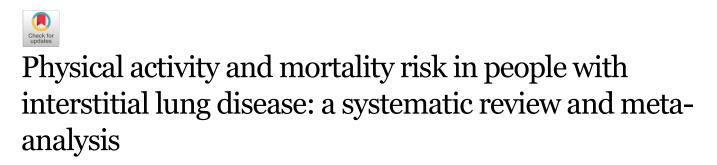




FLAGSHIP SCIENTIFIC JOURNAL OF ERS



Vânia Patrícia Martins Rocha, Cátia Paixão, Alda Marques European Respiratory Journal 2021 58: PA1810; **DOI:** 10.1183/13993003.congress-2021.PA1810

Article

Figures & Data

Info & Metrics

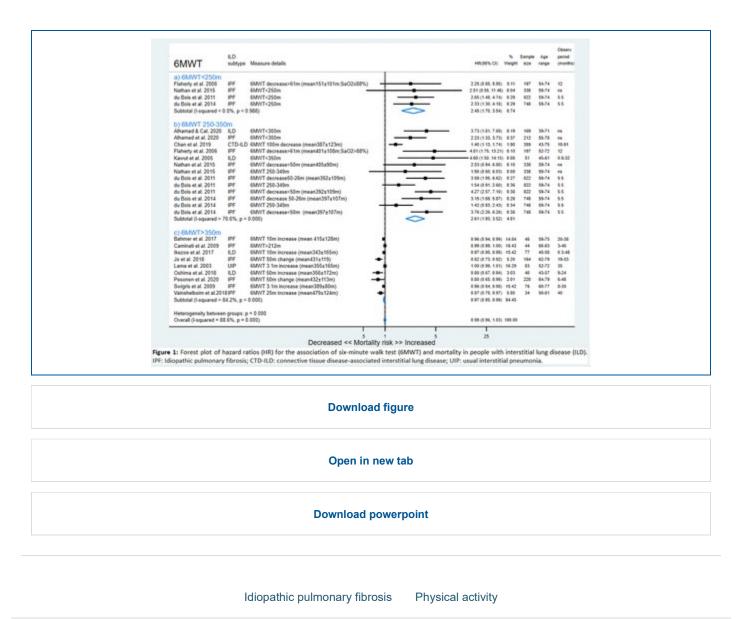
#### Abstract

**Introduction:** Physical activity (PA) might be a protective factor for mortality in people with interstitial lung disease (ILD), but evidence is widespread in the literature. This study summarises evidence on the association of PA measures and mortality in people with ILD.

**Methods:** PubMed, Scopus, Web of Science and EBSCO databases were searched. Two authors independently selected studies for inclusion, extracted data and assessed risk of bias. A meta-analysis for each PA measure was conducted using inverse variance-weighted averages of logarithmic hazard ratios (HR) in random-effects models.

**Results:** 48 studies were included with data from 8874 people with ILD [mean age:64±9years; 67%men; 83%IPF; mean DLCO:48.2±15.5%predicted]. Studies' follow-up period ranged from 23days-15.5years. The 3-most reported PA measures associated with mortality risk were six-minute walk test (6MWT) (n=39), oxygen uptake, peak or maximal (n=9) and workload in watts (W) (n=5). 23 studies were included in the meta-analyses. People walking less than 350-meters in 6MWT had more than twofold risk of premature mortality (Figure 1); and those showing an increase of 10% of predicted or between 10-20W in workload showed a 12% lower risk of mortality.

**Conclusion:** PA measures predict risk of mortality in people with ILD and may be useful to guide clinical decision-making.



#### Footnotes

Cite this article as: European Respiratory Journal 2021; 58: Suppl. 65, PA1810.

This abstract was presented at the 2021 ERS International Congress, in session "Prediction of exacerbations in patients with COPD".

This is an ERS International Congress abstract. No full-text version is available. Further material to accompany this abstract may be available at www.ers-education.org (ERS member access only).

