

HODGKIN'S  
BOTH SEXES

TABLE 2A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial Hodgkin's disease, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	2,307	1,542	3,849
No. who developed a second primary cancer	64	41	105
Average age at diagnosis of first cancer, yr	42	43	42
Average yr of diagnosis of first cancer	1964	1964	1964
Person-yr of follow-up	9,994	7,685	17,679
Average follow-up, yr	4.3	5.0	4.6
Percent given radiotherapy for first cancer	64	67	65

+ ICD-7 code = 201.

\* 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 Hodgkin's disease in Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	88	83.8
Only the first cancer	5	4.8
Only the second cancer	10	9.5
Neither first nor second cancer	2	1.9
Total second primary cancers	105	100.0

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

HODGKIN'S  
BOTH SEXES

TABLE 2C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial Hodgkin's disease 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	3,849			2,738			1,202			534			3,849		
Person-yr in interval	3,277			7,234			4,127			3,040			17,679		
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
All second cancers	10	11.67	0.9	27	22.68	1.2	34	14.09	2.4*	34	15.33	2.2*	105	63.78	1.6*
All excluding site of initial cancer	10	11.55	0.9	27	22.42	1.2	34	13.95	2.4*	34	15.23	2.2*	105	63.16	1.7*
Buccal cavity, pharynx	0	0.32	0.0	0	0.60	0.0	1	0.37	2.7	1	0.37	2.7	2	1.65	1.2
Lip	0	0.15	0.0	0	0.28	0.0	0	0.16	0.0	0	0.17	0.0	0	0.76	0.0
Tongue	0	0.03	0.0	0	0.05	0.0	1	0.03	33.3	0	0.03	0.0	1	0.14	7.1
Salivary gland	0	0.04	0.0	0	0.09	0.0	0	0.05	0.0	0	0.04	0.0	0	0.21	0.0
Gum, other mouth	0	0.04	0.0	0	0.09	0.0	0	0.06	0.0	0	0.06	0.0	0	0.25	0.0
Pharynx	0	0.05	0.0	0	0.10	0.0	0	0.06	0.0	1	0.07	14.3	1	0.30	3.3
Digestive system	2	3.72	0.5	10	6.62	1.5	5	3.94	1.3	5	4.23	1.2	22	18.50	1.2
Esophagus	0	0.14	0.0	0	0.24	0.0	0	0.15	0.0	1	0.15	6.7	1	0.67	1.5
Stomach	0	1.05	0.0	3	1.71	1.8	2	0.96	2.1	0	0.94	0.0	5	4.66	1.1
Colon	1	0.96	1.0	3	1.79	1.7	0	1.12	0.0	0	1.24	0.0	4	5.11	0.8
Rectum	0	0.79	0.0	1	1.42	0.7	1	0.84	1.2	2	0.91	2.2	4	3.95	1.0
Liver, biliary	0	0.25	0.0	2	0.46	4.3	0	0.28	0.0	0	0.32	0.0	2	1.31	1.5
