# Patients' immune system may influence effectiveness of cancer immunotherapy 

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In blood samples taken prior to the start of immunotherapy, the researchers also found that patients with higher levels of circulating CD8, or cytotoxic, T cells-also known as killer T cells-and lower levels of regulatory T cells were associated with better response to treatment.
"Our study shows that immune cells in the microenvironment around the tumor could play a critical role in how patients respond to immunotherapy. By determining the nature of these cells and how they are affected by treatments, we may be able to significantly improve the effectiveness of current therapies and help a greater number of patients," said Dr. Ferris.

More information: This study was funded by UPCI and Bristol-Myers Squibb.

Provided by University of Pittsburgh Schools of the Health Sciences

The research was an extension of the recently completed CheckMate 141 Phase III clinical trial cochaired by Dr. Ferris, which showed that the

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