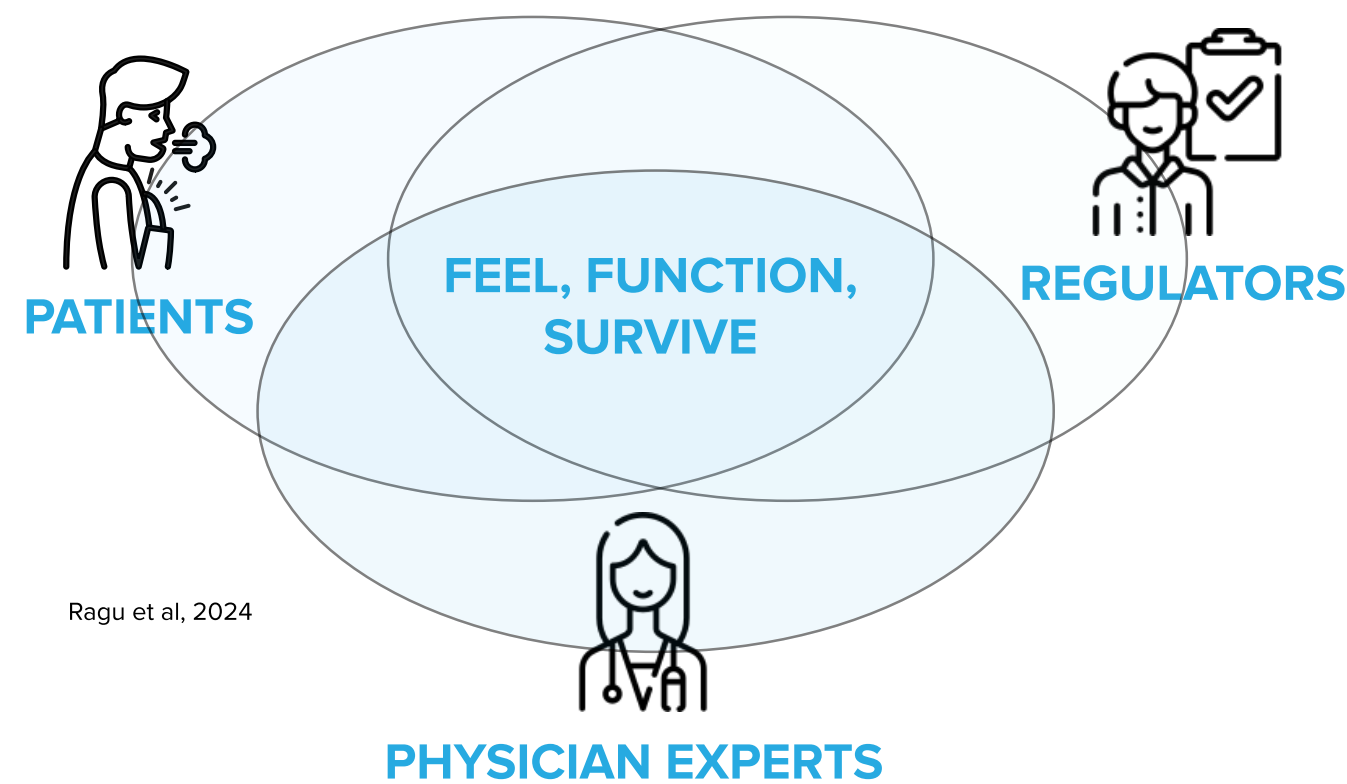


Cough as an Endpoint in Idiopathic Pulmonary Fibrosis (IPF)

