

MOUTH
BOTH SEXES

TABLE 4A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the gum or other mouth, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	2,279	784	3,063
No. who developed a second primary cancer	328	96	424
Average age at diagnosis of first cancer, yr	63	62	63
Average yr of diagnosis of first cancer	1963	1967	1964
Person-yr of follow-up	8,478	4,000	12,478
Average follow-up, yr	3.7	5.1	4.1
Percent given radiotherapy for first cancer	58.6	49.0	56.2

+ ICD-O codes = 143-145.

- 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 4B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the gum or other mouth in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	369	87.0
Only the first cancer	42	9.9
Only the second cancer	9	2.1
Neither first nor second cancer	4	0.9
Total second primary cancers	424	100.0

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

MOUTH
BOTH SEXES

TABLE 4C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the gum or other mouth 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	3,063			2,179			831			375			3,063		
Person-yr in interval	2,158			5,134			2,837			2,349			12,478		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	65	24.48	2.7*	175	59.59	2.9*	93	36.66	2.5*	91	35.81	2.5*	424	156.44	2.7*
All excluding site of initial cancer	60	24.14	2.5*	155	58.80	2.6*	81	36.20	2.2*	78	35.42	2.2*	374	154.45	2.4*
Buccal cavity, pharynx	18	1.20	15.0*	50	2.77	18.1*	30	1.63	18.4*	30	1.37	21.9*	128	6.96	18.4*
Lip	1	0.22	4.5	2	0.49	4.1	1	0.30	3.4	2	0.24	8.4	6	1.24	4.8*
Tongue	8	0.24	33.4*	12	0.56	21.5*	7	0.32	21.8*	6	0.26	23.0*	33	1.38	24.0*
Salivary gland	2	0.06	32.2*	2	0.15	13.6*	1	0.09	10.9	0	0.09	0.0	5	0.39	12.7*
Gum, other mouth	5	0.34	14.6*	20	0.79	25.2*	12	0.46	26.0*	13	0.39	32.9*	50	1.99	25.1*
Pharynx	0	0.28	0.0	10	0.67	15.0*	7	0.39	17.7*	9	0.33	27.3*	26	1.67	15.6*
Digestive system	19	8.03	2.4*	42	19.19	2.2*	23	11.84	1.9*	19	11.31	1.7*	103	50.33	2.0*
Esophagus	7	0.49	14.2*	12	1.15	10.4*	11	0.69	15.9*	5	0.57	8.8*	35	2.90	12.1*
Stomach	1	1.55	0.6	8	3.50	2.3	4	2.11	1.9	2	1.82	1.1	15	8.98	1.7
Colon	6	2.97	2.0	12	7.30	1.6	4	4.57	0.9	8	4.69	1.7	30	19.52	1.5*
Rectum	2	1.63	1.2	4	3.92	1.0	2	2.41	0.8	0	2.25	0.0	8	10.20	0.8
