

TONGUE  
BOTH SEXES

TABLE 2A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial cancer of the tongue, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	601	506	1,107
No. who developed a second primary cancer	43	25	68
Average age at diagnosis of first cancer, yr	64	69	66
Average yr of diagnosis of first cancer	1963	1963	1964
Person-yr of follow-up	2,396	2,372	4,768
Average follow-up, yr	4.0	4.7	4.3
Percent given radiotherapy for first cancer	74	67	71

+ ICD-7 code = 141.

\* 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 tongue in Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	59	86.8
Only the first cancer	7	10.3
Only the second cancer	1	1.5
Neither first nor second cancer	1	1.5
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.

TONGUE  
BOTH SEXES

TABLE 2C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the tongue among males and 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	1,107			691			294			151			1,107		
Person-yr in interval	905			1,659			1,068			1,136			4,768		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	7	9.81	0.7	29	18.12	1.6*	11	12.87	0.9	21	16.80	1.3	68	57.59	1.2
All excluding site of initial cancer	7	9.78	0.7	29	18.07	1.6*	11	12.83	0.9	21	16.76	1.3	68	57.44	1.2
Buccal cavity, pharynx	0	0.25	0.0	3	0.43	7.0*	1	0.29	3.4	0	0.36	0.0	4	1.35	3.0
Lip	0	0.11	0.0	0	0.19	0.0	0	0.12	0.0	0	0.16	0.0	0	0.58	0.0
Tongue	0	0.03	0.0	0	0.05	0.0	0	0.04	0.0	0	0.04	0.0	0	0.15	0.0
Salivary gland	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	0	0.04	0.0	0	0.16	0.0
Gum, other mouth	0	0.04	0.0	2	0.07	28.6*	1	0.06	16.7	0	0.08	0.0	3	0.25	12.0*
Pharynx	0	0.04	0.0	1	0.07	14.3	0	0.05	0.0	0	0.06	0.0	1	0.21	4.8
Digestive system	4	3.98	1.0	6	7.22	0.8	2	5.08	0.4	6	6.49	0.9	18	22.78	0.8
Esophagus	0	0.17	0.0	1	0.28	3.6	0	0.19	0.0	2	0.24	8.3	3	0.88	3.4
Stomach	1	1.32	0.8	1	2.34	0.4	0	1.54	0.0	1	1.80	0.6	3	7.00	0.4
Colon	1	0.97	1.0	2	1.80	1.1	1	1.34	0.7	1	1.83	0.5	5	5.96	0.8
Rectum	0	0.78	0.0	0	1.40	0.0	0	0.98	0.0	0	1.24	0.0	0	4.41	0.0*
Liver, biliary	1	0.23	4.3	1	0.45	2.2	0	0.35	0.0	0	0.49	0.0	2	1.52	1.3
