

MELANOMA
BOTH SEXES

TABLE 1A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial malignant melanoma of the skin, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	2,857	4,354	7,211
No. who developed a second primary cancer	111	201	312
Average age at diagnosis of first cancer, yr	54	53	53
Average yr of diagnosis of first cancer	1969	1969	1969
Person-yr of follow-up	13,671	29,323	42,994
Average follow-up, yr	4.8	6.7	6.1
Percent given radiotherapy for first cancer	19	13	15

+ ICD-7 code = 190.

* 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 Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	247	79.2
Only the first cancer	36	11.5
Only the second cancer	22	7.1
Neither first nor second cancer	7	2.2
Total second primary cancers	312	100.0

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

MELANOMA
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 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	7,211			5,927			2,800			1,459			7,211		
Person-yr in interval	6,594			16,114			10,066			10,219			42,994		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	34	43.98	0.8	130	109.41	1.2	75	72.41	1.0	73	84.06	0.9	312	309.85	1.0
All excluding site of initial cancer	34	43.29	0.8	128	107.63	1.2	74	71.20	1.0	72	82.68	0.9	308	304.80	1.0
Buccal cavity, pharynx	1	0.97	1.0	4	2.26	1.8	2	1.38	1.4	2	1.55	1.3	9	6.16	1.5
Lip	0	0.40	0.0	2	0.87	2.3	0	0.50	0.0	0	0.52	0.0	2	2.29	0.9
Tongue	0	0.10	0.0	0	0.25	0.0	1	0.16	6.3	0	0.18	0.0	1	0.68	1.5
Salivary gland	0	0.12	0.0	1	0.29	3.4	0	0.18	0.0	1	0.19	5.3	2	0.79	2.5
Gum, other mouth	0	0.18	0.0	1	0.45	2.2	1	0.30	3.3	0	0.38	0.0	2	1.30	1.5
Pharynx	1	0.17	5.9	0	0.40	0.0	0	0.25	0.0	1	0.29	3.4	2	1.10	1.8
Digestive system	7	14.37	0.5	49	34.81	1.4*	21	22.53	0.9	19	26.59	0.7	96	98.30	1.0
Esophagus	0	0.51	0.0	0	1.19	0.0	0	0.73	0.0	0	0.83	0.0	0	3.27	0.0
Stomach	5	3.84	1.3	9	8.84	1.0	4	5.33	0.8	2	5.77	0.3	20	23.77	0.8
Colon	0	4.04	0.0*	15	10.14	1.5	9	6.88	1.3	6	8.50	0.7	30	29.54	1.0
Rectum	1	2.89	0.3	14	6.96	2.0*	4	4.43	0.9	8	5.14	1.6	27	19.42	1.4
Liver, biliary	1	1.04	1.0	2	2.65	0.8	0	1.84	0.0	1	2.30	0.4	4	7.82	0.5
