

RECTUM
BOTH SEXES

TABLE 5A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the rectum, rectosigmoid junction, or anus, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	8,557	6,903	15,460
No. who developed a second primary cancer	582	370	952
Average age at diagnosis of first cancer, yr	64	65	65
Average yr of diagnosis of first cancer	1964	1964	1964
Person-yr of follow-up	35,009	33,660	68,668
Average follow-up, yr	4.1	4.9	4.4
Percent given radiotherapy for first cancer	10.2	9.0	9.6

+ ICD-O code = 154.

* 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 5B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the rectum, rectosigmoid junction, or anus in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	847	89.0
Only the first cancer	87	9.2
Only the second cancer	13	1.4
Neither first nor second cancer	5	0.5
Total second primary cancers	952	100.0

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

RECTUM
BOTH SEXES

TABLE 5C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the rectum, rectosigmoid junction, or anus 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	15,460			11,091			4,382			2,172			15,460		
Person-yr in interval	10,733			27,049			15,642			15,245			68,668		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	122	129.45	0.9	320	341.80	0.9	217	220.84	1.0	293	249.42	1.2*	952	940.91	1.0
All excluding site of initial cancer	119	120.98	1.0	310	319.78	1.0	215	206.78	1.0	287	233.79	1.2*	931	880.76	1.1
Buccal cavity, pharynx	1	5.03	0.2	9	12.83	0.7	9	7.74	1.2	8	7.67	1.0	27	33.24	0.8
Lip	0	0.87	0.0	0	2.11	0.0	2	1.26	1.6	1	1.20	0.8	3	5.43	0.6
Tongue	0	1.00	0.0	2	2.55	0.8	1	1.52	0.7	1	1.49	0.7	4	6.56	0.6
Salivary gland	1	0.31	3.2	0	0.82	0.0	0	0.52	0.0	2	0.59	3.4	3	2.25	1.3
Gum, other mouth	0	1.44	0.0	3	3.71	0.8	5	2.27	2.2	3	2.29	1.3	11	9.71	1.1
Pharynx	0	1.20	0.0	3	3.12	1.0	1	1.87	0.5	1	1.81	0.6	5	8.00	0.6
Digestive system	38	42.15	0.9	98	109.94	0.9	77	71.25	1.1	114	81.26	1.4*	327	304.42	1.1
Esophagus	2	2.15	0.9	5	5.47	0.9	2	3.32	0.6	5	3.30	1.5	14	14.23	1.0
Stomach	5	7.22	0.7	10	17.91	0.6	7	11.08	0.6	12	11.66	1.0	34	47.84	0.7*
Colon	25	16.92	1.5	60	45.16	1.3*	57	30.16	1.9*	80	36.17	2.2*	222	128.33	1.7*
Rectum	3	8.47	0.4	10	22.02	0.5*	2	14.06	0.1*	6	15.63	0.4*	21	60.15	0.3*
