

NH LYMPHOMA
BOTH SEXES

TABLE 1A. -- Characteristics of persons reported to the Danish Cancer Registry with an initial non-Hodgkin's lymphoma, 1943-80+

Category	Male	Female	Total
No. with first primary cancer*	3,655	2,886	6,541
No. who developed a second primary cancer	105	102	207
Average age at diagnosis of first cancer, yr	57	60	58
Average yr of diagnosis of first cancer	1966	1967	1966
Person-yr of follow-up	12,462	10,443	22,905
Average follow-up, yr	3.4	3.6	3.5
Percent given radiotherapy for first cancer	63	63	63

+ ICD-7 codes = 200, 202.

* 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 non-Hodgkin's lymphoma in Denmark, 1943-80

Microscopically confirmed	No.	Percent+
Both first and second cancers	151	73.0
Only the first cancer	21	10.2
Only the second cancer	25	12.1
Neither first nor second cancer	10	4.8
Total second primary cancers	207	100.0

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

NH LYMPHOMA
BOTH SEXES

TABLE 1C. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial non-Hodgkin's lymphoma 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	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	6,541			3,418			1,331			699			6,541		
Person-yr in interval	4,729			8,094			4,834			5,247			22,905		
All second cancers	33	41.20	0.8	62	68.94	0.9	49	42.94	1.1	63	50.91	1.2	207	203.98	1.0
All excluding site of initial cancer	33	40.50	0.8	58	67.76	0.9	48	42.20	1.1	59	50.01	1.2	198	200.45	1.0
Buccal cavity, pharynx	0	1.01	0.0	3	1.64	1.8	4	0.99	4.0*	1	1.16	0.9	8	4.79	1.7
Lip	0	0.46	0.0	1	0.73	1.4	3	0.43	7.0*	0	0.50	0.0	4	2.11	1.9
Tongue	0	0.10	0.0	1	0.16	6.3	0	0.09	0.0	0	0.11	0.0	1	0.47	2.1
Salivary gland	0	0.11	0.0	0	0.18	0.0	0	0.11	0.0	0	0.12	0.0	0	0.53	0.0
Gum, other mouth	0	0.18	0.0	0	0.29	0.0	1	0.18	5.6	0	0.23	0.0	1	0.89	1.1
Pharynx	0	0.16	0.0	1	0.27	3.7	0	0.16	0.0	1	0.19	5.3	2	0.79	2.5
Digestive system	11	14.80	0.7	19	23.89	0.8	11	14.88	0.7	13	17.50	0.7	54	71.08	0.8*
Esophagus	1	0.56	1.8	0	0.87	0.0	0	0.54	0.0	0	0.62	0.0	1	2.58	0.4
Stomach	4	4.23	0.9	8	6.45	1.2	4	3.87	1.0	4	4.29	0.9	20	18.85	1.1
Colon	3	3.92	0.8	6	6.51	0.9	3	4.17	0.7	2	5.12	0.4	14	19.72	0.7
Rectum	0	3.01	0.0	2	4.88	0.4	1	3.00	0.3	1	3.49	0.3	4	14.39	0.3*
