

Appendix A: Literature search strategies

Search strategies used for the idiopathic pulmonary fibrosis guideline are outlined below and were run as per the NICE Guidelines Manual 2009

http://www.nice.org.uk/media/5F2/44/The_guidelines_manual_2009_-_All_chapters.pdf .

Searches for the **clinical reviews** were run in Medline (Ovid), Embase (Ovid) and the Cochrane Library. Additional searches were run in Cinahl (EBSCO) and PsychInfo (Ovid) for some questions. Usually, searches were constructed in the following way:

- A PICO format was used for **intervention** searches where population (P) terms were combined with intervention (I) and sometimes comparison (C) terms. An intervention can be a drug, a procedure or a diagnostic test. Outcomes (O) are rarely used in search strategies for interventions. Search filters were also added to the search where appropriate.
- A PEO format was used for **prognosis** searches where population (P) terms were combined with exposure (E) terms and sometimes outcomes (O). Search filters were added to the search where appropriate.

Searches for the **health economic reviews** were run in Medline (Ovid), Embase (Ovid), the NHS Economic Evaluations Database (NHS EED), the Health Technology Assessment (HTA) database and the Health Economic Evaluation Database (HEED). Searches in NHS EED, HTA and HEED were constructed only using population terms. For Medline and Embase an economic filter (instead of a study type filter) was added to the same clinical search strategy.

All searches were run up to 1st November 2012 unless otherwise stated. Any studies added to the databases after this date were not included unless specifically stated in the text.

The search strategies are presented below in the following order:

Section A.1	Population terms by database. The same searches were used for all questions and for both clinical and health economic searches.
Section 0	Study filter terms by database. These include filters for epidemiological study designs, health economic studies, quality of life studies and disease progression studies.
Section A.3	Searches run for specific questions with the intervention or exposure terms by database. Order as presented in guideline
Section A.3.1	Diagnosis: biopsy/lavage
Section A.3.2	Diagnosis: MDT
Section A.3.3	Prognosis: PFTs
Section A.3.4	Prognosis: sub maximal exercise testing
Section A.3.5	Prognosis: HRCT/echocardiography
Section A.3.6	Psychosocial support
Section A.3.7	Best supportive care/ patient review and follow up
Section A.3.8	Pulmonary rehabilitation
Section A.3.9	Pharmacological interventions
Section A.3.10	Pharmacological interventions: adverse events
Section A.3.11	Lung transplantation
Section A.3.12	Ventilation
Section A.4	Economics search

A.1 Population search strategies

A.1.1 IPF population terms

Medline search terms

1	Idiopathic Pulmonary Fibrosis/
2	Idiopathic Interstitial Pneumonias/
3	Lung Diseases, Interstitial/
4	((idiopathic adj (pulmonary or interstitial) adj (fibros* or pneumonia*)) or (fibrosing adj alveolitis) or interstitial lung disease* or ((chronic or usual or fibrosing) adj interstitial pneumonia*) or ((lung or pulmonary or idiopathic) adj interstitial fibros*) or (alveolar fibros* adj3 lung*) or (diffuse adj3 (lung or pulmonary) adj fibros*) or ((interstitial or parenchymal or fibrotic or restrictive) adj lung disease*)).ti,ab.
5	or/1-4
6	limit 5 to English language
7	letter/
8	editorial/
9	news/
10	exp historical article/
11	Anecdotes as Topic/
12	comment/
13	case report/
14	(letter or comment*).ti.
15	or/7-14
16	randomized controlled trial/ or random*.ti,ab.
17	15 not 16
18	animals/ not humans/
19	Animals, Laboratory/
20	exp animal experiment/
21	exp animal model/
22	exp Rodentia/
23	(rat or rats or mouse or mice).ti.
24	or/17-23
25	6 not 24

Embase search terms

1	fibrosing alveolitis/
2	interstitial pneumonia/
3	interstitial lung disease/
4	((idiopathic adj (pulmonary or interstitial) adj (fibros* or pneumonia*)) or (fibrosing adj alveolitis) or interstitial lung disease* or ((chronic or usual or fibrosing) adj interstitial pneumonia*) or ((lung or pulmonary or idiopathic) adj interstitial fibros*) or (alveolar fibros* adj3 lung*) or (diffuse adj3 (lung or pulmonary) adj fibros*) or ((interstitial or parenchymal or fibrotic or restrictive) adj lung disease*)).ti,ab.
5	or/1-4
6	limit 5 to English language
7	letter.pt. or letter/
8	note.pt.

