

Osimertinib bests platinum-pemetrexed in T790M+ NSCLC

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(HealthDay)—Osimertinib is more effective than platinum-pemetrexed

therapy in patients with T790M-positive advanced non-small-cell lung cancer whose disease has progressed during first-line epidermal growth factor receptor tyrosine kinase inhibitor (EGFR-TKI) treatment, according to a study published online Dec. 6 in the *New England Journal of Medicine*. The research was published to coincide with the International Association for the Study of Lung Cancer's 17th World Conference on Lung Cancer, held from Dec. 4 to 7 in Vienna.

Tony S. Mok, M.D., from the Chinese University of Hong Kong, and colleagues conducted a phase 3 trial involving 419 patients with T790M-positive advanced [non-small-cell lung cancer](#) who had disease progression after first-line EGFR-TKI therapy. Participants were randomized in a 2:1 ratio to oral osimertinib or intravenous pemetrexed plus carboplatin or cisplatin every three weeks for up to six cycles.

The researchers found that progression-free survival was of a significantly longer duration with osimertinib versus platinum therapy plus pemetrexed (10.1 versus 4.4 months; hazard ratio, 0.30). A significantly better objective response rate was seen for osimertinib than platinum therapy plus pemetrexed (71 versus 31 percent; odds ratio, 5.39). The median duration of progression-free survival was significantly longer with osimertinib among the 144 patients with metastases to the central nervous system (CNS) (8.5 versus 4.2 months; hazard ratio, 0.32).

"Osimertinib had significantly greater efficacy than platinum therapy plus pemetrexed in [patients](#) with T790M-positive advanced non-small-cell [lung cancer](#) (including those with CNS metastases), in whom disease had progressed during first-line EGFR-TKI therapy," the authors write.

The study was funded by AstraZeneca, the manufacturer of osimertinib.

More information: [Abstract](#)

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