



Non-Hodgkin Lymphoma in Florida, 2006

Bureau of Epidemiology



Non-Hodgkin lymphoma (NHL) is cancer that begins in cells of the immune system. The immune system fights infections and other diseases. Risk factors that are associated with NHL include weakened immune system and infections, like human immunodeficiency virus (HIV), Epstein-Barr virus (EBV), human T-cell leukemia/lymphoma virus type 1 (HTLV-1), and hepatitis C virus.

This report presents incidence data on NHL obtained from the Florida Cancer Data System (FCDS) and mortality data from Florida Department of Health Office of Vital Statistics. The Florida data are compared with that from the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute (NCI). The U.S. mortality data reported by SEER are provided by the National Center for Health Statistics (NCHS).

Incidence

- In 2006, 3,905 new Non-Hodgkin lymphoma (NHL) cases were diagnosed in Florida.
- The age-adjusted incidence rate was 17.0 per 100,000 population, which was lower than the SEER rate.

Table 1. Age-Adjusted† and Age-Specific‡ Incidence Rates (per 100,000) of NHL, Florida, 2006

	Florida	SEER
Total	17.0	19.2
0-14‡	0.8	N/A
15-39‡	4.5	N/A
40-64‡	21.6	N/A
65+‡	72.8	N/A
Female†	14.6	16.2
Male†	19.9	22.8
Black†	12.7	13.9
White†	17.1	20.1
Black Female†	10.8	11.6
White Female†	14.7	17.0
Black Male†	14.8	16.9
White Male†	20.0	23.9

- Incidence rates increased with increasing age.
- The rates were significantly higher among males and whites compared to their counterparts.
- Florida rates among both sexes and whites were significantly lower than the SEER rates.

Mortality

- In 2006, 1,523 people died of NHL in Florida.
- The age-adjusted mortality rate was 6.3 per 100,000 population.
- Mortality rates increased with increasing age.
- The rates were significantly higher among males than females.
- White male rates were higher than all sex-race groups.

Table 2. Age-Adjusted† and Age-Specific‡ Mortality Rates (per 100,000) of NHL, Florida, 2006

	Florida	U.S.
Total	6.3	6.7
0-14‡	^	N/A
15-39‡	0.8	N/A
40-64‡	5.5	N/A
65+‡	36.1	N/A
Female†	4.8	5.4
Male†	8.0	8.4
Black†	5.1	4.9
White†	6.3	6.9
Black Female†	4.2	3.9
White Female†	4.7	5.6
Black Male†	6.1	6.3
White Male†	8.1	8.7

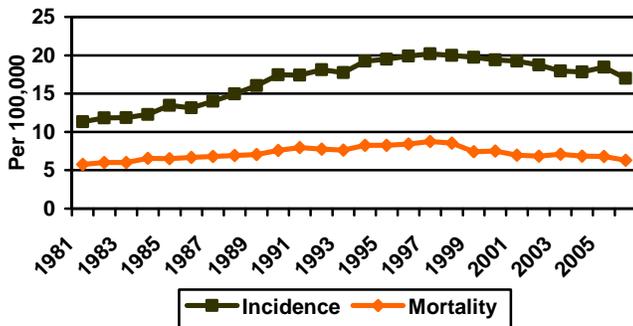
^ Data Suppressed

- Florida rates among females, whites and white females were significantly lower compared to their U.S. counterparts.

Trends in Incidence and Mortality

- The 2006 incidence rate (17.0 per 100,000) was 50% higher than the rate in 1981 (11.3 per 100,000).
- The 2006 mortality rate (6.3 per 100,000) was 9% higher than the rate in 1981 (5.8 per 100,000).

Figure 1. Age-Adjusted Incidence and Mortality Rates of NHL, Florida, 1981-2006



Stage at Diagnosis

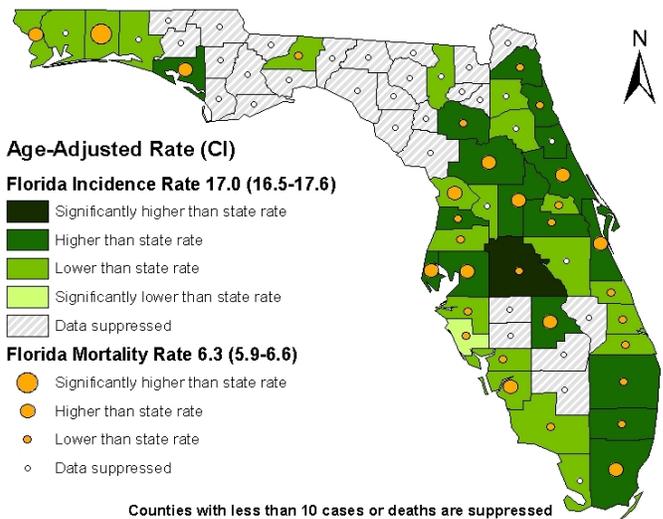
- Early-stage NHL is defined in this report as cancer that involves one lymph node region or a single extra lymphatic organ or site. Advanced-stage NHL is defined as cancer that involves more than one lymphatic region on one or both sides of the diaphragm, or that involves more than one extra lymphatic organ or site.
- Of all NHL cases, 53.9% were diagnosed at an advanced stage, 27.9% were diagnosed at an early stage, and 18.2% were reported without stage information.
- The percentage of cases with an advanced-stage diagnosis was greater among males and blacks than among females and whites.
- The percentage of cases with an early-stage diagnosis increased by 13% from 24.7% in 1981 to 27.9% in 2006.

- The percentage of cases reported without stage information decreased by 30% from 26.1% in 1981 to 18.2% in 2006.

Table 3. Percentage of NHL by Stage at Diagnosis, Florida, 2006

	Early	Advanced	Unknown
Total	27.9	53.9	18.2
Female	30.3	52.3	17.3
Male	25.8	55.4	18.8
Black	27.4	57.2	15.4
White	27.6	53.7	18.7
Black Female	27.2	57.8	15.0
White Female	30.3	51.9	17.8
Black Male	27.5	29.2	43.3
White Male	25.2	55.4	19.4

Figure 2. Age-Adjusted Incidence and Mortality Rates of Non-Hodgkin Lymphoma, Florida, 2006



For additional information on this report, please contact Florida Department of Health, Bureau of Epidemiology at 850.245.4401 or visit our website at: <http://www.floridachronicdisease.org/>.

For additional information about the data source, please refer to 'Sources of Cancer Data' available at: http://www.doh.state.fl.us/disease_ctrl/epi/cancer/CancerIndex.htm.

For additional information on non-Hodgkin lymphoma, please visit The Leukemia and Lymphoma Society website at: http://www.leukemia-lymphoma.org/hm_lls.