WHEN PULMONARY FIBROSIS IS SUSPECTED,

WHAT'S NEXT FOR DAVID?



MEDICAL HISTORY:

- 52-year-old Caucasian male¹⁻³
- Former smoker, 30 pack-years^{1,3}
- Presented with dyspnea and fatigue in hospital; consolidation found on chest X-ray³
- Treated for pneumonia with broad-spectrum antibiotics³
 - -Cultures consistently negative

INITIAL CLINICAL EVALUATION:

- Exertional dyspnea, mild fatigue³
- Dry inspiratory crackles at the lung bases³
- Reduced PFTs with restriction¹

69% FVC % predicted 48% DL_∞ % predicted

- Rheumatologic exam was negative³
- Rheumatoid factor and anticitrullinated C-peptide positive, slightly increased creatinine kinase and CRP levels³

Treated with steroids and an alkylating agent and showed some symptomatic improvement³

1-YEAR FOLLOW-UP:

- Respiratory symptoms have worsened³
- Underlying etiology unclear³
- Stable PFTs⁴

- Extensive fibrosis on HRCT³
 - Ground glass opacities, traction bronchiectasis, mosaic attenuation, and reticulation

After review of clinical, radiographic, and histologic findings by an MDT did not produce a conclusive diagnosis, ILD was considered unclassifiable³

CRP, C-reactive protein; DL_{co}, diffusing capacity of the lungs for carbon monoxide; FVC, forced vital capacity; HRCT, high-resolution computed tomography; ILD, interstitial lung disease; MDT, multidisciplinary team; PFTs, pulmonary function tests.

FVC is not declining, but symptoms and fibrosis are worsening, which are indicators of progressive disease.4

WHAT IS THE NEXT STEP IN DAVID'S DISEASE MANAGEMENT PLAN?

~1 IN 4 PATIENTS WITH ILD MAY DEVELOP A PROGRESSIVE PHENOTYPE5*

THE INSIDIOUS THREAT OF PULMONARY FIBROSIS CROSSES DIVERSE ILDs⁶⁻⁸

- Idiopathic pulmonary fibrosis (IPF)
- Systemic sclerosis-associated ILD
- Rheumatoid arthritis-associated ILD
- Other connective tissue disease-associated ILDs
- Hypersensitivity pneumonitis
- Occupational exposure-related ILDs

- Idiopathic nonspecific interstitial pneumonia
- Unclassifiable ILD
- Sarcoidosis

SIMILAR TO IPF, SOME ILDs CAN DEVELOP A PROGRESSIVE FIBROSING PHENOTYPE CHARACTERIZED BY7,8:



Worsening respiratory symptoms



Accelerated decline in lung function



Worsening quality of life



Early mortality

EARLY IDENTIFICATION OF ILD IS CRITICAL

Observe for respiratory symptoms9:

Listen for10,11:

Order baseline PFTs and monitor regularly9: Order HRCT if ILD is suspected9,12:



Cough



Dry inspiratory crackles, typically at the lung bases



Restrictive PFT



Presence of fibrotic ILD





EARLY IDENTIFICATION OF PROGRESSIVE PULMONARY FIBROSIS CAN HELP ENSURE PATIENTS RECEIVE APPROPRIATE INTERVENTION⁷

*Data from a global, online survey of physicians (N=486).5

References: 1. Ryerson CJ et al. Eur Respir J. 2013;42(3):750-757. 2. Hyldgaard C et al. Respirology. 2017;22(3):494-500. 3. Leung SC et al. Respirol Case Rep. 2015;3(3):85-88. 4. Skolnik K, Ryerson CJ. Respirology. 2016;21(1):51-56. 5. Wijsenbeek M et al. Curr Med Res Opin. 2019;35(11):2015-2024. 6. Demedts M et al. Eur Respir J. 2001;18(suppl 32):2s-16s. 7. Cottin V et al. Eur Respir Rev. 2018;27(150). doi:10.1183/16000617.0076-2018 8. Wells AU et al. Eur Respir J. 2018;51(5). doi:10.1183/13993003.00692-2018 9. Ryu JH et al. Mayo Clin Proc. 2007;82(8):976-986. 10. Silver KC, Silver RM. Rheum Dis Clin North Am. 2015;41(3):439-457. 11. Zibrak JD, Price D. NPJ Prim Care Respir Med. 2014;24:14054. 12. Walsh SLF et al. Eur Respir Rev. 2018;27(150):976-986.

