

Leukemia

LEUKEMIA - FAST FACTS OREGON

	Total	Male	Female
CANCER INCIDENCE			
Total Cancer Cases (2004)	371	215	156
RATES (2004)			
Oregon Crude Rate	10.3	12.0	8.6
Oregon Age-adjusted Rate	10.0	12.7	7.8
US Age-adjusted Rate ¹	11.6	15.1	9.0
TRENDS (2000-2004) - APC			
Oregon Annual Trend	-6.4	-5.1	-8.4
US Annual Trend ¹	*-2.3	*-2.5	*-2.5
CANCER MORTALITY			
Total Cancer Deaths (2004)	268	156	112
RATES (2004)			
Oregon Crude Rate	7.5	8.7	6.2
Oregon Age-adjusted Rate	7.0	9.5	5.2
US Age-Adjusted Rate ²	7.2	9.7	5.5
TRENDS (2000-2004) - APC			
Oregon Annual Trend	-2.4	-1.3	-3.0
US Annual Trend ²	*-1.5	*-1.4	*-2.0
PROGNOSIS AND BURDEN (2000-2004)			
Prognosis: M/I Ratio	0.68	0.68	0.68
Burden: YPLL	1,432	825	607

Note: Incidence and mortality rates are per 100,000 population, age-adjusted to the 19-age-group 2000 U.S. standard population, and exclude *in situ* cancers. Total column may exceed male/female columns due to coding to other gender.

¹ SEER 17 Registry Data, SEERStat 6.3.5.

² US Mortality Public Use Data file, National Center for Health Statistics

APC = Average Annual Percent Change.
M/I = Mortality to Incidence Ratio.
YPLL = Years of Potential Life Lost.
* indicates a statistically significant trend.

Leukemia is a cancer that starts in blood-forming tissue such as the bone marrow and causes large numbers of abnormal blood cells to be produced and released into the bloodstream.

In 2004, a total of 371 Oregonians were diagnosed with leukemia and reported to the central registry. Median age at diagnosis was 67. During the same time period, 268 Oregonians died due to leukemia. Median age at death was 76.

The age-adjusted annual incidence rate for leukemia in 2004 was 10 per 100,000. The age-adjusted incidence rate among men was 13 per 100,000 and among women was 8 per 100,000.

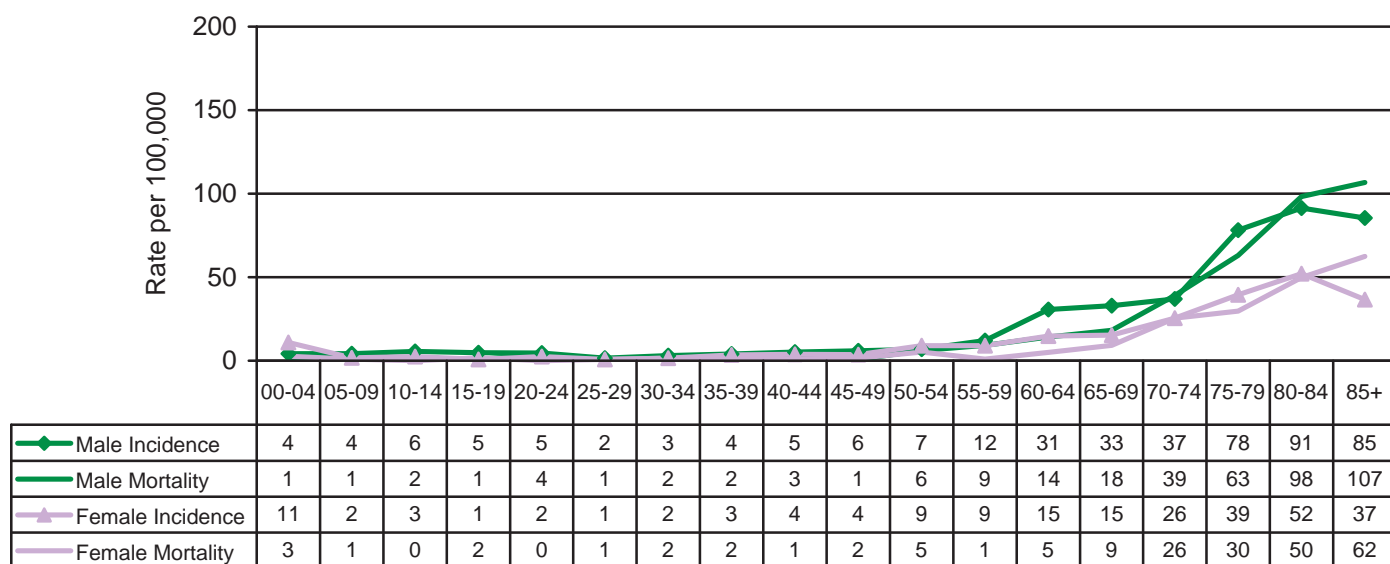
The age-adjusted mortality rate for leukemia in 2004 was 7 per 100,000. Among men, the rate was 10 per 100,000 and among women the rate was 5 per 100,000.

