

TONGUE  
BOTH SEXES

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

Category	Male	Female	Total
No. with first primary cancer*	1,643	477	2,120
No. who developed a second primary cancer	144	54	198
Average age at diagnosis of first cancer, yr	62	62	62
Average yr of diagnosis of first cancer	1963	1966	1963
Person-yr of follow-up	4,853	2,118	6,971
Average follow-up, yr	3.0	4.4	3.3
Percent given radiotherapy for first cancer	66.5	52.6	63.3

+ ICD-0 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 Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	177	89.4
Only the first cancer	17	8.6
Only the second cancer	2	1.0
Neither first nor second cancer	2	1.0
Total second primary cancers	198	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 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	
No. starting interval	2,120			1,354			444			194			2,120		
Person-yr in interval	1,420			2,865			1,484			1,202			6,971		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	37	15.66	2.4*	82	33.04	2.5*	41	18.94	2.2*	38	18.24	2.1*	198	85.81	2.3*
All excluding site of initial cancer	36	15.50	2.3*	78	32.73	2.4*	39	18.78	2.1*	38	18.10	2.1*	191	85.03	2.2*
Buccal cavity, pharynx	8	0.78	10.2*	20	1.52	13.1*	8	0.82	9.8*	3	0.73	4.1	39	3.85	10.1*
Lip	0	0.14	0.0	1	0.27	3.7	0	0.14	0.0	0	0.13	0.0	1	0.68	1.5
Tongue	1	0.16	6.1	4	0.31	13.0*	2	0.16	12.3*	0	0.14	0.0	7	0.78	9.0*
Salivary gland	0	0.04	0.0	0	0.08	0.0	0	0.05	0.0	1	0.05	22.1	1	0.22	4.6
Gum, other mouth	4	0.22	18.4*	10	0.43	23.2*	3	0.23	12.9*	1	0.21	4.8	18	1.09	16.6*
Pharynx	3	0.18	16.2*	3	0.37	8.1*	3	0.20	15.0*	1	0.18	5.6	10	0.93	10.7*
Digestive system	17	5.14	3.3*	27	10.67	2.5*	13	6.15	2.1*	11	5.78	1.9	68	27.73	2.5*
Esophagus	5	0.32	15.5*	13	0.63	20.5*	3	0.35	8.7*	4	0.31	13.0*	25	1.61	15.5*
Stomach	1	0.99	1.0	5	1.94	2.6	3	1.09	2.7	2	0.94	2.1	11	4.97	2.2*
Colon	5	1.89	2.6	5	4.07	1.2	4	2.40	1.7	4	2.37	1.7	18	10.73	1.7
Rectum	2	1.05	1.9	2	2.17	0.9	2	1.24	1.6	0	1.15	0.0	6	5.61	1.1
Liver, biliary	2	0.27	7.3	1	0.58	1.7	1	0.34	2.9	0	0.32	0.0	4	1.51	2.6
