

LIVER,
BILIARY
BOTH SEXES

TABLE 6A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial cancer of the liver, gallbladder, or other biliary, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	1,165	1,580	2,745
No. who developed a second primary cancer	26	21	47
Average age at diagnosis of first cancer, yr	65	66	66
Average yr of diagnosis of first cancer	1967	1964	1965
Person-yr of follow-up	1,198	1,962	3,160
Average follow-up, yr	1.0	1.2	1.2
Percent given radiotherapy for first cancer	11.0	7.5	9.0

+ ICD-O codes = 155-156.

* 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 6B. -- Microscopic confirmation among persons who developed second primary cancers after an initial cancer of the liver, gallbladder, or other biliary in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	41	87.2
Only the first cancer	5	10.6
Only the second cancer	1	2.1
Neither first nor second cancer	0	0.0
Total second primary cancers	47	100.0

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

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TABLE 6C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the liver, gallbladder, or other biliary among males and 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	2,745		716			156			75			2,745		
Person-yr in interval	1,022		1,160			518			461			3,160			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	16	12.37	1.3	19	13.98	1.4	6	6.49	0.9	6	7.19	0.8	47	40.00	1.2
All excluding site of initial cancer	16	12.12	1.3	18	13.71	1.3	5	6.37	0.8	6	7.06	0.8	45	39.23	1.1
Buccal cavity, pharynx	0	0.41	0.0	0	0.45	0.0	0	0.19	0.0	0	0.19	0.0	0	1.24	0.0
Lip	0	0.06	0.0	0	0.06	0.0	0	0.03	0.0	0	0.03	0.0	0	0.18	0.0
Tongue	0	0.08	0.0	0	0.09	0.0	0	0.04	0.0	0	0.04	0.0	0	0.25	0.0
Salivary gland	0	0.03	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.09	0.0
Gum, other mouth	0	0.12	0.0	0	0.13	0.0	0	0.06	0.0	0	0.06	0.0	0	0.38	0.0
Pharynx	0	0.10	0.0	0	0.11	0.0	0	0.04	0.0	0	0.05	0.0	0	0.30	0.0
Digestive system	6	4.01	1.5	12	4.49	2.7*	4	2.10	1.9	2	2.29	0.9	24	12.87	1.9*
Esophagus	0	0.17	0.0	0	0.19	0.0	0	0.08	0.0	0	0.08	0.0	0	0.52	0.0
Stomach	0	0.63	0.0	0	0.66	0.0	0	0.29	0.0	0	0.29	0.0	0	1.87	0.0
Colon	3	1.69	1.8	3	1.94	1.5	2	0.94	2.1	1	1.06	0.9	9	5.63	1.6
