

Re-Spire: A Phase 3, Randomized, Double-Blinded, Placebo-Controlled Study to Evaluate the Safety and Efficacy of L606 (Treprostinil Liposome Inhalation Suspension) in Pulmonary Hypertension With Interstitial Lung Disease (PH-ILD) Participants

Poster #PS-37



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Introduction

- Pulmonary hypertension (PH) is a common and serious complication of interstitial lung disease (ILD) that is associated with reduced exercise capacity, impaired quality of life, and increased mortality and remains an area of substantial unmet therapeutic need despite recent advances¹
- L606 is an investigational extended-release formulation of treprostinil designed for twice-daily administration, with the potential to provide continuous 24-hour therapeutic coverage²

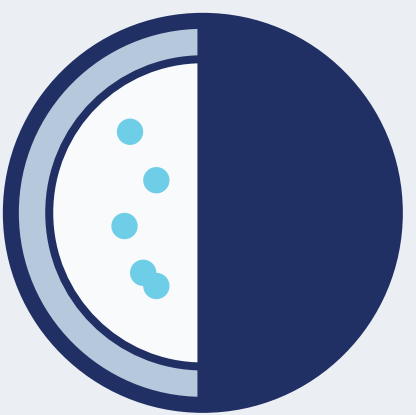


Re-Spire Objective

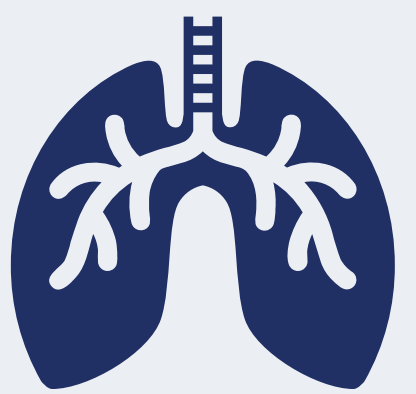
- To evaluate whether L606 improves exercise capacity compared with placebo in PH-ILD while maintaining acceptable safety and tolerability



