

BLADDER  
BOTH SEXES

TABLE 2A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the bladder or other urinary, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	9,139	3,245	12,384
No. who developed a second primary cancer	949	202	1,151
Average age at diagnosis of first cancer, yr	66	67	66
Average yr of diagnosis of first cancer	1967	1967	1967
Person-yr of follow-up	44,794	16,319	61,113
Average follow-up, yr	4.9	5.0	4.9
Percent given radiotherapy for first cancer	20.5	22.8	21.1

+ ICD-O codes = 188, 189.3-189.9.

\* 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 bladder or other urinary in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	1,016	88.3
Only the first cancer	117	10.2
Only the second cancer	14	1.2
Neither first nor second cancer	4	0.3
Total second primary cancers	1,151	100.0

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

BLADDER  
BOTH SEXES

TABLE 2C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the bladder or other urinary 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	12,384			9,357			4,535			2,017			12,384		
Person-yr in interval	8,809			25,604			15,552			11,148			61,113		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	196	125.99	1.6*	427	373.43	1.1*	291	240.56	1.2*	237	197.83	1.2*	1,151	937.18	1.2*
All excluding site of initial cancer	189	117.72	1.6*	416	348.72	1.2*	290	224.55	1.3*	234	184.39	1.3*	1,129	874.79	1.3*
Buccal cavity, pharynx	7	5.31	1.3	19	15.38	1.2	8	9.53	0.8	5	7.15	0.7	39	37.33	1.0
Lip	1	0.93	1.1	2	2.59	0.8	0	1.57	0.0	2	1.19	1.7	5	6.28	0.8
Tongue	1	1.05	1.0	5	3.02	1.7	3	1.86	1.6	3	1.37	2.2	12	7.29	1.6
Salivary gland	0	0.31	0.0	1	0.92	1.1	0	0.59	0.0	0	0.48	0.0	1	2.31	0.4
Gum, other mouth	2	1.52	1.3	6	4.42	1.4	1	2.77	0.4	0	2.08	0.0	9	10.79	0.8
Pharynx	1	1.29	0.8	4	3.80	1.1	4	2.35	1.7	0	1.75	0.0	9	9.19	1.0
Digestive system	35	40.59	0.9	113	118.54	1.0	75	76.19	1.0	59	62.80	0.9	282	297.91	0.9
Esophagus	0	2.26	0.0	7	6.52	1.1	3	4.05	0.7	2	3.06	0.7	12	15.87	0.8
Stomach	5	6.96	0.7	14	19.51	0.7	14	12.15	1.2	12	9.59	1.3	45	48.17	0.9
Colon	13	16.18	0.8	39	48.00	0.8	29	31.45	0.9	23	26.85	0.9	104	122.40	0.8
Rectum	9	8.16	1.1	23	23.91	1.0	15	15.28	1.0	11	12.35	0.9	58	59.66	1.0
