# 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 <u>appendix</u>. 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 <u>References</u> 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 | Protocol             |
|             |              |                |             |                    | treatments          |                      |

### 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 | CRD42019111564 | COPD       | Pulmonary          | "Overview of             | Protocol             |
|             | reviews              |                |            | rehabilitation     | Reviews" table           |                      |
| Li 2020     | Overview of          | -              | COPD       | Telemonitoring     | Mortality, quality of    | 8 reviews (95 RCTs)  |
|             | systematic reviews   |                |            |                    | life, exercise capacity, |                      |
|             |                      |                |            |                    | and exacerbation-        |                      |
|             |                      |                |            |                    | related outcomes         |                      |
| Lisy 2014   | Overview of reviews  | -              | COPD       | Mechanical         | Data of the              | 5 reviews            |
|             |                      |                |            | interventions      | effectiveness of each    |                      |
|             |                      |                |            |                    | intervention were        |                      |
|             |                      |                |            |                    | extracted and            |                      |
|             |                      |                |            |                    | summarized in tables     |                      |
|             |                      |                |            |                    | and discussed as a       |                      |
|             |                      |                |            |                    | narrative summary        |                      |
| Murphy 2017 | Overview of reviews  | -              | COPD       | Self-management    | Clinical-effectiveness,  | 16                   |
|             |                      |                |            |                    | classification of        |                      |
|             |                      |                |            |                    | intervention             |                      |

# 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<br>social support,<br>networks and health<br>outcomes   | 31                                     |
| Hallensleben 2019 | Scoping review | -            | COPD                           | eHealth applications   | overview of all<br>eHealth applications<br>used in Dutch COPD<br>care  | 41 programs, website<br>& applications |
| King 2018         | Scoping review | -            | COPD                           | Patient Education<br>Provided by<br>Physiotherapists   | Content, processes,<br>and overall<br>effectiveness  | 14                                     |
| MacDonell 2020    | Scoping review | -            | AECOPD                         | Interventions at<br>presentation and<br>discharge to reduce<br>unnecessary<br>admissions and<br>readmissions | Identify current<br>interventions and<br>improvement<br>approaches.<br>Recommendations<br>for future<br>improvement<br>interventions.                                    | Protocol                               |
| Meehan 2020       | Scoping review | -            | COPD                           | Advance Care<br>Planning   | Summarize the<br>available literature on<br>current practices  | 28                                     |
| Milner 2018       | Scoping review | -            | COPD                           | Referral to pulmonary rehabilitation   | Rate of referral,<br>barriers and enablers   | 42                                     |
| Moloney 2019      | Scoping review | -            | AECOPD presenting at<br>the ED | Holistic management<br>and assessment, and<br>referral practices   | causal factors<br>associated with COPD<br>ED presentations,<br>connection with<br>appropriate<br>healthcare<br>professional<br>assessment within ED<br>presentations and | Protocol                               |

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

### References

#### Evidence maps

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#### Scoping reviews

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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

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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]