Study Rationale/Why L606



Extended-release
treprostinil liposome
inhalation suspension



Pulmonary delivery
targets the site of disease



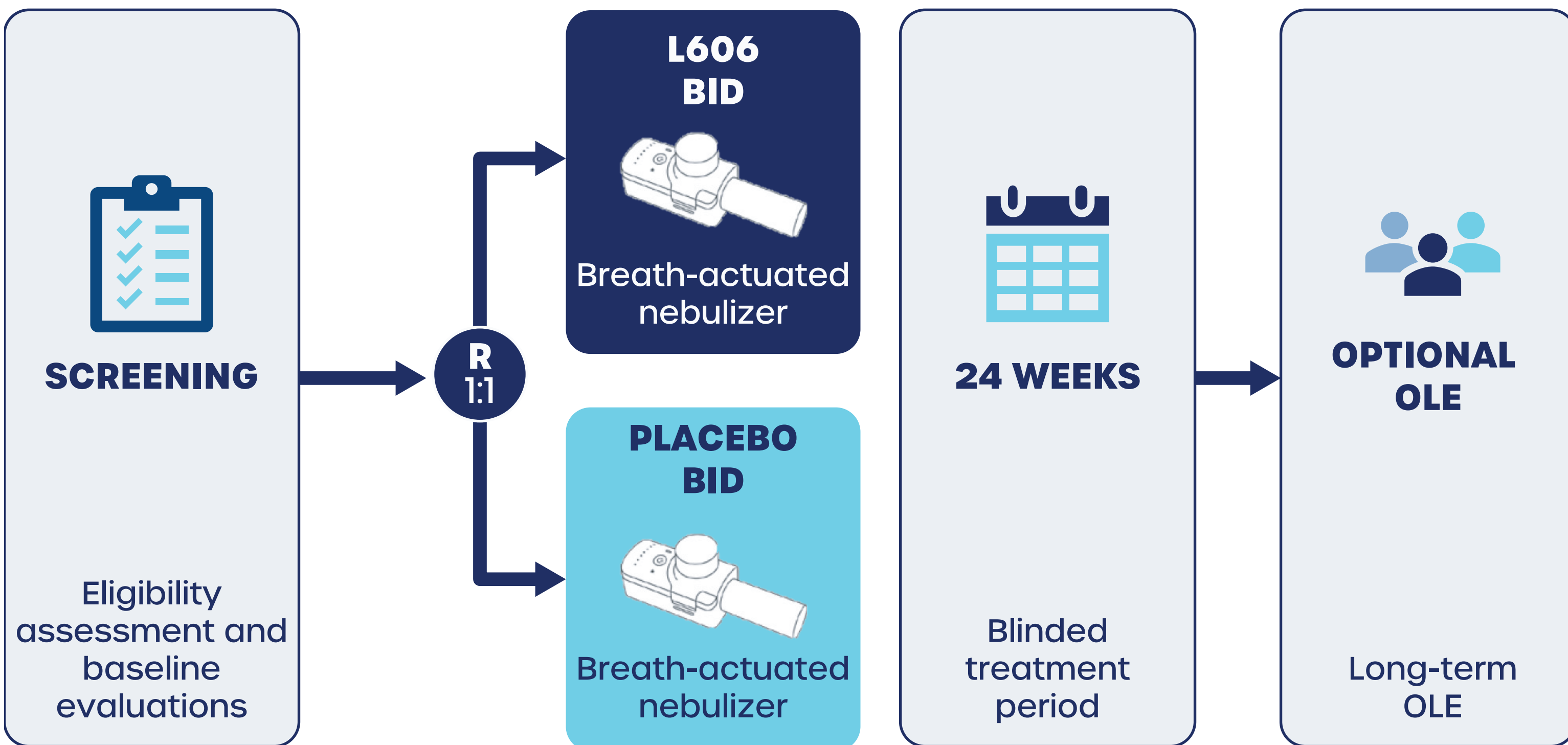
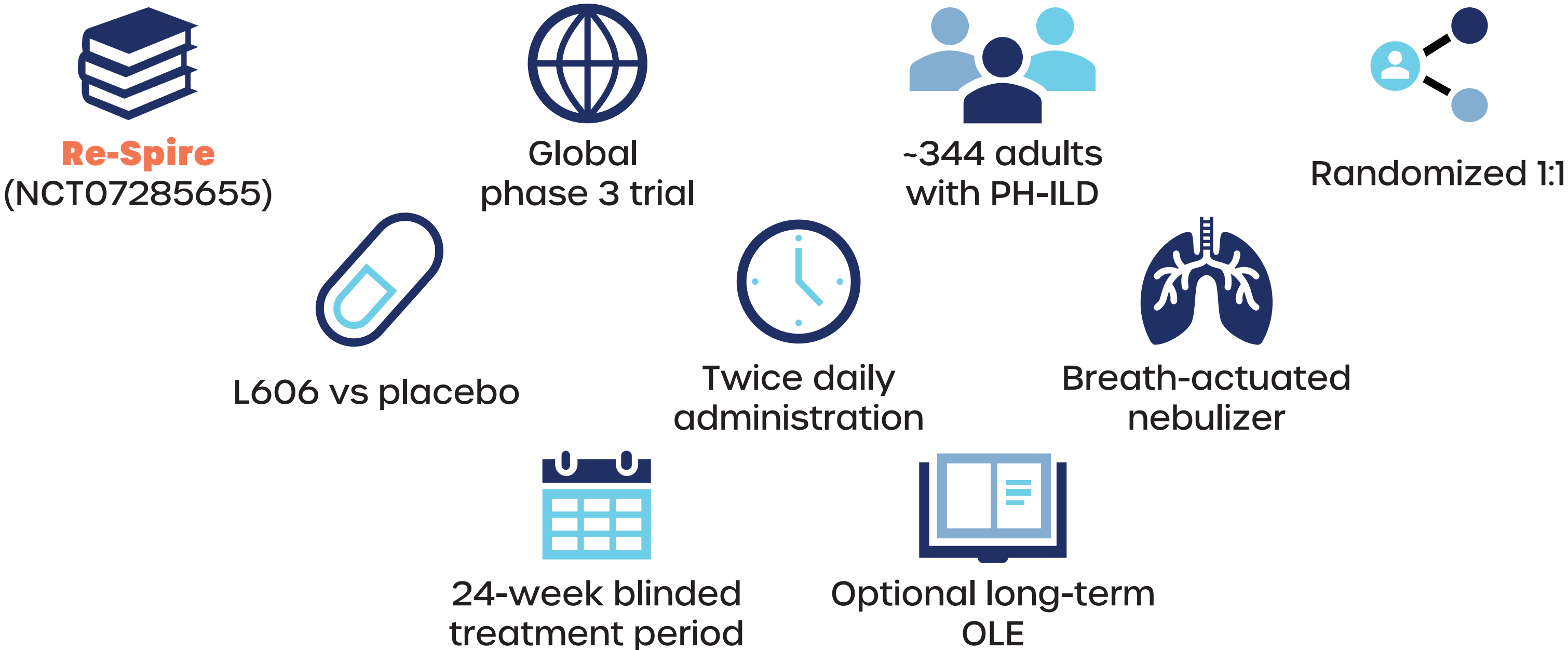
Twice-daily dosing
for convenience and consistency



