

**Cochrane** Database of Systematic Reviews

# Domiciliary oxygen for interstitial lung disease (Review)

Crockett A, Cranston JM, Antic N

Crockett A, Cranston JM, Antic N. Domiciliary oxygen for interstitial lung disease. *Cochrane Database of Systematic Reviews* 2001, Issue 3. Art. No.: CD002883. DOI: 10.1002/14651858.CD002883.

www.cochranelibrary.com

Domiciliary oxygen for interstitial lung disease (Review) Copyright © 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.



# TABLE OF CONTENTS

HEADER	1
ABSTRACT	1
PLAIN LANGUAGE SUMMARY	1
BACKGROUND	3
OBJECTIVES	3
METHODS	3
RESULTS	3
DISCUSSION	4
AUTHORS' CONCLUSIONS	4
ACKNOWLEDGEMENTS	4
REFERENCES	5
CHARACTERISTICS OF STUDIES	5
DATA AND ANALYSES	6
Analysis 1.1. Comparison 1 Oxygen therapy versus no oxygen therapy, Outcome 1 Mortality.	6
APPENDICES	7
WHAT'S NEW	8
HISTORY	8
CONTRIBUTIONS OF AUTHORS	9
DECLARATIONS OF INTEREST	9
SOURCES OF SUPPORT	9
INDEX TERMS	9



# [Intervention Review]

# Domiciliary oxygen for interstitial lung disease

Alan Crockett<sup>1</sup>, Josephine M Cranston<sup>2</sup>, Nic Antic<sup>3</sup>

<sup>1</sup>Primary Care Respiratory Unit, Discipline of General Practice, The University of Adelaide, Adelaide, Australia. <sup>2</sup>Discipline of General Practice, School of Population Health and Clinical Practice, Adelaide, Australia. <sup>3</sup>Respiratory Unit, Flinders Medical Centre, Adelaide, Australia

**Contact address:** Alan Crockett, Primary Care Respiratory Unit, Discipline of General Practice, The University of Adelaide, Adelaide, South Australia, 5005, Australia. alan.crockett@adelaide.edu.au.

**Editorial group:** Cochrane Airways Group. **Publication status and date:** New search for studies and content updated (no change to conclusions), published in Issue 12, 2010.

**Citation:** Crockett A, Cranston JM, Antic N. Domiciliary oxygen for interstitial lung disease. *Cochrane Database of Systematic Reviews* 2001, Issue 3. Art. No.: CD002883. DOI: 10.1002/14651858.CD002883.

Copyright © 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.

# ABSTRACT

#### Background

Retrospective survival data have suggested poor effectiveness of oxygen therapy in patients with interstitial lung disease (ILD).

### Objectives

To determine the effect of domiciliary oxygen therapy on survival and quality of life in patients with a diagnosis of ILD and hypoxaemia.

### Search methods

Randomized Controlled Trials (RCTs) were identified from searches of the Airways Group Specialised Register, CENTRAL, MEDLINE and EMBASE. Searches were current as of October 2010. No language restrictions were applied.

### **Selection criteria**

Any randomized controlled trial (RCT) in adult patients with hypoxaemia and ILD that compared long term domiciliary or home oxygen therapy with a control group.

# Data collection and analysis

Studies were assessed by two authors. Data were entered into Review Manager 5 and analysed.

### **Main results**

Only one trial met the eligibility criteria of the review. Mortality for both the oxygen treated and control groups was approximately 91% after three years (Peto odds ratio 0.99, 95% confidence intervals 0.16 to 6.26). The effect of oxygen therapy on quality of life and physiological parameters was not reported.

# **Authors' conclusions**

The assumption that home oxygen therapy has a beneficial survival effect in patients with ILD has not been demonstrated in the single RCT identified.

# PLAIN LANGUAGE SUMMARY

### Domiciliary oxygen for interstitial lung disease

Domiciliary oxygen for interstitial lung disease (Review)

Copyright  ${\small ©}$  2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.



Oxygen therapy is used to treat patients with interstitial lung disease (ILD) with low arterial blood oxygen levels. This review evaluated the effect of domiciliary long-term oxygen therapy on survival and quality of life in patients with ILD. Only one randomized controlled trial was identified. This unpublished study reported that long-term oxygen therapy did not improve survival compared with no oxygen therapy in patients with ILD. No data on quality of life was available.



