

Cancer in Utah

Non-Hodgkin's Lymphoma

<i>Summary</i>	Male		Female	
	Utah 1996-2000	US 1996-99	Utah 1996-2000	US 1996-99
Average annual age-adjusted incidence rates*	23.4	23.5	14.3	15.9
Rank among cancer incidence rates	6	5	7	6
Average annual number of new cases	163	27,580	117	23,690
Percent of all new cancer cases	5.0 %	4.3 %	4.1 %	3.8 %
Lifetime risk this of cancer (00-79 years)	1 in 44	1 in 44	1 in 68	1 in 62
Average annual age-adjusted mortality rates*	10.5	10.8	7.1	7.2
Rank among cancer mortality rates	4	5	5	6
Average annual number of deaths	68	12,047	58	11,115
Percent of all cancer deaths	5.7 %	4.3 %	5.5 %	4.3 %
* Rates per 100,000 and standardized to the 2000 U.S. population				

Malignant lymphoma is a broad classification used to describe neoplasms of the lymphoreticular system. With the discovery of the Reed-Sternberg cell, Hodgkin's lymphoma was subsequently treated as a separate category of lymphoma. This section of the monograph, therefore, discusses the lymphomas other than Hodgkin's disease.

The average annual age-adjusted incidence rates for non-Hodgkin's lymphoma increased among both males and females in Utah from 1981 to 2000. These increments are consistent with trends in the United States, where incidence rates more than doubled between 1950 and 1985. Nationwide, increases in the overall incidence rates were greatest in those over 65 years of age. Rates among those between the ages of 35-64 years increased to a lesser extent, while rates among those under 35 years of age remained relatively constant over the past thirty years.

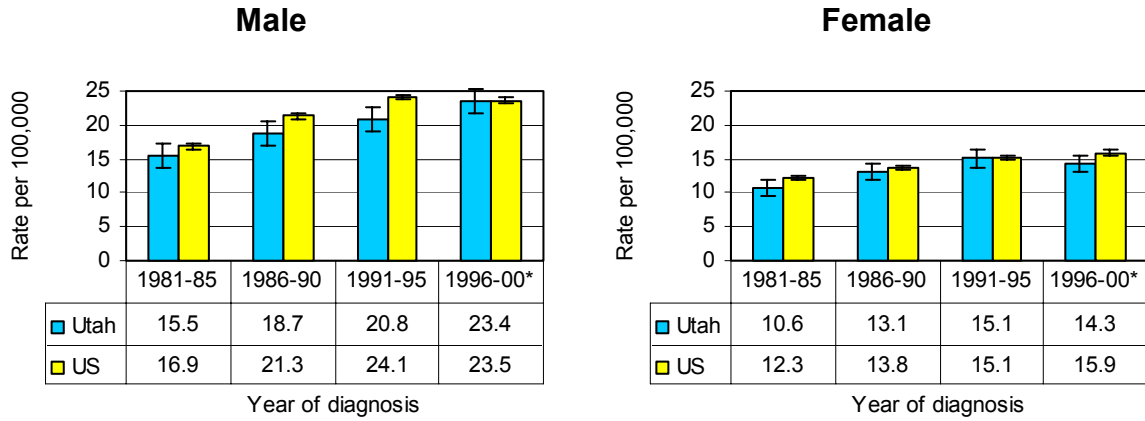
Viruses seem to play an etiologic role in some non-Hodgkin's lymphomas. The Human T-Cell Leukemia Virus (HTLV) is linked with certain types of adult T-cell leukemias and lymphomas that are particularly prevalent in Japan, parts of the Caribbean and Africa, and the southeastern United States. Burkitt's lymphoma is associated with the Epstein-Barr virus. Lymphomas occur at higher rates than expected in those infected with the Human Immunodeficiency Virus (HIV) and in individuals with inherited immunodeficiency syndromes and on immunosuppressive therapy.

Non-Hodgkin's lymphoma has also been associated with treatment by alkylating agents and occupational exposure to some chemicals, including the herbicides phenoxyacetic acid and chlorophenol, although a casual link has not been proven. High doses of ionizing radiation may increase risk for non-Hodgkin's lymphoma, as observed among Japanese survivors of the atomic bombs and individuals exposed to radiation therapy. The large majority of the non-Hodgkin's lymphomas, however, do not occur in individuals with these exposures and are of unknown etiology. There are currently no practical means of primary or secondary prevention.

