

Design and rationale for a phase 3 trial of admilparant (BMS-986278), an oral lysophosphatidic acid receptor 1 antagonist, in patients with idiopathic pulmonary fibrosis: ALOFT-IPF

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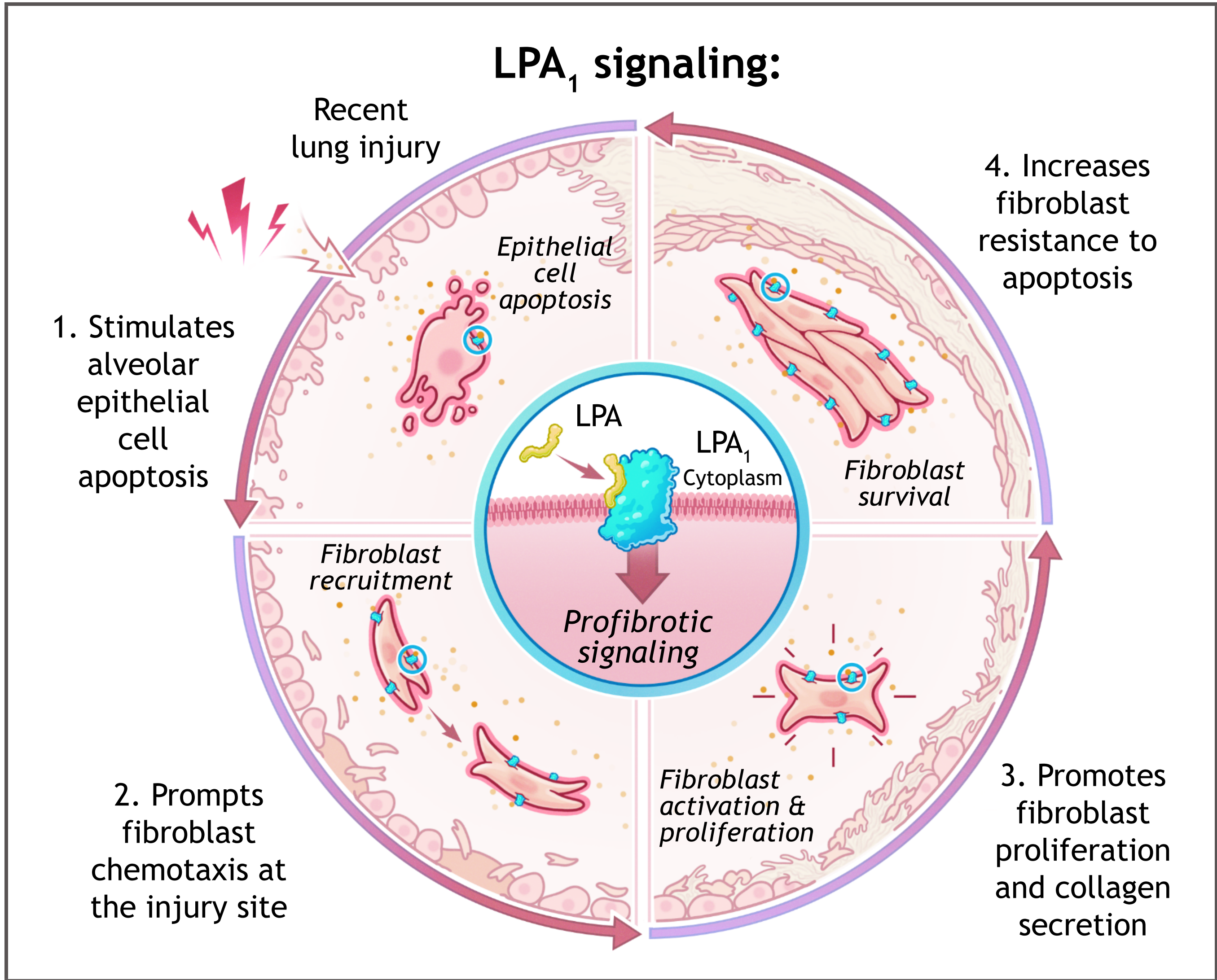
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*At the time study was conducted

Rationale

- Idiopathic pulmonary fibrosis (IPF) is a chronic, progressive fibrosing form of interstitial lung disease with no identifiable cause and poor prognosis¹
- Approved antifibrotics slow lung function decline but do not halt disease progression, and patients often do not tolerate treatment²⁻⁵
- Lysophosphatidic acid receptor 1 (LPA₁) signaling plays a central role in the pathogenesis of fibrotic lung diseases (Figure 1)⁶
 - In a phase 2 trial, 60 mg twice daily (BID) admilparant (BMS-986278), an oral LPA₁ antagonist, slowed lung function decline and was well tolerated in patients with IPF over 26 weeks⁷