Copyright ©the authors 2021

#### We recommend

Prognostic value of 6-Min Walk Test (6MWT) in Patients with non-Idiopathic Pulmonary Fibrosis Progressive Fibrosing Interstitial Lung Disease (PF-ILD)

Gregoire Jeanniard et al., European Respiratory Journal

Reliability and validity of the Chester Step Test in people with Interstitial Lung Disease Ana Alves et al., European Respiratory Journal

Patients with COPD have more self-efficacy for physical activity than other patients with chronic lung diseases

Sofie Breuls et al., European Respiratory Journal

Correlation of the Distance Saturation Product with spirometric and Diffusion Capacity for Carbon Monoxide data in patients with Interstitial Lung disease

Khouloud Kchaou et al., European Respiratory Journal

Normoxemic patients at rest with Interstitial Lung Disease and desaturation in the 6MWT David Jorge Araújo Barros Coelho et al., European

Respiratory Journal, 2019

Anti-melanoma differentiation-associated gene 5 (MDA-5) linked Interstitial Lung Disease: A poor prognostic factor Purdon et al., Journal of Precision Respiratory

Medicine, 2018

Association of serum tumor markers with interstitial lung disease in patients with or without connective tissue disease: A cross-sectional study Fei Xu et al., World Scientific Book, 2018

Cyclophosphamide Versus Obinutuzumab for the Treatment of Anti-MDA5 Positive Inflammatory Myopathy with Interstitial Lung Disease: A Study Protocol and Literature Review Ho So et al., World Scientific Book, 2019

Association of Preexisting Interstitial Lung Abnormalities With Immune Checkpoint Inhibitor– Induced Interstitial Lung Disease Among Patients With Nonlung Cancers

Kiyofumi Shimoji et al., JAMA Network Open, 2020

Home Oxygen Therapy for Adults With Chronic Obstructive Pulmonary Disease or Interstitial Lung Disease

Hannah C. Wenger et al., Journal of American Medical Association

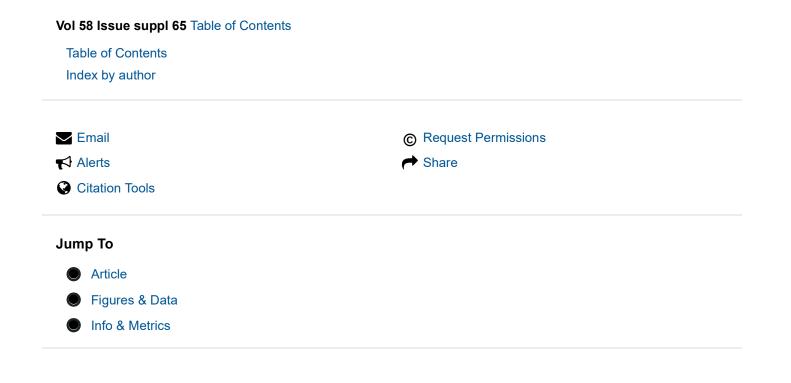
# Powered by TREND MD

I consent to the use of Google Analytics and related cookies across the TrendMD network (widget, website, blog). Learn more



G Previous

▲ Back to top



Physical activity and mortality risk in people with interstitial lung disease...



## Navigate

Home

Physical activity and mortality risk in people with interstitial lung disease...

Current issue Archive

## About the ERJ

Journal information Editorial board Reviewers CME Press Permissions and reprints Advertising

## The European Respiratory Society

Society home myERS Privacy policy Accessibility

## **ERS** publications

European Respiratory Journal ERJ Open Research European Respiratory Review Breathe ERS books online ERS Bookshop

#### Help

Feedback

#### For authors

Instructions for authors Publication ethics and malpractice Submit a manuscript

#### For readers

Alerts Subjects Podcasts RSS Physical activity and mortality risk in people with interstitial lung disease...

## Subscriptions

Accessing the ERS publications



## Contact us

European Respiratory Society 442 Glossop Road Sheffield S10 2PX United Kingdom Tel: +44 114 2672860 Email: journals@ersnet.org

#### ISSN

Print ISSN: 0903-1936 Online ISSN: 1399-3003

Copyright © 2022 by the European Respiratory Society