Pancreas	1	0.40	2.5	1	0.74	1.4	2	0.45	4.4	2	0.52	3.8	6	2.11	2.8*
Respiratory system	4	1.72	2.3	6	3.39	1.8	8	2.09	3.8*	5	2.49	2.0	23	9.68	2.4*
Nasal cavities, sinuses	0	0.03	0.0	1	0.05	20.0	0	0.04	0.0	0	0.04	0.0	1	0.15	6.7
Larynx	0	0.12	0.0	0	0.24	0.0	1	0.16	6.3	0	0.17	0.0	1	0.69	1.4
Trachea, bronchus, lung	4	1.48	2.7	5	2.95	1.7	7	1.81	3.9*	5	2.18	2.3	21	8.42	2.5*
Female breast	2	1.06	1.9	0	2.24	0.0	0	1.53	0.0	4	1.69	2.4	6	6.51	0.9
Female genital tract	0	1.15	0.0	0	2.46	0.0	2	1.60	1.3	1	1.63	0.6	3	6.84	0.4
Cervix uteri	0	0.51	0.0	0	1.18	0.0	2	0.77	2.6	1	0.72	1.4	3	3.17	0.9
Corpus uteri	0	0.27	0.0	0	0.53	0.0	0	0.34	0.0	0	0.40	0.0	0	1.54	0.0
Uterus, NOS	0	0.02	0.0	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.09	0.0
Ovary, fallopian tubes	0	0.30	0.0	0	0.62	0.0	0	0.40	0.0	0	0.44	0.0	0	1.75	0.0
Prostate gland	0	0.70	0.0	0	1.28	0.0	2	0.79	2.5	1	1.00	1.0	3	3.77	0.8
Testis	0	0.14	0.0	1	0.36	2.7	1	0.23	4.4	0	0.16	0.0	2	0.90	2.2
Kidney, renal pelvis, ureter	0	0.34	0.0	3	0.67	4.5	1	0.42	2.4	1	0.48	2.1	5	1.92	2.6
Bladder, other urinary	0	0.67	0.0	1	1.30	0.8	6	0.81	7.4*	7	0.96	7.3*	14	3.73	3.8*
Melanoma of the skin	0	0.18	0.0	0	0.44	0.0	0	0.32	0.0	1	0.31	3.2	1	1.26	0.8
Eye	0	0.04	0.0	0	0.08	0.0	0	0.05	0.0	0	0.05	0.0	0	0.22	0.0
Brain, central nervous system	0	0.33	0.0	1	0.69	1.4	1	0.43	2.3	2	0.41	4.9	4	1.87	2.1
Thyroid gland	0	0.05	0.0	0	0.12	0.0	0	0.08	0.0	1	0.07	14.3	1	0.32	3.1
Bone	0	0.03	0.0	0	0.07	0.0	0	0.03	0.0	1	0.03	33.3	1	0.18	5.6
Connective tissue	0	0.05	0.0	0	0.11	0.0	0	0.07	0.0	0	0.05	0.0	0	0.29	0.0
Lymphatic, hematopoietic system	2	0.80	2.5	5	1.58	3.2*	7	0.95	7.4*	4	0.96	4.2*	18	4.28	4.2*
Non-Hodgkin's lymphoma	0	0.21	0.0	0	0.43	0.0	2	0.27	7.4	1	0.28	3.6	3	1.19	2.5
Hodgkin's disease	0	0.12	0.0	0	0.26	0.0	0	0.14	0.0	0	0.10	0.0	0	0.62	0.0
Multiple myeloma	0	0.12	0.0	0	0.23	0.0	0	0.14	0.0	0	0.17	0.0	0	0.66	0.0
Leukemias	2	0.34	5.9	5	0.64	7.8*	5	0.39	12.8*	3	0.41	7.3*	15	1.77	8.5*
Chronic lymphocytic	1	0.15	6.7	1	0.26	3.8	0	0.16	0.0	1	0.17	5.9	3	0.73	4.1
Acute nonlymphocytic	1	0.09	11.1	3	0.21	14.3*	4	0.13	30.8*	2	0.14	14.3*	10	0.58	17.2*