Rectum	0	0.79	0.0	5	0.89	5.6*	0	0.41	0.0	0	0.44	0.0	5	2.53	2.0
Liver, biliary	0	0.25	0.0	1	0.27	3.7	1	0.12	8.1	0	0.13	0.0	2	0.77	2.6
Pancreas	2	0.41	4.9	3	0.46	6.5*	1	0.22	4.5	1	0.24	4.2	7	1.33	5.3*
Respiratory system	0	1.66	0.0	2	1.85	1.1	1	0.77	1.3	1	0.93	1.1	4	5.20	0.8
Nasal cavities, sinuses	0	0.02	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Larynx	0	0.16	0.0	0	0.18	0.0	0	0.07	0.0	0	0.07	0.0	0	0.48	0.0
Trachea, bronchus, lung	0	1.46	0.0	2	1.62	1.2	1	0.68	1.5	1	0.84	1.2	4	4.60	0.9
Female breast	1	1.47	0.7	0	1.80	0.0	0	0.95	0.0	2	0.88	2.3	3	5.09	0.6
Female genital tract	1	0.93	1.1	1	1.12	0.9	0	0.57	0.0	0	0.49	0.0	2	3.10	0.6
Cervix uteri	0	0.18	0.0	1	0.20	5.0	0	0.09	0.0	0	0.07	0.0	1	0.54	1.8
Corpus uteri	0	0.36	0.0	0	0.46	0.0	0	0.24	0.0	0	0.22	0.0	0	1.29	0.0
Uterus, NOS	0	0.08	0.0	0	0.08	0.0	0	0.03	0.0	0	0.02	0.0	0	0.21	0.0
Ovary, fallopian tubes	1	0.25	4.0	0	0.31	0.0	0	0.16	0.0	0	0.14	0.0	1	0.86	1.2
Prostate gland	5	1.17	4.3*	2	1.21	1.7	0	0.50	0.0	1	0.78	1.3	8	3.66	2.2
Testis	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Kidney, renal pelvis, ureter	1	0.26	3.9	0	0.28	0.0	0	0.13	0.0	0	0.14	0.0	1	0.81	1.2
Bladder, other urinary	1	0.64	1.6	0	0.71	0.0	1	0.31	3.2	0	0.40	0.0	2	2.06	1.0
Melanoma of the skin	0	0.13	0.0	0	0.15	0.0	0	0.06	0.0	0	0.08	0.0	0	0.42	0.0
Eye	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.06	0.0
Brain, central nervous system	0	0.12	0.0	0	0.14	0.0	0	0.06	0.0	0	0.06	0.0	0	0.38	0.0
Thyroid gland	0	0.05	0.0	0	0.06	0.0	0	0.03	0.0	0	0.03	0.0	0	0.18	0.0
Bone	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Connective tissue	0	0.06	0.0	0	0.06	0.0	0	0.03	0.0	0	0.03	0.0	0	0.17	0.0
Lymphatic, hematopoietic system	1	0.81	1.2	2	0.93	2.1	0	0.45	0.0	0	0.51	0.0	3	2.70	1.1
Non-Hodgkin's lymphoma	0	0.28	0.0	0	0.32	0.0	0	0.15	0.0	0	0.17	0.0	0	0.93	0.0
Hodgkin's disease	0	0.05	0.0	1	0.06	16.2	0	0.03	0.0	0	0.03	0.0	1	0.17	5.9
Multiple myeloma	0	0.13	0.0	1	0.16	6.3	0	0.08	0.0	0	0.09	0.0	1	0.46	2.2
Leukemias	1	0.34	2.9	0	0.39	0.0	0	0.19	0.0	0	0.22	0.0	1	1.14	0.9
Chronic lymphocytic	0	0.11	0.0	0	0.12	0.0	0	0.06	0.0	0	0.07	0.0	0	0.36	0.0
Acute nonlymphocytic	0	0.11	0.0	0	0.12	0.0	0	0.06	0.0	0	0.08	0.0	0	0.37	0.0

