

MOUTH  
BOTH SEXES

TABLE 4A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial cancer of the gum or other mouth, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	1,035	729	1,764
No. who developed a second primary cancer	90	41	131
Average age at diagnosis of first cancer, yr	66	68	67
Average yr of diagnosis of first cancer	1965	1967	1966
Person-yr of follow-up	4,715	3,462	8,177
Average follow-up, yr	4.6	4.8	4.7
Percent given radiotherapy for first cancer	77	75	76

+ ICD-7 codes = 143-144.

\* 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 Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	101	77.1
Only the first cancer	23	17.6
Only the second cancer	6	4.6
Neither first nor second cancer	1	0.8
Total second primary cancers	131	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 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	1,764			1,239			531			247			1,764		
Person-yr in interval	1,525			3,013			1,864			1,775			8,177		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	17	17.84	1.0	51	35.20	1.4*	39	23.09	1.7*	24	23.98	1.0	131	100.11	1.3*
All excluding site of initial cancer	17	17.76	1.0	51	35.04	1.5*	39	22.99	1.7*	22	23.87	0.9	129	99.66	1.3*
Buccal cavity, pharynx	1	0.46	2.2	5	0.88	5.7*	3	0.56	5.4*	6	0.55	10.9*	15	2.45	6.1*
Lip	1	0.20	5.0	4	0.40	10.0*	1	0.26	3.8	1	0.25	4.0	7	1.12	6.3*
Tongue	0	0.05	0.0	1	0.08	12.5	2	0.05	40.0*	2	0.05	40.0*	5	0.24	20.8*
Salivary gland	0	0.05	0.0	0	0.10	0.0	0	0.06	0.0	0	0.06	0.0	0	0.26	0.0
Gum, other mouth	0	0.08	0.0	0	0.16	0.0	0	0.10	0.0	2	0.11	18.2*	2	0.45	4.4
Pharynx	0	0.08	0.0	0	0.14	0.0	0	0.09	0.0	1	0.09	11.1	1	0.39	2.6
Digestive system	7	6.99	1.0	20	13.53	1.5	14	8.87	1.6	6	8.94	0.7	47	38.33	1.2
Esophagus	1	0.29	3.4	4	0.54	7.4*	2	0.34	5.9	1	0.33	3.0	8	1.50	5.3*
Stomach	3	2.16	1.4	5	4.06	1.2	2	2.63	0.8	2	2.43	0.8	12	11.29	1.1
Colon	2	1.78	1.1	8	3.51	2.3	4	2.33	1.7	1	2.49	0.4	15	10.10	1.5
Rectum	1	1.40	0.7	1	2.73	0.4	2	1.78	1.1	2	1.78	1.1	6	7.67	0.8
Liver, biliary	0	0.44	0.0	1	0.88	1.1	2	0.60	3.3	0	0.65	0.0	3	2.57	1.2