+ ICD-7 code = 201.

\* P<.05.

HODGKIN'S  
MALES

TABLE 2D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial Hodgkin's disease 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	2,307			1,610			663			295			2,307		
Person-yr in interval	1,952			4,140			2,254			1,649			9,994		
All second cancers	6	6.90	0.9	21	13.07	1.6	21	7.85	2.7*	16	8.84	1.8*	64	36.67	1.7*
All excluding site of initial cancer	6	6.82	0.9	21	12.90	1.6*	21	7.76	2.7*	16	8.77	1.8*	64	36.26	1.8*
Buccal cavity, pharynx	0	0.26	0.0	0	0.48	0.0	1	0.29	3.5	0	0.30	0.0	1	1.32	0.8
Lip	0	0.14	0.0	0	0.26	0.0	0	0.15	0.0	0	0.16	0.0	0	0.71	0.0
Tongue	0	0.02	0.0	0	0.03	0.0	1	0.02	48.0	0	0.02	0.0	1	0.09	10.6
Salivary gland	0	0.02	0.0	0	0.05	0.0	0	0.03	0.0	0	0.02	0.0	0	0.12	0.0
Gum, other mouth	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.04	0.0	0	0.17	0.0
Pharynx	0	0.04	0.0	0	0.08	0.0	0	0.05	0.0	0	0.05	0.0	0	0.23	0.0
Digestive system	1	2.37	0.4	7	4.20	1.7	4	2.46	1.6	5	2.77	1.8	17	11.80	1.4
Esophagus	0	0.11	0.0	0	0.18	0.0	0	0.11	0.0	1	0.12	8.6	1	0.51	2.0
Stomach	0	0.73	0.0	3	1.20	2.5	2	0.67	3.0	0	0.70	0.0	5	3.30	1.5
Colon	1	0.53	1.9	1	0.98	1.0	0	0.60	0.0	0	0.71	0.0	2	2.82	0.7
Rectum	0	0.54	0.0	1	0.96	1.0	0	0.56	0.0	2	0.62	3.2	3	2.67	1.1
Liver, biliary	0	0.13	0.0	2	0.24	8.2	0	0.15	0.0	0	0.18	0.0	2	0.71	2.8
Pancreas	0	0.26	0.0	0	0.48	0.0	2	0.29	6.9	2	0.34	5.8	4	1.37	2.9
Respiratory system	4	1.49	2.7	5	2.91	1.7	5	1.76	2.8	5	2.09	2.4	19	8.25	2.3*
Nasal cavities, sinuses	0	0.02	0.0	1	0.04	24.5	0	0.03	0.0	0	0.03	0.0	1	0.11	8.7
Larynx	0	0.11	0.0	0	0.22	0.0	1	0.14	7.3	0	0.15	0.0	1	0.62	1.6
Trachea, bronchus, lung	4	1.29	3.1	4	2.54	1.6	4	1.53	2.6	5	1.83	2.7	17	7.19	2.4*
Prostate gland	0	0.70	0.0	0	1.28	0.0	2	0.79	2.5	1	1.00	1.0	3	3.77	0.8
Testis	0	0.14	0.0	1	0.36	2.7	1	0.23	4.4	0	0.16	0.0	2	0.90	2.2
Kidney, renal pelvis, ureter	0	0.23	0.0	2	0.45	4.4	1	0.28	3.6	0	0.32	0.0	3	1.28	2.3
Bladder, other urinary	0	0.55	0.0	1	1.08	0.9	2	0.67	3.0	4	0.80	5.0*	7	3.09	2.3
Melanoma of the skin	0	0.09	0.0	0	0.22	0.0	0	0.15	0.0	0	0.14	0.0	0	0.60	0.0
Eye	0	0.03	0.0	0	0.05	0.0	0	0.03	0.0	0	0.03	0.0	0	0.14	0.0
Brain, central nervous system	0	0.21	0.0	0	0.42	0.0	1	0.25	4.0	0	0.23	0.0	1	1.11	0.9
Thyroid gland	0	0.02	0.0	0	0.05	0.0	0	0.03	0.0	0	0.03	0.0	0	0.13	0.0
Bone	0	0.02	0.0	0	0.05	0.0	0	0.02	0.0	0	0.02	0.0	0	0.12	0.0
Connective tissue	0	0.03	0.0	0	0.07	0.0	0	0.04	0.0	0	0.03	0.0	0	0.18	0.0
Lymphatic, hematopoietic system	1	0.54	1.9	5	1.05	4.8*	4	0.62	6.5*	1	0.64	1.6	11	2.84	3.9*
Non-Hodgkin's lymphoma	0	0.14	0.0	0	0.28	0.0	1	0.17	5.9	0	0.18	0.0	1	0.77	1.3
Hodgkin's disease	0	0.08	0.0	0	0.17	0.0	0	0.09	0.0	0	0.07	0.0	0	0.41	0.0
Multiple myeloma	0	0.08	0.0	0	0.15	0.0	0	0.09	0.0	0	0.11	0.0	0	0.43	0.0
Leukemias	1	0.23	4.4	5	0.43	11.5*	3	0.26	11.6*	1	0.28	3.6	10	1.20	8.4*
Chronic lymphocytic	1	0.11	9.4	1	0.19	5.2	0	0.12	0.0	0	0.13	0.0	2	0.54	3.7
Acute nonlymphocytic	0	0.06	0.0	3	0.13	23.1*	3	0.08	38.4*	1	0.09	11.7	7	0.36	19.7*

+ ICD-7 code = 201.

\* P<.05.