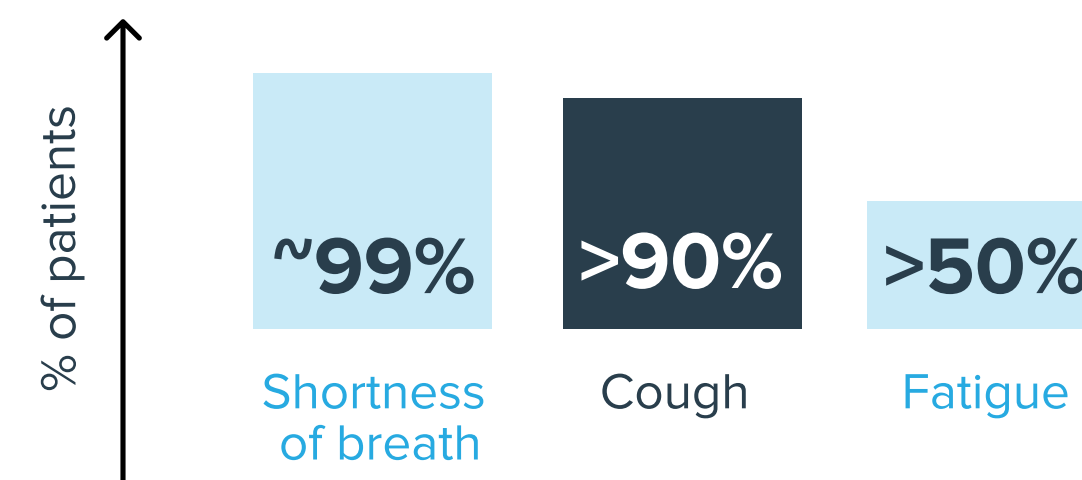


Cough is a highly prevalent and burdensome symptom for patients with IPF. As more emphasis in clinical trials continues to be placed on how patients feel, function and survive, cough has emerged as an important outcome measure, with objective monitoring allowing for more direct, reliable and consistent evidence.

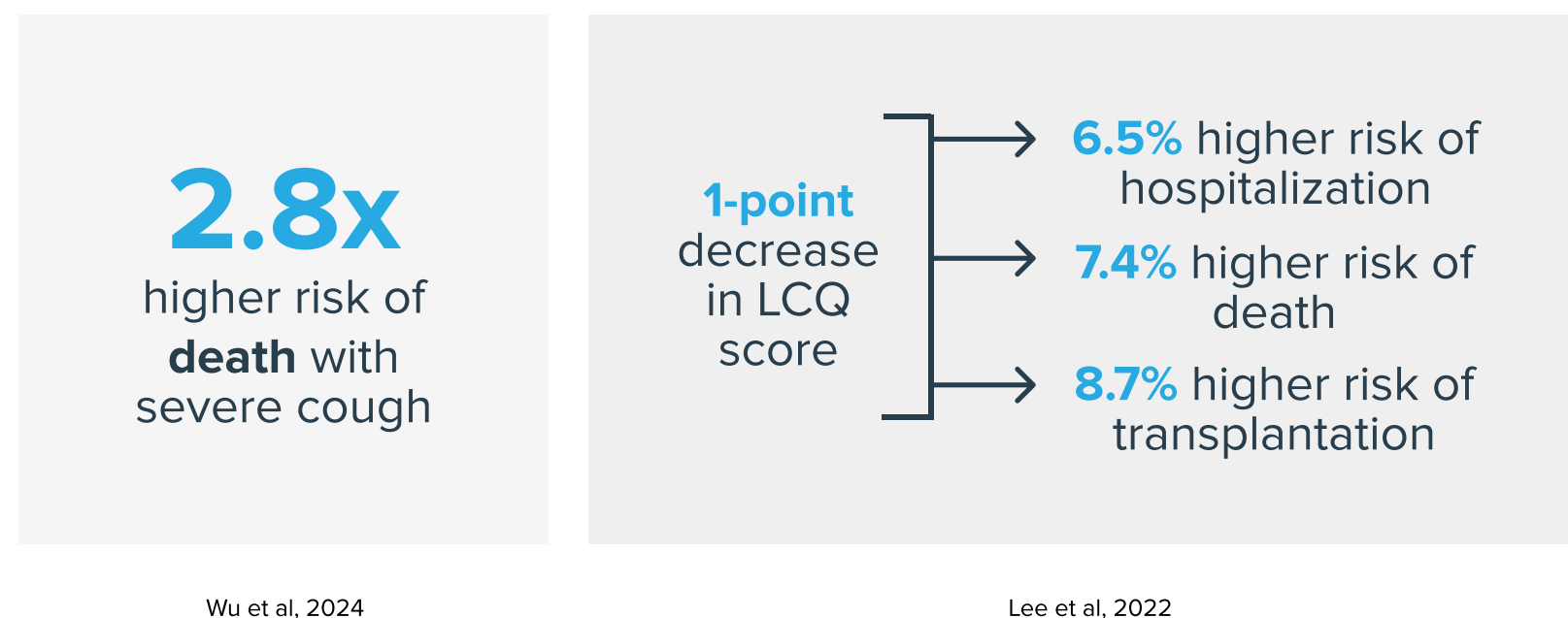
1 Expert consensus suggests IPF trial endpoints should focus on outcomes meaningful to patients



