

MULTIPLE MYELOMA  
BOTH SEXES

TABLE 3A. -- Characteristics of persons reported to the Connecticut Tumor Registry with an initial multiple myeloma, 1935-82+

Category	Male	Female	Total
No. with first primary cancer*	1,107	1,142	2,249
No. who developed a second primary cancer	46	27	73
Average age at diagnosis of first cancer, yr	64	67	65
Average yr of diagnosis of first cancer	1968	1969	1969
Person-yr of follow-up	2,258	2,247	4,505
Average follow-up, yr	2.0	2.0	2.0
Percent given radiotherapy for first cancer	39.7	36.6	38.1

+ ICD-0 morphology codes = 9730-9731.

\* 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 3B. -- Microscopic confirmation among persons who developed second primary cancers after an initial multiple myeloma in Connecticut, 1935-82

Microscopically confirmed	No.	Percent+
Both first and second cancers	56	76.7
Only the first cancer	3	4.1
Only the second cancer	13	17.8
Neither first nor second cancer	1	1.4
Total second primary cancers	73	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 3C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial multiple myeloma 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	2,249		1,335			225			43			2,249		
Person-yr in interval	1,374		2,414			537			181			4,505			
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	19	17.36	1.1	40	31.48	1.3	9	7.12	1.3	5	3.03	1.7	73	58.94	1.2
All excluding site of initial cancer	19	17.15	1.1	40	31.10	1.3	9	7.03	1.3	5	2.99	1.7	73	58.22	1.3
Buccal cavity, pharynx	0	0.60	0.0	0	1.06	0.0	1	0.25	4.0	0	0.10	0.0	1	2.00	0.5
Lip	0	0.08	0.0	0	0.13	0.0	0	0.03	0.0	0	0.02	0.0	0	0.26	0.0
Tongue	0	0.12	0.0	0	0.21	0.0	0	0.05	0.0	0	0.02	0.0	0	0.40	0.0
Salivary gland	0	0.04	0.0	0	0.07	0.0	0	0.02	0.0	0	0.01	0.0	0	0.14	0.0
Gum, other mouth	0	0.18	0.0	0	0.33	0.0	1	0.08	13.1	0	0.03	0.0	1	0.61	1.6
Pharynx	0	0.15	0.0	0	0.27	0.0	0	0.07	0.0	0	0.02	0.0	0	0.51	0.0
Digestive system	6	5.38	1.1	16	9.64	1.7	0	2.17	0.0	1	0.95	1.1	23	18.13	1.3
Esophagus	0	0.25	0.0	1	0.44	2.3	0	0.10	0.0	1	0.04	23.6	2	0.83	2.4
Stomach	2	0.76	2.6	3	1.27	2.4	0	0.28	0.0	0	0.13	0.0	5	2.44	2.0
Colon	3	2.33	1.3	6	4.26	1.4	0	0.95	0.0	0	0.43	0.0	9	7.96	1.1