+ ICD-0 codes = 155-156.

* P<.05.

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MALES

TABLE 6D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the liver, gallbladder, or other biliary 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	1,165			309			55			23			1,165		
Person-yr in interval	432			449			161			156			1,198		
All second cancers	10	6.38	1.6	10	6.69	1.5	3	2.64	1.1	3	3.52	0.9	26	19.21	1.4
All excluding site of initial cancer	10	6.27	1.6	9	6.58	1.4	2	2.60	0.8	3	3.47	0.9	24	18.90	1.3
Buccal cavity, pharynx	0	0.31	0.0	0	0.32	0.0	0	0.13	0.0	0	0.13	0.0	0	0.89	0.0
Lip	0	0.06	0.0	0	0.06	0.0	0	0.02	0.0	0	0.02	0.0	0	0.15	0.0
Tongue	0	0.06	0.0	0	0.06	0.0	0	0.02	0.0	0	0.02	0.0	0	0.17	0.0
Salivary gland	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Gum, other mouth	0	0.09	0.0	0	0.09	0.0	0	0.04	0.0	0	0.04	0.0	0	0.25	0.0
Pharynx	0	0.08	0.0	0	0.08	0.0	0	0.03	0.0	0	0.03	0.0	0	0.23	0.0
Digestive system	2	2.01	1.0	6	2.09	2.9*	1	0.84	1.2	2	1.06	1.9	11	5.99	1.8
Esophagus	0	0.13	0.0	0	0.14	0.0	0	0.05	0.0	0	0.06	0.0	0	0.37	0.0
Stomach	0	0.35	0.0	0	0.35	0.0	0	0.15	0.0	0	0.16	0.0	0	1.01	0.0
Colon	0	0.76	0.0	3	0.80	3.8	0	0.32	0.0	1	0.46	2.2	4	2.33	1.7
Rectum	0	0.42	0.0	0	0.44	0.0	0	0.17	0.0	0	0.21	0.0	0	1.25	0.0
Liver, biliary	0	0.11	0.0	1	0.11	9.4	1	0.04	24.0	0	0.05	0.0	2	0.31	6.5
Pancreas	2	0.21	9.7*	2	0.22	9.2*	0	0.09	0.0	1	0.11	9.1	5	0.62	8.1*
Respiratory system	0	1.33	0.0	1	1.43	0.7	1	0.53	1.9	0	0.69	0.0	2	3.98	0.5
Nasal cavities, sinuses	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Larynx	0	0.14	0.0	0	0.16	0.0	0	0.06	0.0	0	0.06	0.0	0	0.42	0.0
Trachea, bronchus, lung	0	1.16	0.0	1	1.25	0.8	1	0.47	2.1	0	0.62	0.0	2	3.49	0.6
Prostate gland	5	1.17	4.3*	2	1.21	1.7	0	0.50	0.0	1	0.78	1.3	8	3.66	2.2
Testis	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Kidney, renal pelvis, ureter	1	0.16	6.3	0	0.17	0.0	0	0.07	0.0	0	0.08	0.0	1	0.48	2.1
Bladder, other urinary	1	0.46	2.2	0	0.49	0.0	1	0.19	5.2	0	0.28	0.0	2	1.42	1.4
Melanoma of the skin	0	0.07	0.0	0	0.07	0.0	0	0.03	0.0	0	0.04	0.0	0	0.20	0.0
Eye	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Brain, central nervous system	0	0.07	0.0	0	0.07	0.0	0	0.02	0.0	0	0.03	0.0	0	0.19	0.0
Thyroid gland	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Bone	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.02	0.0
Connective tissue	0	0.03	0.0	0	0.03	0.0	0	0.01	0.0	0	0.02	0.0	0	0.09	0.0
Lymphatic, hematopoietic system	1	0.42	2.4	1	0.44	2.3	0	0.18	0.0	0	0.24	0.0	2	1.27	1.6
Non-Hodgkin's lymphoma	0	0.13	0.0	0	0.14	0.0	0	0.05	0.0	0	0.07	0.0	0	0.40	0.0
Hodgkin's disease	0	0.03	0.0	1	0.03	33.9	0	0.01	0.0	0	0.01	0.0	1	0.08	12.4
Multiple myeloma	0	0.06	0.0	0	0.07	0.0	0	0.03	0.0	0	0.04	0.0	0	0.20	0.0
Leukemias	1	0.19	5.3	0	0.19	0.0	0	0.08	0.0	0	0.11	0.0	1	0.58	1.7
Chronic lymphocytic	0	0.06	0.0	0	0.06	0.0	0	0.03	0.0	0	0.04	0.0	0	0.19	0.0
Acute nonlymphocytic	0	0.06	0.0	0	0.06	0.0	0	0.03	0.0	0	0.04	0.0	0	0.18	0.0

+ ICD-O codes = 155-156.

* P<.05.

