

April 2020

# Interventions to improve engagement with self-management and education for people with Idiopathic Pulmonary Fibrosis

## **Cochrane Airways Scoping Search Report**

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## Introduction to the scoping search report

This scoping search report describes the methods and results of scoping activities undertaken by Cochrane Airways on interventions to improve engagement with self-management and education for people with idiopathic pulmonary fibrosis (IPF). This topic was identified as priority by the Cochrane Airways Priority Setting Group as part of the Cochrane Airways ‘whole of scope’ priority setting exercise conducted in 2019/2020.

This scoping search report does not attempt to appraise or synthesise the included studies. It provides a summary of the existing evidence on this topic.

## Purpose

The purpose of this scoping search report is:

- to assess what evidence exists for this topic
- to inform the development of future Cochrane Review titles
- to provide a transparent record of scoping work undertaken by Cochrane Airways

## Study inclusion criteria

Population: people with idiopathic pulmonary fibrosis (IPF) and other interstitial lung diseases (ILD)

Intervention: any self-management intervention

Comparator: any

Outcomes: any

Study design: Systematic reviews, randomised controlled trials (RCTs), quasi-RCTs

## Literature search

A limited literature search was conducted in CENTRAL, MEDLINE and [Epistemonikos](#) to identify relevant systematic reviews, randomised and quasi-randomised trials. The search strategies can be found in the [appendix](#). Searches were conducted on 22<sup>nd</sup> April 2020.

## Assessment of search results

The search retrieved a total of 172 references. After deduplication, 158 references remained. These were imported into Rayyan for title and abstract screening. One member of the Cochrane Airways team (LS) screened the titles and abstracts and checked full-text if necessary to identify relevant study reports.

## Included studies

The search did not identify any relevant systematic reviews, randomised or quasi-randomised controlled trials.

Four related studies were identified: a feasibility study of daily home spirometry for people with ILD, a descriptive study of dyspnea self-management in chronic lung diseases, a feasibility study of home monitoring in IPF, and a single-group patient education intervention for children with ILD and their caregivers. The references for these studies are listed in the [References](#) section.

## References

### *Systematic reviews*

None found

### *Randomised & quasi-randomised controlled trials*

None found

### *Other*

Johansson KA, Vittinghoff E, Morisset J, Lee JS, Balmes JR, Collard HR. Home monitoring improves endpoint efficiency in idiopathic pulmonary fibrosis *European respiratory journal* **2017**: 50 ( 1)

Nield M. Dyspnea self-management in African Americans with chronic lung disease *Heart & lung* **2000**: 29 ( 1) ; 50-55

Niemitz M, Schrader M, Carlens J, Hengst M, Eismann C, Goldbeck L, Griese M, Schwerk N. Patient education for children with interstitial lung diseases and their caregivers: a pilot study *Patient education and counseling* **2019**: 102 ( 6) ; 1131-1139

Russell A-M, Adamali H, Molyneaux PL, Lukey PT, Marshall RP, Renzoni EA, Wells AU, Maher TM. Daily home spirometry: an effective tool for detecting progression in idiopathic pulmonary fibrosis *American journal of respiratory and critical care medicine* **2016**: 194 ( 8) ; 989-997

## Appendix: Database search strategies

Ovid MEDLINE(R) ALL <1946 to April 21, 2020>

Search history sorted by search number ascending

#	Searches	Results
1	exp Lung Diseases, Interstitial/	55316
2	((interstitial* or diffuse* or parenchymal*) adj3 (lung* or disease* or pneumon*)).ti,ab.	31793
3	((pulmonary* or lung* or alveoli*) adj3 (fibros* or fibrot*)).ti,ab.	25980
4	(ILD or IPF).ti,ab.	9291
5	or/1-4	99087
6	Self-Management/	1979
7	Self Care/	32719
8	(self-manag\$ or self manag\$).ti,ab.	19099
9	(self-car\$ or self car\$).ti,ab.	17438
10	Patient Education as Topic/	84497
11	Education/	20699
12	educat\$.ti,ab.	574630
13	or/6-12	676908
14	5 and 13	366
15	(controlled clinical trial or randomized controlled trial).pt.	593027
16	(randomized or randomised).ab,ti.	614864
17	placebo.ab,ti.	212691
18	dt.fs.	2196823
19	randomly.ab,ti.	332417
20	trial.ab,ti.	587098
21	groups.ab,ti.	2062240
22	or/15-21	4759695
23	Animals/	6591448

24	Humans/	18420611
25	23 not (23 and 24)	4658904
26	22 not 25	4132752
27	14 and 26	99

#### CENTRAL via Cochrane Register of Studies

#1	MESH DESCRIPTOR Lung Diseases, Interstitial EXPLODE ALL AND CENTRAL:TARGET	750
#2	(interstitial* or diffuse* or parenchymal*) near3 (lung* or disease* or pneumon*):ti,ab AND CENTRAL:TARGET	2416
#3	((pulmonary* or lung* or alveoli*) near3 (fibros* or fibrot*)):ti,ab AND CENTRAL:TARGET	1973
#4	ILD or IPF:ti,ab AND CENTRAL:TARGET	1358
#5	#1 OR #2 OR #3 OR #4 AND CENTRAL:TARGET	4283
#6	MESH DESCRIPTOR Self-Management EXPLODE ALL AND CENTRAL:TARGET	323
#7	MESH DESCRIPTOR Self Care EXPLODE ALL AND CENTRAL:TARGET	5568
#8	(self-manag* or "self manag*"):ti,ab AND CENTRAL:TARGET	7329
#9	(self-car* or "self car*"):ti,ab AND CENTRAL:TARGET	4560
#10	MESH DESCRIPTOR Patient Education as Topic EXPLODE ALL AND CENTRAL:TARGET	8763
#11	MESH DESCRIPTOR Education AND CENTRAL:TARGET	754
#12	educat*:ti,ab AND CENTRAL:TARGET	57503
#13	#6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12	71061
#14	#13 AND #5	70

#### Epistemonikos

((title:(self-management OR education) OR abstract:(self-management OR education)) AND (title:(IPF OR ILD OR interstitial lung disease OR pulmonary fibrosis) OR abstract:(IPF OR ILD OR interstitial lung disease OR pulmonary fibrosis)))