

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

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Fernando J. Martinez,¹ Tamera J. Corte,^{2,3} Vincent Cottin,⁴ Aryeh Fischer,^{5*} Sinae Kim,⁵ Aditya Patel,⁵ Mudiaga Sowho⁵

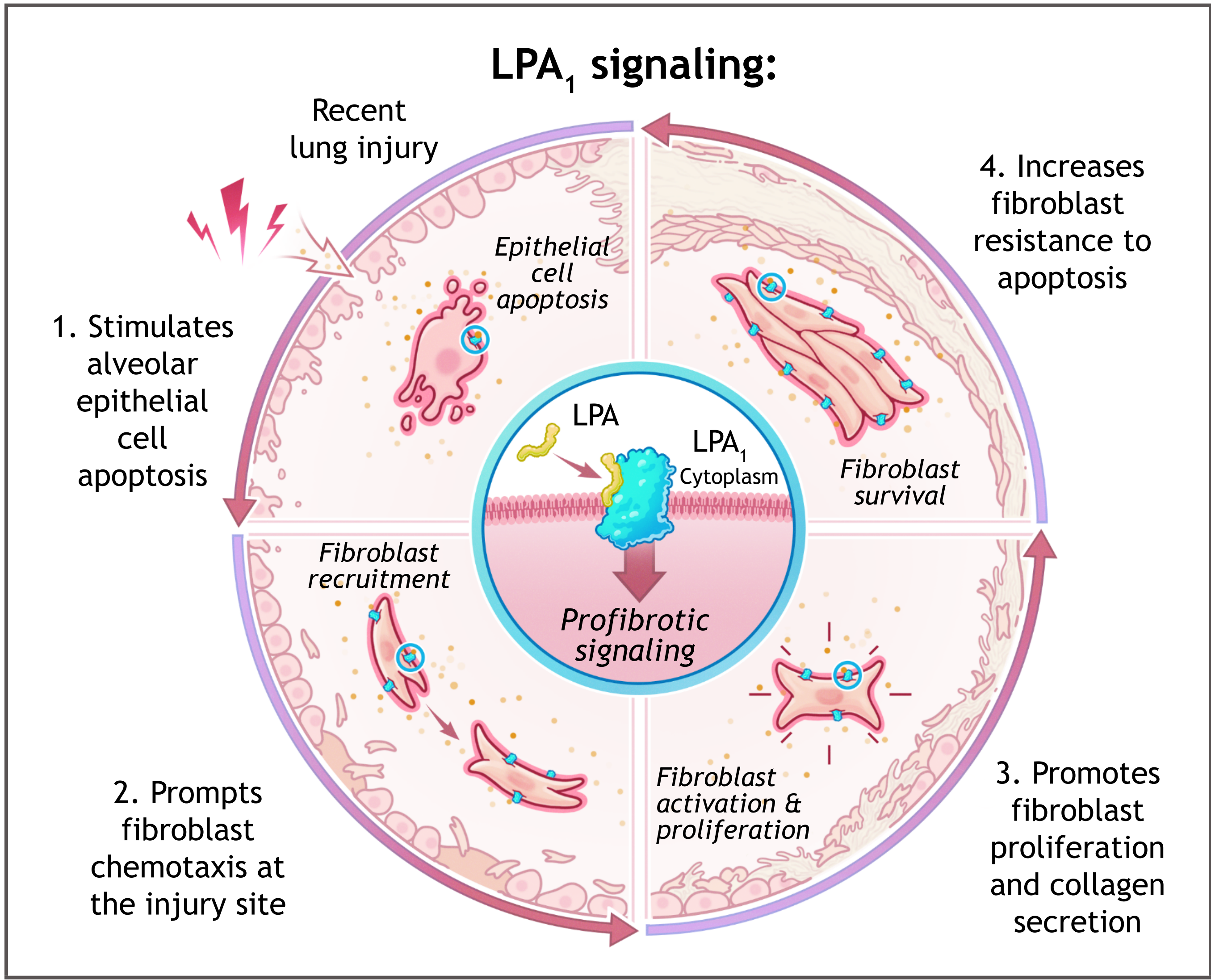
¹University of Massachusetts Chan Medical School/UMass Memorial Health System, Worcester, MA; ²Royal Prince Alfred Hospital, Camperdown, NSW, Australia; ³University of Sydney, Sydney, NSW, Australia; ⁴National French Reference Coordinating Center for Rare Pulmonary Diseases, Louis Pradel Hospital, Hospices Civils de Lyon, University Claude Bernard, Lyon, France; ⁵Bristol Myers Squibb, Princeton, NJ

*At the time study was conducted

Rationale

- Progressive pulmonary fibrosis (PPF) encompasses a group of interstitial lung diseases (ILDs) characterized by a progressive fibrotic phenotype, and is associated with declining lung function, worsening of symptoms, deterioration in quality of life, and early death¹⁻³
 - The antifibrotics pirfenidone and nintedanib, both approved for idiopathic pulmonary fibrosis (IPF) and the latter for PPF, slow the decline in lung function but are associated with adverse events, limiting treatment duration.^{2,4-7} There remains a high unmet need for effective and tolerable treatments for patients with PPF
- Lysophosphatidic acid receptor 1 (LPA₁) activation drives progression of lung fibrosis through epithelial cell apoptosis and fibroblast recruitment (Figure 1)^{8,9}
 - 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 PPF over 26 weeks⁴