Liver, biliary	1	1.01	1.0	2	1.73	1.2	2	1.12	1.8	4	1.39	2.9	9	5.26	1.7
Pancreas	2	1.54	1.3	1	2.61	0.4	1	1.67	0.6	2	2.05	1.0	6	7.88	0.8
Respiratory system	5	5.88	0.9	4	10.19	0.4	12	6.30	1.9	13	7.67	1.7	34	30.03	1.1
Nasal cavities, sinuses	0	0.10	0.0	0	0.16	0.0	0	0.09	0.0	1	0.11	9.1	1	0.45	2.2
Larynx	0	0.38	0.0	1	0.66	1.5	2	0.39	5.1	0	0.49	0.0	3	1.92	1.6
Trachea, bronchus, lung	5	5.12	1.0	3	8.90	0.3*	10	5.51	1.8	11	6.72	1.6	29	26.24	1.1
Female breast	4	3.63	1.1	5	6.38	0.8	3	4.00	0.7	9	4.58	2.0	21	18.60	1.1
Female genital tract	1	3.24	0.3	9	5.76	1.6	5	3.53	1.4	3	3.82	0.8	18	16.35	1.1
Cervix uteri	0	1.03	0.0	6	1.85	3.2*	2	1.13	1.8	0	1.14	0.0	8	5.14	1.6
Corpus uteri	0	0.94	0.0	0	1.67	0.0	1	1.02	1.0	0	1.13	0.0	1	4.77	0.2
Uterus, NOS	0	0.08	0.0	0	0.12	0.0	0	0.07	0.0	0	0.08	0.0	0	0.35	0.0
Ovary, fallopian tubes	1	0.98	1.0	3	1.74	1.7	1	1.07	0.9	3	1.19	2.5	8	4.98	1.6
Prostate gland	2	3.08	0.6	1	4.94	0.2	2	3.17	0.6	3	4.00	0.7	8	15.19	0.5
Testis	1	0.14	7.3	1	0.24	4.2	1	0.15	6.6	0	0.20	0.0	3	0.72	4.1
Kidney, renal pelvis, ureter	4	1.25	3.2	1	2.12	0.5	2	1.33	1.5	3	1.60	1.9	10	6.30	1.6
Bladder, other urinary	1	2.44	0.4	3	4.16	0.7	2	2.62	0.8	4	3.26	1.2	10	12.49	0.8
Melanoma of the skin	1	0.46	2.2	2	0.81	2.5	0	0.51	0.0	1	0.64	1.6	4	2.42	1.7
Eye	0	0.12	0.0	0	0.20	0.0	1	0.12	8.3	0	0.14	0.0	1	0.59	1.7
Brain, central nervous system	0	0.78	0.0	2	1.35	1.5	0	0.81	0.0	1	0.94	1.1	3	3.87	0.8
Thyroid gland	1	0.19	5.3	1	0.32	3.1	0	0.21	0.0	1	0.24	4.2	3	0.96	3.1
Bone	0	0.08	0.0	0	0.12	0.0	0	0.08	0.0	0	0.08	0.0	0	0.35	0.0
Connective tissue	0	0.15	0.0	0	0.24	0.0	0	0.14	0.0	0	0.15	0.0	0	0.67	0.0
Lymphatic, hematopoietic system	2	2.52	0.8	9	4.24	2.1	4	2.66	1.5	9	3.19	2.8*	24	12.62	1.9*
Non-Hodgkin's lymphoma	0	0.70	0.0	4	1.18	3.4	1	0.74	1.4	4	0.90	4.4*	9	3.53	2.5*
Hodgkin's disease	2	0.20	10.0*	0	0.33	0.0	0	0.21	0.0	1	0.23	4.3	3	0.97	3.1
Multiple myeloma	0	0.47	0.0	0	0.80	0.0	0	0.50	0.0	0	0.61	0.0	0	2.39	0.0
Leukemias	0	1.13	0.0	5	1.88	2.7	3	1.19	2.5	4	1.42	2.8	12	5.61	2.1*
Chronic lymphocytic	0	0.56	0.0	2	0.93	2.2	3	0.60	5.0*	1	0.72	1.4	6	2.81	2.1
Acute nonlymphocytic	0	0.30	0.0	3	0.52	5.8*	0	0.33	0.0	3	0.42	7.1*	6	1.57	3.8*