Rectum	0	1.09	0.0	2	1.95	1.0	0	0.44	0.0	0	0.18	0.0	2	3.65	0.5
Liver, biliary	1	0.31	3.3	0	0.55	0.0	0	0.12	0.0	0	0.05	0.0	1	1.03	1.0
Pancreas	0	0.56	0.0	3	1.02	3.0	0	0.23	0.0	0	0.10	0.0	3	1.90	1.6
Respiratory system	1	2.60	0.4	7	4.89	1.4	2	1.17	1.7	0	0.47	0.0	10	9.11	1.1
Nasal cavities, sinuses	0	0.03	0.0	0	0.06	0.0	0	0.01	0.0	0	0.01	0.0	0	0.11	0.0
Larynx	0	0.25	0.0	0	0.46	0.0	0	0.11	0.0	0	0.04	0.0	0	0.86	0.0
Trachea, bronchus, lung	1	2.29	0.4	7	4.33	1.6	2	1.03	1.9	0	0.42	0.0	10	8.06	1.2
Female breast	3	1.88	1.6	0	3.46	0.0	1	0.76	1.3	0	0.21	0.0	4	6.30	0.6
Female genital tract	1	1.13	0.9	1	1.99	0.5	1	0.42	2.4	0	0.10	0.0	3	3.64	0.8
Cervix uteri	1	0.19	5.4	0	0.29	0.0	1	0.06	17.7	0	0.01	0.0	2	0.55	3.6
Corpus uteri	0	0.50	0.0	0	0.92	0.0	0	0.21	0.0	0	0.05	0.0	0	1.68	0.0
Uterus, NOS	0	0.06	0.0	0	0.08	0.0	0	0.01	0.0	0	0.00	0.0	0	0.16	0.0
Ovary, fallopian tubes	0	0.31	0.0	1	0.56	1.8	0	0.12	0.0	0	0.03	0.0	1	1.02	1.0
Prostate gland	3	1.84	1.6	2	3.26	0.6	2	0.72	2.8	2	0.48	4.2	9	6.28	1.4
Testis	0	0.01	0.0	0	0.03	0.0	0	0.01	0.0	0	0.00	0.0	0	0.05	0.0
Kidney, renal pelvis, ureter	2	0.37	5.4	1	0.68	1.5	0	0.16	0.0	0	0.06	0.0	3	1.27	2.4
Bladder, other urinary	1	0.96	1.0	1	1.76	0.6	0	0.40	0.0	0	0.20	0.0	2	3.31	0.6
Melanoma of the skin	0	0.20	0.0	1	0.38	2.6	0	0.09	0.0	0	0.03	0.0	1	0.69	1.4
Eye	0	0.03	0.0	0	0.05	0.0	0	0.01	0.0	0	0.00	0.0	0	0.08	0.0
Brain, central nervous system	0	0.18	0.0	0	0.33	0.0	0	0.08	0.0	0	0.03	0.0	0	0.62	0.0
Thyroid gland	1	0.07	13.7	0	0.13	0.0	0	0.03	0.0	0	0.01	0.0	1	0.24	4.2
Bone	0	0.02	0.0	0	0.04	0.0	0	0.01	0.0	0	0.00	0.0	0	0.07	0.0
Connective tissue	0	0.08	0.0	0	0.14	0.0	0	0.03	0.0	0	0.01	0.0	0	0.26	0.0
Lymphatic, hematopoietic system	0	1.19	0.0	10	2.17	4.6*	2	0.49	4.1	0	0.21	0.0	12	4.07	3.0*
Non-Hodgkin's lymphoma	0	0.41	0.0	2	0.77	2.6	0	0.18	0.0	0	0.07	0.0	2	1.44	1.4
Hodgkin's disease	0	0.07	0.0	0	0.13	0.0	0	0.03	0.0	0	0.01	0.0	0	0.24	0.0
Multiple myeloma	0	0.21	0.0	0	0.38	0.0	0	0.09	0.0	0	0.04	0.0	0	0.72	0.0
Leukemias	0	0.49	0.0	8	0.88	9.1*	2	0.20	10.1*	0	0.09	0.0	10	1.67	6.0*
Chronic lymphocytic	0	0.16	0.0	0	0.29	0.0	0	0.07	0.0	0	0.03	0.0	0	0.54	0.0
Acute nonlymphocytic	0	0.16	0.0	7	0.30	23.2*	2	0.07	30.3*	0	0.03	0.0	9	0.56	16.0*