Pancreas	2	0.51	3.9	1	1.07	0.9	0	0.62	0.0	1	0.60	1.7	4	2.80	1.4
Respiratory system	3	2.66	1.1	19	5.47	3.5*	7	3.02	2.3	13	2.98	4.4*	42	14.11	3.0*
Nasal cavities, sinuses	0	0.03	0.0	1	0.07	14.1	0	0.04	0.0	0	0.04	0.0	1	0.18	5.5
Larynx	0	0.32	0.0	2	0.63	3.2	1	0.34	3.0	2	0.30	6.6	5	1.59	3.1*
Trachea, bronchus, lung	3	2.28	1.3	16	4.72	3.4*	6	2.61	2.3	11	2.61	4.2*	36	12.21	2.9*
Female breast	2	0.79	2.5	1	2.09	0.5	2	1.28	1.6	0	1.09	0.0	5	5.25	1.0
Female genital tract	1	0.50	2.0	1	1.31	0.8	1	0.77	1.3	1	0.63	1.6	4	3.21	1.2
Cervix uteri	0	0.10	0.0	0	0.24	0.0	0	0.13	0.0	1	0.10	10.5	1	0.57	1.8
Corpus uteri	1	0.20	4.9	0	0.54	0.0	0	0.32	0.0	0	0.29	0.0	1	1.35	0.7
Uterus, NOS	0	0.04	0.0	0	0.09	0.0	0	0.05	0.0	0	0.03	0.0	0	0.22	0.0
Ovary, fallopian tubes	0	0.14	0.0	0	0.36	0.0	1	0.21	4.8	0	0.18	0.0	1	0.88	1.1
Prostate gland	3	2.14	1.4	5	4.36	1.1	3	2.58	1.2	5	2.82	1.8	16	11.88	1.3
Testis	0	0.02	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.11	0.0
Kidney, renal pelvis, ureter	0	0.36	0.0	3	0.75	4.0	0	0.42	0.0	0	0.40	0.0	3	1.93	1.6
Bladder, other urinary	0	0.96	0.0	1	1.98	0.5	4	1.14	3.5	1	1.17	0.9	6	5.24	1.1
Melanoma of the skin	0	0.17	0.0	1	0.36	2.7	0	0.20	0.0	0	0.18	0.0	1	0.92	1.1
Eye	0	0.03	0.0	0	0.05	0.0	0	0.03	0.0	0	0.03	0.0	0	0.13	0.0
Brain, central nervous system	0	0.17	0.0	0	0.35	0.0	1	0.18	5.5	0	0.16	0.0	1	0.85	1.2
Thyroid gland	0	0.06	0.0	0	0.13	0.0	1	0.07	14.2	0	0.06	0.0	1	0.31	3.2
Bone	0	0.03	0.0	0	0.05	0.0	0	0.03	0.0	0	0.02	0.0	0	0.13	0.0
Connective tissue	0	0.08	0.0	0	0.16	0.0	0	0.09	0.0	1	0.09	11.7	1	0.40	2.5
Lymphatic, hematopoietic system	1	0.99	1.0	3	2.11	1.4	1	1.22	0.8	2	1.21	1.7	7	5.53	1.3
Non-Hodgkin's lymphoma	0	0.33	0.0	2	0.72	2.8	1	0.41	2.4	2	0.40	5.0	5	1.86	2.7
Hodgkin's disease	0	0.08	0.0	0	0.16	0.0	0	0.08	0.0	0	0.07	0.0	0	0.40	0.0
Multiple myeloma	0	0.15	0.0	1	0.32	3.1	0	0.19	0.0	0	0.20	0.0	1	0.85	1.2
Leukemias	1	0.44	2.3	0	0.91	0.0	0	0.53	0.0	0	0.54	0.0	1	2.42	0.4
Chronic lymphocytic	1	0.13	7.4	0	0.29	0.0	0	0.17	0.0	0	0.18	0.0	1	0.77	1.3
Acute nonlymphocytic	0	0.12	0.0	0	0.25	0.0	0	0.15	0.0	0	0.16	0.0	0	0.68	0.0

