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Interventions for COPD: evidence maps

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 maps/overviews of interventions for COPD. This topic was identified as priority by the Cochrane Airways Priority Setting Group (CAPSG) 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: COPD

Intervention: any intervention

Comparator:

Outcomes:

Study design: Evidence maps, overviews of reviews, scoping reviews.

Literature search

A limited literature search was conducted to identify relevant evidence maps, scoping reviews and overviews of reviews. A search limited to the last 10 years was conducted in PubMed. The search strategy can be found in the [appendix](#). Searches were conducted on 8 July 2020.

Assessment of search results

The search retrieved 497 references. One member of the Cochrane Airways team (LS) screened the titles and abstracts in Rayyan, and checked full-text if necessary.

Included studies

The search identified 1 related evidence map, 4 overviews of reviews, and 11 scoping reviews. These are summarised in **Tables 1, 2 and 3**. The primary reference for each type of review is listed in the [References](#) section.

Table 1: Summary of evidence maps

Study ID	Review type	Registration	Population	Intervention/theme	Outcome(s)/output	No. included studies
Dobler 2019	Evidence map	CRD42018095079	Stable COPD	Treatment	Matrix of available treatments	Protocol

Table 2: Summary of overviews of reviews

Study ID	Review type	Registration	Population	Intervention/theme	Outcome(s)/output	No. included studies
Araujo 2019	Overview of Cochrane reviews	CRD42019111564	COPD	Pulmonary rehabilitation	"Overview of Reviews" table	Protocol
Li 2020	Overview of systematic reviews	-	COPD	Telemonitoring	Mortality, quality of life, exercise capacity, and exacerbation-related outcomes	8 reviews (95 RCTs)
Lisy 2014	Overview of reviews	-	COPD	Mechanical interventions	Data of the effectiveness of each intervention were extracted and summarized in tables and discussed as a narrative summary	5 reviews
Murphy 2017	Overview of reviews	-	COPD	Self-management	Clinical-effectiveness, classification of intervention	16

Table 3: Summary of Scoping reviews

Study ID	Review type	Registration	Population	Intervention/theme	Outcome(s)/output	No. included studies
Barton 2015	Scoping review	-	COPD	Social support/social networks	associations between social support, networks and health outcomes	31
Hallensleben 2019	Scoping review	-	COPD	eHealth applications	overview of all eHealth applications used in Dutch COPD care	41 programs, website & applications
King 2018	Scoping review	-	COPD	Patient Education Provided by Physiotherapists	Content, processes, and overall effectiveness	14
MacDonell 2020	Scoping review	-	AECOPD	Interventions at presentation and discharge to reduce unnecessary admissions and readmissions	Identify current interventions and improvement approaches. Recommendations for future improvement interventions.	Protocol
Meehan 2020	Scoping review	-	COPD	Advance Care Planning	Summarize the available literature on current practices	28
Milner 2018	Scoping review	-	COPD	Referral to pulmonary rehabilitation	Rate of referral, barriers and enablers	42
Moloney 2019	Scoping review	-	AECOPD presenting at the ED	Holistic management and assessment, and referral practices	causal factors associated with COPD ED presentations, connection with appropriate healthcare professional assessment within ED presentations and	Protocol

					reported referral pathways	
Mostafavi-Pour-Manshadi 2018	Scoping review	-	Asthma-COPD overlap syndrome	Fractional Exhaled Nitric Oxide monitoring	role of FENO measurement to differentiate COPD from ACO, to anticipate disease severity/progression and treatment response	38
Pedersen 2017	Scoping review	-	COPD	Non-invasive interventions to improve oral hygiene	relief and/or reduction of respiratory tract infections, exacerbation and/or hospital readmission in patients	Protocol
Polastri 2019	Scoping review	-	COPD	Manual massage therapy	Clinical outcomes	7
Trethewey 2019	Scoping review	-	COPD	Interventions to increase the rate of influenza and pneumococcal vaccination	narrative synthesis	6

References

Evidence maps

Dobler CC, Farah MH, Morrow AS, Alsawas M, Benkhadra R, Hasan B, Prokop LJ, Wang Z, Murad MH. Treatment of stable chronic obstructive pulmonary disease: protocol for a systematic review and evidence map *Bmj open* **2019**; 9 (5) ; e027935