During the period 2000-2004, the mortality to incidence ratio was 68 deaths for every hundred new diagnoses. Based on a life expectancy of 65 years, a total of 1,432 years of potential life were lost due to early deaths from leukemia.

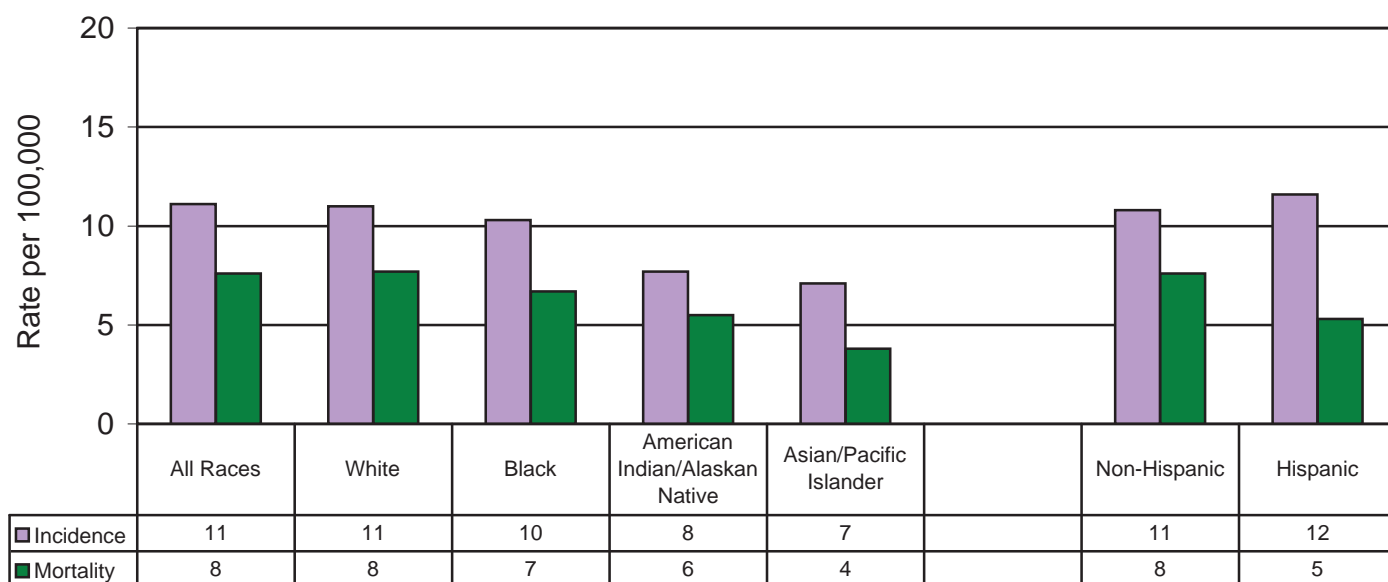
Regionally, incidence was highest in the Columbia River Gorge and mortality was highest in northeastern Oregon and areas of the Willamette Valley. [See Leukemia maps.](#)

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**Leukemia Incidence and Mortality Rates,
by Age Group and Sex, Oregon, 2004**