Pancreas	1	0.35	2.9	0	0.65	0.0	1	0.50	2.0	1	0.69	1.4	3	2.18	1.4
Respiratory system	1	1.18	0.8	6	2.16	2.8*	4	1.52	2.6	6	2.17	2.8*	17	7.03	2.4*
Nasal cavities, sinuses	0	0.03	0.0	0	0.04	0.0	0	0.03	0.0	0	0.03	0.0	0	0.12	0.0
Larynx	0	0.08	0.0	1	0.14	7.1	0	0.09	0.0	1	0.12	8.3	2	0.44	4.5
Trachea, bronchus, lung	1	1.00	1.0	5	1.86	2.7	4	1.30	3.1	5	1.89	2.6	15	6.05	2.5*
Female breast	0	0.86	0.0	2	1.69	1.2	1	1.25	0.8	2	1.47	1.4	5	5.27	0.9
Female genital tract	0	0.69	0.0	3	1.37	2.2	0	0.98	0.0	1	1.08	0.9	4	4.13	1.0
Cervix uteri	0	0.20	0.0	1	0.39	2.5	0	0.27	0.0	0	0.27	0.0	1	1.14	0.9
Corpus uteri	0	0.20	0.0	0	0.39	0.0	0	0.28	0.0	0	0.32	0.0	0	1.19	0.0
Uterus, NOS	0	0.03	0.0	0	0.05	0.0	0	0.03	0.0	0	0.04	0.0	0	0.15	0.0
Ovary, fallopian tubes	0	0.21	0.0	1	0.42	2.4	0	0.31	0.0	0	0.35	0.0	1	1.29	0.8
Prostate gland	0	0.72	0.0	0	1.27	0.0	1	0.92	1.1	1	1.44	0.7	2	4.34	0.5
Testis	0	0.02	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.10	0.0
Kidney, renal pelvis, ureter	1	0.28	3.6	3	0.52	5.8*	1	0.37	2.7	0	0.51	0.0	5	1.68	3.0
Bladder, other urinary	0	0.52	0.0	3	0.96	3.1	0	0.68	0.0	4	1.00	4.0*	7	3.18	2.2
Melanoma of the skin	0	0.09	0.0	0	0.17	0.0	0	0.12	0.0	1	0.16	6.3	1	0.54	1.9
Eye	0	0.03	0.0	0	0.05	0.0	0	0.04	0.0	0	0.04	0.0	0	0.16	0.0
Brain, central nervous system	1	0.14	7.1	0	0.28	0.0	0	0.19	0.0	0	0.22	0.0	1	0.83	1.2
Thyroid gland	0	0.04	0.0	1	0.09	11.1	0	0.07	0.0	0	0.09	0.0	1	0.28	3.6
Bone	0	0.02	0.0	0	0.03	0.0	0	0.02	0.0	0	0.03	0.0	0	0.10	0.0
Connective tissue	0	0.03	0.0	1	0.07	14.3	0	0.04	0.0	0	0.05	0.0	1	0.18	5.6
Lymphatic, hematopoietic system	0	0.55	0.0	1	1.03	1.0	0	0.76	0.0	0	1.03	0.0	1	3.38	0.3
Non-Hodgkin's lymphoma	0	0.16	0.0	0	0.28	0.0	0	0.21	0.0	0	0.28	0.0	0	0.92	0.0
Hodgkin's disease	0	0.03	0.0	0	0.07	0.0	0	0.05	0.0	0	0.05	0.0	0	0.22	0.0
Multiple myeloma	0	0.10	0.0	0	0.20	0.0	0	0.15	0.0	0	0.20	0.0	0	0.65	0.0
Leukemias	0	0.26	0.0	1	0.47	2.1	0	0.35	0.0	0	0.48	0.0	1	1.56	0.6
Chronic lymphocytic	0	0.14	0.0	1	0.25	4.0	0	0.19	0.0	0	0.26	0.0	1	0.84	1.2
Acute nonlymphocytic	0	0.05	0.0	0	0.10	0.0	0	0.08	0.0	0	0.12	0.0	0	0.37	0.0

