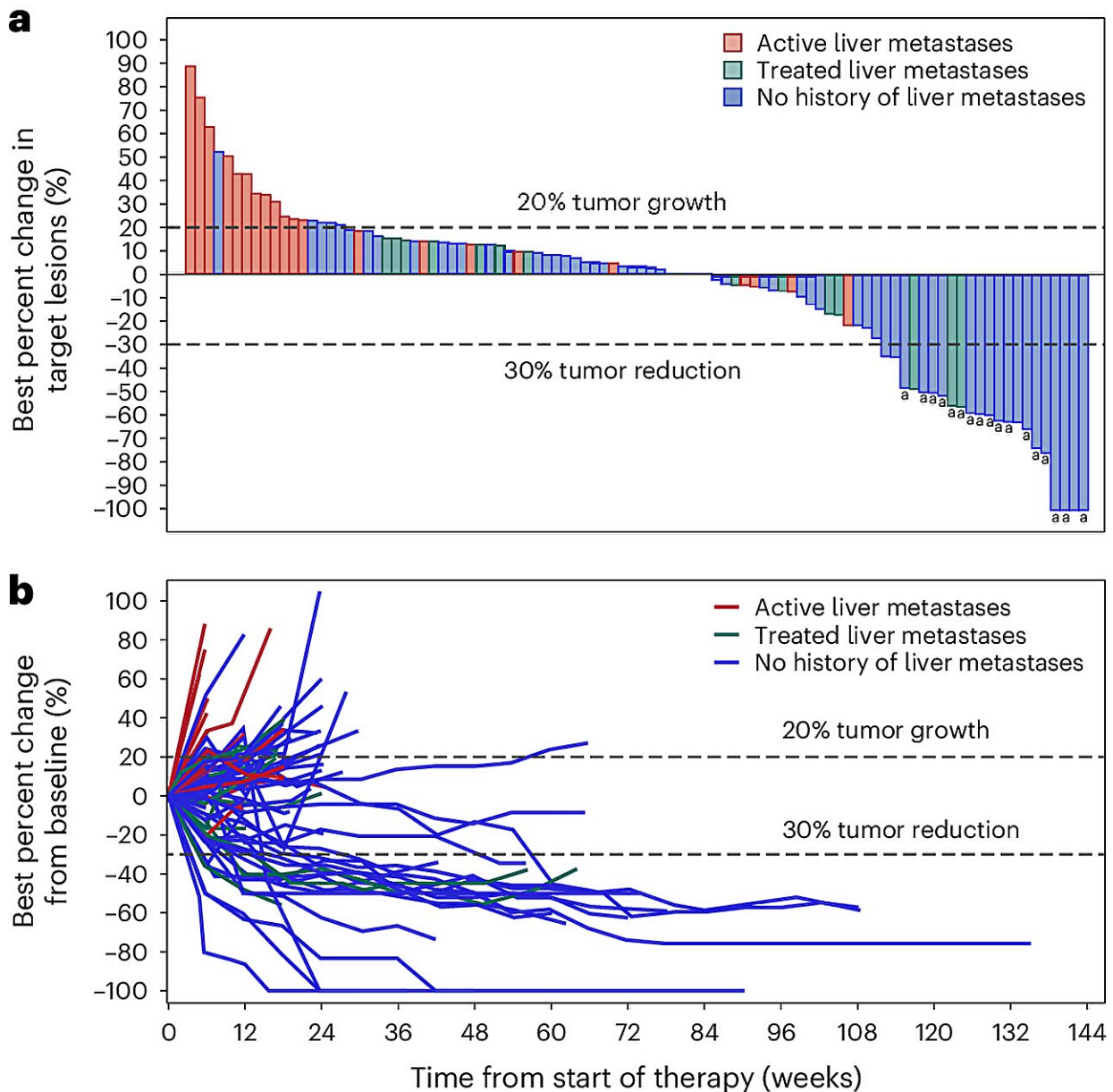


# Successful trial for new colorectal cancer treatment highlights promising immunotherapy drugs

June 14 2024



Clinical efficacy by liver involvement in response-evaluable patients with MSS mCRC (n = 101). Credit: *Nature Medicine* (2024). DOI: 10.1038/s41591-024-03083-7

Results from a new trial indicate that immunotherapy could successfully be used to treat the most common form of colorectal cancer, also known as bowel cancer.

The findings of the new study, a phase 1 trial involving the [immunotherapy](#) drugs botensilimab and balstilimab, have been [published](#) in the journal *Nature Medicine*, and it is the first time that consistent and durable responses to immunotherapy have been reported in difficult-to-treat patients.

Co-authored by Professor Justin Stebbing of Anglia Ruskin University (ARU), who describes the results as "potentially game changing," the study focused on the most common type of colorectal tumors, known as MSS mCRC, or microsatellite stable metastatic colorectal cancer.

Although immunotherapy has previously been shown to work on patients with specific mismatch repair deficient (dMMR) tumors, only a small percentage of colorectal cancer patients have this type of tumor, and immunotherapy has so far been ineffective in patients with more common MSS mCRC tumors.

The new study involved using the immunotherapy drug botensilimab in conjunction with balstilimab on a group of patients in the United States. These drugs are both [monoclonal antibodies](#), which work by triggering the body's immune system to attack the cancer.

Of the patients in the phase 1 trial, 101 took part in a six-month follow-up and of these, 61% of them saw their tumor shrink or remain stable after receiving a combination of botensilimab (BOT) and balstilimab (BAL). The most common side-effects, or treatment-related adverse events, were diarrhea and fatigue.

Stebbing, professor of biomedical sciences at Anglia Ruskin University (ARU) and communicating author of the study, said, "These results are incredibly exciting. Colorectal or [bowel cancer](#) is one of the most common forms of cancer worldwide and this is the first time there has been convincing evidence that immunotherapy can work in all forms of colorectal tumors, so this is potentially game changing.

"This is now progressing into later phase clinical trials and we hope the FDA in the United States approve its use very soon. And because this is such an important area, affecting so many people, we hope authorities in the UK are also able to move quickly."

Joint first author Dr. Andrea Bullock, assistant professor in medicine at Beth Israel Deaconess Medical Center, said, "This study sheds light on the potential of the BOT/BAL combination to treat microsatellite stable metastatic colorectal cancer, the most common form of colorectal cancer which has historically not responded to immunotherapy, and we hope our results will offer new hope for those diagnosed."

Joint last author Dr. Anthony El-Khoueiry, associate director of Clinical Research and chief of section of Developmental Therapeutics at the USC Norris Comprehensive Cancer Center, said, "This phase 1 study of botensilimab highlights its promising anti-tumor activity that encompasses immunologically cold tumors such as MSS colorectal cancer. The efficacy noted highlights the potential of botensilimab through its broader engagement of anti-tumor immunity."

**More information:** Andrea J. Bullock et al, Botensilimab plus balstilimab in relapsed/refractory microsatellite stable metastatic colorectal cancer: a phase 1 trial, *Nature Medicine* (2024). [DOI: 10.1038/s41591-024-03083-7](https://doi.org/10.1038/s41591-024-03083-7)

Provided by Anglia Ruskin University

Citation: Successful trial for new colorectal cancer treatment highlights promising immunotherapy drugs (2024, June 14) retrieved 26 June 2024 from <https://medicalxpress.com/news/2024-06-successful-trial-colorectal-cancer-treatment.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.