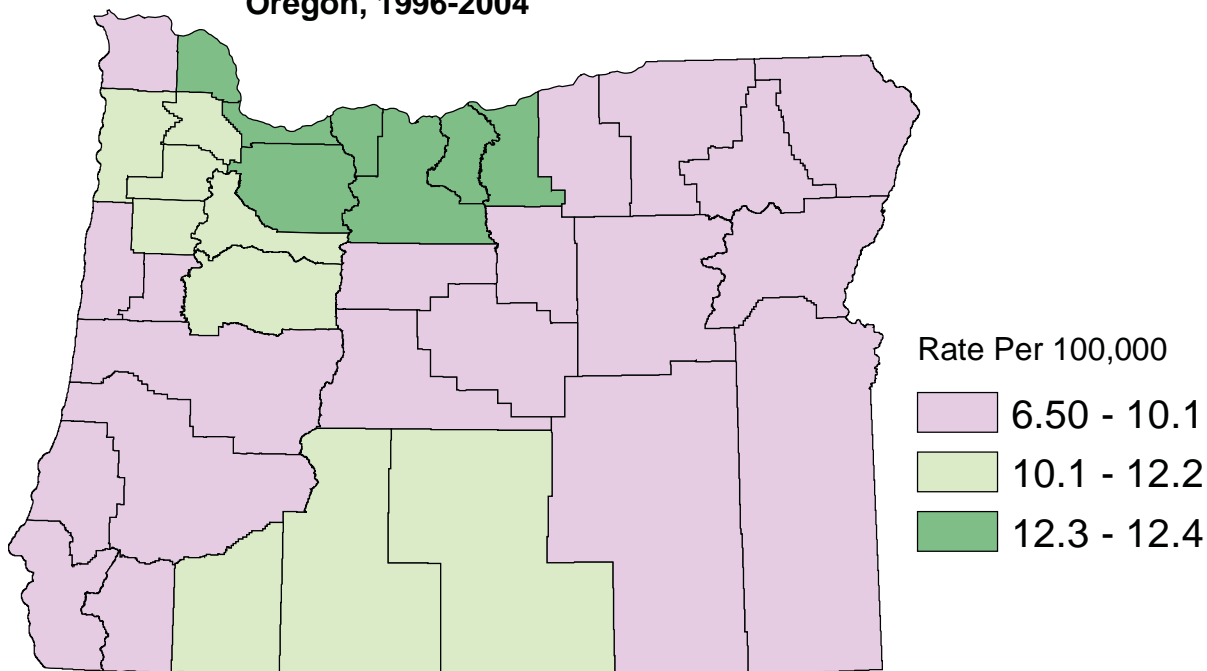


**Leukemia Incidence and Mortality Rates,
by Race and Ethnicity, Oregon, 1996-2004**



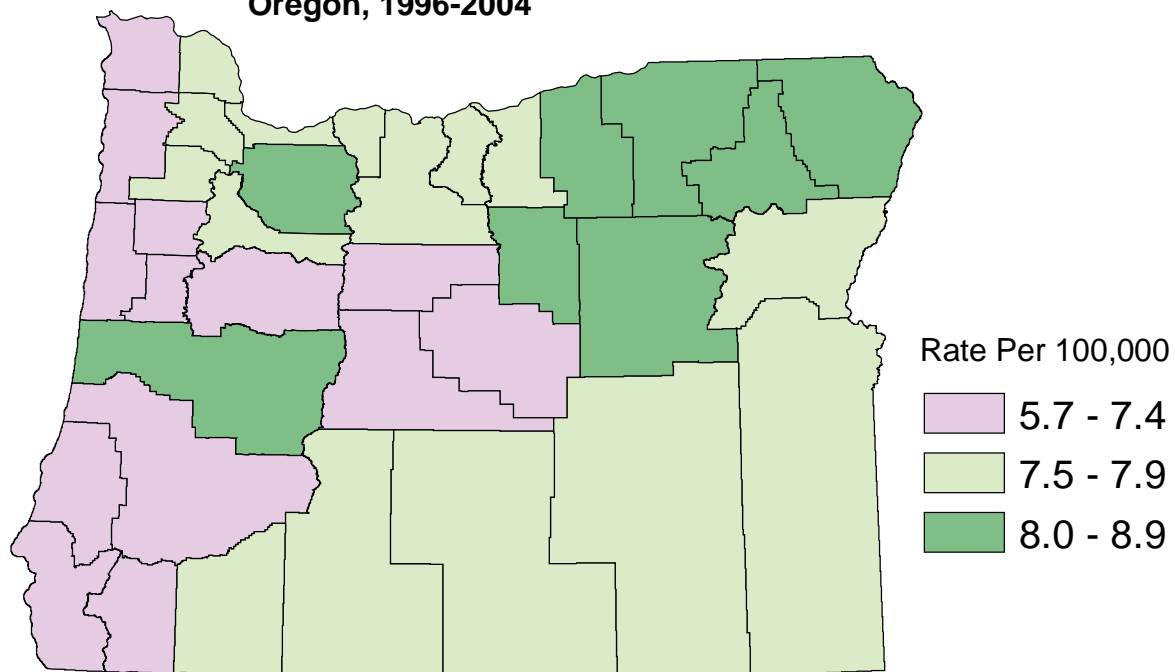
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Leukemia Incidence: Oregon, 1996-2004



