

COLON
BOTH SEXES

TABLE 4A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial cancer of the colon or rectosigmoid junction, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	13,093	16,397	29,490
No. who developed a second primary cancer	584	705	1,289
Average age at diagnosis of first cancer, yr	67	67	67
Average yr of diagnosis of first cancer	1966	1966	1966
Person-yr of follow-up	45,525	64,001	109,526
Average follow-up, yr	3.5	3.9	3.8
Percent given radiotherapy for first cancer	4	4	4

+ ICD-7 code = 153.

* 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 colon or rectosigmoid junction in Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	1,060	82.2
Only the first cancer	147	11.4
Only the second cancer	63	4.9
Neither first nor second cancer	19	1.5
Total second primary cancers	1,289	100.0

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

COLON
BOTH SEXES

TABLE 4C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the colon or rectosigmoid junction 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	
No. starting interval	29,490			16,825			6,741			3,399			29,490		
Person-yr in interval	22,204			40,549			23,982			22,792			109,526		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	172	256.27	0.7*	466	484.15	1.0	311	307.62	1.0	340	321.94	1.1	1,289	1,369.98	0.9*
All excluding site of initial cancer	160	230.22	0.7*	431	434.11	1.0	284	274.54	1.0	304	285.02	1.1	1,179	1,223.90	1.0
Buccal cavity, pharynx	3	5.76	0.5	14	10.60	1.3	6	6.49	0.9	5	6.40	0.8	28	29.24	1.0
Lip	1	2.47	0.4	7	4.49	1.6	3	2.66	1.1	2	2.44	0.8	13	12.06	1.1
Tongue	1	0.61	1.6	2	1.13	1.8	1	0.70	1.4	0	0.72	0.0	4	3.17	1.3
Salivary gland	0	0.67	0.0	1	1.23	0.8	0	0.76	0.0	0	0.71	0.0	1	3.37	0.3
Gum, other mouth	1	1.10	0.9	0	2.08	0.0	2	1.36	1.5	2	1.53	1.3	5	6.05	0.8
Pharynx	0	0.92	0.0	4	1.68	2.4	0	1.00	0.0	1	0.97	1.0	5	4.59	1.1
Digestive system	62	96.45	0.6*	151	180.22	0.8*	93	115.70	0.8*	137	121.30	1.1	443	513.66	0.9*
Esophagus	1	3.57	0.3	2	6.45	0.3	2	4.04	0.5	5	4.07	1.2	10	18.12	0.6
Stomach	14	27.83	0.5*	34	49.86	0.7*	26	31.14	0.8	23	30.12	0.8	97	138.93	0.7*
Colon	12	26.05	0.5*	35	50.04	0.7*	27	33.08	0.8	36	36.92	1.0	110	146.08	0.8*
Rectum	14	19.05	0.7	48	35.51	1.4	16	22.37	0.7	37	22.70	1.6*	115	99.64	1.2
