

# Treatment with immunotherapy alone produces 'exceptional' response rates in some melanoma patients

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Melanoma in skin biopsy with H&E stain—this case may represent superficial spreading melanoma. Credit: Wikipedia/CC BY-SA 3.0

Data from a national clinical trial shows that a striking 89% of patients with desmoplastic melanoma responded to immunotherapy

(pembrolizumab) alone, suggesting that many patients could avoid the risk for toxicity from combination therapies and achieve cancer control with this approach to treatment.

Desmoplastic [melanoma](#) is a subset of melanoma skin cancer that is caused by high levels of ultraviolet (UV) [radiation damage](#) and, therefore, a high number of tumor mutations that all contribute to aggressive disease development and growth.

"Not all melanomas are the same, and they don't respond to treatments in the same degree. Identifying the best treatment strategies for these unique patients can improve outcomes, which is our continual goal," said study principal investigator Kari Kendra, MD, Ph.D., a medical oncologist who specializes in the treatment of melanoma at The Ohio State University Comprehensive Cancer Center—Arthur G. James Cancer Hospital and Richard J. Solove Research Institute (OSUCCC—James). "This study makes us truly question whether [combination therapy](#) is necessary for these patients, and it presents important knowledge that could help us further tailor treatment based on characteristics of the patient's unique tumor and reduce the potential for toxicity from combination therapies."

Dr. Kendra reports the team's findings at the American Association for Cancer Research 2023 annual meeting on Sunday, April 16.

In this SWOG Cancer Research Network-sponsored study, researchers previously reported results on Cohort A in which recruitment of 30 patients with resectable melanoma treated with three cycles of pembrolizumab (pronounced pem-bro-LIH-zoo-mab, marketed as Keytruda) resulting in a pathologic complete response rate of 55%—meaning there was no evidence of disease after treatment. Here the researchers report the findings for Cohort B, treatment of those with unresectable disease with pembrolizumab. Twenty-seven patients with

desmoplastic melanoma that could not be treated with surgery were recruited. Of the participating patients, 89% had a favorable treatment response to single-agent immunotherapy treatment with pembrolizumab and 33% had complete response.

"With responses this high with single-agent pembrolizumab, combination therapy—with its increased potential for toxicity— is not needed as first-line therapy for [patients](#) with unresectable desmoplastic melanoma," says Dr. Kendra, also a researcher with the Pelotonia Institute for Immuno-Oncology and professor at The Ohio State University College of Medicine. "Many advances in the treatment of melanoma have resulted in improvement in overall survival. There are many [treatment](#) options available. Now our focus is on how we decide the best approach for each given patient."

Co-authors of the study include Shay Bellasea, Zeynep Eroglu, Siwen Hu-Lieskovan, Katie M. Campbell, William Carson III, David Wada, Jose A. Plaza, Jeffrey Sosman, Gino K. IN, Alexandra Ikeguchi, John Hyngstrom, Andres Brohl, Nikhil I. Khushalani, Joseph Markowitz, George Negrea, Samer Kasbari, Gary C. Doolittle, Umang Swami, Toni Roberts, Sapna P. Patel, Elad Sharon, James Moon, Michael C. Wu, Antoni Ribas.

Provided by Ohio State University Medical Center

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