Pancreas	0	0.67	0.0	1	1.35	0.7	1	0.90	1.1	0	0.98	0.0	2	3.90	0.5
Respiratory system	5	2.43	2.1	14	4.89	2.9*	13	3.19	4.1*	2	3.52	0.6	34	14.03	2.4*
Nasal cavities, sinuses	1	0.04	25.0	1	0.08	12.5	0	0.05	0.0	0	0.05	0.0	2	0.23	8.7
Larynx	0	0.16	0.0	1	0.32	3.1	0	0.20	0.0	0	0.22	0.0	1	0.89	1.1
Trachea, bronchus, lung	4	2.10	1.9	12	4.24	2.8*	11	2.77	4.0*	2	3.07	0.7	29	12.18	2.4*
Female breast	0	1.34	0.0	1	2.64	0.4	0	1.66	0.0	2	1.72	1.2	3	7.35	0.4
Female genital tract	1	1.07	0.9	3	2.18	1.4	1	1.34	0.7	1	1.33	0.8	6	5.93	1.0
Cervix uteri	1	0.30	3.4	0	0.61	0.0	1	0.38	2.7	0	0.37	0.0	2	1.65	1.2
Corpus uteri	0	0.32	0.0	1	0.65	1.5	0	0.39	0.0	0	0.38	0.0	1	1.74	0.6
Uterus, NOS	0	0.04	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.18	0.0
Ovary, fallopian tubes	0	0.33	0.0	2	0.68	2.9	0	0.42	0.0	1	0.42	2.4	3	1.86	1.6
Prostate gland	1	1.52	0.7	0	3.10	0.0	0	2.20	0.0	3	2.35	1.3	4	9.18	0.4
Testis	0	0.04	0.0	0	0.07	0.0	0	0.04	0.0	0	0.04	0.0	0	0.20	0.0
Kidney, renal pelvis, ureter	0	0.53	0.0	1	1.05	1.0	0	0.69	0.0	0	0.74	0.0	1	3.01	0.3
Bladder, other urinary	2	1.07	1.9	3	2.15	1.4	1	1.44	0.7	2	1.57	1.3	8	6.24	1.3
Melanoma of the skin	0	0.17	0.0	0	0.34	0.0	1	0.22	4.5	1	0.23	4.3	2	0.95	2.1
Eye	0	0.05	0.0	0	0.09	0.0	0	0.06	0.0	0	0.06	0.0	0	0.27	0.0
Brain, central nervous system	0	0.27	0.0	1	0.54	1.9	0	0.34	0.0	1	0.35	2.9	2	1.49	1.3
Thyroid gland	0	0.08	0.0	0	0.15	0.0	0	0.10	0.0	0	0.10	0.0	0	0.44	0.0
Bone	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.03	0.0	0	0.17	0.0
Connective tissue	0	0.06	0.0	0	0.12	0.0	0	0.08	0.0	0	0.07	0.0	0	0.32	0.0
Lymphatic, hematopoietic system	0	1.05	0.0	2	2.11	0.9	2	1.40	1.4	0	1.50	0.0	4	6.07	0.7
Non-Hodgkin's lymphoma	0	0.29	0.0	0	0.57	0.0	2	0.38	5.3	0	0.40	0.0	2	1.64	1.2
Hodgkin's disease	0	0.07	0.0	1	0.14	7.1	0	0.09	0.0	0	0.09	0.0	1	0.39	2.6
Multiple myeloma	0	0.20	0.0	1	0.41	2.4	0	0.28	0.0	0	0.29	0.0	1	1.17	0.9
Leukemias	0	0.49	0.0	0	0.97	0.0	0	0.65	0.0	0	0.69	0.0	0	2.81	0.0
Chronic lymphocytic	0	0.26	0.0	0	0.51	0.0	0	0.35	0.0	0	0.37	0.0	0	1.51	0.0
Acute nonlymphocytic	0	0.11	0.0	0	0.24	0.0	0	0.16	0.0	0	0.18	0.0	0	0.70	0.0