HODGKIN'S  
FEMALES

TABLE 2E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial Hodgkin's disease among females 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	1,542			1,128			539			239			1,542		
Person-yr in interval	1,325			3,094			1,873			1,392			7,685		
All second cancers	4	4.77	0.8	6	9.61	0.6	13	6.24	2.1*	18	6.49	2.8*	41	27.11	1.5*
All excluding site of initial cancer	4	4.73	0.8	6	9.52	0.6	13	6.19	2.1*	18	6.46	2.8*	41	26.90	1.5*
Buccal cavity, pharynx	0	0.06	0.0	0	0.12	0.0	0	0.08	0.0	1	0.07	13.5	1	0.33	3.0
Lip	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
Tongue	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
Salivary gland	0	0.02	0.0	0	0.04	0.0	0	0.02	0.0	0	0.02	0.0	0	0.09	0.0
Gum, other mouth	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.08	0.0
Pharynx	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	1	0.02	61.6	1	0.07	15.4
Digestive system	1	1.35	0.7	3	2.42	1.2	1	1.48	0.7	0	1.46	0.0	5	6.70	0.7
Esophagus	0	0.03	0.0	0	0.06	0.0	0	0.04	0.0	0	0.03	0.0	0	0.16	0.0
Stomach	0	0.32	0.0	0	0.51	0.0	0	0.29	0.0	0	0.24	0.0	0	1.36	0.0
Colon	0	0.43	0.0	2	0.81	2.5	0	0.52	0.0	0	0.53	0.0	2	2.29	0.9
Rectum	0	0.25	0.0	0	0.46	0.0	1	0.28	3.6	0	0.29	0.0	1	1.28	0.8
Liver, biliary	0	0.12	0.0	0	0.22	0.0	0	0.13	0.0	0	0.14	0.0	0	0.60	0.0
Pancreas	1	0.14	7.2	1	0.26	3.8	0	0.16	0.0	0	0.18	0.0	2	0.74	2.7
Respiratory system	0	0.23	0.0	1	0.48	2.1	3	0.33	9.2*	0	0.40	0.0	4	1.43	2.8
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	0.01	0.0	0	0.02	0.0	0	0.02	0.0	0	0.02	0.0	0	0.07	0.0
Trachea, bronchus, lung	0	0.19	0.0	1	0.41	2.5	3	0.28	10.6*	0	0.35	0.0	4	1.23	3.3
Female breast	2	1.06	1.9	0	2.24	0.0	0	1.53	0.0	4	1.69	2.4	6	6.51	0.9
Female genital tract	0	1.15	0.0	0	2.46	0.0	2	1.60	1.3	1	1.63	0.6	3	6.84	0.4
Cervix uteri	0	0.51	0.0	0	1.18	0.0	2	0.77	2.6	1	0.72	1.4	3	3.17	0.9
Corpus uteri	0	0.27	0.0	0	0.53	0.0	0	0.34	0.0	0	0.40	0.0	0	1.54	0.0
Uterus, NOS	0	0.02	0.0	0	0.03	0.0	0	0.02	0.0	0	0.01	0.0	0	0.09	0.0
Ovary, fallopian tubes	0	0.30	0.0	0	0.62	0.0	0	0.40	0.0	0	0.44	0.0	0	1.75	0.0
Kidney, renal pelvis, ureter	0	0.11	0.0	1	0.22	4.5	0	0.14	0.0	1	0.16	6.3	2	0.64	3.1
Bladder, other urinary	0	0.12	0.0	0	0.22	0.0	4	0.14	28.0*	3	0.16	19.0*	7	0.64	10.9*
Melanoma of the skin	0	0.09	0.0	0	0.22	0.0	0	0.17	0.0	1	0.17	5.7	1	0.66	1.5
Eye	0	0.01	0.0	0	0.03	0.0	0	0.02	0.0	0	0.02	0.0	0	0.08	0.0
Brain, central nervous system	0	0.12	0.0	1	0.27	3.6	0	0.18	0.0	2	0.18	10.9*	3	0.76	3.9
Thyroid gland	0	0.03	0.0	0	0.07	0.0	0	0.05	0.0	1	0.04	23.1	1	0.19	5.1
Bone	0	0.01	0.0	0	0.02	0.0	0	0.01	0.0	1	0.01	109.4*	1	0.06	17.7
Connective tissue	0	0.02	0.0	0	0.04	0.0	0	0.03	0.0	0	0.02	0.0	0	0.11	0.0
Lymphatic, hematopoietic system	1	0.26	3.8	0	0.53	0.0	3	0.33	9.1*	3	0.32	9.4*	7	1.44	4.9*
Non-Hodgkin's lymphoma	0	0.07	0.0	0	0.15	0.0	1	0.10	10.3	1	0.10	9.9	2	0.42	4.8
Hodgkin's disease	0	0.04	0.0	0	0.09	0.0	0	0.05	0.0	0	0.03	0.0	0	0.21	0.0
Multiple myeloma	0	0.04	0.0	0	0.08	0.0	0	0.05	0.0	0	0.06	0.0	0	0.23	0.0
Leukemias	1	0.11	9.4	0	0.21	0.0	2	0.13	15.4*	2	0.13	15.9*	5	0.57	8.7*
Chronic lymphocytic	0	0.04	0.0	0	0.07	0.0	0	0.04	0.0	1	0.04	24.2	1	0.19	5.2
Acute nonlymphocytic	1	0.03	28.8	0	0.08	0.0	1	0.05	19.6	1	0.05	18.8	3	0.22	13.9*

+ ICD-7 code = 201.

\* P<.05.