Liver, biliary	0	2.42	0.0	7	6.31	1.1	2	4.12	0.5	4	4.75	0.8	13	17.58	0.7
Pancreas	3	4.21	0.7	4	11.12	0.4*	6	7.29	0.8	6	8.41	0.7	19	31.01	0.6*
Respiratory system	12	19.01	0.6	40	50.84	0.8	39	32.12	1.2	32	33.95	0.9	123	135.84	0.9
Nasal cavities, sinuses	0	0.26	0.0	0	0.67	0.0	0	0.42	0.0	2	0.45	4.4	2	1.81	1.1
Larynx	2	2.02	1.0	5	5.22	1.0	4	3.12	1.3	3	2.98	1.0	14	13.34	1.0
Trachea, bronchus, lung	10	16.54	0.6	35	44.47	0.8	35	28.29	1.2	27	30.20	0.9	107	119.43	0.9
Female breast	10	11.70	0.9	30	31.66	0.9	12	20.68	0.6	39	24.78	1.6*	91	88.77	1.0
Female genital tract	10	7.51	1.3	21	19.92	1.1	13	12.54	1.0	18	13.97	1.3	62	53.91	1.2
Cervix uteri	1	1.48	0.7	1	3.71	0.3	4	2.19	1.8	3	2.16	1.4	9	9.53	0.9
Corpus uteri	2	2.94	0.7	10	8.10	1.2	5	5.21	1.0	5	6.02	0.8	22	22.26	1.0
Uterus, NOS	1	0.61	1.6	1	1.46	0.7	0	0.85	0.0	1	0.75	1.3	3	3.67	0.8
Ovary, fallopian tubes	6	2.02	3.0*	8	5.42	1.5	2	3.46	0.6	6	3.96	1.5	22	14.85	1.5
Prostate gland	27	15.06	1.8*	56	39.83	1.4*	32	26.76	1.2	33	31.09	1.1	148	112.67	1.3*
Testis	1	0.12	8.2	0	0.29	0.0	0	0.15	0.0	0	0.12	0.0	1	0.69	1.5
Kidney, renal pelvis, ureter	4	2.76	1.5	7	7.29	1.0	2	4.65	0.4	3	5.02	0.6	16	19.71	0.8
Bladder, other urinary	8	7.26	1.1	28	19.27	1.5	8	12.65	0.6	16	14.55	1.1	60	53.69	1.1
Melanoma of the skin	1	1.32	0.8	1	3.49	0.3	0	2.18	0.0	3	2.42	1.2	5	9.39	0.5
Eye	2	0.20	9.9*	0	0.52	0.0	0	0.32	0.0	0	0.34	0.0	2	1.38	1.4
Brain, central nervous system	0	1.25	0.0	3	3.32	0.9	0	2.00	0.0	1	2.02	0.5	4	8.58	0.5
Thyroid gland	0	0.51	0.0	0	1.36	0.0	1	0.85	1.2	1	0.92	1.1	2	3.63	0.6
Bone	0	0.20	0.0	1	0.48	2.1	0	0.28	0.0	0	0.27	0.0	1	1.23	0.8
Connective tissue	0	0.60	0.0	2	1.55	1.3	2	0.98	2.0	0	1.11	0.0	4	4.24	0.9
Lymphatic, hematopoietic system	5	8.36	0.6	22	22.37	1.0	17	14.73	1.2	20	17.30	1.2	64	62.71	1.0
Non-Hodgkin's lymphoma	3	2.82	1.1	4	7.59	0.5	2	4.94	0.4	7	5.70	1.2	16	21.04	0.8
Hodgkin's disease	0	0.58	0.0	1	1.49	0.7	1	0.90	1.1	0	0.91	0.0	2	3.88	0.5
Multiple myeloma	1	1.33	0.8	7	3.65	1.9	4	2.45	1.6	4	3.02	1.3	16	10.44	1.5
Leukemias	1	3.61	0.3	10	9.61	1.0	10	6.43	1.6	9	7.67	1.2	30	27.30	1.1
Chronic lymphocytic	0	1.12	0.0	1	3.01	0.3	5	2.04	2.4	1	2.51	0.4	7	8.67	0.8
Acute nonlymphocytic	1	1.07	0.9	4	2.94	1.4	2	2.00	1.0	3	2.50	1.2	10	8.51	1.2