+ ICD-7 codes = 143-144.

\* 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 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	1,035		730			301			141			1,035		
Person-yr in interval	894		1,728			1,071			1,022			4,715			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	13	10.94	1.2	34	21.75	1.6*	26	14.56	1.8*	17	15.24	1.1	90	62.49	1.4*
All excluding site of initial cancer	13	10.89	1.2	34	21.65	1.6*	26	14.50	1.8*	15	15.17	1.0	88	62.21	1.4*
Buccal cavity, pharynx	1	0.36	2.8	5	0.69	7.3*	1	0.44	2.3	5	0.43	11.5*	12	1.92	6.3*
Lip	1	0.19	5.2	4	0.37	10.7*	1	0.24	4.2	1	0.23	4.3	7	1.04	6.8*
Tongue	0	0.03	0.0	1	0.05	19.2	0	0.03	0.0	1	0.03	31.7	2	0.14	13.9*
Salivary gland	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.16	0.0
Gum, other mouth	0	0.05	0.0	0	0.10	0.0	0	0.06	0.0	2	0.07	30.0*	2	0.28	7.1
Pharynx	0	0.06	0.0	0	0.11	0.0	0	0.07	0.0	1	0.07	14.8	1	0.30	3.3
Digestive system	6	4.29	1.4	12	8.41	1.4	8	5.59	1.4	6	5.59	1.1	32	23.88	1.3
Esophagus	1	0.20	4.9	2	0.39	5.2	1	0.24	4.1	1	0.23	4.4	5	1.06	4.7*
Stomach	3	1.41	2.1	4	2.71	1.5	2	1.77	1.1	2	1.62	1.2	11	7.51	1.5
Colon	1	0.96	1.0	4	1.92	2.1	2	1.30	1.5	1	1.39	0.7	8	5.57	1.4
Rectum	1	0.95	1.0	1	1.87	0.5	2	1.23	1.6	2	1.23	1.6	6	5.27	1.1
Liver, biliary	0	0.22	0.0	0	0.44	0.0	0	0.31	0.0	0	0.34	0.0	0	1.31	0.0
Pancreas	0	0.41	0.0	1	0.83	1.2	1	0.57	1.7	0	0.62	0.0	2	2.43	0.8
Respiratory system	3	2.08	1.4	12	4.19	2.9*	11	2.75	4.0*	1	3.05	0.3	27	12.07	2.2*
Nasal cavities, sinuses	0	0.03	0.0	1	0.06	16.8	0	0.04	0.0	0	0.04	0.0	1	0.17	5.9
Larynx	0	0.15	0.0	1	0.29	3.5	0	0.18	0.0	0	0.20	0.0	1	0.82	1.2
Trachea, bronchus, lung	3	1.81	1.7	10	3.65	2.7*	9	2.40	3.8*	1	2.67	0.4	23	10.53	2.2*
Prostate gland	1	1.52	0.7	0	3.10	0.0	0	2.20	0.0	3	2.35	1.3	4	9.18	0.4
Testis	0	0.04	0.0	0	0.07	0.0	0	0.04	0.0	0	0.04	0.0	0	0.20	0.0
Kidney, renal pelvis, ureter	0	0.35	0.0	1	0.69	1.4	0	0.46	0.0	0	0.50	0.0	1	2.00	0.5
Bladder, other urinary	2	0.87	2.3	2	1.75	1.1	1	1.18	0.8	2	1.30	1.5	7	5.10	1.4
Melanoma of the skin	0	0.09	0.0	0	0.18	0.0	0	0.12	0.0	0	0.12	0.0	0	0.50	0.0
Eye	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.18	0.0
Brain, central nervous system	0	0.16	0.0	0	0.32	0.0	0	0.20	0.0	0	0.21	0.0	0	0.89	0.0
Thyroid gland	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.17	0.0
Bone	0	0.02	0.0	0	0.04	0.0	0	0.03	0.0	0	0.02	0.0	0	0.11	0.0
Connective tissue	0	0.04	0.0	0	0.08	0.0	0	0.05	0.0	0	0.05	0.0	0	0.21	0.0
Lymphatic, hematopoietic system	0	0.69	0.0	1	1.38	0.7	2	0.93	2.1	0	1.00	0.0	3	4.00	0.8
Non-Hodgkin's lymphoma	0	0.18	0.0	0	0.35	0.0	2	0.24	8.4	0	0.25	0.0	2	1.02	2.0
Hodgkin's disease	0	0.05	0.0	0	0.09	0.0	0	0.06	0.0	0	0.06	0.0	0	0.26	0.0
Multiple myeloma	0	0.13	0.0	1	0.26	3.9	0	0.18	0.0	0	0.19	0.0	1	0.75	1.3
Leukemias	0	0.33	0.0	0	0.66	0.0	0	0.45	0.0	0	0.48	0.0	0	1.93	0.0
Chronic lymphocytic	0	0.19	0.0	0	0.37	0.0	0	0.26	0.0	0	0.27	0.0	0	1.09	0.0
Acute nonlymphocytic	0	0.07	0.0	0	0.15	0.0	0	0.10	0.0	0	0.12	0.0	0	0.45	0.0

+ ICD-7 codes = 143-144.