Liver, biliary	1	2.22	0.5	14	6.47	2.2*	4	4.19	1.0	1	3.53	0.3	20	16.39	1.2
Pancreas	6	4.11	1.5	13	12.12	1.1	8	7.80	1.0	9	6.41	1.4	36	30.42	1.2
Respiratory system	25	21.55	1.2	100	65.28	1.5*	73	41.59	1.8*	46	32.65	1.4*	244	160.96	1.5*
Nasal cavities, sinuses	2	0.25	7.9	0	0.75	0.0	0	0.47	0.0	1	0.38	2.6	3	1.85	1.6
Larynx	3	2.26	1.3	8	6.68	1.2	13	4.13	3.1*	4	3.02	1.3	28	16.08	1.7*
Trachea, bronchus, lung	20	18.84	1.1	92	57.26	1.6*	60	36.61	1.6*	40	28.96	1.4	212	141.56	1.5*
Female breast	12	5.88	2.0*	13	17.17	0.8	8	11.55	0.7	7	9.87	0.7	40	44.45	0.9
Female genital tract	5	3.50	1.4	7	10.11	0.7	5	6.57	0.8	5	5.34	0.9	22	25.50	0.9
Cervix uteri	1	0.62	1.6	0	1.72	0.0	1	1.07	0.9	0	0.83	0.0	2	4.22	0.5
Corpus uteri	2	1.42	1.4	3	4.23	0.7	2	2.77	0.7	3	2.24	1.3	10	10.65	0.9
Uterus, NOS	0	0.27	0.0	0	0.69	0.0	0	0.42	0.0	0	0.33	0.0	0	1.71	0.0
Ovary, fallopian tubes	2	0.95	2.1	4	2.78	1.4	2	1.82	1.1	2	1.50	1.3	10	7.06	1.4
Prostate gland	60	19.65	3.1*	81	59.02	1.4*	51	38.47	1.3	44	33.35	1.3	236	150.39	1.6*
Testis	0	0.14	0.0	0	0.40	0.0	1	0.24	4.2	0	0.15	0.0	1	0.93	1.1
Kidney, renal pelvis, ureter	19	2.85	6.7*	35	8.49	4.1*	23	5.41	4.3*	19	4.28	4.4*	96	21.01	4.6*
Bladder, other urinary	7	8.27	0.8	11	24.71	0.4*	1	16.01	0.1*	3	13.44	0.2*	22	62.39	0.4*
Melanoma of the skin	1	1.30	0.8	1	4.01	0.2	3	2.59	1.2	4	2.02	2.0	9	9.91	0.9
Eye	0	0.18	0.0	0	0.52	0.0	0	0.32	0.0	0	0.24	0.0	0	1.26	0.0
Brain, central nervous system	4	1.16	3.4	0	3.49	0.0	1	2.19	0.5	2	1.61	1.2	7	8.44	0.8
Thyroid gland	1	0.40	2.5	2	1.19	1.7	0	0.76	0.0	3	0.58	5.2*	6	2.93	2.0
Bone	1	0.17	5.8	1	0.48	2.1	2	0.30	6.8	0	0.21	0.0	4	1.16	3.4
Connective tissue	0	0.59	0.0	2	1.73	1.2	4	1.11	3.6	1	0.92	1.1	7	4.35	1.6
Lymphatic, hematopoietic system	4	8.25	0.5	26	24.71	1.1	24	16.04	1.5	22	13.44	1.6*	76	62.40	1.2
Non-Hodgkin's lymphoma	1	2.69	0.4	8	8.11	1.0	8	5.27	1.5	11	4.31	2.6*	28	20.37	1.4
Hodgkin's disease	0	0.54	0.0	1	1.56	0.6	0	0.96	0.0	2	0.71	2.8	3	3.77	0.8
Multiple myeloma	0	1.31	0.0	5	3.99	1.3	4	2.61	1.5	5	2.22	2.3	14	10.13	1.4
Leukemias	3	3.70	0.8	12	11.05	1.1	12	7.19	1.7	4	6.20	0.6	31	28.12	1.1
Chronic lymphocytic	1	1.19	0.8	3	3.59	0.8	1	2.37	0.4	1	2.06	0.5	6	9.21	0.7
Acute nonlymphocytic	2	1.13	1.8	5	3.43	1.5	8	2.26	3.5*	2	2.02	1.0	17	8.83	1.9*