Liver, biliary	1	0.43	2.3	2	1.04	1.9	0	0.64	0.0	1	0.63	1.6	4	2.72	1.5
Pancreas	1	0.80	1.2	3	1.94	1.5	2	1.20	1.7	3	1.17	2.6	9	5.11	1.8
Respiratory system	14	4.03	3.5*	38	9.94	3.8*	19	5.99	3.2*	17	5.52	3.1*	88	25.47	3.5*
Nasal cavities, sinuses	1	0.05	19.0	1	0.12	8.1	0	0.08	0.0	1	0.07	14.2	3	0.32	9.3*
Larynx	3	0.48	6.2*	5	1.15	4.3*	3	0.68	4.4	2	0.54	3.7	13	2.85	4.6*
Trachea, bronchus, lung	10	3.46	2.9*	31	8.58	3.6*	16	5.19	3.1*	14	4.86	2.9*	71	22.07	3.2*
Female breast	0	1.36	0.0	7	3.67	1.9	2	2.26	0.9	4	2.53	1.6	13	9.81	1.3
Female genital tract	1	0.84	1.2	5	2.28	2.2	1	1.38	0.7	2	1.49	1.3	9	5.99	1.5
Cervix uteri	1	0.16	6.4	1	0.42	2.4	0	0.25	0.0	0	0.24	0.0	2	1.07	1.9
Corpus uteri	0	0.35	0.0	2	0.97	2.1	0	0.59	0.0	2	0.66	3.0	4	2.57	1.6
Uterus, NOS	0	0.06	0.0	0	0.15	0.0	0	0.09	0.0	0	0.08	0.0	0	0.38	0.0
Ovary, fallopian tubes	0	0.22	0.0	1	0.61	1.6	0	0.38	0.0	0	0.41	0.0	1	1.63	0.6
Prostate gland	6	3.38	1.8	16	7.99	2.0*	10	5.18	1.9	11	5.42	2.0*	43	21.96	2.0*
Testis	0	0.04	0.0	0	0.08	0.0	0	0.04	0.0	0	0.03	0.0	0	0.18	0.0
Kidney, renal pelvis, ureter	2	0.55	3.6	0	1.35	0.0	0	0.82	0.0	2	0.76	2.6	4	3.49	1.1
Bladder, other urinary	0	1.49	0.0	6	3.60	1.7	2	2.23	0.9	1	2.24	0.4	9	9.56	0.9
Melanoma of the skin	2	0.27	7.5	0	0.66	0.0	0	0.37	0.0	0	0.36	0.0	2	1.65	1.2
Eye	0	0.04	0.0	0	0.09	0.0	0	0.05	0.0	0	0.05	0.0	0	0.23	0.0
Brain, central nervous system	0	0.25	0.0	0	0.62	0.0	1	0.35	2.8	0	0.31	0.0	1	1.53	0.7
Thyroid gland	1	0.09	11.1	0	0.22	0.0	1	0.13	7.8	0	0.12	0.0	2	0.56	3.6
Bone	0	0.04	0.0	0	0.09	0.0	0	0.05	0.0	0	0.04	0.0	0	0.23	0.0
Connective tissue	0	0.12	0.0	1	0.29	3.5	0	0.17	0.0	0	0.16	0.0	1	0.74	1.4
Lymphatic, hematopoietic system	0	1.55	0.0	3	3.81	0.8	3	2.35	1.3	3	2.38	1.3	9	10.07	0.9
Non-Hodgkin's lymphoma	0	0.52	0.0	1	1.30	0.8	0	0.79	0.0	1	0.79	1.3	2	3.39	0.6
Hodgkin's disease	0	0.12	0.0	0	0.28	0.0	0	0.16	0.0	1	0.14	7.0	1	0.70	1.4
Multiple myeloma	0	0.23	0.0	0	0.58	0.0	0	0.37	0.0	1	0.39	2.5	1	1.57	0.6
Leukemias	0	0.68	0.0	2	1.65	1.2	3	1.03	2.9	0	1.06	0.0	5	4.41	1.1
Chronic lymphocytic	0	0.21	0.0	0	0.51	0.0	0	0.32	0.0	0	0.34	0.0	0	1.39	0.0
Acute nonlymphocytic	0	0.19	0.0	2	0.47	4.2	1	0.29	3.4	0	0.32	0.0	3	1.27	2.4