Potential for continuous
24-hour therapeutic coverage



Re-Spire Methods



6MWD, 6-minute walk distance; BID, twice daily; CPFE, combined pulmonary fibrosis and emphysema; OLE, open-label extension; PH-ILD, pulmonary hypertension with interstitial lung disease; R, randomization.

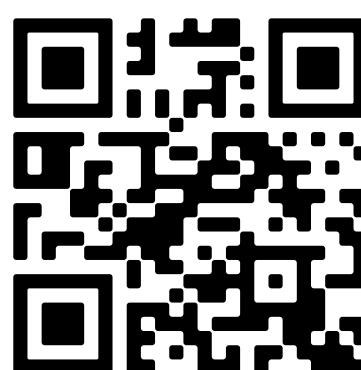


Key Takeaway

- Re-Spire is designed to determine whether twice-daily pulmonary delivery of treprostinil liposome inhalation suspension can lead to clinically meaningful improvements in functional capacity while maintaining an acceptable safety and tolerability profile

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Re-Spire Endpoints



PRIMARY ENDPOINT
Change from baseline to Week 16 in 6MWD measured at peak exposure



KEY SECONDARY ENDPOINTS

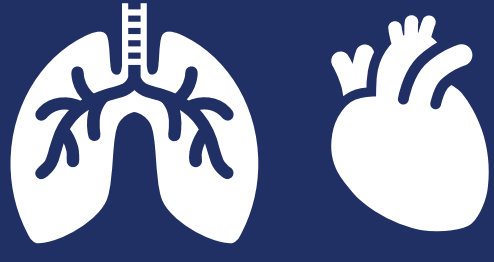
- Time to clinical worsening
- Change in peak 6MWD at Week 24
- Change in trough 6MWD at Week 16