+ ICD-O code = 154.

* P<.05.

RECTUM
MALES

TABLE 5D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the rectum, rectosigmoid junction, or anus 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	8,557			6,018			2,265			1,073			8,557		
Person-yr in interval	5,885			14,362			7,890			6,871			35,008		
All second cancers	75	82.57	0.9	214	214.48	1.0	133	136.05	1.0	160	144.93	1.1	582	577.65	1.0
All excluding site of initial cancer	75	76.95	1.0	205	200.19	1.0	131	127.21	1.0	157	135.86	1.2	568	539.85	1.1
Buccal cavity, pharynx	1	4.24	0.2	8	10.65	0.8	8	6.32	1.3	7	5.96	1.2	24	27.15	0.9
Lip	0	0.81	0.0	0	1.97	0.0	2	1.16	1.7	1	1.08	0.9	3	5.02	0.6
Tongue	0	0.84	0.0	2	2.10	1.0	1	1.24	0.8	1	1.14	0.9	4	5.32	0.8
Salivary gland	1	0.21	4.8	0	0.55	0.0	0	0.34	0.0	2	0.37	5.4	3	1.47	2.0
Gum, other mouth	0	1.17	0.0	3	2.95	1.0	5	1.76	2.8	2	1.66	1.2	10	7.54	1.3
Pharynx	0	1.03	0.0	2	2.65	0.8	0	1.58	0.0	1	1.48	0.7	3	6.74	0.4
Digestive system	21	26.98	0.8	64	68.75	0.9	44	43.06	1.0	63	45.23	1.4*	192	183.90	1.0
Esophagus	1	1.82	0.6	5	4.58	1.1	1	2.73	0.4	5	2.56	2.0	12	11.68	1.0
Stomach	4	5.16	0.8	5	12.53	0.4*	2	7.52	0.3*	6	7.46	0.8	17	32.65	0.5*
Colon	14	9.85	1.4	38	25.70	1.5*	34	16.64	2.0*	43	18.43	2.3*	129	70.58	1.8*
Rectum	0	5.62	0.0*	9	14.29	0.6	2	8.84	0.2*	3	9.07	0.3*	14	37.80	0.4*
Liver, biliary	0	1.37	0.0	2	3.50	0.6	1	2.21	0.5	1	2.37	0.4	4	9.44	0.4
Pancreas	2	2.71	0.7	4	6.98	0.6	4	4.41	0.9	4	4.63	0.9	14	18.72	0.7
Respiratory system	10	16.30	0.6	32	43.23	0.7	31	27.06	1.1	25	27.67	0.9	98	114.18	0.9
Nasal cavities, sinuses	0	0.18	0.0	0	0.46	0.0	0	0.28	0.0	1	0.29	3.4	1	1.22	0.8
Larynx	2	1.87	1.1	5	4.80	1.0	4	2.84	1.4	3	2.66	1.1	14	12.17	1.2
Trachea, bronchus, lung	8	14.10	0.6	27	37.58	0.7	27	23.70	1.1	21	24.47	0.9	83	99.78	0.8
Prostate gland	27	15.06	1.8*	56	39.83	1.4*	32	26.76	1.2	33	31.09	1.1	148	112.67	1.3*
Testis	1	0.12	8.2	0	0.29	0.0	0	0.15	0.0	0	0.12	0.0	1	0.69	1.5
Kidney, renal pelvis, ureter	3	2.02	1.5	6	5.28	1.1	1	3.28	0.3	1	3.33	0.3	11	13.89	0.8
Bladder, other urinary	7	5.90	1.2	26	15.54	1.7*	6	10.04	0.6	12	11.08	1.1	51	42.53	1.2
Melanoma of the skin	1	0.83	1.2	0	2.17	0.0	0	1.33	0.0	2	1.38	1.4	3	5.71	0.5
Eye	0	0.12	0.0	0	0.31	0.0	0	0.18	0.0	0	0.17	0.0	0	0.78	0.0
Brain, central nervous system	0	0.82	0.0	3	2.12	1.4	0	1.23	0.0	0	1.13	0.0	3	5.30	0.6
Thyroid gland	0	0.21	0.0	0	0.53	0.0	0	0.32	0.0	1	0.30	3.4	1	1.35	0.7
Bone	0	0.13	0.0	1	0.30	3.3	0	0.17	0.0	0	0.15	0.0	1	0.75	1.3
Connective tissue	0	0.40	0.0	2	1.02	2.0	1	0.64	1.6	0	0.69	0.0	3	2.75	1.1
Lymphatic, hematopoietic system	3	5.32	0.6	14	13.94	1.0	8	8.90	0.9	12	9.63	1.2	37	37.76	1.0
Non-Hodgkin's lymphoma	1	1.70	0.6	3	4.46	0.7	0	2.80	0.0	4	2.94	1.4	8	11.90	0.7
Hodgkin's disease	0	0.38	0.0	1	0.95	1.1	0	0.54	0.0	0	0.50	0.0	1	2.37	0.4
Multiple myeloma	1	0.80	1.2	4	2.15	1.9	1	1.40	0.7	2	1.55	1.3	8	5.90	1.4
Leukemias	1	2.44	0.4	6	6.38	0.9	7	4.16	1.7	6	4.63	1.3	20	17.60	1.1
Chronic lymphocytic	0	0.79	0.0	1	2.08	0.5	2	1.37	1.5	1	1.57	0.6	4	5.80	0.7
Acute nonlymphocytic	1	0.69	1.4	2	1.87	1.1	2	1.25	1.6	2	1.46	1.4	7	5.26	1.3

+ ICD-O code = 154.

* P<.05.

