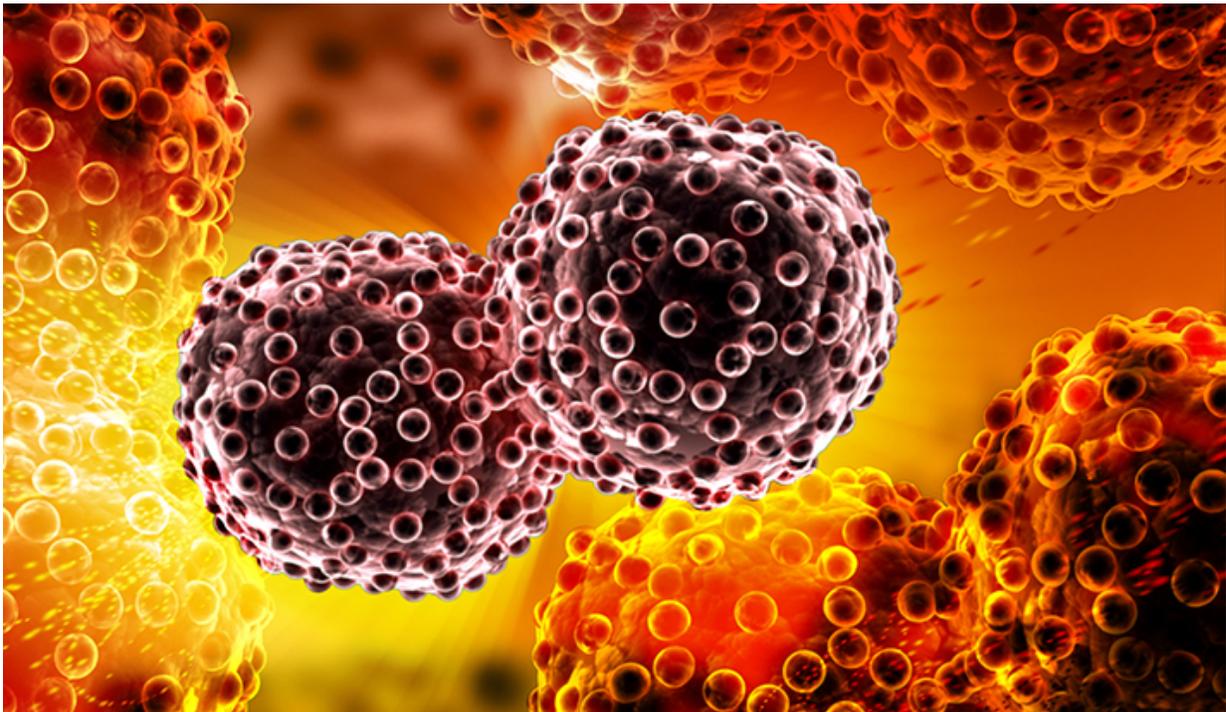


# Immune therapy drug results in prolonged survival in advanced lung cancer

December 21 2015, by Vicky Agnew

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A Yale-led international study in patients with advanced non-small cell lung (NSCLC) cancer resistant to chemotherapy has found a promising weapon in an immune therapy drug commonly used to treat other cancers. The findings were published Dec. 19 in *The Lancet* and presented at the 2015 annual conference of the European Society for

Medical Oncology in Singapore.

The study, called KEYNOTE 010, compared pembrolizumab with the [chemotherapy drug](#) docetaxel in 1,034 patients with NSCLC whose tumors expressed the PD-L1 biomarker. PD-L1 is a protein expressed by many tumor types that can render the [cancer](#) invulnerable to immune attack. The study endpoints were overall survival (OS), progression-free survival (PFS), and safety.

Patients whose tumors expressed even low levels of PD-L1 benefited significantly from pembrolizumab. Patients with tumors that expressed the highest amounts of PD-L1 responded better and lived, on average, twice as long as patients treated with docetaxel alone (14.9 months versus 8.2 months), said senior author Roy S. Herbst, M.D., the Ensign Professor of Medicine and chief of [medical oncology](#) at Yale Cancer Center and Smilow Cancer Hospital at Yale-New Haven.

"I believe we should treat patients with the best available drugs as soon as possible. Now that we have learned which patients are most likely to benefit from the anti-PD-L1 strategy, we could begin moving this drug to the earlier setting stages," Herbst said. "In this direction, I am eager to see the results of ongoing studies testing pembrolizumab in the first-line setting and as an adjuvant after surgery to hopefully reduce high rates of lung cancer recurrence."

In this study, researchers gave the drug to patients whose tumors had progressed after standard chemotherapy. Herbst said the findings show that pembrolizumab, which caused few significant side effects and was better tolerated than chemotherapy, could be offered earlier to patients with a particular [tumor](#) profile.

In Oct. 2015, the Food and Drug Administration granted accelerated approval to pembrolizumab for the treatment of [patients](#) with metastatic

non-small cell lung cancer (NSCLC) whose tumors express PD-L1 with disease progression on or after platinum-containing chemotherapy.

**More information:** Roy S Herbst et al. Pembrolizumab versus docetaxel for previously treated, PD-L1-positive, advanced non-small-cell lung cancer (KEYNOTE-010): a randomised controlled trial, *The Lancet* (2015). [DOI: 10.1016/S0140-6736\(15\)01281-7](https://doi.org/10.1016/S0140-6736(15)01281-7)

Provided by Yale University

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