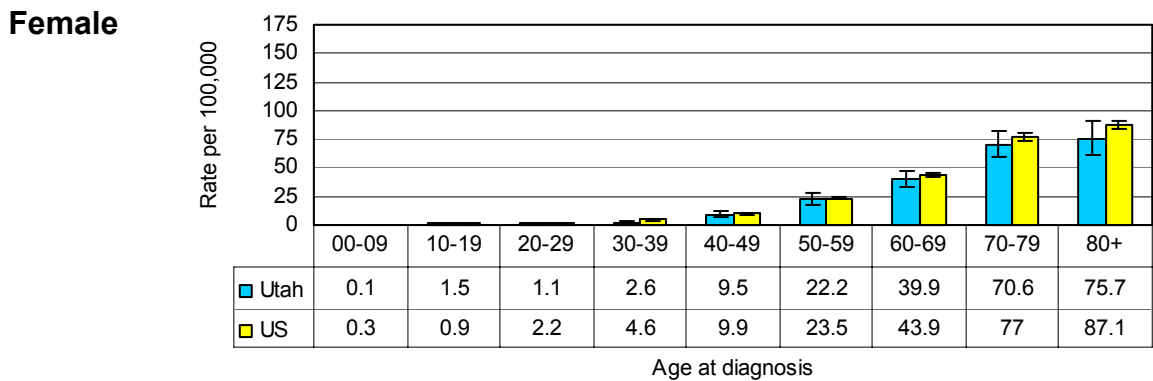
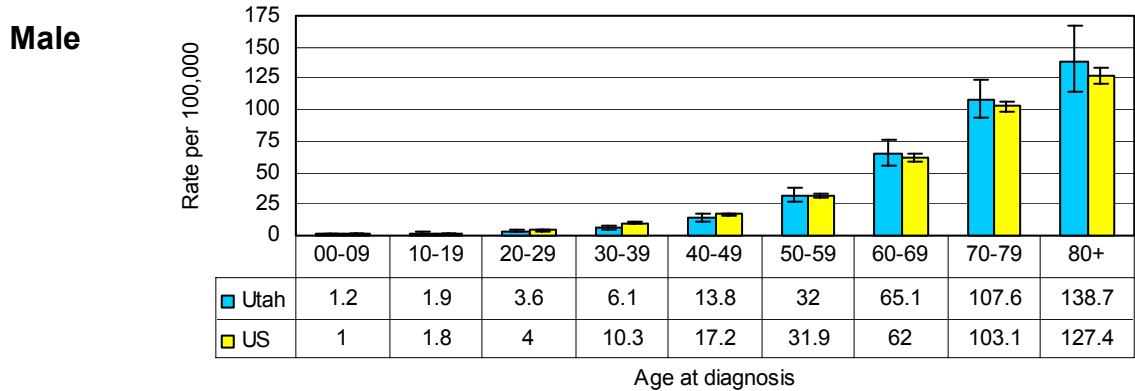
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Non-Hodgkin's Lymphoma	<i>Incidence</i>
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Average annual age-adjusted incidence rates per 100,000 (US 2000 standard) by 5-year time period and sex, 1981-2000