+ ICD-7 codes = 200, 202.

* P<.05.

NH LYMPHOMA
MALES

TABLE 1D. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial non-Hodgkin's lymphoma 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	3,655			1,862			711			377			3,655		
Person-yr in interval	2,624			4,354			2,576			2,908			12,462		
All second cancers	17	23.53	0.7	26	38.36	0.7*	25	23.64	1.1	37	28.79	1.3	105	114.32	0.9
All excluding site of initial cancer	17	23.12	0.7	24	37.68	0.6*	25	23.22	1.1	33	28.27	1.2	99	112.28	0.9
Buccal cavity, pharynx	0	0.77	0.0	2	1.23	1.6	3	0.73	4.1	1	0.86	1.2	6	3.59	1.7
Lip	0	0.42	0.0	1	0.67	1.5	2	0.39	5.1	0	0.45	0.0	3	1.93	1.6
Tongue	0	0.06	0.0	0	0.09	0.0	0	0.05	0.0	0	0.06	0.0	0	0.26	0.0
Salivary gland	0	0.06	0.0	0	0.10	0.0	0	0.06	0.0	0	0.07	0.0	0	0.30	0.0
Gum, other mouth	0	0.11	0.0	0	0.17	0.0	1	0.10	9.6	0	0.13	0.0	1	0.52	1.9
Pharynx	0	0.12	0.0	1	0.20	5.0	0	0.12	0.0	1	0.14	6.9	2	0.58	3.4
Digestive system	5	8.61	0.6	5	13.51	0.4*	2	8.23	0.2*	6	9.76	0.6	18	40.11	0.4*
Esophagus	1	0.38	2.6	0	0.58	0.0	0	0.35	0.0	0	0.40	0.0	1	1.71	0.6
Stomach	2	2.65	0.8	2	3.97	0.5	0	2.33	0.0	1	2.60	0.4	5	11.55	0.4
Colon	1	1.98	0.5	2	3.18	0.6	1	1.99	0.5	1	2.50	0.4	5	9.65	0.5
Rectum	0	1.93	0.0	0	3.04	0.0	0	1.85	0.0	1	2.17	0.5	1	9.00	0.1*
Liver, biliary	1	0.48	2.1	1	0.80	1.2	1	0.51	2.0	2	0.64	3.1	5	2.43	2.1
Pancreas	0	0.91	0.0	0	1.51	0.0	0	0.95	0.0	1	1.17	0.9	1	4.55	0.2
Respiratory system	5	4.95	1.0	4	8.51	0.5	11	5.24	2.1*	11	6.41	1.7	31	25.10	1.2
Nasal cavities, sinuses	0	0.07	0.0	0	0.11	0.0	0	0.06	0.0	1	0.08	12.9	1	0.32	3.1
Larynx	0	0.34	0.0	1	0.59	1.7	2	0.35	5.7	0	0.44	0.0	3	1.72	1.7
Trachea, bronchus, lung	5	4.33	1.2	3	7.47	0.4	9	4.60	2.0	9	5.63	1.6	26	22.03	1.2
Prostate gland	2	3.08	0.6	1	4.94	0.2	2	3.17	0.6	3	4.00	0.7	8	15.19	0.5
Testis	1	0.14	7.3	1	0.24	4.2	1	0.15	6.6	0	0.20	0.0	3	0.72	4.1
Kidney, renal pelvis, ureter	2	0.78	2.6	0	1.30	0.0	1	0.81	1.2	2	0.99	2.0	5	3.88	1.3
Bladder, other urinary	1	1.94	0.5	3	3.28	0.9	2	2.05	1.0	4	2.58	1.5	10	9.85	1.0
Melanoma of the skin	0	0.22	0.0	0	0.37	0.0	0	0.23	0.0	0	0.31	0.0	0	1.13	0.0
Eye	0	0.07	0.0	0	0.12	0.0	0	0.07	0.0	0	0.08	0.0	0	0.35	0.0
Brain, central nervous system	0	0.44	0.0	1	0.74	1.3	0	0.44	0.0	0	0.53	0.0	1	2.15	0.5
Thyroid gland	0	0.07	0.0	1	0.11	8.8	0	0.07	0.0	0	0.08	0.0	1	0.34	3.0
Bone	0	0.05	0.0	0	0.07	0.0	0	0.05	0.0	0	0.05	0.0	0	0.21	0.0
Connective tissue	0	0.09	0.0	0	0.14	0.0	0	0.08	0.0	0	0.09	0.0	0	0.39	0.0
Lymphatic, hematopoietic system	1	1.57	0.6	6	2.58	2.3	2	1.60	1.2	8	1.94	4.1*	17	7.70	2.2*
Non-Hodgkin's lymphoma	0	0.41	0.0	2	0.68	2.9	0	0.42	0.0	4	0.52	7.7*	6	2.04	2.9*
Hodgkin's disease	1	0.13	7.9	0	0.21	0.0	0	0.13	0.0	1	0.15	6.7	2	0.62	3.2
Multiple myeloma	0	0.28	0.0	0	0.47	0.0	0	0.29	0.0	0	0.36	0.0	0	1.41	0.0
Leukemias	0	0.73	0.0	4	1.19	3.4	2	0.74	2.7	3	0.90	3.3	9	3.55	2.5*
Chronic lymphocytic	0	0.39	0.0	1	0.63	1.6	2	0.40	5.0	1	0.48	2.1	4	1.90	2.1
Acute nonlymphocytic	0	0.18	0.0	3	0.31	9.8*	0	0.19	0.0	2	0.25	8.0	5	0.93	5.4*

+ ICD-7 codes = 200, 202.

* P<.05.

