

STOMACH
BOTH SEXES

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

Category	Male	Female	Total
No. with first primary cancer*	18,442	12,401	30,843
No. who developed a second primary cancer	321	202	523
Average age at diagnosis of first cancer, yr	67	70	68
Average yr of diagnosis of first cancer	1960	1960	1960
Person-yr of follow-up	34,997	21,908	56,905
Average follow-up, yr	1.9	1.8	1.9
Percent given radiotherapy for first cancer	4	3	4

+ ICD-7 code = 151.

* 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 stomach in Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	385	73.6
Only the first cancer	70	13.4
Only the second cancer	37	7.1
Neither first nor second cancer	31	5.9
Total second primary cancers	523	100.0

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

STOMACH
BOTH SEXES

TABLE 2C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the stomach 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	30,843			9,656			2,844			1,453			30,843		
Person-yr in interval	17,869			18,603			10,077			10,356			56,905		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	96	206.88	0.5*	167	219.28	0.8*	136	138.59	1.0	124	172.03	0.7*	523	736.79	0.7*
All excluding site of initial cancer	96	176.75	0.5*	165	191.23	0.9	136	121.59	1.1	124	153.52	0.8*	521	643.09	0.8*
Buccal cavity, pharynx	1	5.52	0.2	4	5.65	0.7	5	3.41	1.5	1	3.95	0.3	11	18.52	0.6
Lip	0	2.63	0.0	1	2.70	0.4	1	1.61	0.6	1	1.81	0.6	3	8.76	0.3
Tongue	0	0.56	0.0	0	0.56	0.0	0	0.34	0.0	0	0.37	0.0	0	1.82	0.0
Salivary gland	1	0.58	1.7	0	0.61	0.0	0	0.37	0.0	0	0.40	0.0	1	1.97	0.5
Gum, other mouth	0	0.88	0.0	1	0.91	1.1	1	0.59	1.7	0	0.78	0.0	2	3.16	0.6
Pharynx	0	0.87	0.0	2	0.86	2.3	3	0.50	6.0*	0	0.58	0.0	5	2.81	1.8
Digestive system	36	86.80	0.4*	57	87.47	0.7*	46	55.23	0.8	49	66.66	0.7*	188	296.16	0.6*
Esophagus	1	3.74	0.3	2	3.50	0.6	1	2.13	0.5	2	2.44	0.8	6	11.81	0.5
Stomach	0	30.13	0.0*	2	28.05	0.1*	0	17.00	0.0*	0	18.51	0.0*	2	93.70	0.0*
Colon	13	20.18	0.6	26	21.47	1.2	21	14.15	1.5	17	18.51	0.9	77	74.32	1.0
Rectum	8	17.44	0.5*	13	17.75	0.7	7	11.10	0.6	15	13.20	1.1	43	59.49	0.7*
Liver, biliary	5	4.66	1.1	2	5.32	0.4	3	3.58	0.8	3	4.83	0.6	13	18.40	0.7
