

## Research shows melanoma rates in Utah outpace that of the rest of the U.S.

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Melanoma. Credit: Wikimedia Commons/National Cancer Institute

A letter published today by Huntsman Cancer Institute (HCI) at the University of Utah (U of U) in the *New England Journal of Medicine* reports that melanoma mortality among Utahns outpaced that of the rest of the United States during the period from 1975 to 2013. Melanoma death rates have been decreasing in recent years both in Utah and the

United States, a trend likely attributable to new, more effective treatments, like immunotherapy. However, melanoma remains the deadliest type of skin cancer, and the incidence of melanoma diagnoses in Utahns is higher than in any other state.

The research was conducted in response to recent published data showing that for most of the 1990s and 2000s, [melanoma](#) mortality in the United States remained constant, while incidence increased six-fold. Increasing incidence without a corresponding increase in mortality suggests a potentially worrying trend of overdiagnosis—that is, when patients with benign conditions are incorrectly diagnosed as having cancer. In the case of melanoma, overdiagnosis may result from increased scrutiny, where repeated skin exams lead to increasing numbers of biopsies and a higher chance of finding a lesion that would not have been detected otherwise, and which might not be likely to progress to a harmful cancer.

Given Utah's status as the state with the highest incidence of melanoma, the HCI team set out to evaluate the melanoma diagnosis and death rate data in Utah. After review and analysis of data by biostatistician Kim Herget from the Utah Cancer Registry, a National Cancer Institute Survival, Epidemiology, and End Results (SEER) database, the researchers found that in contrast to the rest of the United States, melanoma mortality in Utah increased by 0.8% per year through the entire period from 1975 through 2013. While melanoma deaths in Utah are decreasing in recent years, Utah's melanoma death rate remains higher than that observed in the rest of the United States.

"Although we agree that overdiagnosis of melanoma is a growing problem, the sustained increase in melanoma mortality in Utah suggests that at least some fraction of the increasing incidence is real and cannot be attributed solely to overdiagnosis," said Doug Grossman, MD, Ph.D., who co-leads the HCI melanoma and skin cancer center at HCI and

serves as professor of dermatology at the U of U. "Our research underscores an [increased risk](#) for Utahns, and so we must remain vigilant about melanoma. For doctors, this means regular conversations with patients about their skin health and family history. For patients, this means practicing sun-safe behaviors like diligent sunscreen use, wearing sun-protective clothing, and monitoring their skin at home on a monthly basis to reduce risk of [skin cancer](#) and optimize early detection."

The researchers anticipate future studies to determine whether this trend in Utahns is a result of increased ultraviolet exposure in a largely fair-skinned population living in a sunny, high-altitude climate or is associated with other environmental or genetic factors.

**More information:** Doug Grossman et al, The Rapid Rise in Cutaneous Melanoma Diagnoses *N Engl J Med* 2021; 384:e54 [DOI: 10.1056/NEJMc2101980](#)

Provided by Huntsman Cancer Institute

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