NH LYMPHOMA
FEMALES

TABLE 1E. -- Observed (O) and expected (E) numbers of second primary cancers by years after diagnosis of an initial non-Hodgkin's lymphoma 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	
	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E	O	E	O/E
No. starting interval	2,886			1,556			620			322			2,886		
Person-yr in interval	2,105			3,741			2,258			2,339			10,443		
All second cancers	16	17.67	0.9	36	30.58	1.2	24	19.30	1.2	26	22.12	1.2	102	89.66	1.1
All excluding site of initial cancer	16	17.38	0.9	34	30.08	1.1	23	18.98	1.2	26	21.74	1.2	99	88.17	1.1
Buccal cavity, pharynx	0	0.24	0.0	1	0.41	2.5	1	0.26	3.9	0	0.30	0.0	2	1.20	1.7
Lip	0	0.04	0.0	0	0.06	0.0	1	0.04	25.2	0	0.05	0.0	1	0.18	5.4
Tongue	0	0.04	0.0	1	0.07	14.3	0	0.04	0.0	0	0.05	0.0	1	0.21	4.8
Salivary gland	0	0.05	0.0	0	0.08	0.0	0	0.05	0.0	0	0.05	0.0	0	0.23	0.0
Gum, other mouth	0	0.07	0.0	0	0.12	0.0	0	0.08	0.0	0	0.10	0.0	0	0.37	0.0
Pharynx	0	0.04	0.0	0	0.07	0.0	0	0.04	0.0	0	0.05	0.0	0	0.21	0.0
Digestive system	6	6.19	1.0	14	10.38	1.3	9	6.65	1.4	7	7.74	0.9	36	30.97	1.2
Esophagus	0	0.18	0.0	0	0.29	0.0	0	0.19	0.0	0	0.22	0.0	0	0.87	0.0
Stomach	2	1.58	1.3	6	2.48	2.4	4	1.54	2.6	3	1.69	1.8	15	7.30	2.1*
Colon	2	1.94	1.0	4	3.33	1.2	2	2.18	0.9	1	2.62	0.4	9	10.07	0.9
Rectum	0	1.08	0.0	2	1.84	1.1	1	1.15	0.9	0	1.32	0.0	3	5.39	0.6
Liver, biliary	0	0.53	0.0	1	0.93	1.1	1	0.61	1.6	2	0.75	2.7	4	2.83	1.4
Pancreas	2	0.63	3.2	1	1.10	0.9	1	0.72	1.4	1	0.88	1.1	5	3.33	1.5
Respiratory system	0	0.93	0.0	0	1.68	0.0	1	1.06	0.9	2	1.26	1.6	3	4.93	0.6
Nasal cavities, sinuses	0	0.03	0.0	0	0.05	0.0	0	0.03	0.0	0	0.03	0.0	0	0.13	0.0
Larynx	0	0.04	0.0	0	0.07	0.0	0	0.04	0.0	0	0.05	0.0	0	0.20	0.0
Trachea, bronchus, lung	0	0.79	0.0	0	1.43	0.0	1	0.91	1.1	2	1.09	1.8	3	4.21	0.7
Female breast	4	3.63	1.1	5	6.38	0.8	3	4.00	0.7	9	4.58	2.0	21	18.60	1.1
Female genital tract	1	3.24	0.3	9	5.76	1.6	5	3.53	1.4	3	3.82	0.8	18	16.35	1.1
Cervix uteri	0	1.03	0.0	6	1.85	3.2*	2	1.13	1.8	0	1.14	0.0	8	5.14	1.6
Corpus uteri	0	0.94	0.0	0	1.67	0.0	1	1.02	1.0	0	1.13	0.0	1	4.77	0.2
Uterus, NOS	0	0.08	0.0	0	0.12	0.0	0	0.07	0.0	0	0.08	0.0	0	0.35	0.0
Ovary, fallopian tubes	1	0.98	1.0	3	1.74	1.7	1	1.07	0.9	3	1.19	2.5	8	4.98	1.6
Kidney, renal pelvis, ureter	2	0.47	4.3	1	0.82	1.2	1	0.52	1.9	1	0.61	1.6	5	2.42	2.1
Bladder, other urinary	0	0.50	0.0	0	0.88	0.0	0	0.57	0.0	0	0.68	0.0	0	2.64	0.0
Melanoma of the skin	1	0.24	4.1	2	0.44	4.5	0	0.28	0.0	1	0.33	3.0	4	1.29	3.1
Eye	0	0.05	0.0	0	0.08	0.0	1	0.05	19.7	0	0.06	0.0	1	0.24	4.2
Brain, central nervous system	0	0.34	0.0	1	0.61	1.6	0	0.37	0.0	1	0.41	2.4	2	1.72	1.2
Thyroid gland	1	0.12	8.2	0	0.21	0.0	0	0.14	0.0	1	0.16	6.4	2	0.62	3.2
Bone	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
Connective tissue	0	0.06	0.0	0	0.10	0.0	0	0.06	0.0	0	0.06	0.0	0	0.28	0.0
Lymphatic, hematopoietic system	1	0.95	1.1	3	1.66	1.8	2	1.06	1.9	1	1.25	0.8	7	4.92	1.4
Non-Hodgkin's lymphoma	0	0.29	0.0	2	0.50	4.0	1	0.32	3.1	0	0.38	0.0	3	1.49	2.0
Hodgkin's disease	1	0.07	14.8	0	0.12	0.0	0	0.08	0.0	0	0.08	0.0	1	0.35	2.9
Multiple myeloma	0	0.19	0.0	0	0.33	0.0	0	0.21	0.0	0	0.25	0.0	0	0.98	0.0
Leukemias	0	0.40	0.0	1	0.69	1.4	1	0.45	2.2	1	0.52	1.9	3	2.06	1.5
Chronic lymphocytic	0	0.17	0.0	1	0.30	3.3	1	0.20	5.1	0	0.24	0.0	2	0.91	2.2
Acute nonlymphocytic	0	0.12	0.0	0	0.21	0.0	0	0.14	0.0	1	0.17	6.0	1	0.64	1.6

+ ICD-7 codes = 200, 202.

* P<.05.