

MELANOMA  
BOTH SEXES

TABLE 1A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial malignant melanoma of the skin, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	2,336	2,357	4,693
No. who developed a second primary cancer	139	160	299
Average age at diagnosis of first cancer, yr	53	51	52
Average yr of diagnosis of first cancer	1969	1968	1969
Person-yr of follow-up	12,541	15,274	27,815
Average follow-up, yr	5.4	6.5	5.9
Percent given radiotherapy for first cancer	4.2	2.4	3.3

+ ICD-O code = 173, morphology codes 8720-8780.

\* 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 1B. -- Microscopic confirmation among persons who developed second primary cancers after an initial malignant melanoma of the skin in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	275	92.0
Only the first cancer	20	6.7
Only the second cancer	3	1.0
Neither first nor second cancer	1	0.3
Total second primary cancers	299	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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BOTH SEXES

TABLE 1C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial malignant melanoma of the skin 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	4,693		3,991			1,941			954			4,693		
Person-yr in interval	3,584		11,072			6,896			6,263			27,815			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	31	25.52	1.2	108	77.71	1.4*	81	52.27	1.5*	79	56.01	1.4*	299	211.38	1.4*
All excluding site of initial cancer	21	25.10	0.8	99	76.39	1.3*	77	51.39	1.5*	72	55.12	1.3*	269	207.87	1.3*
Buccal cavity, pharynx	1	0.96	1.0	1	2.81	0.4	4	1.82	2.2	2	1.86	1.1	8	7.45	1.1
Lip	0	0.13	0.0	0	0.33	0.0	0	0.20	0.0	1	0.18	5.5	1	0.84	1.2
Tongue	0	0.19	0.0	0	0.56	0.0	1	0.36	2.8	0	0.37	0.0	1	1.49	0.7
Salivary gland	1	0.07	15.0	0	0.20	0.0	0	0.13	0.0	0	0.13	0.0	1	0.52	1.9
Gum, other mouth	0	0.29	0.0	0	0.87	0.0	1	0.57	1.7	1	0.60	1.7	2	2.34	0.9
Pharynx	0	0.24	0.0	1	0.73	1.4	2	0.48	4.2	0	0.49	0.0	3	1.94	1.5
Digestive system	5	7.38	0.7	29	21.94	1.3	16	14.65	1.1	17	15.89	1.1	67	59.82	1.1
Esophagus	0	0.37	0.0	2	1.07	1.9	0	0.68	0.0	1	0.71	1.4	3	2.82	1.1
Stomach	0	1.11	0.0	2	3.11	0.6	1	1.96	0.5	2	1.99	1.0	5	8.17	0.6
Colon	3	3.07	1.0	15	9.32	1.6	10	6.35	1.6	9	7.07	1.3	37	25.79	1.4*