Pancreas	8	7.30	1.1	8	8.29	1.0	13	5.46	2.4*	10	7.20	1.4	39	28.26	1.4
Respiratory system	6	25.42	0.2*	26	29.72	0.9	18	18.69	1.0	15	24.25	0.6	65	98.09	0.7*
Nasal cavities, sinuses	0	0.50	0.0	1	0.50	2.0	0	0.31	0.0	1	0.37	2.7	2	1.68	1.2
Larynx	0	1.69	0.0	0	1.90	0.0	1	1.16	0.9	2	1.45	1.4	3	6.20	0.5
Trachea, bronchus, lung	4	21.66	0.2*	25	25.60	1.0	17	16.12	1.1	10	21.08	0.5*	56	84.45	0.7*
Female breast	5	14.05	0.4*	13	14.72	0.9	8	8.88	0.9	11	10.53	1.0	37	48.18	0.8
Female genital tract	18	11.42	1.6	19	12.09	1.6	8	6.90	1.2	11	7.65	1.4	56	38.06	1.5*
Cervix uteri	2	3.36	0.6	4	3.47	1.2	5	1.83	2.7	4	1.84	2.2	15	10.50	1.4
Corpus uteri	3	3.15	1.0	2	3.44	0.6	1	1.99	0.5	6	2.24	2.7	12	10.82	1.1
Uterus, NOS	1	0.47	2.1	2	0.41	4.9	1	0.24	4.2	0	0.26	0.0	4	1.38	2.9
Ovary, fallopian tubes	10	3.45	2.9*	11	3.76	2.9*	1	2.20	0.5	1	2.54	0.4	23	11.95	1.9*
Prostate gland	10	18.66	0.5*	17	20.44	0.8	16	14.20	1.1	14	19.36	0.7	57	72.65	0.8
Testis	0	0.40	0.0	0	0.43	0.0	0	0.22	0.0	2	0.23	8.6	2	1.28	1.6
Kidney, renal pelvis, ureter	1	5.83	0.2*	6	6.48	0.9	5	4.15	1.2	0	5.31	0.0*	12	21.75	0.6*
Bladder, other urinary	8	11.48	0.7	8	13.05	0.6	14	8.58	1.6	12	11.54	1.0	42	44.64	0.9
Melanoma of the skin	1	1.62	0.6	0	1.83	0.0	1	1.14	0.9	1	1.45	0.7	3	6.05	0.5
Eye	0	0.60	0.0	1	0.64	1.6	0	0.38	0.0	0	0.43	0.0	1	2.05	0.5
Brain, central nervous system	3	2.82	1.1	2	3.19	0.6	0	1.82	0.0	0	2.06	0.0	5	9.88	0.5
Thyroid gland	1	0.87	1.1	1	0.94	1.1	1	0.59	1.7	0	0.73	0.0	3	3.14	1.0
Bone	0	0.39	0.0	0	0.40	0.0	1	0.24	4.2	0	0.27	0.0	1	1.31	0.8
Connective tissue	0	0.76	0.0	0	0.76	0.0	0	0.44	0.0	1	0.48	2.1	1	2.43	0.4
Lymphatic, hematopoietic system	4	11.81	0.3*	12	13.23	0.9	11	8.51	1.3	7	10.81	0.6	34	44.36	0.8
Non-Hodgkin's lymphoma	0	3.09	0.0	4	3.46	1.2	3	2.22	1.4	1	2.83	0.4	8	11.60	0.7
Hodgkin's disease	0	0.79	0.0	0	0.87	0.0	0	0.52	0.0	1	0.59	1.7	1	2.77	0.4
Multiple myeloma	0	2.22	0.0	2	2.56	0.8	3	1.67	1.8	1	2.15	0.5	6	8.59	0.7
Leukemias	4	5.60	0.7	6	6.21	1.0	5	4.03	1.2	3	5.15	0.6	18	20.98	0.9
Chronic lymphocytic	2	3.11	0.6	3	3.41	0.9	3	2.24	1.3	1	2.86	0.3	9	11.63	0.8
Acute nonlymphocytic	0	1.13	0.0	2	1.35	1.5	1	0.92	1.1	0	1.27	0.0	3	4.66	0.6