OPTIONAL SUBSTUDY

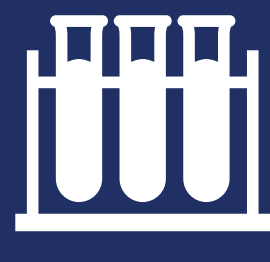


Haemodynamic outcomes

ADDITIONAL ENDPOINTS



Cardiopulmonary outcomes



Biomarkers



Patient-reported outcomes



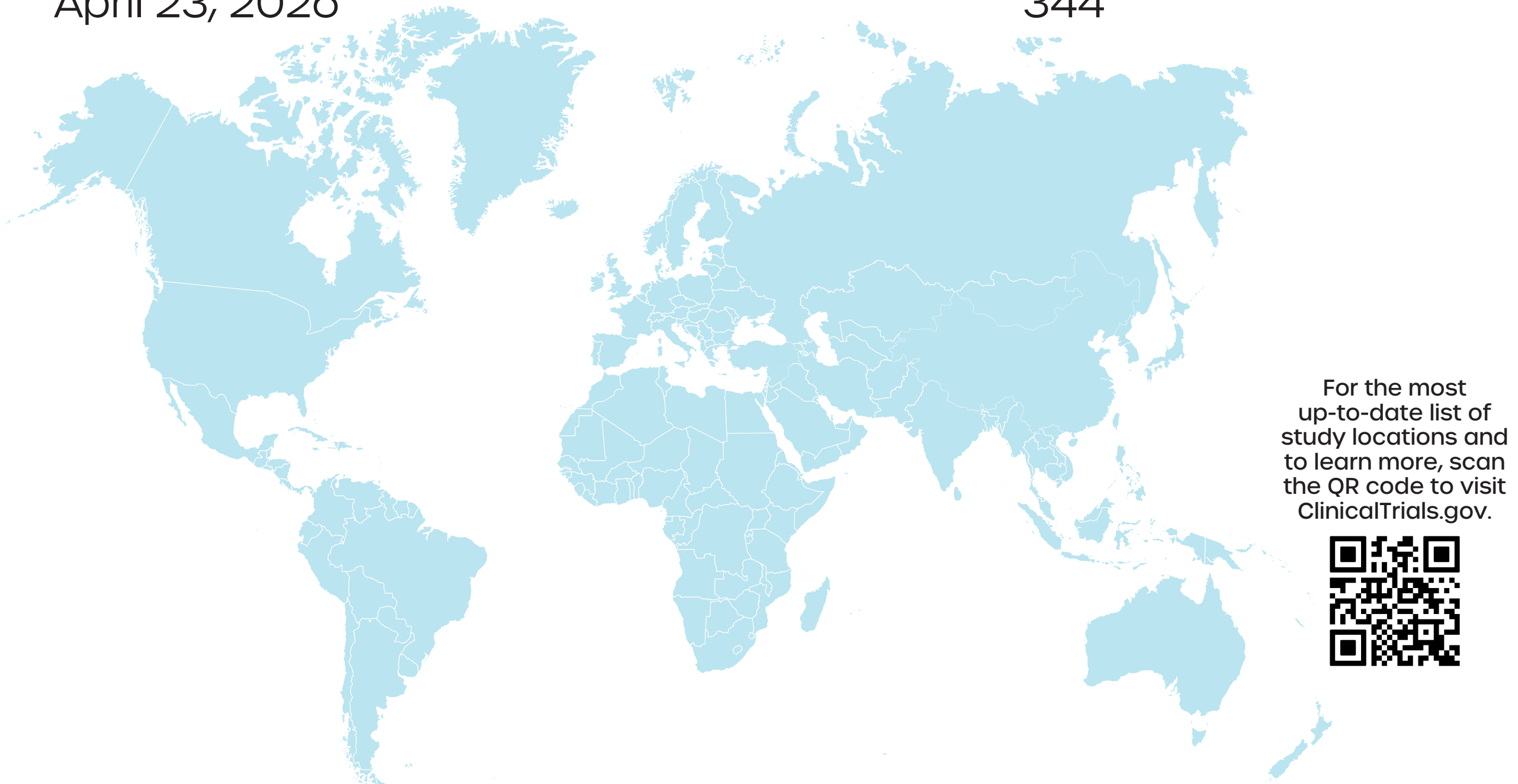
Safety assessments

6MWD, 6-minute walk distance.



Re-Spire Study Sites

- Study start date:** April 23, 2026
- Estimated enrollment:** 344



For the most up-to-date list of study locations and to learn more, scan the QR code to visit ClinicalTrials.gov.



CONCLUSION

- This pivotal study, which commenced in April 2026 and is actively recruiting, has the potential to establish a meaningful new treatment option for this vulnerable patient population, addressing a significant unmet medical need in PH-ILD

Author Disclosures

VC: Consulting fees from AbbVie, AstraZeneca, Avalyn, Boehringer Ingelheim, BMS/Celgene, CSL (Behring, Vifor), Ferrer/United Therapeutics, Gossamer, GSK, Liquidia, Pliant, PureTech, Roche, Roivant, Sanofi, and Shionogi; payment or honoraria for lectures, presentations, manuscript writing, or educational events from Boehringer Ingelheim, Ferrer/United Therapeutics, Roche, and Sanofi; support for attending meetings from Boehringer Ingelheim and Sanofi; participation on a data safety monitoring board or advisory board with GSK and Molecule; and a leadership role (on an adjudication committee) with Fibrogen.

SK, SP, RJ, and RS: Employees of Liquidia Technologies, Inc.

References

- Waxman AB, et al. *Eur Respir Rev.* 2022;31(165):210220.
- Habib N, et al. An Open-Label Safety Study of L606 (Liposomal Treprostinil) in Patients With PAH and PH-ILD. Presented at: American Thoracic Society International Conference, May 24, 2024; San Diego, USA.