+ ICD-O codes = 143-145.

* P<.05.

MOUTH
MALES

TABLE 4D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the gum or other mouth 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	2,279			1,566			567			252			2,279		
Person-yr in interval	1,582			3,583			1,915			1,398			8,478		
All second cancers	58	19.32	3.0*	132	45.54	2.9*	67	27.96	2.4*	71	25.72	2.8*	328	118.46	2.8*
All excluding site of initial cancer	53	19.01	2.8*	121	44.84	2.7*	61	27.55	2.2*	61	25.39	2.4*	296	116.71	2.5*
Buccal cavity, pharynx	17	1.10	15.4*	34	2.51	13.6*	17	1.47	11.6*	24	1.19	20.2*	92	6.26	14.7*
Lip	1	0.22	4.6	2	0.48	4.2	1	0.29	3.5	2	0.23	8.8	6	1.21	5.0*
Tongue	8	0.22	36.2*	9	0.50	17.8*	2	0.29	6.9	5	0.22	22.3*	24	1.24	19.4*
Salivary gland	1	0.05	19.6	2	0.12	17.1*	0	0.07	0.0	0	0.07	0.0	3	0.31	9.6*
Gum, other mouth	5	0.31	16.3*	11	0.70	15.6*	6	0.41	14.8*	10	0.33	30.3*	32	1.75	18.3*
Pharynx	0	0.26	0.0	7	0.61	11.5*	6	0.36	16.8*	7	0.29	24.1*	20	1.51	13.2*
Digestive system	16	6.46	2.5*	35	14.96	2.3*	16	9.18	1.7	16	8.10	2.0*	83	38.67	2.1*
Esophagus	6	0.46	13.1*	12	1.05	11.4*	10	0.63	15.9*	3	0.49	6.1*	31	2.63	11.8*
Stomach	1	1.34	0.7	8	2.95	2.7*	3	1.77	1.7	2	1.44	1.4	14	7.50	1.9*
Colon	4	2.24	1.8	6	5.31	1.1	1	3.32	0.3	7	3.15	2.2	18	14.01	1.3
Rectum	2	1.34	1.5	4	3.11	1.3	1	1.91	0.5	0	1.64	0.0	7	7.99	0.9
Liver, biliary	1	0.32	3.1	2	0.75	2.7	0	0.47	0.0	1	0.42	2.4	4	1.96	2.0
Pancreas	1	0.64	1.6	2	1.51	1.3	1	0.93	1.1	3	0.83	3.6	7	3.92	1.8
Respiratory system	13	3.70	3.5*	33	8.99	3.7*	19	5.39	3.5*	13	4.82	2.7*	78	22.89	3.4*
Nasal cavities, sinuses	1	0.04	22.9	0	0.10	0.0	0	0.06	0.0	1	0.05	18.6	2	0.26	7.7
Larynx	3	0.46	6.5*	4	1.10	3.6	3	0.64	4.7	1	0.51	2.0	11	2.70	4.1*
Trachea, bronchus, lung	9	3.16	2.8*	28	7.72	3.6*	16	4.65	3.4*	11	4.22	2.6*	64	19.73	3.2*
Prostate gland	6	3.38	1.8	16	7.99	2.0*	10	5.18	1.9	11	5.42	2.0*	43	21.96	2.0*
Testis	0	0.04	0.0	0	0.08	0.0	0	0.04	0.0	0	0.03	0.0	0	0.18	0.0
Kidney, renal pelvis, ureter	2	0.47	4.2	0	1.13	0.0	0	0.68	0.0	2	0.60	3.3	4	2.89	1.4
Bladder, other urinary	0	1.35	0.0	5	3.21	1.6	2	1.99	1.0	0	1.93	0.0	7	8.47	0.8
Melanoma of the skin	2	0.21	9.7*	0	0.49	0.0	0	0.28	0.0	0	0.25	0.0	2	1.22	1.6
Eye	0	0.03	0.0	0	0.07	0.0	0	0.04	0.0	0	0.03	0.0	0	0.17	0.0
Brain, central nervous system	0	0.20	0.0	0	0.48	0.0	0	0.26	0.0	0	0.21	0.0	0	1.15	0.0
Thyroid gland	1	0.05	18.5	0	0.13	0.0	0	0.07	0.0	0	0.06	0.0	1	0.31	3.2
Bone	0	0.03	0.0	0	0.07	0.0	0	0.04	0.0	0	0.03	0.0	0	0.18	0.0
Connective tissue	0	0.10	0.0	1	0.23	4.4	0	0.14	0.0	0	0.12	0.0	1	0.58	1.7
Lymphatic, hematopoietic system	0	1.23	0.0	2	2.93	0.7	2	1.79	1.1	3	1.69	1.8	7	7.63	0.9
Non-Hodgkin's lymphoma	0	0.40	0.0	1	0.95	1.0	0	0.57	0.0	1	0.52	1.9	2	2.45	0.8
Hodgkin's disease	0	0.10	0.0	0	0.22	0.0	0	0.13	0.0	1	0.10	10.0	1	0.54	1.8
Multiple myeloma	0	0.17	0.0	0	0.42	0.0	0	0.27	0.0	1	0.27	3.8	1	1.13	0.9
Leukemias	0	0.56	0.0	1	1.33	0.8	2	0.82	2.4	0	0.80	0.0	3	3.51	0.9
Chronic lymphocytic	0	0.18	0.0	0	0.42	0.0	0	0.27	0.0	0	0.26	0.0	0	1.13	0.0
Acute nonlymphocytic	0	0.15	0.0	1	0.36	2.8	1	0.22	4.5	0	0.24	0.0	2	0.97	2.1

+ ICD-O codes = 143-145.

* P<.05.