+ ICD-O 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 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	1,643			999			296			126			1,643		
Person-yr in interval	1,075			1,992			979			806			4,853		
All second cancers	31	12.64	2.5*	60	24.95	2.4*	27	13.91	1.9*	26	13.97	1.9*	144	65.42	2.2*
All excluding site of initial cancer	30	12.49	2.4*	57	24.67	2.3*	25	13.77	1.8*	26	13.84	1.9*	138	64.72	2.1*
Buccal cavity, pharynx	7	0.73	9.6*	15	1.38	10.9*	5	0.73	6.9*	2	0.65	3.1	29	3.48	8.3*
Lip	0	0.14	0.0	1	0.26	3.9	0	0.14	0.0	0	0.12	0.0	1	0.66	1.5
Tongue	1	0.15	6.7	3	0.28	10.8*	2	0.14	13.9*	0	0.13	0.0	6	0.70	8.6*
Salivary gland	0	0.03	0.0	0	0.07	0.0	0	0.04	0.0	0	0.04	0.0	0	0.17	0.0
Gum, other mouth	3	0.20	15.1*	8	0.38	21.0*	0	0.20	0.0	1	0.18	5.6	12	0.96	12.5*
Pharynx	3	0.17	17.4*	2	0.34	5.9	3	0.18	16.7*	1	0.16	6.2	9	0.85	10.6*
Digestive system	16	4.22	3.8*	17	8.17	2.1*	8	4.55	1.8	7	4.46	1.6	48	21.39	2.2*
Esophagus	4	0.30	13.2*	10	0.58	17.3*	1	0.31	3.2	4	0.28	14.3*	19	1.47	12.9*
Stomach	1	0.87	1.2	2	1.60	1.2	3	0.88	3.4	1	0.79	1.3	7	4.13	1.7
Colon	5	1.47	3.4*	2	2.90	0.7	2	1.66	1.2	2	1.72	1.2	11	7.74	1.4
Rectum	2	0.88	2.3	2	1.70	1.2	1	0.94	1.1	0	0.90	0.0	5	4.42	1.1
Liver, biliary	2	0.21	9.5*	1	0.41	2.4	1	0.23	4.3	0	0.23	0.0	4	1.09	3.7
Pancreas	2	0.42	4.7	0	0.83	0.0	0	0.46	0.0	0	0.46	0.0	2	2.17	0.9
Respiratory system	3	2.47	1.2	18	4.95	3.6*	6	2.70	2.2	7	2.67	2.6*	34	12.78	2.7*
Nasal cavities, sinuses	0	0.03	0.0	1	0.06	17.6	0	0.03	0.0	0	0.03	0.0	1	0.15	6.9
Larynx	0	0.31	0.0	2	0.60	3.4	1	0.32	3.1	1	0.29	3.5	4	1.51	2.6
Trachea, bronchus, lung	3	2.11	1.4	15	4.26	3.5*	5	2.32	2.2	6	2.33	2.6	29	11.01	2.6*
Prostate gland	3	2.14	1.4	5	4.36	1.1	3	2.58	1.2	5	2.82	1.8	16	11.88	1.3
Testis	0	0.02	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.11	0.0
Kidney, renal pelvis, ureter	0	0.32	0.0	2	0.62	3.2	0	0.34	0.0	0	0.33	0.0	2	1.61	1.2
Bladder, other urinary	0	0.88	0.0	1	1.76	0.6	3	0.99	3.0	1	1.03	1.0	5	4.65	1.1
Melanoma of the skin	0	0.14	0.0	1	0.27	3.7	0	0.14	0.0	0	0.14	0.0	1	0.69	1.5
Eye	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
Brain, central nervous system	0	0.14	0.0	0	0.26	0.0	1	0.14	7.4	0	0.12	0.0	1	0.65	1.5
Thyroid gland	0	0.04	0.0	0	0.07	0.0	0	0.04	0.0	0	0.03	0.0	0	0.17	0.0
Bone	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
Connective tissue	0	0.06	0.0	0	0.12	0.0	0	0.07	0.0	1	0.07	14.5	1	0.32	3.1
Lymphatic, hematopoietic system	1	0.81	1.2	1	1.60	0.6	1	0.89	1.1	2	0.92	2.2	5	4.22	1.2
Non-Hodgkin's lymphoma	0	0.26	0.0	1	0.52	1.9	1	0.29	3.5	2	0.29	7.0	4	1.35	3.0
Hodgkin's disease	0	0.07	0.0	0	0.13	0.0	0	0.06	0.0	0	0.06	0.0	0	0.31	0.0
Multiple myeloma	0	0.12	0.0	0	0.23	0.0	0	0.13	0.0	0	0.14	0.0	0	0.62	0.0
Leukemias	1	0.37	2.7	0	0.72	0.0	0	0.41	0.0	0	0.43	0.0	1	1.93	0.5
Chronic lymphocytic	1	0.12	8.6	0	0.24	0.0	0	0.14	0.0	0	0.14	0.0	1	0.63	1.6
Acute nonlymphocytic	0	0.10	0.0	0	0.19	0.0	0	0.11	0.0	0	0.12	0.0	0	0.52	0.0