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Literature search strategies

9	editorial.pt.
10	case report/ or case study/
11	(letter or comment*).ti.
12	or/7-11
13	randomized controlled trial/ or random*.ti,ab.
14	12 not 13
15	animal/ not human/
16	nonhuman/
17	exp Animal Experiment/
18	exp Experimental Animal/
19	animal model/
20	exp Rodent/
21	(rat or rats or mouse or mice).ti.
22	or/14-21
23	5 not 22

Cinahl search terms

S1	(lung or pulmonary) n1 fibros*
S2	alveolitis n3 extrinsic
S3	lung disease* n3 (restrictive or interstitial)
S4	(MH "Pulmonary Fibrosis")
S5	S1 or S2 or S3 or S4
S6	PT anecdote or PT audiovisual or PT bibliography or PT biography or PT book or PT book review or PT brief item or PT cartoon or PT commentary or PT computer program or PT editorial or PT games or PT glossary or PT historical material or PT interview or PT letter or PT listservs or PT masters thesis or PT obituary or PT pamphlet or PT pamphlet chapter or PT pictorial or PT poetry or PT proceedings or PT "questions and answers" or PT response or PT software or PT teaching materials or PT website
S7	S5 NOT S6

Cochrane search terms

#1	MeSH descriptor Idiopathic Pulmonary Fibrosis, this term only
#2	MeSH descriptor Idiopathic Interstitial Pneumonias, this term only
#3	MeSH descriptor Lung Diseases, Interstitial, this term only
#4	((idiopathic NEAR (pulmonary or interstitial) NEAR (fibros* or pneumonia*)) or (fibrosing NEAR alveolitis) or interstitial lung disease* or ((chronic or usual or fibrosing) NEAR interstitial pneumonia*) or ((lung or pulmonary or idiopathic) NEAR interstitial fibros*) or (alveolar fibros* NEAR/3 lung*) or (diffuse NEAR/3 (lung or pulmonary) adj fibros*) or ((interstitial or parenchymal or fibrotic or restrictive) NEAR lung disease*)):ti,ab
#5	(#1 OR #2 OR #3 OR #4)

PsychInfo search terms

1	((idiopathic adj (pulmonary or interstitial) adj (fibros* or pneumonia*)) or (fibrosing adj alveolitis) or interstitial lung disease* or ((chronic or usual or fibrosing) adj interstitial pneumonia*) or ((lung or pulmonary or idiopathic) adj interstitial fibros*) or (alveolar fibros* adj3 lung*) or (diffuse adj3 (lung or pulmonary) adj fibros*) or ((interstitial or parenchymal or fibrotic or restrictive) adj lung disease*)):ti,ab.
2	((lung or pulmonary) adj fibros*).ti,ab.
3	or/1-2

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4	limit 3 to English language
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A.1.2 ILD population terms

Medline search terms

1	Restrictive lung disease*.ti,ab.
2	Pulmonary fibrosis.ti,ab.
3	((idiopathic adj (pulmonary or interstitial) adj (fibros* or pneumonia*)) or (fibrosing adj alveolitis) or interstitial lung disease* or ((chronic or usual or fibrosing) adj interstitial pneumonia*) or ((lung or pulmonary or idiopathic) adj interstitial fibros*) or (alveolar fibros* adj3 lung*) or (diffuse adj3 (lung or pulmonary) adj fibros*) or ((interstitial or parenchymal or fibrotic) adj lung disease*)).ti,ab.
4	Idiopathic Pulmonary Fibrosis/
5	Idiopathic Interstitial Pneumonias/
6	alveolitis, extrinsic allergic/
7	anti-glomerular basement membrane disease/
8	histiocytosis, langerhans-cell/
9	Idiopathic Interstitial Pneumonias/
10	Pneumoconiosis/
11	Radiation Pneumonitis/
12	Sarcoidosis, Pulmonary/
13	Wegener Granulomatosis/
14	pneumonitis, interstitial/
15	((Lung disease* adj3 interstitial) or (Alveolitis adj3 Extrinsic) or anti Glomerular Basement Membrane Disease* or (Histiocytosis adj3 Langerhans*) or Idiopathic Interstitial Pneumonia* or pneumoconiosis or Radiation Pneumonitis or (Sarcoidosis adj3 Pulmonary) or Wegener Granulomatosis or (pneumoni* adj3 interstitial) or diffuse parenchymal lung disease*).ti,ab.
16	or/1-15
17	limit 16 to English language
18	letter/
19	editorial/
20	news/
21	exp historical article/
22	Anecdotes as Topic/
23	comment/
24	case report/
25	(letter or comment*).ti.
26	or/89-25
27	randomized controlled trial/ or random*.ti,ab.
28	26 not 287
29	animals/ not humans/
30	Animals, Laboratory/
31	exp animal experiment/
32	exp animal model/
33	exp Rodentia/
34	(rat or rats or mouse or mice).ti.
35	or/28-34