Average annual age-specific incidence rates per 100,000 by sex, 1996-2000

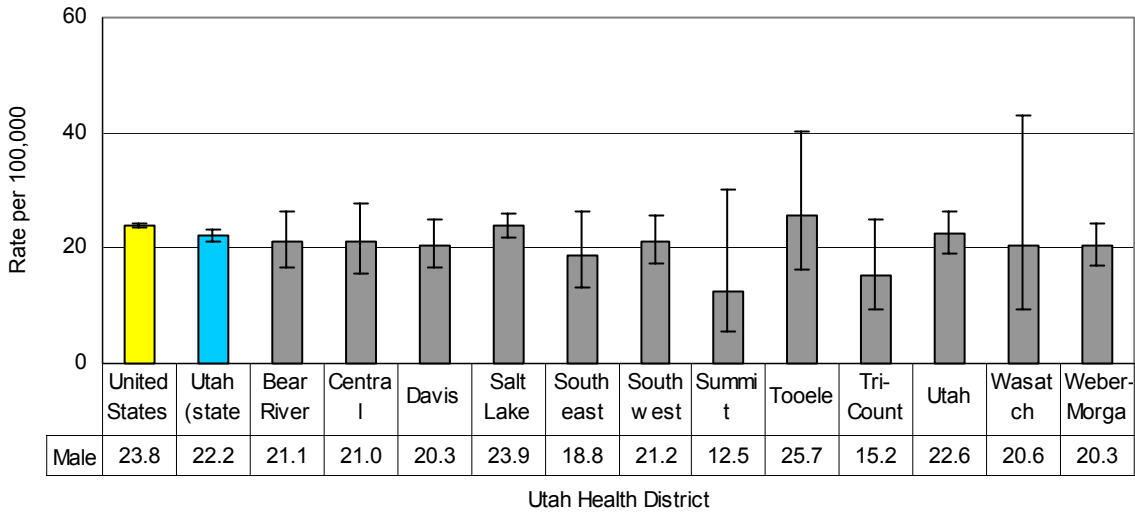


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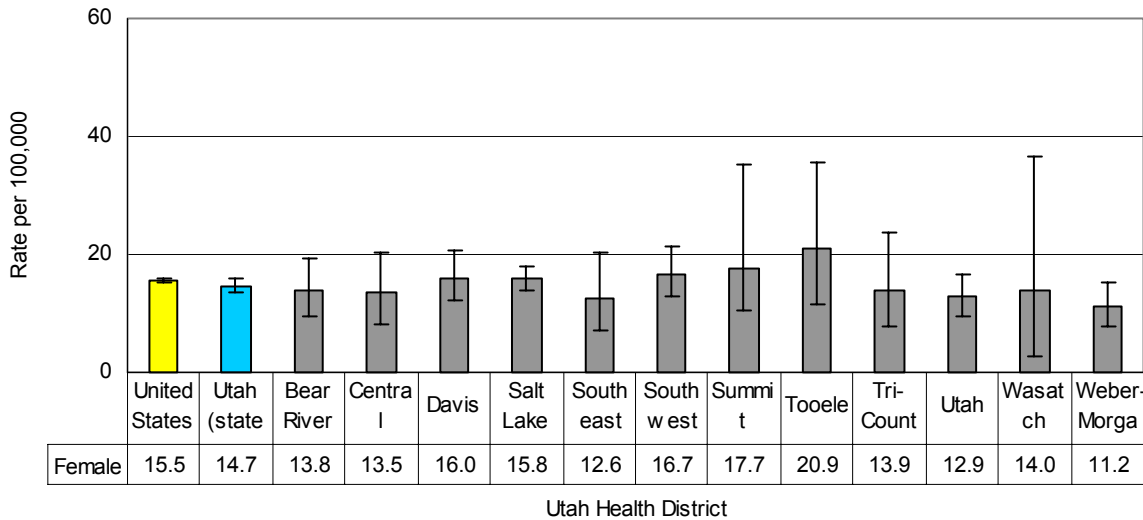
Non-Hodgkin's Lymphoma	<i>Incidence</i>
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Average annual age-adjusted incidence rates per 100,000 (US 2000 standard) for twelve Utah Health Districts, by sex, for the time period 1991-2000, with rates from Utah (statewide) and the United States for comparison