Overviews of reviews

Araujo ZTS, Mendonca KMPP, Souza BMM, Santos TZM, Chaves GSS, Andriolo BNG, Nogueira PAMS. Pulmonary rehabilitation for people with chronic obstructive pulmonary disease: a protocol for an overview of Cochrane reviews *Medicine* **2019**; 98 (38) ; e17129

Li X, Xie Y, Zhao H, Zhang H, Yu X, Li J. Telemonitoring Interventions in COPD Patients: overview of Systematic Reviews *Biomed research international* **2020**; 2020 ; 5040521

Lisy K, White H, Pearson A. Overview of reviews: mechanical interventions for the treatment and management of chronic obstructive pulmonary disease *International journal of nursing practice* **2014**; 20 (6) ; 701-708

Murphy LA, Harrington P, Taylor SJ, Teljeur C, Smith SM, Pinnock H, Ryan M. Clinical-effectiveness of self-management interventions in chronic obstructive pulmonary disease: an overview of reviews *Chronic respiratory disease* **2017**; 14 (3) ; 276-288

Scoping reviews

Barton C, Effing TW, Cafarella P. Social Support and Social Networks in COPD: a Scoping Review *COPD* **2015**; 12 (6) ; 690-702

Hallensleben C, van Luenen S, Rolink E, Ossebaard HC, Chavannes NH. eHealth for people with COPD in the Netherlands: a scoping review *International journal of chronic obstructive pulmonary disease* **2019**; 14 ; 1681-1690

King Judy, Tessier Sarah, Charette Marie-Josée, Gaudet Danica. Patient Education Provided by Physiotherapists for Patients with Chronic Obstructive Pulmonary Disease: results of a Scoping Review *Physiotherapy canada* **2018**; 70 (2) ; 141-151

MacDonell R, Woods O, Prihodova L. Interventions at presentation and discharge for patients with acute exacerbation of chronic obstructive pulmonary disease to reduce unnecessary admissions and readmissions: a scoping review protocol *Nursing open* **2020**; 7 (2) ; 669-673

Meehan E, Foley T, Kelly C, Burgess Kelleher A, Sweeney C, Hally RM, Detering K, Cornally N. Advance Care Planning for Individuals With Chronic Obstructive Pulmonary Disease: a Scoping Review of the Literature *Journal of pain and symptom management* **2020**; 59 (6) ; 1344-1361

Milner SC, Boruff JT, Beaurepaire C, Ahmed S, Janaudis-Ferreira T. Rate of, and barriers and enablers to, pulmonary rehabilitation referral in COPD: a systematic scoping review *Respiratory medicine* **2018**; 137 ; 103-114

Moloney C, Sneath E, Phillips T, Issac H, Beccaria G, Mullens A. Recommendations and practices for holistic chronic obstructive pulmonary disease (COPD) assessment and optimal referral patterns in emergency department presentations: a scoping review protocol *BMJ open* **2019**; 9 (8) ; e030358

Mostafavi-Pour-Manshadi SM, Naderi N, Barrecheguren M, Dehghan A, Bourbeau J. Investigating Fractional Exhaled Nitric Oxide in Chronic Obstructive Pulmonary Disease (COPD) and Asthma-COPD

Overlap (ACO): a Scoping Review *Copd: journal of chronic obstructive pulmonary disease* **2018**: 15 (4) ; 377-391

Pedersen PU, Uhrenfeldt L, Larsen P. Oral hygiene in patients with chronic obstructive pulmonary disease: a scoping review protocol *JB I database of systematic reviews and implementation reports* **2017**: 15 (5) ; 1236-1241

Polastri M, Clini EM, Nava S, Ambrosino N. Manual Massage Therapy for Patients with COPD: a Scoping Review *Medicina (Kaunas, Lithuania)* **2019**: 55 (5)

Trethewey SP, Patel N, Turner AM. Interventions to Increase the Rate of Influenza and Pneumococcal Vaccination in Patients with Chronic Obstructive Pulmonary Disease: a Scoping Review *Medicina (Kaunas, Lithuania)* **2019**: 55 (6)

Appendix: Database search strategies

PubMed

(evidence map OR overview OR scoping review) AND COPD[tiab]