+ ICD-7 code = 151.

* P<.05.

STOMACH
MALES

TABLE 2D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the stomach 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	18,442			6,050			1,763			895			18,442		
Person-yr in interval	10,931			11,540			6,222			6,304			34,997		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	53	132.64	0.4*	99	142.87	0.7*	90	91.56	1.0	79	116.09	0.7*	321	483.16	0.7*
All excluding site of initial cancer	53	112.57	0.5*	98	123.70	0.8*	90	79.87	1.1	79	103.23	0.8*	320	419.36	0.8*
Buccal cavity, pharynx	0	4.44	0.0*	3	4.56	0.7	4	2.73	1.5	1	3.14	0.3	8	14.87	0.5
Lip	0	2.47	0.0	1	2.53	0.4	1	1.51	0.7	1	1.69	0.6	3	8.20	0.4
Tongue	0	0.34	0.0	0	0.35	0.0	0	0.21	0.0	0	0.22	0.0	0	1.11	0.0
Salivary gland	0	0.36	0.0	0	0.38	0.0	0	0.23	0.0	0	0.26	0.0	0	1.24	0.0
Gum, other mouth	0	0.59	0.0	1	0.61	1.6	0	0.39	0.0	0	0.50	0.0	1	2.09	0.5
Pharynx	0	0.68	0.0	1	0.68	1.5	3	0.40	7.5*	0	0.46	0.0	4	2.22	1.8
Digestive system	23	56.14	0.4*	35	57.15	0.6*	31	36.15	0.9	34	43.88	0.8	123	193.32	0.6*
Esophagus	1	2.73	0.4	2	2.57	0.8	0	1.54	0.0	1	1.74	0.6	4	8.58	0.5
Stomach	0	20.07	0.0*	1	19.17	0.1*	0	11.69	0.0*	0	12.86	0.0*	1	63.80	0.0*
Colon	7	11.78	0.6	16	12.58	1.3	13	8.35	1.6	12	11.11	1.1	48	43.82	1.1
Rectum	5	12.40	0.4*	8	12.70	0.6	6	7.96	0.8	10	9.52	1.1	29	42.59	0.7*
Liver, biliary	3	2.49	1.2	0	2.86	0.0	3	1.94	1.5	3	2.68	1.1	9	9.97	0.9
Pancreas	6	4.84	1.2	6	5.51	1.1	9	3.62	2.5*	6	4.78	1.3	27	18.76	1.4
Respiratory system	5	22.29	0.2*	22	26.22	0.8	17	16.46	1.0	13	21.37	0.6	57	86.34	0.7*
Nasal cavities, sinuses	0	0.38	0.0	1	0.39	2.5	0	0.24	0.0	1	0.29	3.5	2	1.30	1.5
Larynx	0	1.56	0.0	0	1.77	0.0	1	1.08	0.9	2	1.35	1.5	3	5.76	0.5
Trachea, bronchus, lung	3	19.16	0.2*	21	22.73	0.9	16	14.27	1.1	8	18.65	0.4*	48	74.80	0.6*
Prostate gland	10	18.66	0.5*	17	20.44	0.8	16	14.20	1.1	14	19.36	0.7	57	72.65	0.8
Testis	0	0.40	0.0	0	0.43	0.0	0	0.22	0.0	2	0.23	8.6	2	1.28	1.6
Kidney, renal pelvis, ureter	0	4.01	0.0*	2	4.50	0.4	3	2.90	1.0	0	3.77	0.0*	5	15.17	0.3*
Bladder, other urinary	6	9.52	0.6	7	10.89	0.6	11	7.17	1.5	11	9.73	1.1	35	37.31	0.9
Melanoma of the skin	0	0.92	0.0	0	1.04	0.0	0	0.65	0.0	0	0.83	0.0	0	3.45	0.0
Eye	0	0.41	0.0	1	0.43	2.3	0	0.26	0.0	0	0.30	0.0	1	1.40	0.7
Brain, central nervous system	3	1.80	1.7	1	2.06	0.5	0	1.16	0.0	0	1.29	0.0	4	6.31	0.6
Thyroid gland	0	0.36	0.0	0	0.40	0.0	0	0.25	0.0	0	0.31	0.0	0	1.33	0.0
Bone	0	0.26	0.0	0	0.27	0.0	0	0.16	0.0	0	0.18	0.0	0	0.88	0.0
Connective tissue	0	0.51	0.0	0	0.51	0.0	0	0.30	0.0	1	0.33	3.0	1	1.65	0.6
Lymphatic, hematopoietic system	4	8.19	0.5	11	9.19	1.2	6	5.91	1.0	3	7.55	0.4	24	30.84	0.8
Non-Hodgkin's lymphoma	0	2.03	0.0	4	2.29	1.7	2	1.46	1.4	0	1.86	0.0	6	7.64	0.8
Hodgkin's disease	0	0.56	0.0	0	0.62	0.0	0	0.37	0.0	1	0.41	2.4	1	1.96	0.5
Multiple myeloma	0	1.50	0.0	2	1.73	1.2	2	1.13	1.8	1	1.47	0.7	5	5.82	0.9
Leukemias	4	4.02	1.0	5	4.46	1.1	2	2.90	0.7	1	3.74	0.3	12	15.12	0.8
Chronic lymphocytic	2	2.34	0.9	3	2.57	1.2	1	1.68	0.6	1	2.16	0.5	7	8.75	0.8
Acute nonlymphocytic	0	0.78	0.0	1	0.93	1.1	1	0.64	1.6	0	0.89	0.0	2	3.24	0.6

+ ICD-7 code = 151.

* P<.05.