+ ICD-O morphology codes = 9730-9731.

\* P<.05.

MULTIPLE MYELOMA  
MALES

TABLE 3D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial multiple myeloma 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	1,107			653			115			27			1,107		
Person-yr in interval	668			1,189			281			120			2,258		
All second cancers	12	9.87	1.2	25	17.59	1.4	4	4.06	1.0	5	2.14	2.3	46	33.63	1.4*
All excluding site of initial cancer	12	9.76	1.2	25	17.40	1.4	4	4.02	1.0	5	2.12	2.4	46	33.27	1.4*
Buccal cavity, pharynx	0	0.47	0.0	0	0.81	0.0	1	0.19	5.2	0	0.08	0.0	1	1.55	0.6
Lip	0	0.08	0.0	0	0.12	0.0	0	0.03	0.0	0	0.02	0.0	0	0.24	0.0
Tongue	0	0.09	0.0	0	0.16	0.0	0	0.04	0.0	0	0.01	0.0	0	0.31	0.0
Salivary gland	0	0.02	0.0	0	0.04	0.0	0	0.01	0.0	0	0.01	0.0	0	0.09	0.0
Gum, other mouth	0	0.13	0.0	0	0.24	0.0	1	0.06	18.0	0	0.02	0.0	1	0.45	2.2
Pharynx	0	0.12	0.0	0	0.22	0.0	0	0.05	0.0	0	0.02	0.0	0	0.41	0.0
Digestive system	4	3.03	1.3	8	5.29	1.5	0	1.23	0.0	1	0.64	1.6	13	10.17	1.3
Esophagus	0	0.20	0.0	1	0.34	3.0	0	0.08	0.0	1	0.04	28.1	2	0.65	3.1
Stomach	2	0.49	4.0	2	0.81	2.5	0	0.19	0.0	0	0.10	0.0	4	1.59	2.5
Colon	2	1.19	1.7	2	2.11	0.9	0	0.48	0.0	0	0.27	0.0	4	4.05	1.0
Rectum	0	0.64	0.0	0	1.12	0.0	0	0.26	0.0	0	0.12	0.0	0	2.13	0.0
Liver, biliary	0	0.16	0.0	0	0.28	0.0	0	0.06	0.0	0	0.03	0.0	0	0.53	0.0
Pancreas	0	0.31	0.0	2	0.55	3.6	0	0.13	0.0	0	0.07	0.0	2	1.05	1.9
Respiratory system	1	2.09	0.5	6	3.85	1.6	1	0.91	1.1	0	0.41	0.0	8	7.25	1.1
Nasal cavities, sinuses	0	0.02	0.0	0	0.04	0.0	0	0.01	0.0	0	0.00	0.0	0	0.07	0.0
Larynx	0	0.22	0.0	0	0.40	0.0	0	0.10	0.0	0	0.03	0.0	0	0.76	0.0
Trachea, bronchus, lung	1	1.83	0.5	6	3.38	1.8	1	0.80	1.3	0	0.37	0.0	8	6.36	1.3
Prostate gland	3	1.84	1.6	2	3.26	0.6	2	0.72	2.8	2	0.48	4.2	9	6.28	1.4
Testis	0	0.01	0.0	0	0.03	0.0	0	0.01	0.0	0	0.00	0.0	0	0.05	0.0
Kidney, renal pelvis, ureter	1	0.25	4.0	1	0.45	2.2	0	0.11	0.0	0	0.05	0.0	2	0.86	2.3
Bladder, other urinary	1	0.73	1.4	1	1.33	0.8	0	0.30	0.0	0	0.17	0.0	2	2.53	0.8
Melanoma of the skin	0	0.11	0.0	1	0.22	4.5	0	0.05	0.0	0	0.02	0.0	1	0.41	2.5
Eye	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	0	0.00	0.0	0	0.04	0.0
Brain, central nervous system	0	0.11	0.0	0	0.20	0.0	0	0.05	0.0	0	0.02	0.0	0	0.37	0.0
Thyroid gland	1	0.03	38.9	0	0.05	0.0	0	0.01	0.0	0	0.00	0.0	1	0.09	11.4
Bone	0	0.01	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.04	0.0
Connective tissue	0	0.05	0.0	0	0.08	0.0	0	0.02	0.0	0	0.01	0.0	0	0.16	0.0
Lymphatic, hematopoietic system	0	0.67	0.0	5	1.18	4.2*	0	0.27	0.0	0	0.14	0.0	5	2.26	2.2
Non-Hodgkin's lymphoma	0	0.22	0.0	0	0.39	0.0	0	0.09	0.0	0	0.05	0.0	0	0.75	0.0
Hodgkin's disease	0	0.04	0.0	0	0.08	0.0	0	0.02	0.0	0	0.01	0.0	0	0.14	0.0
Multiple myeloma	0	0.11	0.0	0	0.19	0.0	0	0.04	0.0	0	0.02	0.0	0	0.36	0.0
Leukemias	0	0.30	0.0	5	0.52	9.6*	0	0.12	0.0	0	0.07	0.0	5	1.00	5.0*
Chronic lymphocytic	0	0.10	0.0	0	0.18	0.0	0	0.04	0.0	0	0.02	0.0	0	0.34	0.0
Acute nonlymphocytic	0	0.09	0.0	4	0.17	23.6*	0	0.04	0.0	0	0.02	0.0	4	0.32	12.5*

+ ICD-O morphology codes = 9730-9731.

\* P<.05.