\* 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 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	729		509			230			106			729		
Person-yr in interval	631		1,285			792			753			3,462			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	4	6.90	0.6	17	13.45	1.3	13	8.53	1.5	7	8.74	0.8	41	37.62	1.1
All excluding site of initial cancer	4	6.87	0.6	17	13.39	1.3	13	8.49	1.5	7	8.70	0.8	41	37.45	1.1
Buccal cavity, pharynx	0	0.10	0.0	0	0.19	0.0	2	0.12	16.9*	1	0.12	8.1	3	0.53	5.6*
Lip	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
Tongue	0	0.02	0.0	0	0.03	0.0	2	0.02	93.3*	1	0.02	43.3	3	0.10	30.5*
Salivary gland	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
Gum, other mouth	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.17	0.0
Pharynx	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
Digestive system	1	2.70	0.4	8	5.12	1.6	6	3.28	1.8	0	3.35	0.0	15	14.45	1.0
Esophagus	0	0.09	0.0	2	0.15	13.2*	1	0.10	10.5	0	0.10	0.0	3	0.44	6.9*
Stomach	0	0.75	0.0	1	1.35	0.7	0	0.86	0.0	0	0.81	0.0	1	3.78	0.3
Colon	1	0.82	1.2	4	1.59	2.5	2	1.03	2.0	0	1.10	0.0	7	4.53	1.5
Rectum	0	0.45	0.0	0	0.86	0.0	0	0.55	0.0	0	0.55	0.0	0	2.40	0.0
Liver, biliary	0	0.22	0.0	1	0.44	2.3	2	0.29	6.9	0	0.31	0.0	3	1.26	2.4
Pancreas	0	0.26	0.0	0	0.52	0.0	0	0.33	0.0	0	0.36	0.0	0	1.47	0.0
Respiratory system	2	0.35	5.7	2	0.70	2.9	2	0.44	4.5	1	0.47	2.1	7	1.96	3.6*
Nasal cavities, sinuses	1	0.01	92.7*	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	1	0.06	17.7
Larynx	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.07	0.0
Trachea, bronchus, lung	1	0.29	3.4	2	0.59	3.4	2	0.37	5.4	1	0.40	2.5	6	1.65	3.6*
Female breast	0	1.34	0.0	1	2.64	0.4	0	1.66	0.0	2	1.72	1.2	3	7.35	0.4
Female genital tract	1	1.07	0.9	3	2.18	1.4	1	1.34	0.7	1	1.33	0.8	6	5.93	1.0
Cervix uteri	1	0.30	3.4	0	0.61	0.0	1	0.38	2.7	0	0.37	0.0	2	1.65	1.2
Corpus uteri	0	0.32	0.0	1	0.65	1.5	0	0.39	0.0	0	0.38	0.0	1	1.74	0.6
Uterus, NOS	0	0.04	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.18	0.0
Ovary, fallopian tubes	0	0.33	0.0	2	0.68	2.9	0	0.42	0.0	1	0.42	2.4	3	1.86	1.6
Kidney, renal pelvis, ureter	0	0.18	0.0	0	0.36	0.0	0	0.23	0.0	0	0.24	0.0	0	1.01	0.0
Bladder, other urinary	0	0.20	0.0	1	0.40	2.5	0	0.26	0.0	0	0.27	0.0	1	1.14	0.9
Melanoma of the skin	0	0.08	0.0	0	0.16	0.0	1	0.10	9.9	1	0.11	9.0	2	0.45	4.4
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	0	0.11	0.0	1	0.22	4.6	0	0.14	0.0	1	0.14	7.4	2	0.60	3.3
Thyroid gland	0	0.05	0.0	0	0.09	0.0	0	0.06	0.0	0	0.06	0.0	0	0.27	0.0
Bone	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
Connective tissue	0	0.02	0.0	0	0.04	0.0	0	0.03	0.0	0	0.02	0.0	0	0.11	0.0
Lymphatic, hematopoietic system	0	0.36	0.0	1	0.73	1.4	0	0.47	0.0	0	0.50	0.0	1	2.07	0.5
Non-Hodgkin's lymphoma	0	0.11	0.0	0	0.22	0.0	0	0.14	0.0	0	0.15	0.0	0	0.62	0.0
Hodgkin's disease	0	0.02	0.0	1	0.05	21.8	0	0.03	0.0	0	0.03	0.0	1	0.13	7.9
Multiple myeloma	0	0.07	0.0	0	0.15	0.0	0	0.10	0.0	0	0.10	0.0	0	0.42	0.0
Leukemias	0	0.16	0.0	0	0.31	0.0	0	0.20	0.0	0	0.21	0.0	0	0.88	0.0
Chronic lymphocytic	0	0.07	0.0	0	0.14	0.0	0	0.09	0.0	0	0.10	0.0	0	0.42	0.0
Acute nonlymphocytic	0	0.04	0.0	0	0.09	0.0	0	0.06	0.0	0	0.06	0.0	0	0.25	0.0

+ ICD-7 codes = 143-144.

\* P<.05.