April 2020

Interventions aimed at the parents/caregivers of children with long term respiratory conditions

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 aimed at parents or caregivers of children with long term respiratory conditions. 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. The question prioritised by the CAPSG was "Interventions to improve engagement/adherence to routine care for parents of children with long term respiratory conditions".

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

<u>Population</u>: parents or caregivers of children with long term respiratory conditions e.g. asthma, bronchiectasis

Intervention: any intervention aimed at parents/caregivers, including family interventions

Comparator: any

Outcomes: any

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

Literature search

A limited literature search was conducted to identify relevant systematic reviews and trials. A search limited to the last 10 years was conducted in the <u>Cochrane Airways Trials Register</u> to identify relevant RCTs and quasi-RCTs. A search of the <u>Epistemonikos</u> database was conducted to identify relevant systematic reviews published in the last 10 years. The search strategies can be found in the <u>appendix</u>. Searches were conducted on 17 April 2020.

Assessment of search results

The search of the Cochrane Airways Trials Register retrieved 185 references and the search of Epistemonikos retrieved 55 references. 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 identified 4 related systematic reviews and 30 RCTs (36 references). The reviews and studies are summarised in **Table 1** and **Table 2**. The primary reference for each review and study is listed in the <u>References</u> section.

Table 1: Summary of reviews

Study ID	Review type	Population	Intervention/theme	Comparison	Outcome	No. included studies
Archibald 2014	'state-of-the-science'	North American	-	-	Parental information	11
	review of the	parents of children			needs taxonomy	
	literature	with asthma				
Fawcett 2019	Qualitative	Parents and carers	Management of	-	Experiences of	77
		caring for a child aged	asthma		parents and carers	
		0-18 years with			caring for a child with	
		asthma			asthma, wheeze or	
					bronchiolitis and	
					managing their	
					condition	
Santer 2014	Qualitative	Parents and	Treatment adherence	-	Views of parents and	17
		caregivers of children			caregivers of children	
		with a range of long-			with a range of long-	
		term conditions.			term conditions on	
					their treatment	
		Long-term conditions			adherence	
		included; asthma,				
		cystic fibrosis, HIV,				
		diabetes and juvenile				
		arthritis				
Walter 2016	Systematic review of	Children aged five to	School-based family		Quality of life;	5
	RCTs	18 with diagnosis of	asthma educational		number of asthma	
		asthma, and their	programs		exacerbations	
		caregivers			measured by either	
					missed days from	
					school or work;	
					physical activity	
					intolerance;	
					emergency hospital	
					visits	

Table 2: Summary of studies

Study ID	Trial Registration	Population	Intervention(s)	Comparator	No. participants randomized	Country
Decision 2014		Parents of children with	Automated telephone reminder about		4407	
Bender 2014		asthma Parents of children with breathing difficulties in a	medication to parent	usual care	1187	USA
Botngard 2013		pediatric acute ward	Multimedia intervention	verbal health information	101	Norway
Bruzzese 2010		Parents of pre-adolescents	Asthma: It's a Family Affair (school-based, family-focused intervention)	control	393	USA
Chen 2013		Caregivers of children with asthma	Self-management interactive support (SMIS) program for caregivers	usual care	83	Taiwan
Chong 2019		Parents of children with asthma	Acceptance and Commitment Therapy	Asthma education talk	168	China (Hong Kong)
0110		Families of children with				110.187
Clarke 2014		asthma	Positive Parenting Programme	wait list	14	UK
Divecha 2020		Parents of children with asthma	Education	Control	75	India
Duncan 2013		Parent & youth (9-15)	Parent-youth teamwork intervention	Asthma education; standard care	48	USA
Edwards 2019		Parents of children with asthma or wheeze	Videos on identifying asthma triggers	children viewed video on asthma medications	63	USA
Farooqui 2017		Primary caregiver and child	AsthmaCare (application providing medication/trigger reminders and electronic treatment plan)	online asthma information	193	USA
		Parents of children with				
Garbutt 2010		asthma	Structured telephone coaching program	control	362	USA
Garbutt 2012	NCT00860834	Families of children with asthma	Telephone-based peer coaching for parents	usual care	950	USA
Gustafson 2012		Parents & children	Web-based eHealth with telephone nurse case management	usual care	301	USA