+ ICD-O codes = 188, 189.3-189.9.

\* P<.05.

BLADDER  
MALES

TABLE 2D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the bladder or other urinary 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	9,139			6,997			3,341			1,452			9,139		
Person-yr in interval	6,557			19,072			11,361			7,803			44,794		
All second cancers	156	101.97	1.5*	367	303.59	1.2*	231	192.97	1.2*	195	156.19	1.2*	949	754.21	1.3*
All excluding site of initial cancer	149	94.45	1.6*	358	281.06	1.3*	231	178.50	1.3*	192	144.18	1.3*	930	697.72	1.3*
Buccal cavity, pharynx	7	4.90	1.4	19	14.18	1.3	8	8.72	0.9	5	6.46	0.8	39	34.24	1.1
Lip	1	0.90	1.1	2	2.51	0.8	0	1.52	0.0	2	1.14	1.8	5	6.06	0.8
Tongue	1	0.96	1.0	5	2.78	1.8	3	1.70	1.8	3	1.23	2.4	12	6.66	1.8
Salivary gland	0	0.26	0.0	1	0.77	1.3	0	0.48	0.0	0	0.39	0.0	1	1.91	0.5
Gum, other mouth	2	1.37	1.5	6	3.99	1.5	1	2.48	0.4	0	1.83	0.0	9	9.66	0.9
Pharynx	1	1.21	0.8	4	3.56	1.1	4	2.19	1.8	0	1.62	0.0	9	8.56	1.1
Digestive system	30	32.54	0.9	94	95.45	1.0	59	60.14	1.0	41	48.24	0.8	224	236.21	0.9
Esophagus	0	2.09	0.0	6	6.01	1.0	3	3.71	0.8	1	2.75	0.4	10	14.55	0.7
Stomach	5	5.87	0.9	13	16.55	0.8	11	10.13	1.1	10	7.80	1.3	39	40.32	1.0
Colon	10	12.38	0.8	35	36.98	0.9	23	23.70	1.0	15	19.73	0.8	83	92.73	0.9
Rectum	9	6.70	1.3	14	19.67	0.7	11	12.36	0.9	8	9.73	0.8	42	48.43	0.9
Liver, biliary	1	1.67	0.6	11	4.92	2.2*	3	3.12	1.0	1	2.56	0.4	16	12.25	1.3
Pancreas	4	3.30	1.2	13	9.76	1.3	7	6.15	1.1	6	4.90	1.2	30	24.09	1.2
Respiratory system	24	20.12	1.2	94	60.91	1.5*	63	38.60	1.6*	43	30.16	1.4*	224	149.70	1.5*
Nasal cavities, sinuses	2	0.21	9.3*	0	0.64	0.0	0	0.40	0.0	1	0.32	3.1	3	1.57	1.9
Larynx	3	2.18	1.4	8	6.44	1.2	11	3.98	2.8*	4	2.90	1.4	26	15.49	1.7*
Trachea, bronchus, lung	19	17.55	1.1	86	53.29	1.6*	52	33.89	1.5*	37	26.68	1.4	194	131.31	1.5*
Prostate gland	60	19.65	3.1*	81	59.02	1.4*	51	38.47	1.3	44	33.35	1.3	236	150.39	1.6*
Testis	0	0.14	0.0	0	0.40	0.0	1	0.24	4.2	0	0.15	0.0	1	0.93	1.1
Kidney, renal pelvis, ureter	10	2.47	4.0*	32	7.38	4.3*	13	4.65	2.8*	15	3.62	4.1*	70	18.11	3.9*
Bladder, other urinary	7	7.52	0.9	9	22.53	0.4*	0	14.47	0.0*	3	12.01	0.2*	19	56.49	0.3*
Melanoma of the skin	1	1.05	0.9	0	3.26	0.0	3	2.08	1.4	4	1.60	2.5	8	7.99	1.0
Eye	0	0.14	0.0	0	0.40	0.0	0	0.24	0.0	0	0.18	0.0	0	0.96	0.0
Brain, central nervous system	2	0.95	2.1	0	2.88	0.0	1	1.78	0.6	2	1.29	1.6	5	6.89	0.7
Thyroid gland	1	0.25	4.0	1	0.74	1.3	0	0.46	0.0	3	0.33	9.1*	5	1.78	2.8
Bone	1	0.14	7.3	1	0.39	2.6	2	0.23	8.5	0	0.16	0.0	4	0.92	4.3*
Connective tissue	0	0.49	0.0	1	1.45	0.7	2	0.91	2.2	1	0.75	1.3	4	3.60	1.1
Lymphatic, hematopoietic system	4	6.65	0.6	24	19.96	1.2	18	12.72	1.4	17	10.42	1.6	63	49.72	1.3
Non-Hodgkin's lymphoma	1	2.11	0.5	8	6.35	1.3	6	4.05	1.5	10	3.22	3.1*	25	15.72	1.6*
Hodgkin's disease	0	0.44	0.0	1	1.28	0.8	0	0.77	0.0	1	0.56	1.8	2	3.04	0.7
Multiple myeloma	0	1.03	0.0	4	3.12	1.3	2	2.01	1.0	4	1.66	2.4	10	7.81	1.3
Leukemias	3	3.08	1.0	11	9.21	1.2	10	5.89	1.7	2	4.98	0.4	26	23.14	1.1
Chronic lymphocytic	1	1.01	1.0	3	3.05	1.0	0	1.98	0.0	0	1.69	0.0	4	7.72	0.5
Acute nonlymphocytic	2	0.92	2.2	5	2.81	1.8	8	1.82	4.4*	1	1.60	0.6	16	7.15	2.2*

+ ICD-O codes = 188, 189.3-189.9.

\* P<.05.

