

Patients taking nivolumab experience five-fold increase in overall survival compared to chemotherapy

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Pooled data on two clinical trials demonstrate patients taking nivolumab realized a greater than five-fold increase in five-year overall survival rate compared with the chemotherapy docetaxel. The presentation was made today by Dr. Scott Gettinger of Yale Comprehensive Cancer Center, New Haven, Conn., at the IASLC 2019 World Conference on Lung Cancer, hosted by the International Association for the Study of Lung Cancer.

Historically, outcomes for advanced non-small cell [lung cancer](#) have been poor, with five-year survival rates less than five percent with conventional chemotherapy. Nivolumab, a programmed death-1 inhibitor, was approved in 2015 for patients with previously treated advanced NSCLC based on two randomized phase three trials, CheckMate 017 and CheckMate 057, which demonstrated improved overall survival compared to docetaxel.

In CheckMate 017 and 057, 854 patients with advanced NSCLC, ECOG performance status 0 to 1, and progression during or after first-line platinum-based chemotherapy, were randomized 1:1 to [nivolumab](#) or docetaxel until progression or unacceptable toxicity. After completion of the primary analyses, patients in the docetaxel arm no longer receiving benefit could cross over to receive nivolumab. The researchers set overall survival as the primary endpoint for both studies.

At five-year follow-up, 50 nivolumab patients and nine docetaxel patients were alive. Baseline characteristics of five-year survivors in both arms were similar to the overall population and patients who survived less than one year, except for a higher percentage of patients with ECOG PS 0 or tumor programmed death ligand-1 (PD-L1) expression greater than one percent on nivolumab and ECOG PS 0 and Stage IIIB NSCLC on docetaxel. Nivolumab continued to show long-term overall survival and progression-free survival benefit compared to docetaxel with five-year survival rates of 13.4 percent vs 2.6 percent and progression-free survival rates 8.0 percent compared to 0 percent. The [overall survival](#) benefit with nivolumab compared with docetaxel was observed across subgroups, including patients with tumor PD-L1 expression

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