

Name: Constantin Makris, PhD Company/Organization: Pfizer Inc, Pfizer Oncology

Address: 235 East 42nd Street, New York, NY 10017

Phone: 646-789-2405

Email: Constantin.Makris@Pfizer.com

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NCCN Guidelines Panel: Non-Small Cell Lung Cancer

Dear NCCN Non-Small Cell Lung Cancer Panel Members,

On behalf of the Pfizer, I respectfully request the NCCN Guideline Panel for Non-Small Cell Lung Cancer to review the enclosed information for inclusion of Iorlatinib as a first-line therapy for patients with previously untreated advanced anaplastic lymphoma kinase (ALK)-positive metastatic non-small cell lung cancer (NSCLC) whose tumors are positive as detected by an FDA approved test.

<u>Specific Changes Requested</u>: Recommend inclusion of lorlatinib as a first-line therapy for patients with previously untreated advanced anaplastic lymphoma kinase (ALK)-positive metastatic non-small cell lung cancer (NSCLC) whose tumors are positive as detected by an FDA approved test.

FDA Clearance (Non-Small Cell Lung Cancer):

Lorlatinib is FDA-approved for the treatment of patients with anaplastic lymphoma kinase (ALK)-positive metastatic non-small cell lung cancer (NSCLC) whose disease has progressed on

- crizotinib and at least one other ALK inhibitor for metastatic disease; or
- alectinib as the first ALK inhibitor therapy for metastatic disease; or
- ceritinib as the first ALK inhibitor therapy for metastatic disease.

The data from the first-line CROWN trial (NCT03052608) will be reviewed under the FDA's Real Time Oncology Review (RTOR) pilot program (https://www.pfizer.com/news/press-release/press-release-detail/results-phase-3-crown-trial-pfizers-lorbrenar-lorlatinib).

<u>Rationale:</u> At a planned interim analysis for the CROWN trial (NCT03052608), lorlatinib demonstrated statistically significant improvement in progression-free survival (PFS) according to blinded independent central review (BICR) and a higher frequency of intracranial response than those who received crizotinib.



The following resources are submitted in support of this requested change:

- Shaw, A.T. et al. First-Line Lorlatinib or Crizotinib in Advanced ALK-Positive Lung Cancer. N Engl J Med 2020; 383; 2018-2029
- 2. Shaw, A.T. et al. First-Line Lorlatinib or Crizotinib in Advanced ALK-Positive Lung Cancer. N Engl J Med 2020; 383; 2018-2029 (Supplementary Appendix)

The basis for this request are the results from an international, multicenter, randomized, open-label, phase 3 trial (CROWN Trial), which evaluated the efficacy and safety of lorlatinib versus crizotinib as first-line therapy in patients with advanced ALK-positive NSCLC who had received no previous systemic treatment for metastatic disease.

The primary endpoint was progression-free survival by blinded independent central review (BICR). Secondary endpoints included independently assessed objective response rate and intracranial response, overall survival and safety. A total of 296 patients were randomized to lorlatinib (n=149) or crizotinib (n=147).

At a planned interim analysis, progression-free survival at 12-months was 78% (95% CI, 70 to 84) with lorlatinib vs. 39% (95% CI, 30 to 48) with crizotinib (HR, 0.28; 95% CI, 0.19 to 0.41; P<0.001). The hazard ratio for progression-free survival as assessed by BICR favored lorlatinib over crizotinib across all prespecified patient subgroups. The objective response rate was 76% (95% CI, 68 to 83) with lorlatinib and 58% (95% CI, 49 to 66) with crizotinib. Intracranial response rates in patients with measurable brain metastases were 82% (95% CI, 57 to 96) and 23% (95% CI, 5 to 54), respectively, with intracranial complete responses in 71% of lorlatinib-treated patients and 8% in crizotinib-treated patients. The time to CNS progression was significantly longer with lorlatinib than with crizotinib The percentage of patients who were alive without CNS progression at 12 months was 96% (95% CI, 91 to 98) with lorlatinib and 60% (95% CI, 49 to 69) with crizotinib (hazard ratio, 0.07; 95% CI, 0.03 to 0.17).

The most common adverse events with lorlatinib included hyperlipidemia, edema, increased weight, peripheral neuropathy, and cognitive effects. Lorlatinib was associated with more Grade 3 or 4 adverse events (72% vs. 56% with crizotinib), mainly altered lipids. Treatment discontinuation from adverse events occurred in 7% and 9% of patients, respectively. Adverse events leading to dose interruption or dose reduction, respectively, were reported in 49% and 21% of the patients in the lorlatinib group and in 47% and 15% of those in the crizotinib group.

We greatly appreciate the Panel's thorough consideration of the data for lorlatinib as a first-line therapy for patients with previously untreated advanced ALK-positive metastatic NSCLC whose tumors are positive as detected by an FDA approved test.



Best regards,

Constantin Makris

Constantin Makris, Ph.D.

Senior Director, North America Medical Affairs Oncology Team Lead

Pfizer Oncology

235 E. 42nd Street, New York, NY, 10017

Phone:+1 212-733-1073 Mobile: +1 646-789-2405

Email: Constantin.Makris@Pfizer.com