BLADDER  
FEMALES

TABLE 2E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the bladder or other urinary 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	3,245			2,360			1,194			565			3,245		
Person-yr in interval	2,252			6,531			4,191			3,345			16,319		
All second cancers	40	24.02	1.7*	60	69.84	0.9	60	47.59	1.3	42	41.64	1.0	202	182.97	1.1
All excluding site of initial cancer	40	23.26	1.7*	58	67.65	0.9	59	46.05	1.3	42	40.21	1.0	199	177.06	1.1
Buccal cavity, pharynx	0	0.41	0.0	0	1.20	0.0	0	0.81	0.0	0	0.69	0.0	0	3.10	0.0
Lip	0	0.03	0.0	0	0.08	0.0	0	0.05	0.0	0	0.05	0.0	0	0.21	0.0
Tongue	0	0.08	0.0	0	0.24	0.0	0	0.16	0.0	0	0.14	0.0	0	0.62	0.0
Salivary gland	0	0.05	0.0	0	0.15	0.0	0	0.10	0.0	0	0.09	0.0	0	0.40	0.0
Gum, other mouth	0	0.15	0.0	0	0.43	0.0	0	0.29	0.0	0	0.25	0.0	0	1.12	0.0
Pharynx	0	0.08	0.0	0	0.25	0.0	0	0.16	0.0	0	0.13	0.0	0	0.62	0.0
Digestive system	5	8.04	0.6	19	23.09	0.8	16	16.05	1.0	18	14.56	1.2	58	61.70	0.9
Esophagus	0	0.17	0.0	1	0.50	2.0	0	0.35	0.0	1	0.31	3.3	2	1.33	1.5
Stomach	0	1.09	0.0	1	2.97	0.3	3	2.01	1.5	2	1.78	1.1	6	7.85	0.8
Colon	3	3.79	0.8	4	11.03	0.4*	6	7.74	0.8	8	7.12	1.1	21	29.67	0.7
Rectum	0	1.47	0.0	9	4.24	2.1	4	2.92	1.4	3	2.61	1.1	16	11.23	1.4
Liver, biliary	0	0.55	0.0	3	1.55	1.9	1	1.07	0.9	0	0.97	0.0	4	4.14	1.0
Pancreas	2	0.81	2.5	0	2.36	0.0	1	1.66	0.6	3	1.51	2.0	6	6.34	0.9
Respiratory system	1	1.43	0.7	6	4.37	1.4	10	2.98	3.4*	3	2.49	1.2	20	11.26	1.8*
Nasal cavities, sinuses	0	0.04	0.0	0	0.11	0.0	0	0.08	0.0	0	0.06	0.0	0	0.29	0.0
Larynx	0	0.08	0.0	0	0.24	0.0	2	0.16	12.8*	0	0.13	0.0	2	0.59	3.4
Trachea, bronchus, lung	1	1.29	0.8	6	3.97	1.5	8	2.72	2.9*	3	2.28	1.3	18	10.25	1.8*
Female breast	12	5.88	2.0*	13	17.17	0.8	8	11.55	0.7	7	9.87	0.7	40	44.45	0.9
Female genital tract	5	3.50	1.4	7	10.11	0.7	5	6.57	0.8	5	5.34	0.9	22	25.50	0.9
Cervix uteri	1	0.62	1.6	0	1.72	0.0	1	1.07	0.9	0	0.83	0.0	2	4.22	0.5
Corpus uteri	2	1.42	1.4	3	4.23	0.7	2	2.77	0.7	3	2.24	1.3	10	10.65	0.9
Uterus, NOS	0	0.27	0.0	0	0.69	0.0	0	0.42	0.0	0	0.33	0.0	0	1.71	0.0
Ovary, fallopian tubes	2	0.95	2.1	4	2.78	1.4	2	1.82	1.1	2	1.50	1.3	10	7.06	1.4
Kidney, renal pelvis, ureter	9	0.38	23.9*	3	1.11	2.7	10	0.76	13.2*	4	0.66	6.1*	26	2.90	9.0*
Bladder, other urinary	0	0.76	0.0	2	2.19	0.9	1	1.54	0.6	0	1.43	0.0	3	5.91	0.5
Melanoma of the skin	0	0.25	0.0	1	0.75	1.3	0	0.50	0.0	0	0.42	0.0	1	1.92	0.5
Eye	0	0.04	0.0	0	0.11	0.0	0	0.08	0.0	0	0.07	0.0	0	0.29	0.0
Brain, central nervous system	2	0.20	9.8*	0	0.62	0.0	0	0.40	0.0	0	0.32	0.0	2	1.55	1.3
Thyroid gland	0	0.15	0.0	1	0.45	2.2	0	0.30	0.0	0	0.25	0.0	1	1.16	0.9
Bone	0	0.03	0.0	0	0.09	0.0	0	0.06	0.0	0	0.05	0.0	0	0.24	0.0
Connective tissue	0	0.10	0.0	1	0.28	3.5	2	0.19	10.5*	0	0.17	0.0	3	0.74	4.0
Lymphatic, hematopoietic system	0	1.60	0.0	2	4.75	0.4	6	3.32	1.8	5	3.02	1.7	13	12.68	1.0
Non-Hodgkin's lymphoma	0	0.59	0.0	0	1.76	0.0	2	1.22	1.6	1	1.09	0.9	3	4.65	0.6
Hodgkin's disease	0	0.10	0.0	0	0.28	0.0	0	0.19	0.0	1	0.15	6.5	1	0.72	1.4
Multiple myeloma	0	0.28	0.0	1	0.86	1.2	2	0.61	3.3	1	0.56	1.8	4	2.32	1.7
Leukemias	0	0.63	0.0	1	1.84	0.5	2	1.30	1.5	2	1.22	1.6	5	4.98	1.0
Chronic lymphocytic	0	0.18	0.0	0	0.54	0.0	1	0.39	2.6	1	0.37	2.7	2	1.49	1.3
Acute nonlymphocytic	0	0.21	0.0	0	0.62	0.0	0	0.44	0.0	1	0.42	2.4	1	1.68	0.6

+ ICD-O codes = 188, 189.3-189.9.

\* P<.05.