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TABLE 4E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the gum or other mouth 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
No. starting interval	784			613			264			123			784		
Person-yr in interval	576			1,551			922			951			4,000		
All second cancers	7	5.16	1.4	43	14.04	3.1*	26	8.70	3.0*	20	10.09	2.0*	96	37.97	2.5*
All excluding site of initial cancer	7	5.13	1.4	34	13.95	2.4*	20	8.64	2.3*	17	10.03	1.7	78	37.72	2.1*
Buccal cavity, pharynx	1	0.10	10.5	16	0.26	61.5*	13	0.16	81.5*	6	0.18	33.3*	36	0.69	51.8*
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	0.02	0.0	3	0.05	57.4*	5	0.03	151.2*	1	0.04	27.2	9	0.14	63.8*
Salivary gland	1	0.01	90.5*	0	0.03	0.0	1	0.02	54.6	0	0.02	0.0	2	0.08	24.6*
Gum, other mouth	0	0.03	0.0	9	0.09	98.9*	6	0.06	107.8*	3	0.06	46.2*	18	0.25	73.3*
Pharynx	0	0.02	0.0	3	0.06	49.7*	1	0.04	27.3	2	0.04	50.2*	6	0.16	38.0*
Digestive system	3	1.57	1.9	7	4.24	1.7	7	2.65	2.6*	3	3.20	0.9	20	11.66	1.7*
Esophagus	1	0.04	26.7	0	0.10	0.0	1	0.06	15.9	2	0.07	27.2*	4	0.27	14.6*
Stomach	0	0.21	0.0	0	0.55	0.0	1	0.34	3.0	0	0.38	0.0	1	1.48	0.7
Colon	2	0.73	2.8	6	1.99	3.0*	3	1.25	2.4	1	1.55	0.6	12	5.51	2.2*
Rectum	0	0.30	0.0	0	0.81	0.0	1	0.51	2.0	0	0.61	0.0	1	2.22	0.5
Liver, biliary	0	0.10	0.0	0	0.28	0.0	0	0.17	0.0	0	0.21	0.0	0	0.77	0.0
Pancreas	0	0.16	0.0	1	0.43	2.3	1	0.27	3.7	0	0.33	0.0	2	1.19	1.7
Respiratory system	1	0.34	3.0	5	0.95	5.3*	0	0.59	0.0	4	0.70	5.7*	10	2.58	3.9*
Nasal cavities, sinuses	0	0.01	0.0	1	0.02	41.7	0	0.01	0.0	0	0.02	0.0	1	0.06	15.6
Larynx	0	0.02	0.0	1	0.06	17.6	0	0.03	0.0	1	0.04	27.0	2	0.15	13.5*
Trachea, bronchus, lung	1	0.30	3.3	3	0.86	3.5	0	0.54	0.0	3	0.63	4.7	7	2.33	3.0*
Female breast	0	1.36	0.0	7	3.67	1.9	2	2.26	0.9	4	2.53	1.6	13	9.81	1.3
Female genital tract	1	0.84	1.2	5	2.28	2.2	1	1.38	0.7	2	1.49	1.3	9	5.99	1.5
Cervix uteri	1	0.16	6.4	1	0.42	2.4	0	0.25	0.0	0	0.24	0.0	2	1.07	1.9
Corpus uteri	0	0.35	0.0	2	0.97	2.1	0	0.59	0.0	2	0.66	3.0	4	2.57	1.6
Uterus, NOS	0	0.06	0.0	0	0.15	0.0	0	0.09	0.0	0	0.08	0.0	0	0.38	0.0
Ovary, fallopian tubes	0	0.22	0.0	1	0.61	1.6	0	0.38	0.0	0	0.41	0.0	1	1.63	0.6
Kidney, renal pelvis, ureter	0	0.08	0.0	0	0.22	0.0	0	0.14	0.0	0	0.17	0.0	0	0.60	0.0
Bladder, other urinary	0	0.15	0.0	1	0.40	2.5	0	0.25	0.0	1	0.31	3.3	2	1.10	1.8
Melanoma of the skin	0	0.06	0.0	0	0.17	0.0	0	0.10	0.0	0	0.11	0.0	0	0.44	0.0
Eye	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
Brain, central nervous system	0	0.05	0.0	0	0.14	0.0	1	0.09	11.3	0	0.10	0.0	1	0.38	2.6
Thyroid gland	0	0.04	0.0	0	0.10	0.0	1	0.06	17.6	0	0.06	0.0	1	0.25	4.0
Bone	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
Connective tissue	0	0.02	0.0	0	0.06	0.0	0	0.03	0.0	0	0.04	0.0	0	0.15	0.0
Lymphatic, hematopoietic system	0	0.32	0.0	1	0.88	1.1	1	0.56	1.8	0	0.69	0.0	2	2.44	0.8
Non-Hodgkin's lymphoma	0	0.12	0.0	0	0.34	0.0	0	0.22	0.0	0	0.26	0.0	0	0.95	0.0
Hodgkin's disease	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
Multiple myeloma	0	0.05	0.0	0	0.15	0.0	0	0.10	0.0	0	0.13	0.0	0	0.43	0.0
Leukemias	0	0.12	0.0	1	0.32	3.1	1	0.21	4.9	0	0.25	0.0	2	0.90	2.2
Chronic lymphocytic	0	0.03	0.0	0	0.09	0.0	0	0.06	0.0	0	0.08	0.0	0	0.26	0.0
Acute nonlymphocytic	0	0.04	0.0	1	0.11	9.1	0	0.07	0.0	0	0.09	0.0	1	0.31	3.2

+ ICD-O codes = 143-145.

* P<.05.