+ ICD-7 code = 141.

\* P<.05.

TONGUE  
MALES

TABLE 2D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the tongue 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	601			365			144			74			601		
Person-yr in interval	489			846			514			547			2,396		
All second cancers	4	5.33	0.7	14	9.34	1.5	8	6.35	1.3	17	9.09	1.9*	43	30.11	1.4*
All excluding site of initial cancer	4	5.31	0.8	14	9.32	1.5	8	6.33	1.3	17	9.07	1.9*	43	30.04	1.4*
Buccal cavity, pharynx	0	0.18	0.0	2	0.31	6.4	0	0.20	0.0	0	0.25	0.0	2	0.95	2.1
Lip	0	0.10	0.0	0	0.17	0.0	0	0.11	0.0	0	0.14	0.0	0	0.52	0.0
Tongue	0	0.02	0.0	0	0.02	0.0	0	0.02	0.0	0	0.02	0.0	0	0.07	0.0
Salivary gland	0	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.02	0.0	0	0.08	0.0
Gum, other mouth	0	0.02	0.0	1	0.04	24.1	0	0.03	0.0	0	0.04	0.0	1	0.13	7.6
Pharynx	0	0.03	0.0	1	0.05	20.3	0	0.03	0.0	0	0.04	0.0	1	0.15	6.9
Digestive system	3	2.17	1.4	3	3.70	0.8	2	2.48	0.8	6	3.38	1.8	14	11.73	1.2
Esophagus	0	0.11	0.0	1	0.17	5.7	0	0.11	0.0	2	0.14	14.4*	3	0.53	5.7*
Stomach	1	0.75	1.3	0	1.25	0.0	0	0.82	0.0	1	1.00	1.0	2	3.81	0.5
Colon	0	0.46	0.0	2	0.80	2.5	1	0.55	1.8	1	0.84	1.2	4	2.66	1.5
Rectum	0	0.48	0.0	0	0.82	0.0	0	0.55	0.0	0	0.74	0.0	0	2.60	0.0
Liver, biliary	1	0.10	10.0	0	0.18	0.0	0	0.13	0.0	0	0.21	0.0	1	0.62	1.6
Pancreas	1	0.20	5.1	0	0.35	0.0	1	0.25	4.1	1	0.37	2.7	3	1.16	2.6
Respiratory system	0	0.98	0.0	4	1.76	2.3	3	1.20	2.5	6	1.78	3.4*	13	5.72	2.3*
Nasal cavities, sinuses	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
Larynx	0	0.07	0.0	1	0.12	8.1	0	0.08	0.0	1	0.11	8.9	2	0.39	5.1
Trachea, bronchus, lung	0	0.84	0.0	3	1.53	2.0	3	1.04	2.9	5	1.56	3.2*	11	4.97	2.2*
Prostate gland	0	0.72	0.0	0	1.27	0.0	1	0.92	1.1	1	1.44	0.7	2	4.34	0.5
Testis	0	0.02	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.10	0.0
Kidney, renal pelvis, ureter	0	0.17	0.0	3	0.30	10.1*	1	0.20	5.0	0	0.30	0.0	4	0.96	4.2*
Bladder, other urinary	0	0.40	0.0	2	0.72	2.8	0	0.49	0.0	4	0.76	5.3*	6	2.38	2.5
Melanoma of the skin	0	0.04	0.0	0	0.08	0.0	0	0.05	0.0	0	0.07	0.0	0	0.24	0.0
Eye	0	0.02	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.09	0.0
Brain, central nervous system	1	0.08	12.0	0	0.15	0.0	0	0.10	0.0	0	0.11	0.0	1	0.44	2.3
Thyroid gland	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.03	0.0	0	0.09	0.0
Bone	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	0	0.02	0.0	0	0.05	0.0
Connective tissue	0	0.02	0.0	0	0.04	0.0	0	0.02	0.0	0	0.03	0.0	0	0.10	0.0
Lymphatic, hematopoietic system	0	0.33	0.0	0	0.59	0.0	0	0.41	0.0	0	0.59	0.0	0	1.93	0.0
Non-Hodgkin's lymphoma	0	0.09	0.0	0	0.15	0.0	0	0.10	0.0	0	0.15	0.0	0	0.49	0.0
Hodgkin's disease	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
Multiple myeloma	0	0.06	0.0	0	0.11	0.0	0	0.08	0.0	0	0.11	0.0	0	0.36	0.0
Leukemias	0	0.16	0.0	0	0.28	0.0	0	0.20	0.0	0	0.29	0.0	0	0.93	0.0
Chronic lymphocytic	0	0.09	0.0	0	0.16	0.0	0	0.11	0.0	0	0.16	0.0	0	0.53	0.0
Acute nonlymphocytic	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.07	0.0	0	0.21	0.0

+ ICD-7 code = 141.

\* P<.05.