LIVER,
BILIARY
FEMALES

TABLE 6E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial cancer of the liver, gallbladder, or other biliary 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	1,580		407		101		52		1,580					
Person-yr in interval	589		711		357		305		1,962						
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	6	5.99	1.0	9	7.29	1.2	3	3.85	0.8	3	3.67	0.8	21	20.79	1.0
All excluding site of initial cancer	6	5.85	1.0	9	7.13	1.3	3	3.77	0.8	3	3.59	0.8	21	20.32	1.0
Buccal cavity, pharynx	0	0.10	0.0	0	0.12	0.0	0	0.06	0.0	0	0.06	0.0	0	0.35	0.0
Lip	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.02	0.0
Tongue	0	0.02	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Salivary gland	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.05	0.0
Gum, other mouth	0	0.04	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.12	0.0
Pharynx	0	0.02	0.0	0	0.03	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Digestive system	4	1.99	2.0	6	2.40	2.5	3	1.26	2.4	0	1.23	0.0	13	6.88	1.9*
Esophagus	0	0.04	0.0	0	0.05	0.0	0	0.03	0.0	0	0.03	0.0	0	0.15	0.0
Stomach	0	0.27	0.0	0	0.31	0.0	0	0.15	0.0	0	0.13	0.0	0	0.86	0.0
Colon	3	0.93	3.2	0	1.14	0.0	2	0.62	3.2	0	0.61	0.0	5	3.29	1.5
Rectum	0	0.37	0.0	5	0.45	11.2*	0	0.24	0.0	0	0.23	0.0	5	1.28	3.9*
Liver, biliary	0	0.14	0.0	0	0.16	0.0	0	0.08	0.0	0	0.08	0.0	0	0.47	0.0
Pancreas	0	0.20	0.0	1	0.24	4.1	1	0.13	7.5	0	0.13	0.0	2	0.71	2.8
Respiratory system	0	0.34	0.0	1	0.41	2.4	0	0.23	0.0	1	0.24	4.2	2	1.22	1.6
Nasal cavities, sinuses	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.03	0.0
Larynx	0	0.02	0.0	0	0.02	0.0	0	0.01	0.0	0	0.01	0.0	0	0.07	0.0
Trachea, bronchus, lung	0	0.30	0.0	1	0.37	2.7	0	0.21	0.0	1	0.22	4.6	2	1.11	1.8
Female breast	1	1.47	0.7	0	1.80	0.0	0	0.95	0.0	2	0.88	2.3	3	5.09	0.6
Female genital tract	1	0.93	1.1	1	1.12	0.9	0	0.57	0.0	0	0.49	0.0	2	3.10	0.6
Cervix uteri	0	0.18	0.0	1	0.20	5.0	0	0.09	0.0	0	0.07	0.0	1	0.54	1.8
Corpus uteri	0	0.36	0.0	0	0.46	0.0	0	0.24	0.0	0	0.22	0.0	0	1.29	0.0
Uterus, NOS	0	0.08	0.0	0	0.08	0.0	0	0.03	0.0	0	0.02	0.0	0	0.21	0.0
Ovary, fallopian tubes	1	0.25	4.0	0	0.31	0.0	0	0.16	0.0	0	0.14	0.0	1	0.86	1.2
Kidney, renal pelvis, ureter	0	0.10	0.0	0	0.11	0.0	0	0.06	0.0	0	0.06	0.0	0	0.33	0.0
Bladder, other urinary	0	0.18	0.0	0	0.22	0.0	0	0.12	0.0	0	0.12	0.0	0	0.64	0.0
Melanoma of the skin	0	0.06	0.0	0	0.08	0.0	0	0.04	0.0	0	0.04	0.0	0	0.21	0.0
Eye	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.01	0.0	0	0.04	0.0
Brain, central nervous system	0	0.05	0.0	0	0.07	0.0	0	0.04	0.0	0	0.03	0.0	0	0.19	0.0
Thyroid gland	0	0.04	0.0	0	0.05	0.0	0	0.03	0.0	0	0.02	0.0	0	0.13	0.0
Bone	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Connective tissue	0	0.02	0.0	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.08	0.0
Lymphatic, hematopoietic system	0	0.39	0.0	1	0.50	2.0	0	0.27	0.0	0	0.27	0.0	1	1.43	0.7
Non-Hodgkin's lymphoma	0	0.14	0.0	0	0.18	0.0	0	0.10	0.0	0	0.10	0.0	0	0.52	0.0
Hodgkin's disease	0	0.03	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.09	0.0
Multiple myeloma	0	0.07	0.0	1	0.09	11.1	0	0.05	0.0	0	0.05	0.0	1	0.26	3.8
Leukemias	0	0.15	0.0	0	0.19	0.0	0	0.10	0.0	0	0.11	0.0	0	0.56	0.0
Chronic lymphocytic	0	0.04	0.0	0	0.06	0.0	0	0.03	0.0	0	0.03	0.0	0	0.17	0.0
Acute nonlymphocytic	0	0.05	0.0	0	0.06	0.0	0	0.03	0.0	0	0.04	0.0	0	0.19	0.0

+ ICD-O codes = 155-156.

* P<.05.