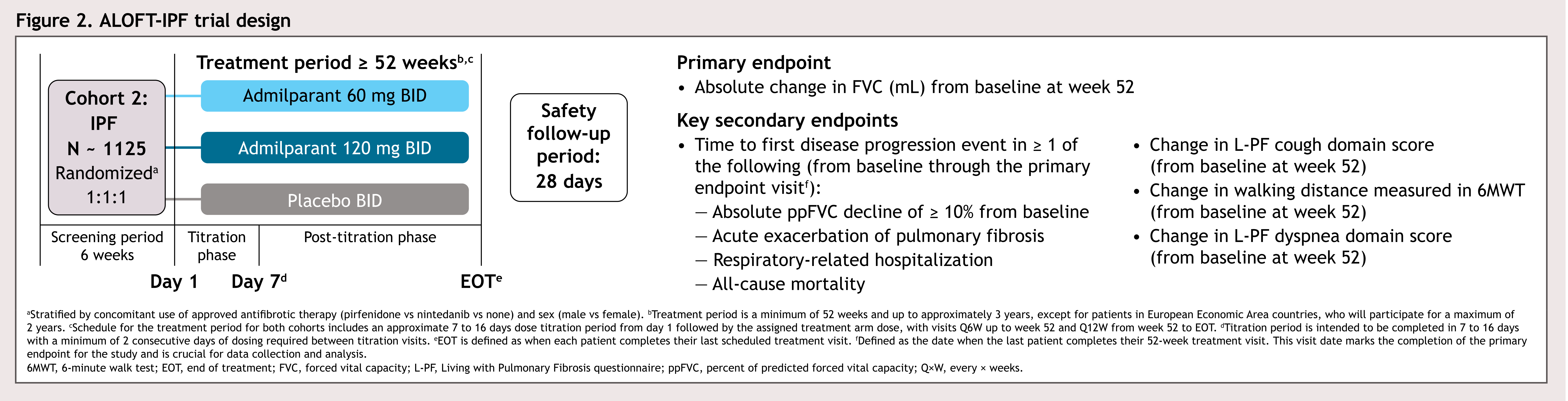
Figure 1. The role of LPA₁ signaling in the pathogenesis of pulmonary fibrosis



Aim

- The ALOFT-IPF phase 3 trial aims to further evaluate admilparant as a treatment option for patients with IPF

Methods



- ALOFT-IPF (NCT06003426) is a global, phase 3, multicenter, randomized, double-blind, placebo-controlled clinical trial currently randomizing adults with IPF to receive admilparant 60 or 120 mg or placebo (1:1:1) orally, BID for ≥ 52 weeks (Figure 2)
- The trial enrolls patients in > 400 sites across > 30 countries. Trial completion is estimated to be October 2026
- ALOFT-IPF is a trial with a 2-cohort design
- Cohort 1 (N ~ 60) has a single-blind design and enrolls patients with IPF to evaluate the safety and tolerability of admilparant (not shown)
 - Cohort 1 primary endpoint: number of patients experiencing spontaneous syncopal episodes (admilparant 120 mg BID vs placebo) from day 7 to day 29 post-treatment
- Cohort 2 design is shown in Figure 2
- Key patient eligibility criteria are presented in Table 1

Table 1. Key patient eligibility criteria

Main inclusion criteria
1. ≥ 40 years of age
2. Diagnosis of IPF within 7 years supported by centrally read chest high-resolution computed tomography during screening, and verification of usual interstitial pneumonia
3. ppFVC ≥ 40%
4. Forced expiratory volume in 1 second (FEV ₁)/FVC ≥ 0.7
5. Single-breath, hemoglobin-corrected percent of predicted diffusing capacity of the lung for carbon monoxide (ppDL _{CO}) ≥ 25%
6. Stable-dose (≥ 90 days before screening) background antifibrotic treatment (nintedanib or pirfenidone) is permitted; if not currently on treatment, patients must not have received either medication within 28 days before screening
Main exclusion criteria
1. History of stroke or transient ischemic attack within 3 months before screening
2. Symptoms of heart failure at rest
3. Patients who have a current malignancy or a previous malignancy with < 2 years free of recurrence

Conclusions

- Admilparant (BMS-986278) is a potent, selective, second-generation, oral, small-molecule LPA₁ antagonist in development for the treatment of patients with IPF
- The ALOFT-IPF trial is evaluating the effect of admilparant on absolute change in FVC, disease progression, safety, and quality of life over 52 weeks in patients with IPF

References

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