Rectum	2	1.52	1.3	6	4.53	1.3	2	3.02	0.7	3	3.25	0.9	13	12.30	1.1
Liver, biliary	0	0.42	0.0	1	1.25	0.8	2	0.83	2.4	0	0.90	0.0	3	3.40	0.9
Pancreas	0	0.75	0.0	2	2.26	0.9	1	1.53	0.7	1	1.69	0.6	4	6.23	0.6
Respiratory system	2	3.86	0.5	13	11.76	1.1	13	7.81	1.7	7	8.33	0.8	35	31.74	1.1
Nasal cavities, sinuses	0	0.05	0.0	0	0.15	0.0	0	0.10	0.0	0	0.10	0.0	0	0.40	0.0
Larynx	0	0.40	0.0	0	1.21	0.0	2	0.78	2.6	1	0.80	1.2	3	3.19	0.9
Trachea, bronchus, lung	2	3.37	0.6	13	10.28	1.3	11	6.86	1.6	6	7.34	0.8	32	27.83	1.1
Female breast	3	3.08	1.0	16	10.37	1.5	15	7.52	2.0*	11	8.44	1.3	45	29.39	1.5*
Female genital tract	3	1.85	1.6	4	6.14	0.7	7	4.36	1.6	7	4.74	1.5	21	17.09	1.2
Cervix uteri	0	0.39	0.0	2	1.25	1.6	0	0.82	0.0	0	0.78	0.0	2	3.25	0.6
Corpus uteri	2	0.74	2.7	1	2.55	0.4	6	1.91	3.1*	3	2.21	1.4	12	7.41	1.6
Uterus, NOS	0	0.11	0.0	1	0.32	3.2	0	0.19	0.0	1	0.17	5.8	2	0.79	2.5
Ovary, fallopian tubes	1	0.51	2.0	0	1.71	0.0	0	1.22	0.0	3	1.32	2.3	4	4.75	0.8
Prostate gland	1	2.43	0.4	13	6.62	2.0*	3	4.10	0.7	9	4.08	2.2*	26	17.22	1.5
Testis	0	0.06	0.0	0	0.18	0.0	0	0.10	0.0	0	0.08	0.0	0	0.43	0.0
Kidney, renal pelvis, ureter	2	0.55	3.6	3	1.68	1.8	2	1.12	1.8	3	1.18	2.5	10	4.54	2.2*
Bladder, other urinary	1	1.35	0.7	5	3.96	1.3	2	2.61	0.8	2	2.78	0.7	10	10.69	0.9
Melanoma of the skin	10	0.42	23.6*	9	1.32	6.8*	4	0.88	4.6*	7	0.89	7.9*	30	3.51	8.5*
Eye	0	0.04	0.0	0	0.12	0.0	0	0.08	0.0	1	0.08	12.4	1	0.32	3.1
Brain, central nervous system	1	0.32	3.1	1	1.02	1.0	1	0.68	1.5	0	0.69	0.0	3	2.71	1.1
Thyroid gland	0	0.16	0.0	1	0.53	1.9	3	0.35	8.6*	1	0.34	3.0	5	1.38	3.6*
Bone	0	0.04	0.0	0	0.12	0.0	0	0.07	0.0	0	0.07	0.0	0	0.30	0.0
Connective tissue	1	0.13	7.8	3	0.39	7.7*	2	0.25	8.0	1	0.25	4.0	7	1.02	6.9*
Lymphatic, hematopoietic system	0	1.72	0.0	2	5.28	0.4	6	3.54	1.7	7	3.82	1.8	15	14.35	1.0
Non-Hodgkin's lymphoma	0	0.62	0.0	1	1.93	0.5	1	1.32	0.8	1	1.45	0.7	3	5.31	0.6
Hodgkin's disease	0	0.16	0.0	0	0.49	0.0	1	0.30	3.3	1	0.28	3.6	2	1.23	1.6
Multiple myeloma	0	0.26	0.0	1	0.81	1.2	1	0.57	1.8	0	0.64	0.0	2	2.28	0.9
Leukemias	0	0.68	0.0	0	2.04	0.0	3	1.35	2.2	5	1.45	3.4*	8	5.52	1.4
Chronic lymphocytic	0	0.20	0.0	0	0.61	0.0	0	0.41	0.0	2	0.45	4.4	2	1.68	1.2
Acute nonlymphocytic	0	0.23	0.0	0	0.69	0.0	2	0.47	4.3	3	0.52	5.8*	5	1.91	2.6