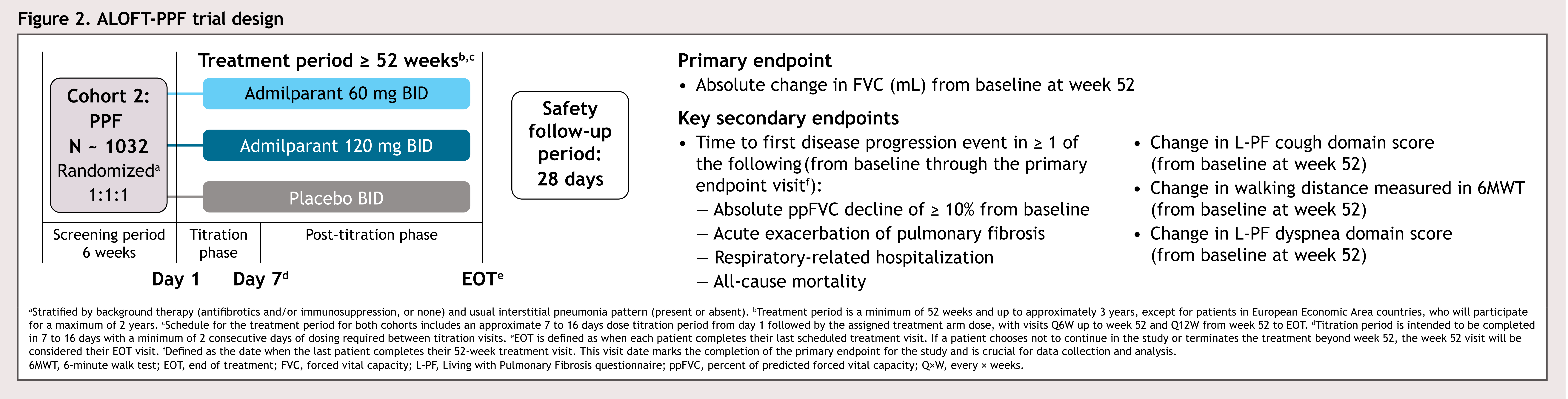
Figure 1. The role of LPA₁ signaling in the pathogenesis of pulmonary fibrosis



Aim

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

Methods



- ALOFT-PPF (NCT06025578) is a global, phase 3, multicenter, randomized, double-blind, placebo-controlled clinical trial currently randomizing adults with PPF to receive admilparant 60 or 120 mg or placebo (1:1:1) orally, BID for ≥ 52 weeks (Figure 2)
- The trial enrolls patients in > 500 sites across > 30 countries. Trial completion is estimated to be December 2027¹⁰
- ALOFT-PPF is a trial with a 2-cohort design
- Cohort 1 (N ~ 60) has a single-blind design to evaluate the short-term safety and tolerability of admilparant (not shown)
 - Cohort 1 primary endpoint: number of patients experiencing spontaneous syncopal episodes from day 7 to day 29 post-treatment (admilparant 120 mg BID vs placebo)
- 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. ≥ 21 years of age	
2. Diagnosis of ILD and $\geq 10\%$ parenchymal fibrosis supported by high-resolution computed tomography at screening, and features consistent with progressive ILD within 24 months before screening	
3. ppFVC $\geq 40\%$	
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}) $\geq 25\%$	
6. Stable-dose (≥ 90 days before screening) background antifibrotic treatment (nintedanib or pirfenidone) or immunosuppressive therapies (mycophenolate mofetil, mycophenolic acid, azathioprine, tacrolimus; traditional [eg, methotrexate, leflunomide, sulfasalazine, or hydroxychloroquine] and biologic [eg, tumor necrosis factor and interleukin-1 inhibitors] disease-modifying antirheumatic drugs; and Janus kinase inhibitors); if not currently on treatment, patients must not have received medication within 28 days before screening	
Main exclusion criteria	
1. Diagnosis of IPF confirmed by usual interstitial pneumonia pattern	
2. Emphysema $\geq 50\%$, or emphysema greater than the extent of fibrosis	
3. Acute exacerbation of pulmonary fibrosis within 4 weeks before or during screening	
4. Clinically significant non-parenchymal lung disease at screening or respiratory tract infection within 4 weeks before or during screening	
5. History of stroke or transient ischemic attack within 3 months before screening	
6. Symptoms of heart failure at rest	
7. History of lung reduction surgery or lung transplant	
8. Pulmonary arterial hypertension with multidrug therapy	
9. Cigarette smoking (including e-cigarettes) within 3 months before day 1	

- Conclusions**
- Admilparant (BMS-986278) is a potent, selective, second-generation, oral, small-molecule LPA₁ antagonist in development for the treatment of patients with PPF
 - The ALOFT-PPF 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 PPF

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