Pancreas	0	1.52	0.0	3	3.79	0.8	1	2.55	0.4	2	3.16	0.6	6	11.02	0.5
Respiratory system	2	5.39	0.4	11	12.89	0.9	8	8.02	1.0	12	9.30	1.3	33	35.60	0.9
Nasal cavities, sinuses	0	0.10	0.0	0	0.22	0.0	0	0.14	0.0	0	0.15	0.0	0	0.61	0.0
Larynx	0	0.36	0.0	0	0.84	0.0	0	0.50	0.0	0	0.56	0.0	0	2.25	0.0
Trachea, bronchus, lung	2	4.67	0.4	10	11.21	0.9	7	6.98	1.0	12	8.14	1.5	31	31.01	1.0
Female breast	7	5.58	1.3	15	15.26	1.0	13	11.20	1.2	13	13.00	1.0	48	45.04	1.1
Female genital tract	6	5.30	1.1	18	14.34	1.3	11	10.29	1.1	7	11.42	0.6	42	41.35	1.0
Cervix uteri	4	2.04	2.0	4	5.47	0.7	4	3.76	1.1	0	3.70	0.0*	12	14.97	0.8
Corpus uteri	1	1.39	0.7	9	3.82	2.4*	4	2.85	1.4	3	3.42	0.9	17	11.48	1.5
Uterus, NOS	0	0.09	0.0	1	0.23	4.4	0	0.15	0.0	0	0.17	0.0	1	0.64	1.6
Ovary, fallopian tubes	1	1.49	0.7	4	4.07	1.0	2	2.98	0.7	4	3.44	1.2	11	11.99	0.9
Prostate gland	1	2.42	0.4	4	5.40	0.7	3	3.11	1.0	3	3.65	0.8	11	14.58	0.8
Testis	0	0.18	0.0	0	0.39	0.0	0	0.19	0.0	0	0.19	0.0	0	0.95	0.0
Kidney, renal pelvis, ureter	1	1.27	0.8	4	3.16	1.3	5	2.09	2.4	2	2.49	0.8	12	9.02	1.3
Bladder, other urinary	5	2.26	2.2	5	5.44	0.9	3	3.43	0.9	2	4.07	0.5	15	15.20	1.0
Melanoma of the skin	0	0.69	0.0	2	1.78	1.1	1	1.21	0.8	1	1.38	0.7	4	5.05	0.8
Eye	1	0.13	7.7	1	0.31	3.2	0	0.20	0.0	0	0.23	0.0	2	0.88	2.3
Brain, central nervous system	0	0.96	0.0	3	2.40	1.3	2	1.59	1.3	3	1.77	1.7	8	6.71	1.2
Thyroid gland	0	0.23	0.0	1	0.58	1.7	0	0.40	0.0	1	0.47	2.1	2	1.67	1.2
Bone	1	0.08	12.5	1	0.19	5.3	0	0.11	0.0	0	0.12	0.0	2	0.51	3.9
Connective tissue	0	0.15	0.0	1	0.38	2.6	0	0.23	0.0	0	0.26	0.0	1	1.02	1.0
Lymphatic, hematopoietic system	1	2.58	0.4	6	6.34	0.9	3	4.15	0.7	5	4.92	1.0	15	17.98	0.8
Non-Hodgkin's lymphoma	0	0.74	0.0	1	1.84	0.5	2	1.21	1.7	2	1.46	1.4	5	5.25	1.0
Hodgkin's disease	0	0.23	0.0	1	0.55	1.8	0	0.35	0.0	0	0.37	0.0	1	1.50	0.7
Multiple myeloma	0	0.47	0.0	1	1.16	0.9	0	0.78	0.0	0	0.94	0.0	1	3.34	0.3
Leukemias	1	1.11	0.9	3	2.71	1.1	1	1.78	0.6	3	2.10	1.4	8	7.71	1.0
Chronic lymphocytic	1	0.52	1.9	3	1.25	2.4	1	0.81	1.2	2	0.96	2.1	7	3.53	2.0
Acute nonlymphocytic	0	0.33	0.0	0	0.84	0.0	0	0.57	0.0	1	0.70	1.4	1	2.44	0.4

