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Lume-lung 2: A multicenter, randomized, double-blind, phase III study of nintedanib plus pemetrexed versus placebo plus pemetrexed in patients with advanced nonsquamous non -small cell lung cancer (NSCLC) after failure of first-line chemotherapy.

Sub-category: Metastatic Non-small Cell Lung Cancer

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Abstract Disclosures

Abstract:

Background: Nintedanib (N) is an oral inhibitor of VEGFR, FGFR, and PDGFR. This global phase 3 study investigated the safety and efficacy of N + pemetrexed (PEM) vs placebo (P) + PEM in patients (pts) with advanced, non-squamous NSCLC previously treated with chemotherapy. Methods: Pts were randomized 1:1 to N 200 mg po bid + PEM 500 mg/m² iv q21d (n=353, Arm A) or P + PEM (n=360, Arm B). Continuation until PD or unacceptable toxicity with N, P, PEM, or a combination was permitted. 1° endpoint was centrally reviewed PFS. The null hypothesis was tested on the ITT population after 394 events had occurred (two sided α =5%). 2° endpoints included OS, investigator-assessed PFS, response rate (RR), safety, and QoL. Results: Baseline pt characteristics were balanced between Arm A vs B (median age 59 y, female 45–42%, ECOG PS 1 62-61%, adenocarcinoma 95–93%, prior bevacizumab 8%). Based on a planned DMC futility analysis of investigator-assessed PFS, enrolment was halted after randomizing 713/1300 planned pts (no safety issues identified). Ongoing pts were unblinded and follow-up continued per protocol. Subsequent ITT analysis of the 1° endpoint (centrally reviewed PFS) favored Arm A vs B (median 4.4 vs 3.6 mo, HR 0.83 [95% CI: 0.7-0.99], p=0.04). Disease control was also significantly improved in N-treated pts (61 vs 53%, odds ratio 1.37, p=0.039). No difference in OS (HR 1.03) or RR (9%) was found. Exploratory analyses identified time since start of 1^{st} -line therapy as a predictive marker of improved outcome with N + PEM (ASCO 2013). There was no increase in SAEs or G5 AEs with N + PEM. Addition of N to PEM resulted in a higher incidence of \geq G3 elevated ALT (23 vs 7%), elevated AST (12 vs 2%), and diarrhea (3 vs 1%), but no difference in \geq G3 hypertension, bleeding, thrombosis, mucositis, or neuropathy. **Conclusions:** The 1° endpoint was met even though the study was stopped prematurely. Treatment with N + PEM significantly improved centrally reviewed PFS vs P + PEM in pts with advanced non-squamous NSCLC previously treated with chemotherapy, and had a manageable safety profile. Clinical trial information: NCT00806819.