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# Minimal clinically important difference for measures of fatigue, cough and sputum

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Article

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#### **Abstract**

Fatigue, cough and sputum are highly prevalent in patients with chronic obstructive pulmonary disease(COPD). Pulmonary rehabilitation(PR) has shown to be effective in managing these symptoms. However, the interpretation of the magnitude of PR effects is hindered by the lack of cut-off points to identify clinical improvement.

This study established minimal clinically important differences(MCIDs) for the checklist of individual strength – fatigue subscale(CIS-20 FS), functional assessment of cancer therapy – fatigue(FACIT-F), Leicester cough questionnaire(LCQ) and cough and sputum assessment questionnaire(CASA-Q), in patients with COPD following PR.

All measures were assessed pre/post 12 weeks of PR. MCIDs were calculated using anchor- and distribution-based methods. Global rating of change, COPD assessment test and St. George's respiratory questionnaire were used as anchors. Pooled values were obtained using Meta XL with a quality effects model weighting 2/3 for anchor and 1/3 for distribution-based methods.

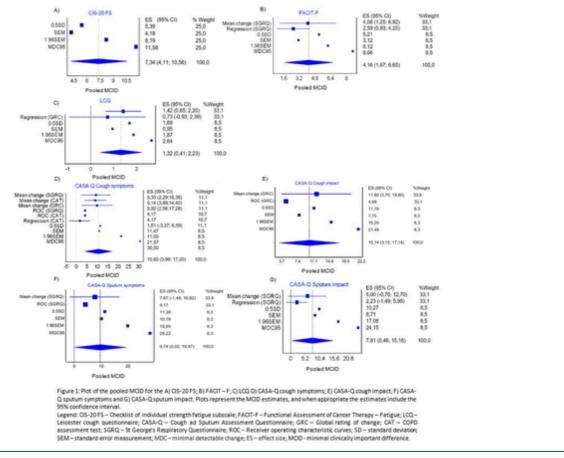
49 patients with COPD (81.6% male, 69.8±7.4 yrs, FEV1 49.4±19.2% predicted) were included. The pooled MCIDs were: 7.3 for the CIS-20 FS, 4.2 for the FACIT-F, 1.3 for the LCQ, 10 for CASA-Q cough symptoms/ impact and sputum symptoms domains and 7.8 for sputum impact(Fig.1).

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Measurement properties

COPD - management

Physiotherapy care

## **Footnotes**

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