Male



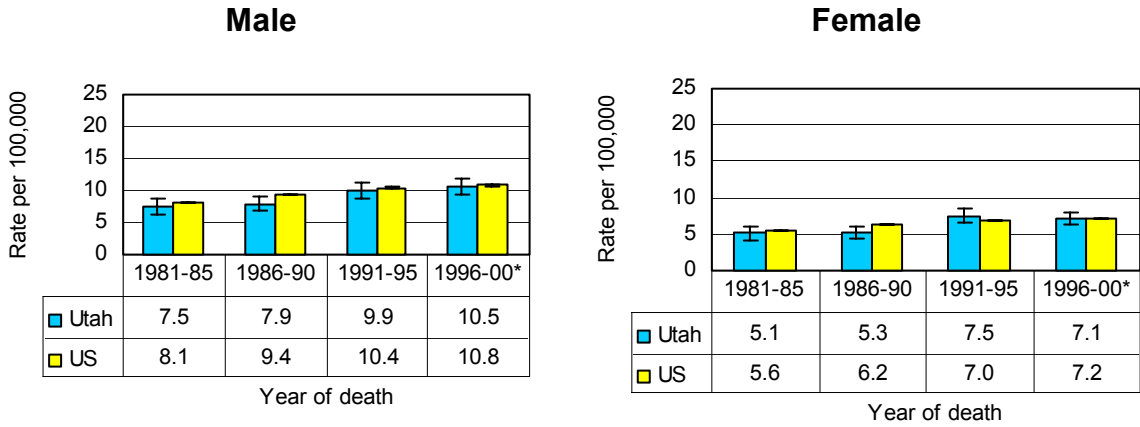
Female



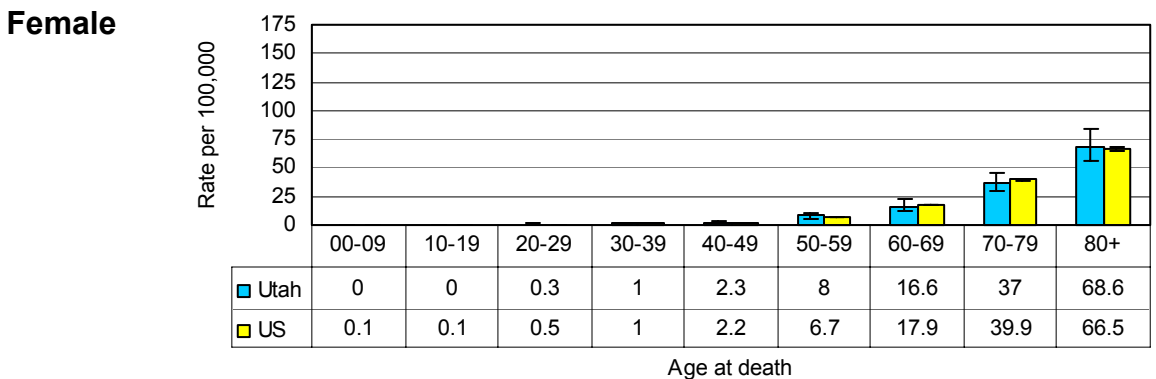
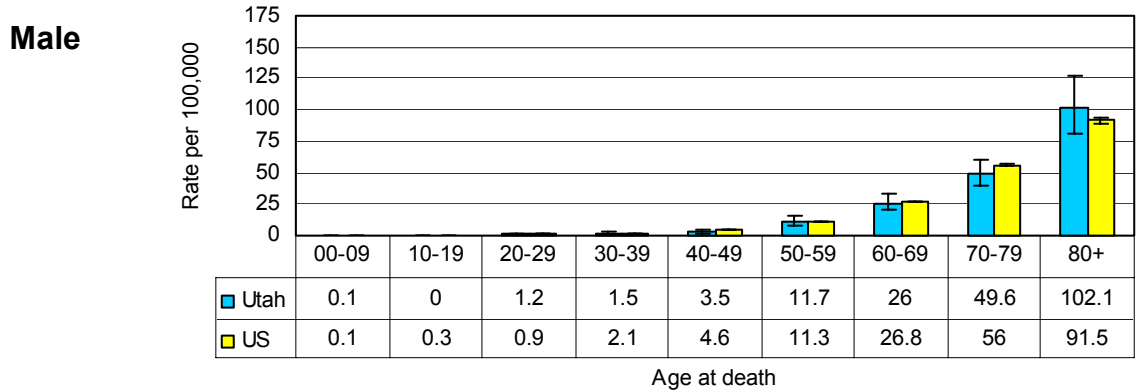
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Non-Hodgkin's Lymphoma	Mortality
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Average annual age-adjusted mortality rates per 100,000 (US 2000 standard) by 5-year time period and sex, 1981-2000