# BACKGROUND

Diffuse interstitial lung disease (ILD) refers to a heterogeneous group of acute or chronic progressive lung disorders with varying degrees of pulmonary inflammation and fibrosis. The aetiology of ILD is often unknown. The spectrum of patient diagnoses includes idiopathic pulmonary fibrosis, ILD with collagen vascular disease, granulomatous ILD, ILD caused through drug reaction or particle deposition, lymphangioleiomyomatosis, bronchocentric granulomatosis, and bronchiolitis obliterans with organizing pneumonia (Reynolds 1998). Patients with ILD often develop chronic hypoxaemia which is related to the progression of their underlying condition and has been treated with long-term home oxygen supplementation. Retrospective survival data have suggested poor effectiveness of oxygen therapy in ILD patients (Crockett 1991).

# OBJECTIVES

The aim of this review was to determine the effect of long-term domiciliary oxygen therapy on survival and quality of life in patients with a diagnosis of ILD and hypoxaemia.

# METHODS

### Criteria for considering studies for this review

### **Types of studies**

Any randomized controlled trial (RCT) in adult patients with hypoxaemia and ILD that compared long-term domiciliary or home oxygen therapy with a control group.

# **Types of participants**

Adults with ILD, who received home oxygen therapy in the community.

### **Types of interventions**

The intervention in the active treatment group covered all forms of long-term domiciliary oxygen therapy including provision of home oxygen by cylinders, concentrators or liquid oxygen therapy. In the control group, the intervention was to be either placebo air by the same method of delivery or no specific intervention.

### Types of outcome measures

The outcomes determined in advance for this review were:

- 1. Survival
- 2. Health related quality of life as measured by a validated instrument
- 3. Improvement in physiological parameters

# Search methods for identification of studies

### **Electronic searches**

Trials were identified from the following sources:

- Airways Group Specialised Register (all years to October 2010)
- Cochrane Central Register of Controlled Trials (CENTRAL) (Issue 4, 2010)
- MEDLINE (1950-October 2010)
- EMBASE (1980-October 2010)

Cochrane Database of Systematic Reviews

No language restrictions were applied. The search strategies for each database were amended in 2007 and both sets of search strategies are detailed in Appendix 1.

### Searching other resources

The bibliographies of each trial were searched for additional reports of RCTs. Authors of identified RCTs were contacted for additional data. In addition, companies who supplied the oxygen delivery devices and members of the International Respiratory Care Association were contacted for unpublished studies.

# Data collection and analysis

All studies that appeared potentially relevant were assessed by two reviewers, who independently selected the trials for inclusion in this review. Disagreement was resolved by consensus.

The selected trial was scored for blinding as double blind, single blind or not blinded/not known.

The quality of concealment of allocation was rated according to the method proposed by Schulz 1995. Data for the trials was extracted by two reviewers (AC and JC).

## Statistical considerations

Subgroup analysis, determined in advance, was to include where possible:

- 1. A comparison of male with female patients
- 2. A comparison of oxygen therapy treatment versus no oxygen therapy

# RESULTS

# **Description of studies**

The original literature search was conducted in 2000 and has been updated on an annual basis. A total of 758 references have been identified and screened for inclusion. One unpublished RCT (Braghiroli 2000) was identified from the bibliographies of three review papers identified in the original search (Braghiroli 1993; Donner 1990; Zielinski 2000). The latest search was in 2010.

Only one study was identified which met the inclusion criteria for this review (Braghiroli 2000). This study has not yet been published. The controlled multi-centre study was commenced in 1988 and compared long-term oxygen therapy to a control, no oxygen therapy group. Patients of either gender and under 79 years of age with a diagnosis on X-ray examination of interstitial pulmonary fibrosis were considered for inclusion into the study. The patients were clinically stable and without other major causes of morbidity and mortality such as malignancy, unstable angina, or recent myocardial infarction, congestive cardiac failure, alcoholism, recent pulmonary embolism, diabetes or pregnancy. The included patients were hypoxic, arterial oxygen tension (PaO2) between 45-60 mm Hg (6.0-8.0 kPa). Total lung capacity (TLC) was < 80% predicted. Pharmacological treatment was kept steady for as long as possible during the study. The patients were followed over a four year period. The outcome variables were survival, total lung capacity, dyspnoea trends and blood gases.

Domiciliary oxygen for interstitial lung disease (Review) Copyright © 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.



# **Risk of bias in included studies**

The method of randomisation for the study was not stated. The method of blinding was not described. However, random sampling was set up by blocks, each with six cases allocated to the treatment group and five cases to the control group.