Liver, biliary	3	6.74	0.4	9	13.22	0.7	7	8.85	0.8	12	10.07	1.2	31	38.87	0.8
Pancreas	12	9.80	1.2	17	19.05	0.9	12	12.44	1.0	19	13.68	1.4	60	54.96	1.1
Respiratory system	10	31.92	0.3*	50	60.66	0.8	39	36.80	1.1	48	36.92	1.3	147	166.31	0.9
Nasal cavities, sinuses	0	0.55	0.0	0	1.00	0.0	0	0.62	0.0	2	0.61	3.3	2	2.78	0.7
Larynx	1	1.95	0.5	6	3.66	1.6	2	2.18	0.9	5	2.10	2.4	14	9.89	1.4
Trachea, bronchus, lung	8	27.67	0.3*	44	52.70	0.8	37	31.91	1.2	40	32.10	1.2	129	144.37	0.9
Female breast	13	24.79	0.5*	40	47.35	0.8	41	31.11	1.3	37	35.49	1.0	131	138.74	0.9
Female genital tract	35	21.28	1.6*	99	40.25	2.5*	44	25.44	1.7*	27	27.21	1.0	205	114.19	1.8*
Cervix uteri	5	6.26	0.8	10	11.54	0.9	8	6.95	1.2	10	6.81	1.5	33	31.56	1.0
Corpus uteri	1	6.28	0.2*	30	12.04	2.5*	19	7.65	2.5*	10	8.29	1.2	60	34.25	1.8*
Uterus, NOS	2	0.55	3.7	3	0.98	3.1	1	0.65	1.5	0	0.71	0.0	6	2.88	2.1
Ovary, fallopian tubes	26	6.60	3.9*	51	12.65	4.0*	13	8.13	1.6	3	8.95	0.3*	93	36.33	2.6*
Prostate gland	17	19.46	0.9	25	37.42	0.7*	28	23.72	1.2	23	22.87	1.0	93	103.47	0.9
Testis	0	0.40	0.0	0	0.72	0.0	0	0.40	0.0	0	0.34	0.0	0	1.86	0.0
Kidney, renal pelvis, ureter	7	7.54	0.9	11	14.42	0.8	6	9.18	0.7	6	9.69	0.6	30	40.82	0.7
Bladder, other urinary	9	14.34	0.6	20	27.54	0.7	21	17.37	1.2	14	18.00	0.8	64	77.25	0.8
Melanoma of the skin	1	2.55	0.4	7	4.89	1.4	2	3.11	0.6	4	3.37	1.2	14	13.91	1.0
Eye	0	0.71	0.0	2	1.31	1.5	0	0.82	0.0	2	0.81	2.5	4	3.65	1.1
Brain, central nervous system	3	3.99	0.8	8	7.51	1.1	6	4.54	1.3	4	4.56	0.9	21	20.61	1.0
Thyroid gland	0	1.23	0.0	1	2.35	0.4	4	1.53	2.6	2	1.71	1.2	7	6.82	1.0
Bone	0	0.43	0.0	0	0.79	0.0	1	0.48	2.1	1	0.47	2.1	2	2.17	0.9
Connective tissue	0	0.83	0.0	4	1.50	2.7	2	0.92	2.2	0	0.89	0.0	6	4.14	1.4
Lymphatic, hematopoietic system	10	15.16	0.7	28	29.21	1.0	15	18.70	0.8	29	19.81	1.5	82	82.87	1.0
Non-Hodgkin's lymphoma	2	4.16	0.5	10	8.00	1.3	4	5.14	0.8	9	5.53	1.6	25	22.83	1.1
Hodgkin's disease	0	0.97	0.0	1	1.84	0.5	1	1.12	0.9	1	1.12	0.9	3	5.05	0.6
Multiple myeloma	2	2.95	0.7	3	5.73	0.5	2	3.71	0.5	4	3.97	1.0	11	16.37	0.7
Leukemias	6	6.94	0.9	14	13.36	1.0	8	8.57	0.9	15	9.02	1.7	43	37.87	1.1
Chronic lymphocytic	0	3.62	0.0	5	6.94	0.7	4	4.48	0.9	5	4.69	1.1	14	19.73	0.7
Acute nonlymphocytic	4	1.76	2.3	6	3.48	1.7	1	2.25	0.4	0	2.50	0.0	11	10.00	1.1