Rates have been smoothed to stabilize results from sparsely populated areas.

Leukemia Mortality: Oregon, 1996-2004



Rates have been smoothed to stabilize results from sparsely populated areas.

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Leukemia Incidence and Mortality Rates, by County, 1996-2004 Average

LEUKEMIA Years 1996-2004 Oregon Counties	CANCER INCIDENCE			CANCER MORTALITY		
	Invasive Cases Per Year	Age- Adjusted Rate	9-Year Trend APC	Cancer Deaths Per Year	Age- Adjusted Rate	9-Year Trend APC
STATE	389	11.1	-0.6	270	7.6	-1.9
Baker	2	8.3	^	2	7.7	^
Benton	7	9.9	^	5	7.4	^
Clackamas	39	11.8	-0.3	25	8.0	-4.3
Clatsop	4	9.1	^	2	5.8	^
Columbia	6	14.7	^	3	7.8	^
Coos	10	11.4	^	9	9.2	^
Crook	1	^	^	1	^	^
Curry	4	9.7	^	3	7.7	^
Deschutes	11	9.4	-1.6	8	6.8	^
Douglas	13	10.5	-1.9	10	7.6	^
Gilliam	0	^	^	0	^	^
Grant	1	^	^	1	^	^
Harney	1	^	^	1	^	^
Hood River	2	8.0	^	1	^	^
Jackson	25	11.6	-1.5	18	7.9	-5.2
Jefferson	2	11.3	^	1	^	^
Josephine	9	8.5	^	6	5.7	^
Klamath	9	12.9	^	5	6.3	^
Lake	1	^	^	1	^	^
Lane	34	10.0	+4.1	31	8.9	-2.9
Lincoln	5	L 7.3	^	3	L 4.3	^
Linn	11	9.6	+3.6	9	7.4	^
Malheur	4	10.8	^	2	7.1	^
Marion	35	12.3	-2.6	21	7.5	+0.4
Morrow	1	^	^	1	^	^
Multnomah	77	12.4	-0.7	50	7.9	+1.1
Polk	7	10.3	^	5	7.4	^
Sherman	0	^	^	0	^	^
Tillamook	3	10.2	^	3	9.8	^
Umatilla	7	10.1	^	6	8.0	^
Union	3	10.9	^	2	6.8	^
Wallowa	1	^	^	1	^	^
Wasco	3	9.8	^	1	^	^
Washington	43	11.7	-2.2	27	7.6	-2.4
Wheeler	1	^	^	0	^	^
Yamhill	8	9.6	^	5	6.6	^

Rates are per 100,000 and age-adjusted to the 19-age-group 2000 U.S. Standard Population.

APC = Annual Percent Change.

Counts may not match Center for Health Statistics data tables due to unknown county of death.

* Indicates a statistically significant trend (p<.05).

^ Rate/Trend is not calculated due to instability of small numbers.

H= Rate is statistically significantly higher (p<.05).

L = Rate is statistically significantly lower (p<.05).