# **Effects of interventions**

Sixty two patients were randomized into the study, 37 to treatment with long-term domiciliary oxygen therapy (17 males and 20 females) and 25 (14 males and 11 females) to control group (no oxygen therapy). Forty nine of the patients (28 treated and 21 controls) had a diagnosis of idiopathic pulmonary fibrosis, and 13 (9 treated and 4 controls) had pulmonary fibrosis secondary to other diseases. Only mortality data with both disease groups combined was provided for the included patients (personal communication only). There was no difference in mortality at 12, 24 or 36 months between the treated and control groups. Mortality for both the oxygen treated and control groups was 91% after three years (Peto OR 0.99; 95% CI 0.16 to 6.26). The effect of oxygen therapy on physiological parameters was not indicated. Data on quality of life was not reported.

# DISCUSSION

There has been only one RCT of domiciliary long-term oxygen therapy in ILD. The results of this study have not been published due to difficulties in collecting data on quality of life from some of the participating centres (verbal communication). This study showed that home oxygen therapy did not improve survival in patients with ILD when respiratory insufficiency had developed, compared to no oxygen therapy.

At the present time long-term oxygen therapy is prescribed if clinically indicated to treat hypoxaemia and relieve symptoms rather than on the basis of scientific evidence from RCTs. A non-randomized study of long term oxygen therapy in patients with idiopathic pulmonary fibrosis (Polonski 1995) concluded that chronic home oxygen therapy attenuated cardiac dysfunction in the treated patients. However, the number of patients included in this study was small (n=18). The effect of long-term oxygen therapy on quality of life and physiological parameters in ILD remains unknown.

# AUTHORS' CONCLUSIONS

# Implications for practice

The assumption that home oxygen therapy has a beneficial effect on survival in patients with ILD has not been demonstrated in this review. The only relevant trial showed that long-term oxygen therapy did not improve survival in patients with ILD. The effect of oxygen therapy on quality of life and physiological parameters was not reported.

# **Implications for research**

Multicentre studies are required to assess the use of adjunctive measures such as oxygen therapy in ILD. However, randomized controlled trials are difficult to perform if a patient is hypoxic. Ethical concerns have been raised about the randomization of patients to placebo and this may be a bar to obtaining more appropriate health status data about the effects of oxygen in more severely hypoxaemic subjects with ILD.

# ACKNOWLEDGEMENTS

We wish to acknowledge the assistance provided by the Cochrane Airways Review Group staff (Steve Milan, Toby Lasserson, Karen Blackhall and Liz Arnold) in identifying the trials from the register and obtaining copies of the papers and the three translators (Charlotta Pisinger, Anna Amstead and Derek Scoins) who translated the papers for us.



# REFERENCES

### References to studies included in this review

### Braghiroli 2000 {unpublished data only}

Braghiroli A, Donner CF. A multicentre randomized controlled trial on long term oxygen therapy in pulmonary fibrosis. Personal communication 2000.

### References to studies excluded from this review

### Polonski 1995 {published data only}

Polonski L, Krzywiecki A, Polonska A, Tendera M, Cwiertka P, Oklek K, et al. Effects of long term oxygen therapy in patients with idiopathic pulmonary fibrosis. I. Effect on the course of the primary disease and on pulmonary circulation. *Polskie Archiwum Medycyny Wewnetrznej* 1995;**94**(4):331-6.

Polonski L, Kusnierz B, Krzywiecki A, Polonska A, Tendera M, Oklek K, et al. Effects of long term oxygen therapy in patients with idiopathic pulmonary fibrosis. II. Effect of oxygen therapy on function of heart ventricles. *Polskie Archiwum Medycyny Wewnetrznej* 1995;**94**(4):337-41.

# **Additional references**

#### Braghiroli 1993

Braghiroli A, Ioli F, Spada EL, Vecchio C, Donner CF, Braghiroli A, et al. LTOT in pulmonary fibrosis. *Monaldi Archives for Chest Disease* 1993;**48**(5):437-40.

### CHARACTERISTICS OF STUDIES

### Characteristics of included studies [ordered by study ID]

### **Braghiroli 2000**

	of s
ea controllea	100

Crockett AJ, Alpers JH, Moss JR. Home oxygen therapy: an audit of survival. *Australian and New Zealand Journal of Medicine* 1991;**21**(2):217-21.