Average annual age-specific mortality rates per 100,000 by sex, 1996-2000

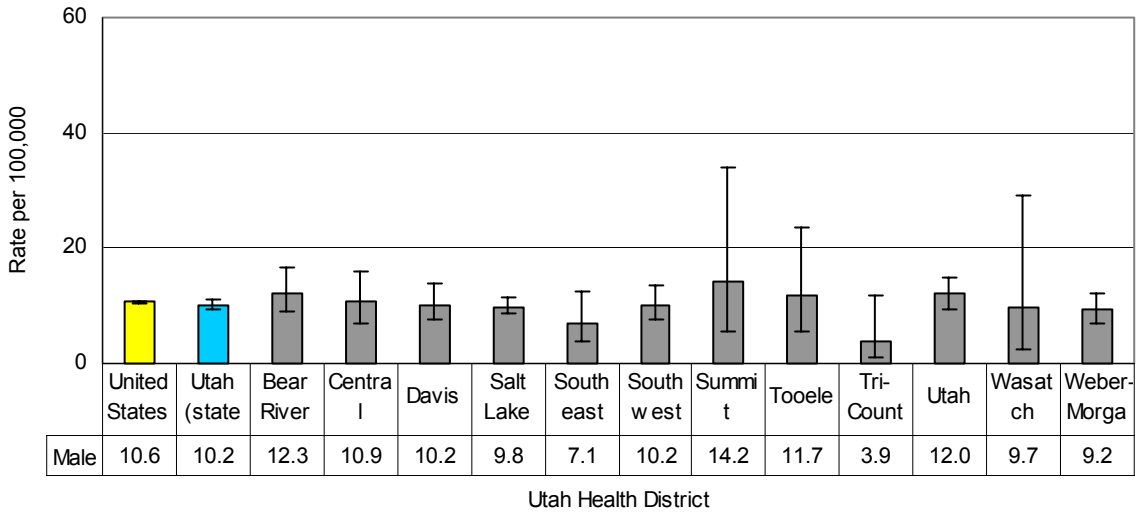


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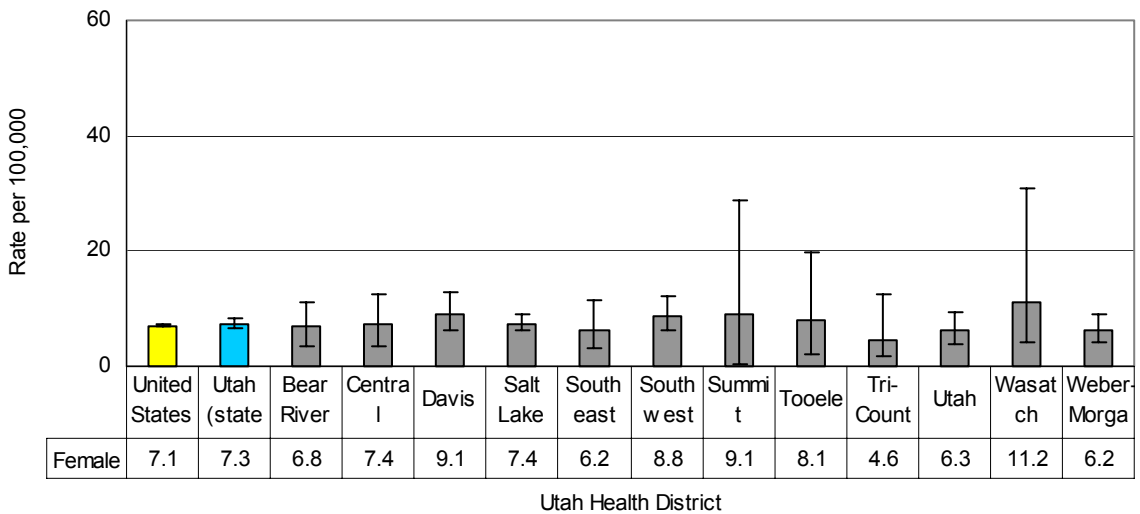
Non-Hodgkin's Lymphoma	Mortality
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Average annual age-adjusted mortality rates per 100,000 (US 2000 standard) for twelve Utah Health Districts, by sex, for the time period 1991-2000, with rates from Utah (statewide) and the United States for comparison

Male



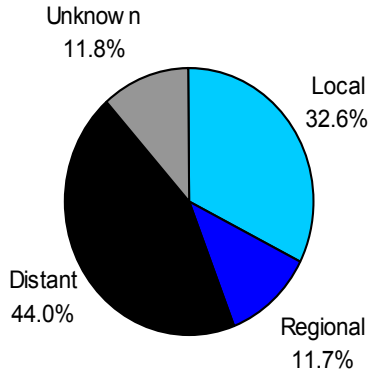
Female



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Non-Hodgkin's lymphoma *Stage and Survival*

Stage of disease at diagnosis:
Utah residents diagnosed 1996-2000



5-year relative survival by stage:
Utah residents diagnosed 1991-95