RECTUM
FEMALES

TABLE 5E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the rectum, rectosigmoid junction, or anus among females 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		
	No. starting interval	6,903		5,073			2,117			1,099			6,903		
Person-yr in interval	4,847		12,686			7,752			8,375			33,660			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	47	46.89	1.0	106	127.32	0.8	84	84.80	1.0	133	104.48	1.3*	370	363.25	1.0
All excluding site of initial cancer	44	44.04	1.0	105	119.59	0.9	84	79.58	1.1	130	97.92	1.3*	363	340.90	1.1
Buccal cavity, pharynx	0	0.79	0.0	1	2.18	0.5	1	1.42	0.7	1	1.71	0.6	3	6.09	0.5
Lip	0	0.05	0.0	0	0.14	0.0	0	0.10	0.0	0	0.12	0.0	0	0.41	0.0
Tongue	0	0.16	0.0	0	0.45	0.0	0	0.29	0.0	0	0.35	0.0	0	1.25	0.0
Salivary gland	0	0.10	0.0	0	0.28	0.0	0	0.18	0.0	0	0.23	0.0	0	0.79	0.0
Gum, other mouth	0	0.28	0.0	0	0.76	0.0	0	0.51	0.0	1	0.63	1.6	1	2.18	0.5
Pharynx	0	0.17	0.0	1	0.47	2.1	1	0.30	3.4	0	0.33	0.0	2	1.26	1.6
Digestive system	17	15.17	1.1	34	41.19	0.8	33	28.20	1.2	51	36.03	1.4*	135	120.52	1.1
Esophagus	1	0.33	3.0	0	0.89	0.0	1	0.59	1.7	0	0.74	0.0	2	2.55	0.8
Stomach	1	2.07	0.5	5	5.37	0.9	5	3.56	1.4	6	4.21	1.4	17	15.19	1.1
Colon	11	7.07	1.6	22	19.46	1.1	23	13.52	1.7*	37	17.74	2.1*	93	57.75	1.6*
Rectum	3	2.85	1.1	1	7.73	0.1*	0	5.22	0.0*	3	6.56	0.5	7	22.35	0.3*
Liver, biliary	0	1.05	0.0	5	2.81	1.8	1	1.90	0.5	3	2.38	1.3	9	8.14	1.1
Pancreas	1	1.50	0.7	0	4.13	0.0*	2	2.88	0.7	2	3.78	0.5	5	12.29	0.4*
Respiratory system	2	2.71	0.7	8	7.62	1.1	8	5.06	1.6	7	6.28	1.1	25	21.66	1.2
Nasal cavities, sinuses	0	0.08	0.0	0	0.21	0.0	0	0.14	0.0	1	0.16	6.3	1	0.59	1.7
Larynx	0	0.15	0.0	0	0.42	0.0	0	0.27	0.0	0	0.32	0.0	0	1.17	0.0
Trachea, bronchus, lung	2	2.44	0.8	8	6.89	1.2	8	4.59	1.7	6	5.74	1.0	24	19.65	1.2
Female breast	10	11.70	0.9	30	31.66	0.9	12	20.68	0.6	39	24.78	1.6*	91	88.77	1.0
Female genital tract	10	7.51	1.3	21	19.92	1.1	13	12.54	1.0	18	13.97	1.3	62	53.91	1.2
Cervix uteri	1	1.48	0.7	1	3.71	0.3	4	2.19	1.8	3	2.16	1.4	9	9.53	0.9
Corpus uteri	2	2.94	0.7	10	8.10	1.2	5	5.21	1.0	5	6.02	0.8	22	22.26	1.0
Uterus, NOS	1	0.61	1.6	1	1.46	0.7	0	0.85	0.0	1	0.75	1.3	3	3.67	0.8
Ovary, fallopian tubes	6	2.02	3.0*	8	5.42	1.5	2	3.46	0.6	6	3.96	1.5	22	14.85	1.5
Kidney, renal pelvis, ureter	1	0.73	1.4	1	2.02	0.5	1	1.38	0.7	2	1.69	1.2	5	5.82	0.9
Bladder, other urinary	1	1.36	0.7	2	3.74	0.5	2	2.61	0.8	4	3.47	1.2	9	11.16	0.8
Melanoma of the skin	0	0.48	0.0	1	1.31	0.8	0	0.85	0.0	1	1.04	1.0	2	3.68	0.5
Eye	2	0.08	24.8*	0	0.21	0.0	0	0.14	0.0	0	0.17	0.0	2	0.61	3.3
Brain, central nervous system	0	0.43	0.0	0	1.20	0.0	0	0.77	0.0	1	0.88	1.1	1	3.29	0.3
Thyroid gland	0	0.31	0.0	0	0.82	0.0	1	0.53	1.9	0	0.62	0.0	1	2.28	0.4
Bone	0	0.07	0.0	0	0.18	0.0	0	0.11	0.0	0	0.12	0.0	0	0.49	0.0
Connective tissue	0	0.20	0.0	0	0.53	0.0	1	0.34	2.9	0	0.42	0.0	1	1.49	0.7
Lymphatic, hematopoietic system	2	3.03	0.7	8	8.43	0.9	9	5.83	1.5	8	7.67	1.0	27	24.95	1.1
Non-Hodgkin's lymphoma	2	1.12	1.8	1	3.13	0.3	2	2.14	0.9	3	2.75	1.1	8	9.15	0.9
Hodgkin's disease	0	0.20	0.0	0	0.55	0.0	1	0.35	2.8	0	0.41	0.0	1	1.51	0.7
Multiple myeloma	0	0.53	0.0	3	1.50	2.0	3	1.06	2.8	2	1.46	1.4	8	4.54	1.8
Leukemias	0	1.17	0.0	4	3.23	1.2	3	2.27	1.3	3	3.04	1.0	10	9.71	1.0
Chronic lymphocytic	0	0.33	0.0	0	0.92	0.0	3	0.67	4.5	0	0.94	0.0	3	2.87	1.0
Acute nonlymphocytic	0	0.38	0.0	2	1.07	1.9	0	0.75	0.0	1	1.04	1.0	3	3.24	0.9

+ ICD-0 code = 154.

* P<.05.