#### Donner 1990

Crockett 1991

Donner CF, Braghiroli A, Ioli F, Zaccaria S. Long-term oxygen therapy in patients with diagnoses other than COPD. *Lung* 1990;**168**(Suppl):776-81.

# **Reynolds 1998**

Reynolds HY. Diagnostic and management strategies for diffuse interstitial lung disease. *Chest* 1998;**113**:195-202.

#### Schulz 1995

Schulz KF, Chalmers I, Hayes RJ, Altman DG. Empirical evidence of bias: dimensions of methodological quality associated with estimates of treatment effects in controlled trials. *JAMA* 1995;**273**(5):408-12.

# Zielinski 2000

Zielinski J. Long-term oxygen therapy in conditions other than chronic obstructive pulmonary disease. *Respiratory Care* 2000;**45**(2):172-6.

Methods	Block randomization, with six cases allocated to the treatment group and five to the control group.		
Participants	Patients less than 79 ye lung capacity (TLC) <80	Patients less than 79 years of age with interstitial pulmonary fibrosis. Inclusion criteria included a total lung capacity (TLC) <80% predicted and an arterial oxygen tension (PaO2) of 45-60 mm Hg.	
Interventions	Long-term oxygen ther	Long-term oxygen therapy versus a control group.	
Outcomes	Survival over 4-years. Physiological parameters of total lung capacity, arterial blood gases and dysp- nea.		
Notes	Unpublished study - data from Donner CF.		
Risk of bias			
Bias	Authors' judgement Support for judgement		
Allocation concealment?	Unclear risk Block randomisation; concealment of randomisation not described.		

# Characteristics of excluded studies [ordered by study ID]

Domiciliary oxygen for interstitial lung disease (Review)

Copyright  ${\small ©}$  2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.



Study

**Reason for exclusion** 

Polonski 1995

This study was not randomised.

# DATA AND ANALYSES

# Comparison 1. Oxygen therapy versus no oxygen therapy

Outcome or subgroup ti- tle	No. of studies	No. of partici- pants	Statistical method	Effect size
1 Mortality	1		Peto Odds Ratio (Peto, Fixed, 95% CI)	Subtotals only
1.1 Mortality at 12 months	1	62	Peto Odds Ratio (Peto, Fixed, 95% CI)	0.50 [0.15, 1.61]
1.2 Mortality at 24 months	1	62	Peto Odds Ratio (Peto, Fixed, 95% CI)	1.76 [0.64, 4.86]
1.3 Mortality at 3 years	1	62	Peto Odds Ratio (Peto, Fixed, 95% CI)	0.99 [0.16, 6.26]

# Analysis 1.1. Comparison 1 Oxygen therapy versus no oxygen therapy, Outcome 1 Mortality.

Study or subgroup	Treatment	Control	Peto Odds Ratio	Weight	Peto Odds Ratio
	n/N	n/N	Peto, Fixed, 95% CI		Peto, Fixed, 95% CI
1.1.1 Mortality at 12 months					
Braghiroli 2000	7/37	8/25		100%	0.5[0.15,1.61]
Subtotal (95% CI)	37	25		100%	0.5[0.15,1.61]
Total events: 7 (Treatment), 8 (Control	)				
Heterogeneity: Not applicable					
Test for overall effect: Z=1.17(P=0.24)					
1.1.2 Mortality at 24 months					
Braghiroli 2000	23/37	12/25		100%	1.76[0.64,4.86]
Subtotal (95% CI)	37	25		100%	1.76[0.64,4.86]
Total events: 23 (Treatment), 12 (Contr	rol)				
Heterogeneity: Not applicable					
Test for overall effect: Z=1.09(P=0.27)					
1.1.3 Mortality at 3 years					
Braghiroli 2000	34/37	23/25		100%	0.99[0.16,6.26]
Subtotal (95% CI)	37	25		100%	0.99[0.16,6.26]
Total events: 34 (Treatment), 23 (Contr	rol)				
Heterogeneity: Not applicable					
Test for overall effect: Z=0.02(P=0.99)					
Test for subgroup differences: Chi <sup>2</sup> =2.5	56, df=1 (P=0.28), I <sup>2</sup> =	22.01%			
	Fa	avours treatment	0.1 0.2 0.5 1 2 5	<sup>10</sup> Favours control	

Domiciliary oxygen for interstitial lung disease (Review) Copyright © 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.



