



# EUROPEAN RESPIRATORY *journal*

FLAGSHIP SCIENTIFIC JOURNAL OF ERS



## A Core Outcome Set for Pulmonary Rehabilitation of patients with COPD: a modified Delphi survey

Sara Souto-Miranda, Isabel Saraiva, Martijn A. Spruit, Alda Marques

European Respiratory Journal 2023 62: PA1042; DOI: 10.1183/13993003.congress-2023.PA1042

Article

Figures & Data

Info & Metrics

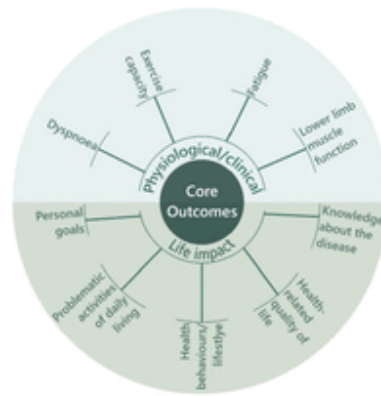
### Abstract

There is high heterogeneity of outcomes and measures reported in pulmonary rehabilitation (PR) trials of people with COPD, which hinders study comparability and benchmarking of PR. We developed a core outcome set (COS) in an attempt to overcome these challenges.

This study was informed by a systematic review and 2 qualitative studies. Outcomes (n=63) were scored in a 2-round modified Delphi survey responded by 2 groups - G1: people with COPD and informal carers and G2: healthcare professionals, researchers, and policy makers. A 9-point Likert scale was used. Outcomes scored 7-9 (crucial) by  $\geq 70\%$  and 1-3 (not that important) by  $\leq 15\%$  of participants from both groups were included in the COS, whilst outcomes that were considered crucial only by one group were further voted in a consensus meeting.

299 people (G1: n=229; G2: n=70) participated in the survey (83% retention), which covered 29 countries/5 continents. After the second round, 6 outcomes were included and 3 were added in the consensus meeting. The final COS contains dyspnoea, exercise capacity, fatigue, health-related quality of life, health behaviours/lifestyle, knowledge about the disease, lower limb muscle function, personal goals, and problematic activities of daily living (**Fig.1**).

This COS can now be used by different stakeholders. Future research should establish the core measures and investigate the uptake of this COS.



**Figure 1.** Core outcomes included in the core outcome set (COS) using the domains (physiological/clinical outcomes, life impact outcomes) of the Core Outcome Measures in Effectiveness Trials (COMET) initiative's taxonomy.

[Download figure](#)

[Open in new tab](#)

[Download powerpoint](#)

[Treatments](#)   [COPD](#)   [Health policy](#)

## Footnotes

Cite this article as: European Respiratory Journal 2023; 62: Suppl. 67, PA1042.

This abstract was presented at the 2023 ERS International Congress, in session “Inflammatory endotyping: the macrophage across disease areas”.

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](http://www.ers-education.org) (ERS member access only).

Copyright ©the authors 2023

## We recommend

International perspectives on outcome measurement in pulmonary rehabilitation of COPD

S Souto-Miranda et al., European Respiratory Journal, 2022

Long-term effectiveness of home-based pulmonary rehabilitation in elderly people with severe COPD and

Common and Variant Peak Ratios in IR Fingerprint of *Cacumen Platycladi* with Dual-Index Sequence Analysis

SHAN, Ming-qiu et al., Spectroscopy and Spectral Analysis, 2009

The Study of Cervical Cancer Cells Model Based on UV Absorption Spectrum

chronic respiratory failure

Sarah Géphine et al., European Respiratory Journal

Building healthcare professionals consensus on non-pharmacological patient care priorities during hospitalisation and post-discharge phases following acute exacerbation of chronic obstructive pulmonary disease (AECOPD)

Bedor Alkhathlan et al., European Respiratory Journal, 2023

Survey of Australian pulmonary rehabilitation health professionals: is exercise prescribed in line with clinical guidance?

Hayley Lewthwaite et al., European Respiratory Journal, 2023

Impact of a home-based rehabilitation program on functional respiratory parameters and quality of life in COPD patients

Nidhal Belloumi et al., European Respiratory Journal

LIN, Xiao-gang et al., Spectroscopy and Spectral Analysis, 2009

Chinese expert consensus on the Management of Pediatric Deep Partial-Thickness Burn Wounds (2023 edition)

Yan Liu et al., Burns & Trauma, 2023

The High Water Mark of Islamist Politics? The Case of Yemen

Longley, April et al., The Middle East Journal, 2007

Origin of Dispersed Organic Matter within Sandstones and Its Implication for Uranium Mineralization: A Case Study from Dongsheng Uranium Ore Filed in China

Fan Zhang et al., Journal of Earth Science, 2022

Powered by **TREND MD**

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

Yes

No

[← Previous](#)

[^ Back to top](#)

**Vol 62 Issue suppl 67** [Table of Contents](#)

[Table of Contents](#)

[Index by author](#)

[✉ Email](#)

[🌐 Citation Tools](#)

[© Request Permissions](#)

[↪ Share](#)

## Jump To

[Article](#)

[Figures & Data](#)

[Info & Metrics](#)