

Lorbrena[®] (lorlatinib) – Expanded indication

- On March 3, 2021, [Pfizer announced](#) the FDA approval of [Lorbrena \(lorlatinib\)](#), for the treatment of adult patients with metastatic non-small cell lung cancer (NSCLC) whose tumors are anaplastic lymphoma kinase (ALK)-positive as detected by an FDA-approved test.
 - Previously, Lorbrena was approved for the treatment of patients with ALK-positive metastatic NSCLC whose disease has progressed on: [Xalkori[®] \(crizotinib\)](#) and at least one other ALK inhibitor for metastatic disease; or [Alecensa[®] \(alectinib\)](#) as the first ALK inhibitor therapy for metastatic disease; or [Zykadia[®] \(ceritinib\)](#) as the first ALK inhibitor therapy for metastatic disease.
 - The FDA also converted the accelerated approval for this indication to full approval.
- This approval expands the indication to include first-line treatment of patients with NSCLC.
- The approval of Lorbrena for the expanded indication was based on the CROWN study, an open-label, randomized, active-controlled trial in 296 patients with ALK-positive NSCLC who had not received prior systemic therapy for metastatic disease. Patients were randomized to receive Lorbrena or Xalkori. The major efficacy outcome measure was progression-free survival (PFS). Additional efficacy outcome measures were overall survival (OS), overall response rate (ORR), and duration of response (DOR).
 - Median PFS was not estimable for Lorbrena vs. 9.3 months for Xalkori (hazard ratio 0.28, 95% CI: 0.19, 0.41; $p < 0.0001$).
 - The ORR was 76% (95% CI: 68, 83) for Lorbrena vs. 58% (95% CI: 49, 66) for Xalkori.
 - The median DOR was not estimable (range: 0.9, 31.3) for Lorbrena vs. 11 months (range: 1.1, 27.5) for Xalkori.
 - At the data cutoff point OS data was not mature.
- The recommended dosage of Lorbrena is 100 mg orally once daily, with or without food, until disease progression or unacceptable toxicity.