+ ICD-7 code = 153.

* P<.05.

COLON
MALES

TABLE 4D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the colon or rectosigmoid junction 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	13,093			7,478			2,843			1,338			13,093		
Person-yr in interval	9,852			17,627			9,847			8,199			45,525		
All second cancers	80	132.30	0.6*	207	247.24	0.8*	137	150.00	0.9	160	139.69	1.1	584	669.23	0.9*
All excluding site of initial cancer	74	120.50	0.6*	191	225.03	0.8*	129	136.17	0.9	147	126.42	1.2	541	608.12	0.9*
Buccal cavity, pharynx	3	4.05	0.7	11	7.34	1.5	4	4.30	0.9	4	3.82	1.0	22	19.50	1.1
Lip	1	2.20	0.5	5	3.98	1.3	3	2.32	1.3	2	2.04	1.0	11	10.54	1.0
Tongue	1	0.30	3.3	2	0.55	3.6	0	0.31	0.0	0	0.26	0.0	3	1.43	2.1
Salivary gland	0	0.33	0.0	0	0.60	0.0	0	0.36	0.0	0	0.31	0.0	0	1.60	0.0
Gum, other mouth	1	0.59	1.7	0	1.08	0.0	1	0.65	1.5	1	0.62	1.6	3	2.93	1.0
Pharynx	0	0.63	0.0	4	1.14	3.5	0	0.65	0.0	1	0.58	1.7	5	3.01	1.7
Digestive system	36	50.82	0.7*	79	93.47	0.8	47	56.71	0.8	62	51.52	1.2	224	252.51	0.9
Esophagus	0	2.25	0.0	1	3.99	0.3	2	2.34	0.9	3	2.04	1.5	6	10.61	0.6
Stomach	7	16.05	0.4*	22	28.71	0.8	14	17.12	0.8	13	14.65	0.9	56	76.52	0.7*
Colon	6	11.80	0.5	16	22.21	0.7	8	13.83	0.6	13	13.27	1.0	43	61.11	0.7*
Rectum	11	11.24	1.0	26	20.66	1.3	10	12.42	0.8	19	11.19	1.7*	66	55.51	1.2
Liver, biliary	2	2.77	0.7	4	5.31	0.8	4	3.32	1.2	3	3.23	0.9	13	14.62	0.9
Pancreas	7	5.16	1.4	7	9.82	0.7	7	6.04	1.2	10	5.72	1.7	31	26.74	1.2
Respiratory system	6	25.49	0.2*	38	47.99	0.8	24	28.31	0.8	39	26.70	1.5*	107	128.49	0.8
Nasal cavities, sinuses	0	0.36	0.0	0	0.65	0.0	0	0.39	0.0	1	0.35	2.9	1	1.75	0.6
Larynx	0	1.70	0.0	5	3.17	1.6	2	1.86	1.1	4	1.74	2.3	11	8.47	1.3
Trachea, bronchus, lung	6	22.24	0.3*	33	41.94	0.8	22	24.68	0.9	33	23.33	1.4	94	112.18	0.8
Prostate gland	17	19.46	0.9	25	37.42	0.7*	28	23.72	1.2	23	22.87	1.0	93	103.47	0.9
Testis	0	0.40	0.0	0	0.72	0.0	0	0.40	0.0	0	0.34	0.0	0	1.86	0.0
Kidney, renal pelvis, ureter	3	4.23	0.7	8	7.97	1.0	5	4.84	1.0	4	4.59	0.9	20	21.62	0.9
Bladder, other urinary	6	10.70	0.6	16	20.36	0.8	12	12.45	1.0	11	12.01	0.9	45	55.52	0.8
Melanoma of the skin	1	1.02	1.0	5	1.91	2.6	1	1.16	0.9	1	1.09	0.9	8	5.17	1.5
Eye	0	0.38	0.0	0	0.69	0.0	0	0.41	0.0	0	0.37	0.0	0	1.85	0.0
Brain, central nervous system	1	1.85	0.5	6	3.38	1.8	4	1.92	2.1	1	1.70	0.6	12	8.86	1.4
Thyroid gland	0	0.36	0.0	0	0.67	0.0	2	0.40	5.0	0	0.37	0.0	2	1.80	1.1
Bone	0	0.23	0.0	0	0.41	0.0	0	0.24	0.0	0	0.21	0.0	0	1.09	0.0
Connective tissue	0	0.44	0.0	3	0.78	3.8	2	0.46	4.3	0	0.40	0.0	5	2.08	2.4
Lymphatic, hematopoietic system	6	8.45	0.7	13	16.01	0.8	7	9.74	0.7	15	9.09	1.7	41	43.28	0.9
Non-Hodgkin's lymphoma	2	2.15	0.9	6	4.05	1.5	2	2.45	0.8	5	2.28	2.2	15	10.93	1.4
Hodgkin's disease	0	0.54	0.0	0	1.00	0.0	0	0.58	0.0	0	0.52	0.0	0	2.64	0.0
Multiple myeloma	1	1.59	0.6	2	3.03	0.7	2	1.86	1.1	2	1.74	1.1	7	8.22	0.9
Leukemias	3	4.09	0.7	5	7.77	0.6	3	4.76	0.6	8	4.46	1.8	19	21.07	0.9
Chronic lymphocytic	0	2.32	0.0	2	4.39	0.5	2	2.71	0.7	1	2.53	0.4	5	11.95	0.4*
Acute nonlymphocytic	2	0.95	2.1	2	1.85	1.1	0	1.14	0.0	0	1.12	0.0	4	5.06	0.8

+ ICD-7 code = 153.

* P<.05.