+ ICD-O code = 173, morphology codes 8720-8780.

\* P<.05.

MELANOMA  
MALES

TABLE 1D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial malignant melanoma of the skin 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		
No. starting interval	2,336			1,937			886			406			2,336		
Person-yr in interval	1,760			5,167			3,032			2,582			12,541		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	15	14.56	1.0	50	41.20	1.2	34	25.63	1.3	40	25.16	1.6*	139	106.48	1.3*
All excluding site of initial cancer	11	14.32	0.8	46	40.47	1.1	32	25.17	1.3	36	24.72	1.5*	125	104.61	1.2
Buccal cavity, pharynx	1	0.76	1.3	1	2.14	0.5	2	1.32	1.5	2	1.26	1.6	6	5.48	1.1
Lip	0	0.12	0.0	0	0.29	0.0	0	0.17	0.0	1	0.15	6.6	1	0.74	1.4
Tongue	0	0.15	0.0	0	0.43	0.0	1	0.26	3.8	0	0.25	0.0	1	1.09	0.9
Salivary gland	1	0.04	24.7	0	0.11	0.0	0	0.07	0.0	0	0.06	0.0	1	0.29	3.5
Gum, other mouth	0	0.22	0.0	0	0.64	0.0	0	0.40	0.0	1	0.39	2.6	1	1.65	0.6
Pharynx	0	0.20	0.0	1	0.58	1.7	1	0.36	2.8	0	0.35	0.0	2	1.49	1.3
Digestive system	3	4.39	0.7	14	12.16	1.2	7	7.44	0.9	11	7.24	1.5	35	31.21	1.1
Esophagus	0	0.29	0.0	1	0.83	1.2	0	0.50	0.0	1	0.49	2.0	2	2.11	0.9
Stomach	0	0.74	0.0	2	1.95	1.0	1	1.14	0.9	2	1.06	1.9	5	4.90	1.0
Colon	2	1.67	1.2	6	4.67	1.3	2	2.89	0.7	5	2.86	1.7	15	12.09	1.2
Rectum	1	0.93	1.1	4	2.60	1.5	2	1.60	1.2	1	1.57	0.6	8	6.70	1.2
Liver, biliary	0	0.23	0.0	1	0.63	1.6	1	0.39	2.6	0	0.37	0.0	2	1.61	1.2
Pancreas	0	0.45	0.0	0	1.26	0.0	1	0.79	1.3	1	0.76	1.3	2	3.26	0.6
Respiratory system	1	3.14	0.3	7	9.24	0.8	8	5.88	1.4	1	5.92	0.2*	17	24.16	0.7
Nasal cavities, sinuses	0	0.03	0.0	0	0.09	0.0	0	0.05	0.0	0	0.05	0.0	0	0.23	0.0
Larynx	0	0.36	0.0	0	1.05	0.0	2	0.66	3.0	0	0.66	0.0	2	2.73	0.7
Trachea, bronchus, lung	1	2.71	0.4	7	8.01	0.9	6	5.11	1.2	1	5.15	0.2	15	20.96	0.7
Prostate gland	1	2.43	0.4	13	6.62	2.0*	3	4.10	0.7	9	4.08	2.2*	26	17.22	1.5
Testis	0	0.06	0.0	0	0.18	0.0	0	0.10	0.0	0	0.08	0.0	0	0.43	0.0
Kidney, renal pelvis, ureter	1	0.39	2.6	1	1.13	0.9	1	0.72	1.4	2	0.70	2.8	5	2.94	1.7
Bladder, other urinary	1	1.06	0.9	4	3.01	1.3	2	1.90	1.1	1	1.88	0.5	8	7.85	1.0
Melanoma of the skin	4	0.24	16.3*	4	0.73	5.5*	2	0.46	4.3	4	0.44	9.0*	14	1.87	7.5*
Eye	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	1	0.04	28.1	1	0.16	6.3
Brain, central nervous system	1	0.20	5.0	1	0.60	1.7	0	0.38	0.0	0	0.36	0.0	2	1.54	1.3
Thyroid gland	0	0.05	0.0	1	0.16	6.1	1	0.10	9.8	0	0.09	0.0	2	0.41	4.8
Bone	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.03	0.0	0	0.16	0.0
Connective tissue	1	0.08	12.6	2	0.23	8.7	1	0.14	7.3	1	0.13	7.8	5	0.57	8.7*
Lymphatic, hematopoietic system	0	1.02	0.0	1	2.94	0.3	5	1.83	2.7	5	1.77	2.8	11	7.56	1.5
Non-Hodgkin's lymphoma	0	0.35	0.0	0	1.04	0.0	1	0.65	1.5	1	0.64	1.6	2	2.67	0.7
Hodgkin's disease	0	0.10	0.0	0	0.28	0.0	0	0.16	0.0	1	0.14	7.1	1	0.68	1.5
Multiple myeloma	0	0.15	0.0	1	0.42	2.4	1	0.27	3.7	0	0.27	0.0	2	1.11	1.8
Leukemias	0	0.43	0.0	0	1.20	0.0	3	0.74	4.1	3	0.72	4.2	6	3.09	1.9
Chronic lymphocytic	0	0.14	0.0	0	0.38	0.0	0	0.24	0.0	1	0.24	4.2	1	1.00	1.0
Acute nonlymphocytic	0	0.13	0.0	0	0.39	0.0	2	0.24	8.2	2	0.25	8.1	4	1.01	3.9*

+ ICD-O code = 173, morphology codes 8720-8780.

\* P<.05.