# APPENDICES

# Appendix 1. Search strategies

Database searched	Search (up to 2006)	Search (from 2007 onwards)
CENTRAL	<pre>#1. LUNG DISEASES INTERSTITIAL explode tree 1 (MeSH); #2. (interstitial* near lung* near disease*); #3. alveolitis*; #4. (interstitial near pneumo*); #5. (lung* near purpura); #6. (goodpasture* near syndrome*); #7. granulomatosis; #8. bagassosis; #9. (berylliosis or beryllium); #10. hemosiderosis; #11. (hamman-rich next syndrome*); #12. (pulmonary near fibros*); #13. (histiocytosis near langerhans); #14. (pulmonary near sarcoidosis); #15. (wegener* near granuloma*); #16. ((bird* near lung*) or (bird* near disease*)); #17. ((pigeon* near lung*) or (pigeon* near disease*)); #18. ((farmer* near lung*) or (farmer* near disease*)); #19. (asbestosis or byssinosis or silicosis or anthracosili- cosis); #20. pneumoconiosis; #21. (#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20) 949; #22. OXYGEN INHALATION THERAPY explode tree 1 (MeSH); #23. OXYGEN single term (MeSH); #24. HOME CARE SERVICES explode tree 1 (MeSH); #25. ((oxygen next therap*) or ((home* or domicil*) and oxygen) or (long next term next oxygen next therapy) or ltot); #26. (#22 or #23 or #24 or #25); #27 (#26 and #21)</pre>	<pre>#1 MeSH descriptor Lung Dis- eases, Interstitial explode all trees #2 pulmonary near fibros* #3 interstitial* near lung* #4 (#1 OR #2 OR #3) #5 MeSH descriptor Oxygen Inhalation Therapy explode all trees #6 MeSH descriptor Home Care Services explode all trees #7 MeSH descriptor Oxygen, this term only #8 ((oxygen next therap*) or ((home* or domicil*) and oxy- gen) or (long next term next oxygen next therapy) or ltot) #9 (#5 OR #6 OR #7 OR #8) #10 (#4 AND #9)</pre>
MEDLINE (combined with an RCT filter as described in the Airways Group Module)	<ol> <li>exp Lung Diseases, Interstitial/</li> <li>alveolitis.mp.</li> <li>(interstitial adj3 lung\$ adj3 disease\$).mp.</li> <li>(interstitial adj3 (pneumonia or pneumonitis)).mp.</li> <li>(lung adj3 purpura).mp.</li> <li>(goodpasture\$ adj3 syndrome\$).mp.</li> <li>(goodpasture\$ adj3 syndrome\$).mp.</li> <li>granulomatosis.mp.</li> <li>bagassosis.mp.</li> <li>(beryllium adj3 disease).mp.</li> <li>hemosiderosis.mp.</li> <li>(beryllium adj3 disease).mp.</li> <li>hemosiderosis.mp.</li> <li>(pulmonary adj3 (fibrosis or fibroses)).mp.</li> <li>histiocytosis langerhans-cell.mp.</li> <li>(pulmonary adj3 (robusti or byssinosis or siderosis or silicosis or anthracosis or anthracosilicosis or silicotuberculosis).mp.</li> <li>(pulmonary adj3 sarcoidosis).mp.</li> <li>(pulmonary adj3 granuloma\$).mp.</li> <li>(bird\$ or pigeon\$ or hen\$ or farmer\$) adj3 (lung\$ or disease\$)).mp.</li> <li>1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18</li> <li>exp OXYGEN INHALATION THERAPY/</li> </ol>	<ol> <li>exp Lung Diseases, Interstitial/</li> <li>(interstitial adj3 lung\$ adj3 disease\$).mp.</li> <li>(interstitial adj3 (pneumonia or pneumonitis)).mp.</li> <li>(pulmonary adj3 (fibrosis or fibroses)).mp.</li> <li>exp OXYGEN INHALATION THERAPY/</li> <li>exp OXYGEN/</li> <li>exp OXYGEN/</li> <li>exp HOME CARE SERVICES/</li> <li>((oxygen adj3 therap\$) or ((home\$ or domicil\$) adj5 oxygen) or long term oxygen therap\$ or LTOT).mp.</li> <li>5 or 6 or 7 or 8</li> <li>or/1-4</li> <li>9 and 10</li> </ol>

21. exp OXYGEN/

Domiciliary oxygen for interstitial lung disease (Review)

Copyright @ 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.