+ ICD-7 code = 190.

* 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 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	2,857			2,227			849			396			2,857		
Person-yr in interval	2,552			5,471			2,854			2,794			13,671		
All second cancers	15	19.27	0.8	50	42.66	1.2	23	23.81	1.0	23	26.16	0.9	111	111.90	1.0
All excluding site of initial cancer	15	19.04	0.8	48	42.15	1.1	22	23.53	0.9	22	25.86	0.9	107	110.59	1.0
Buccal cavity, pharynx	0	0.65	0.0	2	1.42	1.4	1	0.77	1.3	0	0.80	0.0	3	3.64	0.8
Lip	0	0.35	0.0	1	0.75	1.3	0	0.41	0.0	0	0.41	0.0	1	1.92	0.5
Tongue	0	0.05	0.0	0	0.11	0.0	1	0.06	17.1	0	0.06	0.0	1	0.27	3.6
Salivary gland	0	0.05	0.0	0	0.11	0.0	0	0.06	0.0	0	0.06	0.0	0	0.29	0.0
Gum, other mouth	0	0.09	0.0	1	0.21	4.9	0	0.12	0.0	0	0.13	0.0	1	0.54	1.9
Pharynx	0	0.11	0.0	0	0.24	0.0	0	0.13	0.0	0	0.14	0.0	0	0.62	0.0
Digestive system	4	6.93	0.6	22	15.07	1.5	9	8.27	1.1	7	8.95	0.8	42	39.22	1.1
Esophagus	0	0.31	0.0	0	0.67	0.0	0	0.36	0.0	0	0.37	0.0	0	1.71	0.0
Stomach	3	2.10	1.4	2	4.44	0.5	1	2.35	0.4	0	2.40	0.0	6	11.29	0.5
Colon	0	1.62	0.0	7	3.60	1.9	6	2.03	3.0*	3	2.30	1.3	16	9.55	1.7
Rectum	1	1.55	0.6	8	3.37	2.4*	2	1.85	1.1	4	1.99	2.0	15	8.75	1.7
Liver, biliary	0	0.39	0.0	0	0.87	0.0	0	0.50	0.0	0	0.57	0.0	0	2.33	0.0
Pancreas	0	0.73	0.0	2	1.64	1.2	0	0.93	0.0	0	1.05	0.0	2	4.35	0.5
Respiratory system	1	4.05	0.2	9	9.14	1.0	3	5.16	0.6	7	5.65	1.2	20	24.00	0.8
Nasal cavities, sinuses	0	0.06	0.0	0	0.12	0.0	0	0.07	0.0	0	0.07	0.0	0	0.32	0.0
Larynx	0	0.30	0.0	0	0.67	0.0	0	0.37	0.0	0	0.40	0.0	0	1.74	0.0
Trachea, bronchus, lung	1	3.52	0.3	8	7.98	1.0	2	4.51	0.4	7	4.95	1.4	18	20.96	0.9
Prostate gland	1	2.42	0.4	4	5.40	0.7	3	3.11	1.0	3	3.65	0.8	11	14.58	0.8
Testis	0	0.18	0.0	0	0.39	0.0	0	0.19	0.0	0	0.19	0.0	0	0.95	0.0
Kidney, renal pelvis, ureter	1	0.65	1.5	1	1.45	0.7	3	0.82	3.6	1	0.91	1.1	6	3.83	1.6
Bladder, other urinary	5	1.61	3.1*	4	3.64	1.1	1	2.08	0.5	1	2.34	0.4	11	9.67	1.1
Melanoma of the skin	0	0.23	0.0	2	0.51	3.9	1	0.28	3.6	1	0.30	3.4	4	1.31	3.1
Eye	0	0.06	0.0	0	0.13	0.0	0	0.07	0.0	0	0.08	0.0	0	0.35	0.0
Brain, central nervous system	0	0.40	0.0	1	0.88	1.1	1	0.48	2.1	0	0.49	0.0	2	2.24	0.9
Thyroid gland	0	0.06	0.0	0	0.13	0.0	0	0.07	0.0	0	0.08	0.0	0	0.33	0.0
Bone	1	0.04	26.0	1	0.08	12.2	0	0.04	0.0	0	0.04	0.0	2	0.21	9.6*
Connective tissue	0	0.07	0.0	0	0.16	0.0	0	0.08	0.0	0	0.09	0.0	0	0.40	0.0
Lymphatic, hematopoietic system	1	1.30	0.8	4	2.87	1.4	1	1.61	0.6	1	1.77	0.6	7	7.54	0.9
Non-Hodgkin's lymphoma	0	0.35	0.0	1	0.78	1.3	0	0.43	0.0	0	0.47	0.0	1	2.03	0.5
Hodgkin's disease	0	0.12	0.0	0	0.25	0.0	0	0.14	0.0	0	0.14	0.0	0	0.65	0.0
Multiple myeloma	0	0.23	0.0	1	0.50	2.0	0	0.29	0.0	0	0.32	0.0	1	1.34	0.7
Leukemias	1	0.59	1.7	2	1.30	1.5	1	0.74	1.4	1	0.82	1.2	5	3.45	1.4
Chronic lymphocytic	1	0.31	3.2	2	0.68	2.9	1	0.39	2.6	1	0.43	2.3	5	1.81	2.8
Acute nonlymphocytic	0	0.15	0.0	0	0.35	0.0	0	0.20	0.0	0	0.23	0.0	0	0.94	0.0

+ ICD-7 code = 190.