COLON
FEMALES

TABLE 4E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the colon or rectosigmoid junction 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	16,397			9,347			3,898			2,061			16,397		
Person-yr in interval	12,352			22,922			14,135			14,592			64,001		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	92	123.97	0.7*	259	236.91	1.1	174	157.62	1.1	180	182.25	1.0	705	700.75	1.0
All excluding site of initial cancer	86	109.72	0.8*	240	209.08	1.1*	155	138.37	1.1	157	158.60	1.0	638	615.78	1.0
Buccal cavity, pharynx	0	1.71	0.0	3	3.26	0.9	2	2.19	0.9	1	2.58	0.4	6	9.74	0.6
Lip	0	0.27	0.0	2	0.51	3.9	0	0.34	0.0	0	0.40	0.0	2	1.52	1.3
Tongue	0	0.31	0.0	0	0.58	0.0	1	0.39	2.6	0	0.46	0.0	1	1.74	0.6
Salivary gland	0	0.34	0.0	1	0.63	1.6	0	0.40	0.0	0	0.40	0.0	1	1.77	0.6
Gum, other mouth	0	0.51	0.0	0	1.00	0.0	1	0.71	1.4	1	0.91	1.1	2	3.12	0.6
Pharynx	0	0.29	0.0	0	0.54	0.0	0	0.35	0.0	0	0.39	0.0	0	1.58	0.0
Digestive system	26	45.63	0.6*	72	86.75	0.8	46	58.99	0.8	75	69.78	1.1	219	261.15	0.8*
Esophagus	1	1.32	0.8	1	2.46	0.4	0	1.70	0.0	2	2.03	1.0	4	7.51	0.5
Stomach	7	11.78	0.6	12	21.15	0.6*	12	14.02	0.9	10	15.47	0.6	41	62.41	0.7*
Colon	6	14.25	0.4*	19	27.83	0.7	19	19.25	1.0	23	23.65	1.0	67	84.97	0.8
Rectum	3	7.81	0.4	22	14.85	1.5	6	9.95	0.6	18	11.51	1.6	49	44.13	1.1
Liver, biliary	1	3.97	0.3	5	7.91	0.6	3	5.53	0.5	9	6.84	1.3	18	24.25	0.7
Pancreas	5	4.64	1.1	10	9.23	1.1	5	6.40	0.8	9	7.96	1.1	29	28.22	1.0
Respiratory system	4	6.43	0.6	12	12.67	0.9	15	8.49	1.8	9	10.22	0.9	40	37.82	1.1
Nasal cavities, sinuses	0	0.19	0.0	0	0.35	0.0	0	0.23	0.0	1	0.26	3.9	1	1.03	1.0
Larynx	1	0.25	3.9	1	0.49	2.0	0	0.32	0.0	1	0.36	2.8	3	1.42	2.1
Trachea, bronchus, lung	2	5.43	0.4	11	10.76	1.0	15	7.23	2.1*	7	8.77	0.8	35	32.19	1.1
Female breast	13	24.79	0.5*	40	47.35	0.8	41	31.11	1.3	37	35.49	1.0	131	138.74	0.9
Female genital tract	35	21.28	1.6*	99	40.25	2.5*	44	25.44	1.7*	27	27.21	1.0	205	114.19	1.8*
Cervix uteri	5	6.26	0.8	10	11.54	0.9	8	6.95	1.2	10	6.81	1.5	33	31.56	1.0
Corpus uteri	1	6.28	0.2*	30	12.04	2.5*	19	7.65	2.5*	10	8.29	1.2	60	34.25	1.8*
Uterus, NOS	2	0.55	3.7	3	0.98	3.1	1	0.65	1.5	0	0.71	0.0	6	2.88	2.1
Ovary, fallopian tubes	26	6.60	3.9*	51	12.65	4.0*	13	8.13	1.6	3	8.95	0.3*	93	36.33	2.6*
Kidney, renal pelvis, ureter	4	3.31	1.2	3	6.45	0.5	1	4.34	0.2	2	5.10	0.4	10	19.20	0.5*
Bladder, other urinary	3	3.64	0.8	4	7.18	0.6	9	4.92	1.8	3	5.99	0.5	19	21.73	0.9
Melanoma of the skin	0	1.53	0.0	2	2.98	0.7	1	1.95	0.5	3	2.28	1.3	6	8.74	0.7
Eye	0	0.33	0.0	2	0.62	3.2	0	0.41	0.0	2	0.44	4.5	4	1.80	2.2
Brain, central nervous system	2	2.14	0.9	2	4.13	0.5	2	2.62	0.8	3	2.86	1.1	9	11.75	0.8
Thyroid gland	0	0.87	0.0	1	1.68	0.6	2	1.13	1.8	2	1.34	1.5	5	5.02	1.0
Bone	0	0.20	0.0	0	0.38	0.0	1	0.24	4.1	1	0.26	3.8	2	1.08	1.8
Connective tissue	0	0.39	0.0	1	0.72	1.4	0	0.46	0.0	0	0.49	0.0	1	2.06	0.5
Lymphatic, hematopoietic system	4	6.71	0.6	15	13.20	1.1	8	8.96	0.9	14	10.72	1.3	41	39.59	1.0
Non-Hodgkin's lymphoma	0	2.01	0.0	4	3.95	1.0	2	2.69	0.7	4	3.25	1.2	10	11.90	0.8
Hodgkin's disease	0	0.43	0.0	1	0.84	1.2	1	0.54	1.8	1	0.60	1.7	3	2.41	1.2
Multiple myeloma	1	1.36	0.7	1	2.70	0.4	0	1.85	0.0	2	2.23	0.9	4	8.15	0.5
Leukemias	3	2.85	1.1	9	5.59	1.6	5	3.81	1.3	7	4.56	1.5	24	16.80	1.4
Chronic lymphocytic	0	1.30	0.0	3	2.55	1.2	2	1.77	1.1	4	2.16	1.8	9	7.78	1.2
Acute nonlymphocytic	2	0.81	2.5	4	1.63	2.5	1	1.11	0.9	0	1.38	0.0	7	4.94	1.4

+ ICD-7 code = 153.

* P<.05.