STOMACH
FEMALES

TABLE 2E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the stomach among 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	
No. starting interval	12,401			3,606			1,081			558			12,401		
Person-yr in interval	6,938			7,063			3,855			4,052			21,908		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	43	74.24	0.6*	68	76.41	0.9	46	47.03	1.0	45	55.94	0.8	202	253.63	0.8*
All excluding site of initial cancer	43	64.18	0.7*	67	67.53	1.0	46	41.72	1.1	45	50.29	0.9	201	223.73	0.9
Buccal cavity, pharynx	1	1.08	0.9	1	1.09	0.9	1	0.68	1.5	0	0.81	0.0	3	3.65	0.8
Lip	0	0.16	0.0	0	0.17	0.0	0	0.10	0.0	0	0.12	0.0	0	0.56	0.0
Tongue	0	0.22	0.0	0	0.21	0.0	0	0.13	0.0	0	0.15	0.0	0	0.71	0.0
Salivary gland	1	0.22	4.5	0	0.23	0.0	0	0.14	0.0	0	0.14	0.0	1	0.73	1.4
Gum, other mouth	0	0.29	0.0	0	0.30	0.0	1	0.20	4.9	0	0.28	0.0	1	1.07	0.9
Pharynx	0	0.19	0.0	1	0.18	5.5	0	0.10	0.0	0	0.12	0.0	1	0.59	1.7
Digestive system	13	30.66	0.4*	22	30.32	0.7	15	19.08	0.8	15	22.78	0.7	65	102.84	0.6*
Esophagus	0	1.01	0.0	0	0.93	0.0	1	0.59	1.7	1	0.70	1.4	2	3.23	0.6
Stomach	0	10.06	0.0*	1	8.88	0.1*	0	5.31	0.0*	0	5.65	0.0*	1	29.90	0.0*
Colon	6	8.40	0.7	10	8.89	1.1	8	5.80	1.4	5	7.40	0.7	29	30.50	1.0
Rectum	3	5.04	0.6	5	5.05	1.0	1	3.14	0.3	5	3.68	1.4	14	16.90	0.8
Liver, biliary	2	2.17	0.9	2	2.46	0.8	0	1.64	0.0	0	2.15	0.0	4	8.43	0.5
Pancreas	2	2.46	0.8	2	2.78	0.7	4	1.84	2.2	4	2.42	1.7	12	9.50	1.3
Respiratory system	1	3.13	0.3	4	3.50	1.1	1	2.23	0.4	2	2.88	0.7	8	11.75	0.7
Nasal cavities, sinuses	0	0.12	0.0	0	0.11	0.0	0	0.07	0.0	0	0.08	0.0	0	0.38	0.0
Larynx	0	0.13	0.0	0	0.13	0.0	0	0.08	0.0	0	0.10	0.0	0	0.44	0.0
Trachea, bronchus, lung	1	2.50	0.4	4	2.87	1.4	1	1.85	0.5	2	2.43	0.8	8	9.65	0.8
Female breast	5	14.05	0.4*	13	14.72	0.9	8	8.88	0.9	11	10.53	1.0	37	48.18	0.8
Female genital tract	18	11.42	1.6	19	12.09	1.6	8	6.90	1.2	11	7.65	1.4	56	38.06	1.5*
Cervix uteri	2	3.36	0.6	4	3.47	1.2	5	1.83	2.7	4	1.84	2.2	15	10.50	1.4
Corpus uteri	3	3.15	1.0	2	3.44	0.6	1	1.99	0.5	6	2.24	2.7	12	10.82	1.1
Uterus, NOS	1	0.47	2.1	2	0.41	4.9	1	0.24	4.2	0	0.26	0.0	4	1.38	2.9
Ovary, fallopian tubes	10	3.45	2.9*	11	3.76	2.9*	1	2.20	0.5	1	2.54	0.4	23	11.95	1.9*
Kidney, renal pelvis, ureter	1	1.82	0.6	4	1.98	2.0	2	1.25	1.6	0	1.54	0.0	7	6.58	1.1
Bladder, other urinary	2	1.96	1.0	1	2.16	0.5	3	1.41	2.1	1	1.81	0.6	7	7.33	1.0
Melanoma of the skin	1	0.70	1.4	0	0.79	0.0	1	0.49	2.0	1	0.62	1.6	3	2.60	1.2
Eye	0	0.19	0.0	0	0.21	0.0	0	0.12	0.0	0	0.13	0.0	0	0.65	0.0
Brain, central nervous system	0	1.02	0.0	1	1.13	0.9	0	0.66	0.0	0	0.77	0.0	1	3.57	0.3
Thyroid gland	1	0.51	1.9	1	0.54	1.8	1	0.34	2.9	0	0.42	0.0	3	1.81	1.7
Bone	0	0.13	0.0	0	0.13	0.0	1	0.08	13.0	0	0.09	0.0	1	0.43	2.3
Connective tissue	0	0.25	0.0	0	0.25	0.0	0	0.14	0.0	0	0.15	0.0	0	0.78	0.0
Lymphatic, hematopoietic system	0	3.62	0.0	1	4.04	0.2	5	2.60	1.9	4	3.26	1.2	10	13.52	0.7
Non-Hodgkin's lymphoma	0	1.06	0.0	0	1.17	0.0	1	0.76	1.3	1	0.97	1.0	2	3.96	0.5
Hodgkin's disease	0	0.23	0.0	0	0.25	0.0	0	0.15	0.0	0	0.18	0.0	0	0.81	0.0
Multiple myeloma	0	0.72	0.0	0	0.83	0.0	1	0.54	1.9	0	0.68	0.0	1	2.77	0.4
Leukemias	0	1.58	0.0	1	1.75	0.6	3	1.13	2.7	2	1.41	1.4	6	5.86	1.0
Chronic lymphocytic	0	0.77	0.0	0	0.84	0.0	2	0.56	3.6	0	0.70	0.0	2	2.88	0.7
Acute nonlymphocytic	0	0.35	0.0	1	0.42	2.4	0	0.28	0.0	0	0.38	0.0	1	1.42	0.7

+ ICD-7 code = 151.

* P<.05.