

primary studies - published RCT

# "You're on mute!" Does pediatric CF home spirometry require physiologist supervision?

Code: PM34581507 Year: 2022 Date: Author: Fettes E

Study design (if review, criteria of inclusion for studies)

Randomized controlled trial

## **Participants**

Sixty-one children with CF

#### Interventions

Children were randomly allocated to either supervised or unsupervised home spirometry following a detailed training session. Home spirometry was performed every 2 weeks for 12 weeks.

#### **Outcome measures**

Tests were assigned a quality factor (QF) using our laboratory grading system as per American Thoracic Society/European Respiratory Society standards, with tests marked from A to D, or Fail. In our laboratory, we aim for QF A in all spirometry tests, but report results of QF B or C with a cautionary note. QF A was, therefore, the primary outcome, and QF A-C, the secondary outcome.

## Main results

Sixty-one patients were enrolled; 166 measurements were obtained in the supervised group, and 153 in the unsupervised group. Significantly more measurements achieved QF A in the supervised compared to unsupervised group (89% vs. 74%; p = 

### **Authors' conclusions**

These results suggest that home spirometry in children should ideally be remotely supervised by a physiologist, but acceptable results can be obtained if resources do not allow this, provided that training is delivered and results monitored according to our protocol.

http://dx.doi.org/10.1002/ppul.25708

#### See also

Pediatr Pulmonol. 2022 Jan;57(1):278-284. doi: 10.1002/ppul.25708. Epub 2021 Oct 1.

## Keywords

Adolescent; Adult; Child; training; non pharmacological intervention - psyco-soc-edu-org;