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t'		communication	usual care	150	USA
1					1.
t'			Booklet education	4/ 1	Japan
1	Caregivers of young children	Tailored education program using touch-		'	1
·'	with asthma	screen computers	Booklet education	53	Japan
' ۱'	Parents & children	Family empowerment program	Control	45	Iran
1	Parents of children with	Parents attended tai chi training, home			1
1	asthma	practice & social media platform	control	53	Taiwan
	Parents of children with		,	, 	
1		Video education	written education	129	USA
·,	African-American		,	· † · · · · ·	
1	adolescents with asthma &	Multisystemic Therapy adapted for health		'	1
1	family	care settings (MST-HC)	in-home family support	170	USA
, 	Parents of children with	-	,	· /	[]
1	asthma (low socioeconomic	Language literacy adjusted education		'	1
ا	status)	program	control	24	?
	Caregivers & children			· ·	
1	(Hispanic & African		· · · · · · · · · · · · · · · · · · ·	'	1
۱۲	American)	In-hospital educational intervention	control	268	USA
, ,	Mothers of children with			· ·	1
<u>ا</u>	asthma	Education (information booklet & video)	Routine care	80	India
	1	Audio-visual education session & child-		· ا	1
1	1	friendly workbook was provided to the			1
·'	Parents & children	child	standard information pack	40	India
1	Primary caregivers of child	Care Coordination+Problem-Solving		'	1
NCT00250588	children with asthma	Skills Training	Care Coordination; wait list	252	USA
	Families of children with	Theory-based family therapeutic	,	· /	[
1	asthma	conversation intervention	control	31	Iceland
·,	Parents of children with			1 1	
11	asthma	Telephone coaching intervention	control	?	USA
1	Parents of children with	Family-oriented psycho-educational	,	, 	
1	asthma (2-5)	asthma training program	Wait list; instruction group	338	Germany
	NCT00250588	with asthmaParents & childrenParents of children with asthmaParents of children with asthma presenting at the EDAfrican-American adolescents with asthma & familyParents of children with asthma (low socioeconomic status)Caregivers & children (Hispanic & African American)Mothers of children with asthmaParents & children (Hispanic & African American)Parents & children with asthmaParents of children with 	asthma (urban, minority ethnic groups)Face-to-face education on effective communicationCaregivers of young children with asthmaTailored education programCaregivers of young children with asthmaTailored education program using touch- screen computersParents & childrenFamily empowerment programParents of children with asthmaParents attended tai chi training, home practice & social media platformParents of children with asthma presenting at the EDVideo educationAfrican-American adolescents with asthma & familyMultisystemic Therapy adapted for health care settings (MST-HC)Parents of children with asthma (low socioeconomic status)Language literacy adjusted education programCaregivers & children (Hispanic & African American)In-hospital educational interventionMothers of children with asthmaEducation (information booklet & video)Mothers of children with asthmaFamilies of children with asthmaParents & children with asthmaCare Coordination+Problem-Solving Skills TrainingNCT00250588Primary caregivers of child children with asthmaCare Coordination+Problem-Solving Skills TrainingParents of children with asthmaTheory-based family therapeutic conversation interventionParents of children with asthmaTheory-based family therapeutic conversation interventionParents of children with asthmaTheory-based family therapeutic conversation interventionParents of children with asthmaTheory-based family therapeutic conversation intervention <t< td=""><td>asthma (urban, minority ethnic groups)Face-to-face education on effective communicationusual careCaregivers of young children with asthmaTailored education programBooklet educationCaregivers of young children with asthmaTailored education program using touch- screen computersBooklet educationParents & childrenFamily empowerment programControlParents of children with asthmaParents attended tai chi training, home practice & social media platformcontrolParents of children with asthma presenting at the EDVideo educationwritten educationAfrican-American adolescents with asthmaMultisystemic Therapy adapted for health rare settings (MST-HC)in-home family supportParents of children with asthma (low socioeconomi status)Language literacy adjusted education programcontrolCaregivers & children (Hispanic & African American)In-hospital educational interventioncontrolCaregivers & children (Hispanic & African American)In-hospital education session & child- friendly workbook was provided to the childRoutine careMothers of children with asthmaEducation (information booklet & video) status)Routine careMothers of children with asthmaCare Coordination+Problem-Solving Skills TrainingCare Coordination; 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Terpstra 2012	Caregivers & adolescents	group-based skills training for the adolescents followed by 6-weekly targeted newsletters for caregivers and others	group-based skills training for adolescents only	51	USA
Zarei 2017	Parents of children with asthma	Multimedia Education (CD)	control	50	

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Appendix: Database search strategies

Cochrane Airways Register of Trials via The Cochrane Register of Studies

- #1 (parent* or carer* or mother* or father*):ti,ab AND INREGISTER
- #2 (educat* or support* or information):ti,ab AND INREGISTER
- #3 #1 AND #2
- (2020 OR 2019 OR 2018 OR 2017 OR 2016 OR 2015 OR 2014 OR 2013 OR 2012 OR 2011 OR
- #4 2010):YR AND INREGISTER
- #5 #3 AND #4

Epistemonikos

(asthma OR bronchiectasis) AND (parent* OR carer*) AND (educat* OR support* OR information)