MULTIPLE MYELOMA  
FEMALES

TABLE 3E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial multiple myeloma 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	1,142			682			110			16			1,142		
Person-yr in interval	706			1,224			256			61			2,247		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	7	7.49	0.9	15	13.89	1.1	5	3.06	1.6	0	0.89	0.0	27	25.31	1.1
All excluding site of initial cancer	7	7.39	0.9	15	13.70	1.1	5	3.02	1.7	0	0.88	0.0	27	24.96	1.1
Buccal cavity, pharynx	0	0.13	0.0	0	0.25	0.0	0	0.06	0.0	0	0.01	0.0	0	0.45	0.0
Lip	0	0.01	0.0	0	0.01	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Tongue	0	0.03	0.0	0	0.05	0.0	0	0.01	0.0	0	0.00	0.0	0	0.09	0.0
Salivary gland	0	0.02	0.0	0	0.03	0.0	0	0.01	0.0	0	0.00	0.0	0	0.05	0.0
Gum, other mouth	0	0.05	0.0	0	0.09	0.0	0	0.02	0.0	0	0.01	0.0	0	0.16	0.0
Pharynx	0	0.03	0.0	0	0.05	0.0	0	0.01	0.0	0	0.00	0.0	0	0.10	0.0
Digestive system	2	2.35	0.9	8	4.35	1.8	0	0.95	0.0	0	0.31	0.0	10	7.95	1.3
Esophagus	0	0.05	0.0	0	0.10	0.0	0	0.02	0.0	0	0.01	0.0	0	0.18	0.0
Stomach	0	0.27	0.0	1	0.46	2.2	0	0.09	0.0	0	0.03	0.0	1	0.85	1.2
Colon	1	1.14	0.9	4	2.15	1.9	0	0.47	0.0	0	0.16	0.0	5	3.92	1.3
Rectum	0	0.45	0.0	2	0.83	2.4	0	0.18	0.0	0	0.06	0.0	2	1.52	1.3
Liver, biliary	1	0.15	6.6	0	0.27	0.0	0	0.06	0.0	0	0.02	0.0	1	0.50	2.0
Pancreas	0	0.25	0.0	1	0.47	2.1	0	0.10	0.0	0	0.03	0.0	1	0.85	1.2
Respiratory system	0	0.51	0.0	1	1.04	1.0	1	0.25	4.0	0	0.06	0.0	2	1.86	1.1
Nasal cavities, sinuses	0	0.01	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.04	0.0
Larynx	0	0.03	0.0	0	0.05	0.0	0	0.01	0.0	0	0.00	0.0	0	0.10	0.0
Trachea, bronchus, lung	0	0.47	0.0	1	0.95	1.1	1	0.23	4.3	0	0.05	0.0	2	1.70	1.2
Female breast	3	1.88	1.6	0	3.46	0.0	1	0.76	1.3	0	0.21	0.0	4	6.30	0.6
Female genital tract	1	1.13	0.9	1	1.99	0.5	1	0.42	2.4	0	0.10	0.0	3	3.64	0.8
Cervix uteri	1	0.19	5.4	0	0.29	0.0	1	0.06	17.7	0	0.01	0.0	2	0.55	3.6
Corpus uteri	0	0.50	0.0	0	0.92	0.0	0	0.21	0.0	0	0.05	0.0	0	1.68	0.0
Uterus, NOS	0	0.06	0.0	0	0.08	0.0	0	0.01	0.0	0	0.00	0.0	0	0.16	0.0
Ovary, fallopian tubes	0	0.31	0.0	1	0.56	1.8	0	0.12	0.0	0	0.03	0.0	1	1.02	1.0
Kidney, renal pelvis, ureter	1	0.12	8.2	0	0.23	0.0	0	0.05	0.0	0	0.01	0.0	1	0.41	2.4
Bladder, other urinary	0	0.22	0.0	0	0.43	0.0	0	0.10	0.0	0	0.03	0.0	0	0.78	0.0
Melanoma of the skin	0	0.08	0.0	0	0.16	0.0	0	0.04	0.0	0	0.01	0.0	0	0.29	0.0
Eye	0	0.01	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.04	0.0
Brain, central nervous system	0	0.07	0.0	0	0.14	0.0	0	0.03	0.0	0	0.01	0.0	0	0.25	0.0
Thyroid gland	0	0.05	0.0	0	0.08	0.0	0	0.02	0.0	0	0.00	0.0	0	0.15	0.0
Bone	0	0.01	0.0	0	0.02	0.0	0	0.00	0.0	0	0.00	0.0	0	0.03	0.0
Connective tissue	0	0.03	0.0	0	0.05	0.0	0	0.01	0.0	0	0.00	0.0	0	0.10	0.0
Lymphatic, hematopoietic system	0	0.52	0.0	5	0.99	5.0*	2	0.22	9.0*	0	0.07	0.0	7	1.81	3.9*
Non-Hodgkin's lymphoma	0	0.20	0.0	2	0.38	5.2	0	0.09	0.0	0	0.03	0.0	2	0.69	2.9
Hodgkin's disease	0	0.03	0.0	0	0.05	0.0	0	0.01	0.0	0	0.00	0.0	0	0.10	0.0
Multiple myeloma	0	0.10	0.0	0	0.19	0.0	0	0.04	0.0	0	0.01	0.0	0	0.35	0.0
Leukemias	0	0.19	0.0	3	0.36	8.3*	2	0.08	25.0*	0	0.03	0.0	5	0.66	7.5*
Chronic lymphocytic	0	0.06	0.0	0	0.11	0.0	0	0.02	0.0	0	0.01	0.0	0	0.20	0.0
Acute nonlymphocytic	0	0.07	0.0	3	0.13	22.7*	2	0.03	66.8*	0	0.01	0.0	5	0.24	20.8*

+ ICD-O morphology codes = 9730-9731.

\* P<.05.