MELANOMA  
FEMALES

TABLE 1E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial malignant melanoma of the skin 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					
	No. starting interval	2,357		2,054			1,055			548			2,357		
Person-yr in interval	1,825		5,906			3,863			3,680			15,274			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	16	10.96	1.5	58	36.51	1.6*	47	26.64	1.8*	39	30.85	1.3	160	104.89	1.5*
All excluding site of initial cancer	10	10.78	0.9	53	35.92	1.5*	45	26.22	1.7*	36	30.40	1.2	144	103.25	1.4*
Buccal cavity, pharynx	0	0.20	0.0	0	0.68	0.0	2	0.50	4.0	0	0.60	0.0	2	1.97	1.0
Lip	0	0.01	0.0	0	0.03	0.0	0	0.03	0.0	0	0.03	0.0	0	0.10	0.0
Tongue	0	0.04	0.0	0	0.14	0.0	0	0.10	0.0	0	0.12	0.0	0	0.40	0.0
Salivary gland	0	0.03	0.0	0	0.08	0.0	0	0.06	0.0	0	0.07	0.0	0	0.24	0.0
Gum, other mouth	0	0.07	0.0	0	0.23	0.0	1	0.17	5.8	0	0.21	0.0	1	0.69	1.5
Pharynx	0	0.05	0.0	0	0.15	0.0	1	0.12	8.6	0	0.14	0.0	1	0.45	2.2
Digestive system	2	2.99	0.7	15	9.78	1.5	9	7.21	1.2	6	8.65	0.7	32	28.61	1.1
Esophagus	0	0.07	0.0	1	0.24	4.2	0	0.18	0.0	0	0.22	0.0	1	0.71	1.4
Stomach	0	0.37	0.0	0	1.16	0.0	0	0.82	0.0	0	0.93	0.0	0	3.27	0.0
Colon	1	1.41	0.7	9	4.64	1.9	8	3.46	2.3	4	4.20	1.0	22	13.70	1.6*
Rectum	1	0.59	1.7	2	1.93	1.0	0	1.41	0.0	2	1.68	1.2	5	5.60	0.9
Liver, biliary	0	0.19	0.0	0	0.62	0.0	1	0.45	2.2	0	0.53	0.0	1	1.79	0.6
Pancreas	0	0.30	0.0	2	0.99	2.0	0	0.75	0.0	0	0.93	0.0	2	2.97	0.7
Respiratory system	1	0.73	1.4	6	2.52	2.4	5	1.93	2.6	6	2.41	2.5	18	7.59	2.4*
Nasal cavities, sinuses	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.05	0.0	0	0.17	0.0
Larynx	0	0.04	0.0	0	0.15	0.0	0	0.12	0.0	1	0.14	7.0	1	0.46	2.2
Trachea, bronchus, lung	1	0.65	1.5	6	2.28	2.6	5	1.75	2.9	5	2.20	2.3	17	6.87	2.5*
Female breast	3	3.08	1.0	16	10.37	1.5	15	7.52	2.0*	11	8.44	1.3	45	29.39	1.5*
Female genital tract	3	1.85	1.6	4	6.14	0.7	7	4.36	1.6	7	4.74	1.5	21	17.09	1.2
Cervix uteri	0	0.39	0.0	2	1.25	1.6	0	0.82	0.0	0	0.78	0.0	2	3.25	0.6
Corpus uteri	2	0.74	2.7	1	2.55	0.4	6	1.91	3.1*	3	2.21	1.4	12	7.41	1.6
Uterus, NOS	0	0.11	0.0	1	0.32	3.2	0	0.19	0.0	1	0.17	5.8	2	0.79	2.5
Ovary, fallopian tubes	1	0.51	2.0	0	1.71	0.0	0	1.22	0.0	3	1.32	2.3	4	4.75	0.8
Kidney, renal pelvis, ureter	1	0.16	6.1	2	0.55	3.6	1	0.41	2.5	1	0.48	2.1	5	1.60	3.1*
Bladder, other urinary	0	0.29	0.0	1	0.95	1.1	0	0.72	0.0	1	0.90	1.1	2	2.84	0.7
Melanoma of the skin	6	0.18	33.5*	5	0.59	8.4*	2	0.42	4.8	3	0.45	6.7*	16	1.64	9.8*
Eye	0	0.02	0.0	0	0.06	0.0	0	0.04	0.0	0	0.05	0.0	0	0.16	0.0
Brain, central nervous system	0	0.12	0.0	0	0.42	0.0	1	0.30	3.4	0	0.33	0.0	1	1.17	0.9
Thyroid gland	0	0.11	0.0	0	0.37	0.0	2	0.25	8.1	1	0.24	4.1	3	0.97	3.1
Bone	0	0.02	0.0	0	0.05	0.0	0	0.03	0.0	0	0.03	0.0	0	0.14	0.0
Connective tissue	0	0.05	0.0	1	0.16	6.2	1	0.11	8.8	0	0.12	0.0	2	0.45	4.5
Lymphatic, hematopoietic system	0	0.70	0.0	1	2.34	0.4	1	1.72	0.6	2	2.04	1.0	4	6.79	0.6
Non-Hodgkin's lymphoma	0	0.27	0.0	1	0.90	1.1	0	0.67	0.0	0	0.81	0.0	1	2.64	0.4
Hodgkin's disease	0	0.07	0.0	0	0.21	0.0	1	0.14	7.1	0	0.13	0.0	1	0.55	1.8
Multiple myeloma	0	0.11	0.0	0	0.39	0.0	0	0.30	0.0	0	0.37	0.0	0	1.17	0.0
Leukemias	0	0.25	0.0	0	0.84	0.0	0	0.61	0.0	2	0.73	2.7	2	2.43	0.8
Chronic lymphocytic	0	0.07	0.0	0	0.23	0.0	0	0.17	0.0	1	0.21	4.7	1	0.68	1.5
Acute nonlymphocytic	0	0.09	0.0	0	0.30	0.0	0	0.23	0.0	1	0.27	3.7	1	0.89	1.1

+ ICD-O code = 173, morphology codes 8720-8780.

\* P<.05.