* 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 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	4,354			3,700			1,951			1,063			4,354		
Person-yr in interval	4,042			10,643			7,212			7,426			29,323		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	19	24.71	0.8	80	66.75	1.2	52	48.60	1.1	50	57.90	0.9	201	197.95	1.0
All excluding site of initial cancer	19	24.25	0.8	80	65.48	1.2	52	47.67	1.1	50	56.82	0.9	201	194.21	1.0
Buccal cavity, pharynx	1	0.32	3.1	2	0.84	2.4	1	0.61	1.6	2	0.75	2.7	6	2.52	2.4
Lip	0	0.05	0.0	1	0.12	8.2	0	0.09	0.0	0	0.11	0.0	1	0.37	2.7
Tongue	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
Salivary gland	0	0.07	0.0	1	0.18	5.4	0	0.12	0.0	1	0.13	7.9	2	0.50	4.0
Gum, other mouth	0	0.09	0.0	0	0.24	0.0	1	0.18	5.5	0	0.25	0.0	1	0.76	1.3
Pharynx	1	0.06	16.5	0	0.16	0.0	0	0.12	0.0	1	0.15	6.9	2	0.48	4.1
Digestive system	3	7.44	0.4	27	19.74	1.4	12	14.26	0.8	12	17.64	0.7	54	59.08	0.9
Esophagus	0	0.20	0.0	0	0.52	0.0	0	0.37	0.0	0	0.46	0.0	0	1.56	0.0
Stomach	2	1.74	1.2	7	4.40	1.6	3	2.98	1.0	2	3.37	0.6	14	12.48	1.1
Colon	0	2.42	0.0	8	6.54	1.2	3	4.85	0.6	3	6.20	0.5	14	19.99	0.7
Rectum	0	1.34	0.0	6	3.59	1.7	2	2.58	0.8	4	3.15	1.3	12	10.67	1.1
Liver, biliary	1	0.65	1.5	2	1.78	1.1	0	1.34	0.0	1	1.73	0.6	4	5.49	0.7
Pancreas	0	0.79	0.0	1	2.15	0.5	1	1.62	0.6	2	2.11	0.9	4	6.67	0.6
Respiratory system	1	1.34	0.7	2	3.75	0.5	5	2.86	1.7	5	3.65	1.4	13	11.60	1.1
Nasal cavities, sinuses	0	0.04	0.0	0	0.10	0.0	0	0.07	0.0	0	0.08	0.0	0	0.29	0.0
Larynx	0	0.06	0.0	0	0.17	0.0	0	0.13	0.0	0	0.16	0.0	0	0.51	0.0
Trachea, bronchus, lung	1	1.15	0.9	2	3.23	0.6	5	2.47	2.0	5	3.19	1.6	13	10.05	1.3
Female breast	7	5.58	1.3	15	15.26	1.0	13	11.20	1.2	13	13.00	1.0	48	45.04	1.1
Female genital tract	6	5.30	1.1	18	14.34	1.3	11	10.29	1.1	7	11.42	0.6	42	41.35	1.0
Cervix uteri	4	2.04	2.0	4	5.47	0.7	4	3.76	1.1	0	3.70	0.0*	12	14.97	0.8
Corpus uteri	1	1.39	0.7	9	3.82	2.4*	4	2.85	1.4	3	3.42	0.9	17	11.48	1.5
Uterus, NOS	0	0.09	0.0	1	0.23	4.4	0	0.15	0.0	0	0.17	0.0	1	0.64	1.6
Ovary, fallopian tubes	1	1.49	0.7	4	4.07	1.0	2	2.98	0.7	4	3.44	1.2	11	11.99	0.9
Kidney, renal pelvis, ureter	0	0.62	0.0	3	1.71	1.8	2	1.27	1.6	1	1.58	0.6	6	5.19	1.2
Bladder, other urinary	0	0.65	0.0	1	1.80	0.6	2	1.35	1.5	1	1.73	0.6	4	5.53	0.7
Melanoma of the skin	0	0.46	0.0	0	1.27	0.0	0	0.93	0.0	0	1.08	0.0	0	3.74	0.0*
Eye	1	0.07	14.7	1	0.18	5.5	0	0.13	0.0	0	0.15	0.0	2	0.53	3.8
Brain, central nervous system	0	0.56	0.0	2	1.52	1.3	1	1.11	0.9	3	1.28	2.3	6	4.47	1.3
Thyroid gland	0	0.17	0.0	1	0.45	2.2	0	0.33	0.0	1	0.39	2.6	2	1.34	1.5
Bone	0	0.04	0.0	0	0.11	0.0	0	0.07	0.0	0	0.08	0.0	0	0.30	0.0
Connective tissue	0	0.08	0.0	1	0.22	4.6	0	0.15	0.0	0	0.17	0.0	1	0.62	1.6
Lymphatic, hematopoietic system	0	1.28	0.0	2	3.47	0.6	2	2.54	0.8	4	3.15	1.3	8	10.44	0.8
Non-Hodgkin's lymphoma	0	0.39	0.0	0	1.06	0.0	2	0.78	2.5	2	0.99	2.0	4	3.22	1.2
Hodgkin's disease	0	0.11	0.0	1	0.30	3.3	0	0.21	0.0	0	0.23	0.0	1	0.85	1.2
Multiple myeloma	0	0.24	0.0	0	0.66	0.0	0	0.49	0.0	0	0.62	0.0	0	2.00	0.0
Leukemias	0	0.52	0.0	1	1.41	0.7	0	1.04	0.0	2	1.28	1.6	3	4.26	0.7
Chronic lymphocytic	0	0.21	0.0	1	0.57	1.8	0	0.42	0.0	1	0.53	1.9	2	1.72	1.2
Acute nonlymphocytic	0	0.18	0.0	0	0.49	0.0	0	0.37	0.0	1	0.47	2.1	1	1.50	0.7

+ ICD-7 code = 190.

* P<.05.