TONGUE  
FEMALES

TABLE 2E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the tongue 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	506		326			150			77			506		
Person-yr in interval	416		813			554			589			2,372			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	3	4.48	0.7	15	8.78	1.7	3	6.52	0.5	4	7.71	0.5	25	27.48	0.9
All excluding site of initial cancer	3	4.47	0.7	15	8.75	1.7	3	6.50	0.5	4	7.69	0.5	25	27.40	0.9
Buccal cavity, pharynx	0	0.07	0.0	1	0.12	8.0	1	0.09	10.6	0	0.11	0.0	2	0.40	5.0
Lip	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	0	0.02	0.0	0	0.06	0.0
Tongue	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.08	0.0
Salivary gland	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.08	0.0
Gum, other mouth	0	0.02	0.0	1	0.03	28.8	1	0.03	35.6	0	0.04	0.0	2	0.12	16.9*
Pharynx	0	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.02	0.0	0	0.06	0.0
Digestive system	1	1.81	0.6	3	3.52	0.9	0	2.60	0.0	0	3.11	0.0	4	11.05	0.4*
Esophagus	0	0.06	0.0	0	0.11	0.0	0	0.08	0.0	0	0.10	0.0	0	0.35	0.0
Stomach	0	0.57	0.0	1	1.09	0.9	0	0.72	0.0	0	0.80	0.0	1	3.19	0.3
Colon	1	0.51	2.0	0	1.00	0.0	0	0.79	0.0	0	0.99	0.0	1	3.30	0.3
Rectum	0	0.30	0.0	0	0.58	0.0	0	0.43	0.0	0	0.50	0.0	0	1.81	0.0
Liver, biliary	0	0.13	0.0	1	0.27	3.7	0	0.22	0.0	0	0.28	0.0	1	0.90	1.1
Pancreas	0	0.15	0.0	0	0.30	0.0	0	0.25	0.0	0	0.32	0.0	0	1.02	0.0
Respiratory system	1	0.20	5.0	2	0.40	5.0	1	0.32	3.2	0	0.39	0.0	4	1.31	3.1
Nasal cavities, sinuses	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Larynx	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
Trachea, bronchus, lung	1	0.16	6.1	2	0.33	6.1	1	0.26	3.8	0	0.33	0.0	4	1.08	3.7
Female breast	0	0.86	0.0	2	1.69	1.2	1	1.25	0.8	2	1.47	1.4	5	5.27	0.9
Female genital tract	0	0.69	0.0	3	1.37	2.2	0	0.98	0.0	1	1.08	0.9	4	4.13	1.0
Cervix uteri	0	0.20	0.0	1	0.39	2.5	0	0.27	0.0	0	0.27	0.0	1	1.14	0.9
Corpus uteri	0	0.20	0.0	0	0.39	0.0	0	0.28	0.0	0	0.32	0.0	0	1.19	0.0
Uterus, NOS	0	0.03	0.0	0	0.05	0.0	0	0.03	0.0	0	0.04	0.0	0	0.15	0.0
Ovary, fallopian tubes	0	0.21	0.0	1	0.42	2.4	0	0.31	0.0	0	0.35	0.0	1	1.29	0.8
Kidney, renal pelvis, ureter	1	0.11	9.0	0	0.22	0.0	0	0.17	0.0	0	0.21	0.0	1	0.72	1.4
Bladder, other urinary	0	0.12	0.0	1	0.24	4.2	0	0.19	0.0	0	0.24	0.0	1	0.80	1.3
Melanoma of the skin	0	0.05	0.0	0	0.09	0.0	0	0.07	0.0	1	0.09	11.3	1	0.30	3.4
Eye	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
Brain, central nervous system	0	0.06	0.0	0	0.13	0.0	0	0.09	0.0	0	0.11	0.0	0	0.39	0.0
Thyroid gland	0	0.03	0.0	1	0.06	16.5	0	0.05	0.0	0	0.06	0.0	1	0.19	5.1
Bone	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Connective tissue	0	0.01	0.0	1	0.03	34.8	0	0.02	0.0	0	0.02	0.0	1	0.08	12.1
Lymphatic, hematopoietic system	0	0.22	0.0	1	0.44	2.3	0	0.35	0.0	0	0.44	0.0	1	1.45	0.7
Non-Hodgkin's lymphoma	0	0.07	0.0	0	0.13	0.0	0	0.11	0.0	0	0.13	0.0	0	0.43	0.0
Hodgkin's disease	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
Multiple myeloma	0	0.04	0.0	0	0.09	0.0	0	0.07	0.0	0	0.09	0.0	0	0.29	0.0
Leukemias	0	0.10	0.0	1	0.19	5.3	0	0.15	0.0	0	0.19	0.0	1	0.63	1.6
Chronic lymphocytic	0	0.05	0.0	1	0.09	10.8	0	0.08	0.0	0	0.10	0.0	1	0.31	3.2
Acute nonlymphocytic	0	0.02	0.0	0	0.04	0.0	0	0.04	0.0	0	0.05	0.0	0	0.16	0.0

+ ICD-7 code = 141.

\* P<.05.