+ ICD-O 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 Connecticut, 1935-82+

Second primary cancer site	Yr after first primary cancer diagnosis												Total		
	<1 yr			1-4 yr			5-9 yr			10+ yr					
	No. starting interval	477		355			148			68			477		
Person-yr in interval	345		873			505			395			2,118			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	6	3.02	2.0	22	8.09	2.7*	14	5.03	2.8*	12	4.27	2.8*	54	20.40	2.6*
All excluding site of initial cancer	6	3.01	2.0	21	8.06	2.6*	14	5.01	2.8*	12	4.25	2.8*	53	20.32	2.6*
Buccal cavity, pharynx	1	0.06	17.9	5	0.14	34.6*	3	0.09	33.1*	1	0.08	13.0	10	0.37	27.2*
Lip	0	0.00	0.0	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.02	0.0
Tongue	0	0.01	0.0	1	0.03	33.0	0	0.02	0.0	0	0.02	0.0	1	0.08	13.1
Salivary gland	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	1	0.01	106.5*	1	0.05	22.0
Gum, other mouth	1	0.02	53.9	2	0.05	40.3*	3	0.03	94.0*	0	0.03	0.0	6	0.13	47.0*
Pharynx	0	0.01	0.0	1	0.03	31.0	0	0.02	0.0	0	0.02	0.0	1	0.08	12.2
Digestive system	1	0.92	1.1	10	2.50	4.0*	5	1.60	3.1*	4	1.33	3.0	20	6.34	3.2*
Esophagus	1	0.02	47.5	3	0.06	54.1*	2	0.04	56.3*	0	0.03	0.0	6	0.14	42.3*
Stomach	0	0.13	0.0	3	0.34	8.8*	0	0.22	0.0	1	0.15	6.6	4	0.84	4.8*
Colon	0	0.43	0.0	3	1.17	2.6	2	0.75	2.7	2	0.64	3.1	7	2.98	2.3
Rectum	0	0.17	0.0	0	0.47	0.0	1	0.30	3.3	0	0.25	0.0	1	1.19	0.8
Liver, biliary	0	0.06	0.0	0	0.17	0.0	0	0.11	0.0	0	0.08	0.0	0	0.42	0.0
Pancreas	0	0.09	0.0	1	0.25	4.1	0	0.16	0.0	1	0.14	7.0	2	0.64	3.1
Respiratory system	0	0.19	0.0	1	0.51	2.0	1	0.32	3.1	6	0.31	19.6*	8	1.33	6.0*
Nasal cavities, sinuses	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Larynx	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	1	0.02	57.7	1	0.08	13.0
Trachea, bronchus, lung	0	0.17	0.0	1	0.46	2.2	1	0.29	3.5	5	0.28	18.0*	7	1.20	5.8*
Female breast	2	0.79	2.5	1	2.09	0.5	2	1.28	1.6	0	1.09	0.0	5	5.25	1.0
Female genital tract	1	0.50	2.0	1	1.31	0.8	1	0.77	1.3	1	0.63	1.6	4	3.21	1.2
Cervix uteri	0	0.10	0.0	0	0.24	0.0	0	0.13	0.0	1	0.10	10.5	1	0.57	1.8
Corpus uteri	1	0.20	4.9	0	0.54	0.0	0	0.32	0.0	0	0.29	0.0	1	1.35	0.7
Uterus, NOS	0	0.04	0.0	0	0.09	0.0	0	0.05	0.0	0	0.03	0.0	0	0.22	0.0
Ovary, fallopian tubes	0	0.14	0.0	0	0.36	0.0	1	0.21	4.8	0	0.18	0.0	1	0.88	1.1
Kidney, renal pelvis, ureter	0	0.05	0.0	1	0.13	7.8	0	0.08	0.0	0	0.07	0.0	1	0.33	3.1
Bladder, other urinary	0	0.08	0.0	0	0.23	0.0	1	0.15	6.7	0	0.13	0.0	1	0.59	1.7
Melanoma of the skin	0	0.03	0.0	0	0.09	0.0	0	0.06	0.0	0	0.05	0.0	0	0.23	0.0
Eye	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
Brain, central nervous system	0	0.03	0.0	0	0.08	0.0	0	0.05	0.0	0	0.04	0.0	0	0.20	0.0
Thyroid gland	0	0.02	0.0	0	0.06	0.0	1	0.03	29.3	0	0.03	0.0	1	0.14	7.1
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	0.08	0.0
Lymphatic, hematopoietic system	0	0.19	0.0	2	0.51	3.9	0	0.32	0.0	0	0.29	0.0	2	1.31	1.5
Non-Hodgkin's lymphoma	0	0.07	0.0	1	0.19	5.2	0	0.12	0.0	0	0.11	0.0	1	0.50	2.0
Hodgkin's disease	0	0.01	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.09	0.0
Multiple myeloma	0	0.03	0.0	1	0.09	11.6	0	0.06	0.0	0	0.05	0.0	1	0.23	4.4
Leukemias	0	0.07	0.0	0	0.19	0.0	0	0.12	0.0	0	0.11	0.0	0	0.49	0.0
Chronic lymphocytic	0	0.02	0.0	0	0.05	0.0	0	0.04	0.0	0	0.03	0.0	0	0.14	0.0
Acute nonlymphocytic	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

+ ICD-O code = 141.

\* P<.05.