1.11	0.0	2	0.54	3.7	0	0.60	0.0	3	3.05	1.0
Melanoma of the skin	0	0.09	0.0	0	0.13	0.0	0	0.06	0.0	0	0.07	0.0	0	0.35	0.0
Eye	0	0.03	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.11	0.0
Brain, central nervous system	0	0.18	0.0	0	0.26	0.0	1	0.12	8.5	0	0.13	0.0	1	0.68	1.5
Thyroid gland	1	0.03	34.9	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	1	0.11	9.4
Bone	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
Connective tissue	0	0.04	0.0	0	0.05	0.0	0	0.02	0.0	0	0.02	0.0	0	0.13	0.0
Lymphatic, hematopoietic system	1	0.65	1.6	1	0.86	1.2	0	0.42	0.0	2	0.45	4.5	4	2.38	1.7
Non-Hodgkin's lymphoma	1	0.17	5.9	1	0.23	4.3	0	0.11	0.0	0	0.12	0.0	2	0.63	3.2
Hodgkin's disease	0	0.05	0.0	0	0.07	0.0	0	0.03	0.0	0	0.03	0.0	0	0.19	0.0
Multiple myeloma	0	0.12	0.0	0	0.16	0.0	0	0.08	0.0	0	0.08	0.0	0	0.43	0.0
Leukemias	0	0.30	0.0	0	0.40	0.0	0	0.19	0.0	2	0.21	9.7*	2	1.10	1.8
Chronic lymphocytic	0	0.17	0.0	0	0.21	0.0	0	0.10	0.0	1	0.11	9.0	1	0.60	1.7
Acute nonlymphocytic	0	0.07	0.0	0	0.10	0.0	0	0.05	0.0	0	0.06	0.0	0	0.28	0.0

+ ICD-7 codes = 145-148.

* P<.05.

PHARYNX
FEMALES

TABLE 5E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the pharynx 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	568		332			131			61			568		
Person-yr in interval	448		794			452			473			2,168			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	0	3.64	0.0	12	6.55	1.8	3	4.04	0.7	2	4.69	0.4	17	18.92	0.9
All excluding site of initial cancer	0	3.63	0.0	12	6.53	1.8	3	4.03	0.7	2	4.68	0.4	17	18.87	0.9
Buccal cavity, pharynx	0	0.05	0.0	1	0.09	11.2	0	0.05	0.0	0	0.06	0.0	1	0.26	3.9
Lip	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Tongue	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
Salivary gland	0	0.01	0.0	1	0.02	51.4	0	0.01	0.0	0	0.01	0.0	1	0.05	18.5
Gum, other mouth	0	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.02	0.0	0	0.07	0.0
Pharynx	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
Digestive system	0	1.27	0.0	3	2.24	1.3	2	1.43	1.4	1	1.68	0.6	6	6.63	0.9
Esophagus	0	0.04	0.0	0	0.06	0.0	0	0.04	0.0	0	0.05	0.0	0	0.19	0.0
Stomach	0	0.36	0.0	0	0.60	0.0	1	0.37	2.7	0	0.36	0.0	1	1.68	0.6
Colon	0	0.37	0.0	1	0.68	1.5	0	0.44	0.0	1	0.57	1.8	2	2.07	1.0
Rectum	0	0.22	0.0	0	0.40	0.0	0	0.25	0.0	0	0.29	0.0	0	1.16	0.0
Liver, biliary	0	0.10	0.0	1	0.19	5.4	1	0.13	7.8	0	0.17	0.0	2	0.58	3.4
Pancreas	0	0.12	0.0	1	0.22	4.6	0	0.14	0.0	0	0.19	0.0	1	0.68	1.5
Respiratory system	0	0.18	0.0	0	0.34	0.0	1	0.21	4.7	0	0.26	0.0	1	0.99	1.0
Nasal cavities, sinuses	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.03	0.0
Larynx	0	0.01	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	0.15	0.0	0	0.29	0.0	1	0.18	5.6	0	0.22	0.0	1	0.84	1.2
Female breast	0	0.76	0.0	2	1.37	1.5	0	0.82	0.0	1	0.94	1.1	3	3.88	0.8
Female genital tract	0	0.70	0.0	2	1.27	1.6	0	0.73	0.0	0	0.80	0.0	2	3.49	0.6
Cervix uteri	0	0.23	0.0	2	0.41	4.9	0	0.22	0.0	0	0.23	0.0	2	1.09	1.8
Corpus uteri	0	0.20	0.0	0	0.37	0.0	0	0.22	0.0	0	0.24	0.0	0	1.03	0.0
Uterus, NOS	0	0.02	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.08	0.0
Ovary, fallopian tubes	0	0.20	0.0	0	0.38	0.0	0	0.22	0.0	0	0.25	0.0	0	1.06	0.0
Kidney, renal pelvis, ureter	0	0.09	0.0	0	0.17	0.0	0	0.11	0.0	0	0.13	0.0	0	0.50	0.0
Bladder, other urinary	0	0.10	0.0	0	0.18	0.0	0	0.12	0.0	0	0.15	0.0	0	0.54	0.0
Melanoma of the skin	0	0.05	0.0	0	0.09	0.0	0	0.05	0.0	0	0.06	0.0	0	0.25	0.0
Eye	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
Brain, central nervous system	0	0.07	0.0	2	0.13	15.5*	0	0.08	0.0	0	0.08	0.0	2	0.36	5.6
Thyroid gland	0	0.02	0.0	0	0.04	0.0	0	0.03	0.0	0	0.03	0.0	0	0.13	0.0
Bone	0	0.01	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	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.06	0.0
Lymphatic, hematopoietic system	0	0.18	0.0	2	0.34	5.9	0	0.22	0.0	0	0.28	0.0	2	1.02	2.0
Non-Hodgkin's lymphoma	0	0.05	0.0	1	0.10	9.8	0	0.07	0.0	0	0.08	0.0	1	0.30	3.3
Hodgkin's disease	0	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.02	0.0	0	0.07	0.0
Multiple myeloma	0	0.04	0.0	0	0.07	0.0	0	0.04	0.0	0	0.06	0.0	0	0.20	0.0
Leukemias	0	0.08	0.0	1	0.14	7.1	0	0.09	0.0	0	0.12	0.0	1	0.43	2.3
Chronic lymphocytic	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.05	0.0	0	0.19	0.0
Acute nonlymphocytic	0	0.02	0.0	1	0.04	24.4	0	0.03	0.0	0	0.04	0.0	1	0.13	8.0

+ ICD-7 codes = 145-148.

* P<.05.