(Continued)	22. exp HOME CARE SERVICES/ 23. ((oxygen adj3 therap\$) or ((home\$ or domicil\$) adj5 oxygen) or long term oxygen therap\$ or LTOT).mp. 24. 20 or 21 or 22 or 23 25. 19 and 24	
EMBASE (combined with an RCT filter as described in the Airways Group Module)	<ol> <li>exp Interstitial Lung Disease/</li> <li>(interstitial adj3 (lung\$ or disease\$ or fibros\$ or pneumonitis or pneumonia or pneumopathy)).mp.</li> <li>(Berylliosis or Beryllium).mp.</li> <li>(Alveolitis or Pulmonary Fibrosis).mp.</li> <li>(Hamman Rich adj3 (Disease\$ or Syndrome\$)).mp.</li> <li>(Fibroid adj3 Phthisis).mp.</li> <li>(Caplan\$ adj3 (Syndrome\$ or Disease\$)).mp.</li> <li>(Fibroid adj3 Phthisis).mp.</li> <li>(Caplan\$ adj3 (Syndrome\$ or Disease\$)).mp.</li> <li>(Pneumoconiosis or Pneumokoniosis or Pneumonoconiosis or Pneumonokoniosis).mp.</li> <li>(Lung adj3 Coniosis).mp.</li> <li>(Wegener\$ or Pneumogenic or respiratory) adj3 (granulomatosis or disease\$ or syndrome\$)).mp.</li> <li>(lung \$ adj3 (coniosis or alveolitis or emphysema\$ or fibrosis or infec\$ or occupational)).mp.</li> <li>(lung adj3 purpura).mp.</li> <li>(pulmonary adj3 (fibrosis or fibroses)).mp.</li> <li>10 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13;</li> <li>exp Oxygen Therapy/</li> <li>exp OXYGEN/</li> <li>exp Home Care/</li> <li>((oxygen adj3 therap\$) or ((home\$ or domicil\$) adj5 oxygen) or long term oxygen therap\$ or LTOT).mp.</li> <li>15 or 16 or 17 or 18</li> <li>14 and 19</li> </ol>	<ol> <li>exp Interstitial Lung Disease/</li> <li>(interstitial adj3 (lung\$ or disease\$ or fibros\$ or pneumonitis or pneumonia or pneumopathy)).mp.</li> <li>(pulmonary adj3 (fibrosis or fibroses)).mp.</li> <li>exp Oxygen Therapy/</li> <li>exp OXYGEN/</li> <li>exp Home Care/</li> <li>((oxygen adj3 therap\$) or ((home\$ or domicil\$) adj5 oxygen) or long term oxygen therap\$ or LTOT).mp.</li> <li>4 or 5 or 6 or 7</li> <li>or/1-3</li> <li>8 and 9</li> </ol>
Airways Group Spe- cialised Register (re- stricted to records cod- ed as 'interstitial lung disease)	(home OR domiciliary) AND oxygen	oxygen* or home* or domicil* or LTOT

# WHAT'S NEW

Date	Event	Description
28 October 2010	New search has been performed	Literature search run; no new studies found. Minor copy edits made.

# HISTORY

Protocol first published: Issue 1, 1999 Review first published: Issue 3, 2001

Date	Event	Description
28 October 2009	New search has been performed	Literature search re-run; no new studies found

Domiciliary oxygen for interstitial lung disease (Review)

Copyright @ 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.

Date	Event	Description
24 October 2008	New search has been performed	Literature search re-run; no new studies were identified.
23 July 2008	Amended	Converted to new review format.
22 May 2001	New citation required and conclusions have changed	Substantive amendment

# **CONTRIBUTIONS OF AUTHORS**

AC and JC initiated the study. AC and JC reviewed the trials.

JC was responsible for data entry and analysis. All reviewers participated in the discussion and interpretation of the results. AC and JC wrote the paper. AC is guarantor for the study.

# DECLARATIONS OF INTEREST

None known

# SOURCES OF SUPPORT

# **Internal sources**

• NHS Research and Development, UK.

### **External sources**

• No sources of support supplied

# INDEX TERMS

# Medical Subject Headings (MeSH)

\*Home Care Services; \*Oxygen Inhalation Therapy [mortality]; Confidence Intervals; Lung Diseases, Interstitial [mortality] [\*therapy]; Odds Ratio; Quality of Life; Randomized Controlled Trials as Topic

### **MeSH check words**

Humans