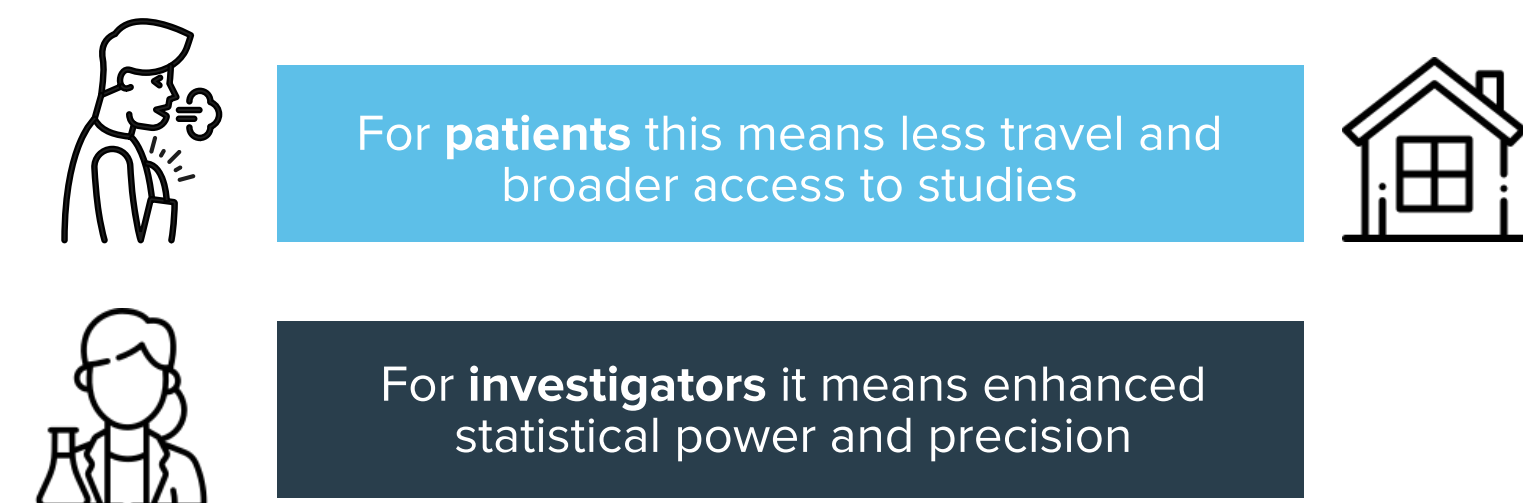
2 Cough is one of the top symptoms that matters most to IPF patients



3 Severe coughing worsens quality of life and may predict disease progression and survival



4 Cough can be unobtrusively and passively monitored at home, providing a more complete and objective data set



Cox, I. A., Borchers Arriagada, N., de Graaff, B., Corte, T. J., Glaspole, I., Lartey, S., Walters, E. H., & Palmer, A. J. (2020). Health-related quality of life of patients with idiopathic pulmonary fibrosis: a systematic review and meta-analysis. *European respiratory review : an official journal of the European Respiratory Society*, 29(158), 200154. <https://doi.org/10.1183/16000617.0154-2020>; U.S. Food and Drug Administration (FDA) (2015). *Voice of the patient - Idiopathic Fibrosis*. <https://www.fda.gov/files/about%20fda/published/The-Voice-of-the-Patient-Idiopathic-Pulmonary-Fibrosis.pdf>; Hirons, B., Rhatigan, K., Kesavan, H., Turner, R. D., Birring, S. S., & Cho, P. S. P. (2023). Cough in chronic lung disease: a state of the art review. *Journal of thoracic disease*, 15(10), 5823–5843. <https://doi.org/10.21037/jtd-22-1776>; Lee et al. (2022). Cough-Specific Quality of Life Predicts Disease Progression Among Patients With Interstitial Lung Disease: Data From the Pulmonary Fibrosis Foundation Patient Registry. *Chest*, 162(3), 603–613. <https://doi.org/10.1016/j.chest.2022.03.025>; Ragu et al. (2024). Meaningful Endpoints for Idiopathic Pulmonary Fibrosis (IPF) Clinical Trials: Emphasis on 'Feels, Functions, Survives'. *American journal of respiratory and critical care medicine*, 209. [10.1164/rccm.202312-2213SO](https://doi.org/10.1164/rccm.202312-2213SO); Wijsenbeek, et al. (2023). Home monitoring in interstitial lung diseases. *The Lancet. Respiratory medicine*, 11(1), 97–110. [https://doi.org/10.1016/S2213-2600\(22\)00228-4](https://doi.org/10.1016/S2213-2600(22)00228-4); Wu et al. (2024). Cough Severity Visual Analog Scale Assesses Cough Burden and Predicts Survival in Idiopathic Pulmonary Fibrosis. *American journal of respiratory and critical care medicine*, 209(9), 1165–1167. <https://doi.org/10.1164/rccm.202311-2169LE>