36	17 not 35
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Embase search terms

1	((idiopathic adj (pulmonary or interstitial) adj (fibros* or pneumonia*)) or (fibrosing adj alveolitis) or interstitial lung disease* or ((chronic or usual or fibrosing) adj interstitial pneumonia*) or ((lung or pulmonary or idiopathic) adj interstitial fibros*) or (alveolar fibros* adj3 lung*) or (diffuse adj3 (lung or pulmonary) adj fibros*) or ((interstitial or parenchymal or fibrotic) adj lung disease*)).ti,ab.
2	fibrosing alveolitis/
3	interstitial pneumonia/
4	((Lung disease* adj3 interstitial) or (Alveolitis adj3 Extrinsic) or anti Glomerular Basement Membrane Disease* or (Histiocytosis adj3 Langerhans*) or Idiopathic Interstitial Pneumonia* or pneumoconiosis or Radiation Pneumonitis or (Sarcoidosis adj3 Pulmonary) or Wegener Granulomatosis or (pneumoni* adj3 interstitial) or diffuse parenchymal lung disease*).ti,ab.
5	lung alveolitis/
6	histiocytosis/
7	pneumoconiosis/
8	radiation pneumonia/
9	lung sarcoidosis/
10	Wegener granulomatosis/
11	Restrictive lung disease*.ti,ab.
12	Pulmonary fibrosis.ti,ab.
13	or/1-12
14	limit 13 to English language
15	letter.pt. or letter/
16	note.pt.
17	editorial.pt.
18	case report/ or case study/
19	(letter or comment*).ti.
20	or/15-19
21	randomized controlled trial/ or random*.ti,ab.
22	20 not 21
23	animal/ not human/
24	nonhuman/
25	exp Animal Experiment/
26	exp Experimental Animal/
27	animal model/
28	exp Rodent/
29	(rat or rats or mouse or mice).ti.
30	or/22-29
31	15 not 31

Cinahl search terms

S1	(lung or pulmonary) n1 fibros*
S2	Alveoliti* n2 fibrosing OR Alveoliti* n2 Extrinsic OR Wegener Granulomatosis OR Histiocytosis n3 Langerhans* OR anti Glomerular Basement Membrane Disease* OR pneumoconiosis OR Radiation Pneumonitis OR Sarcoidosis n3 Pulmonary OR alveolar fibros* n3 lung* OR interstitial pneumonia*

S3	lung disease* n3 (restrictive or interstitial)
S4	(MH "Pulmonary Fibrosis") OR (MH "Lung Diseases, Interstitial+")
S5	S1 or S2 or S3 or S4
S6	PT anecdote or PT audiovisual or PT bibliography or PT biography or PT book or PT book review or PT brief item or PT cartoon or PT commentary or PT computer program or PT editorial or PT games or PT glossary or PT historical material or PT interview or PT letter or PT listservs or PT masters thesis or PT obituary or PT pamphlet or PT pamphlet chapter or PT pictorial or PT poetry or PT proceedings or PT "questions and answers" or PT response or PT software or PT teaching materials or PT website
S7	S5 NOT S6

Cochrane search terms

#1	(idiopathic NEXT (pulmonary or interstitial) NEXT (fibros* or pneumonia*)) or (fibrosing NEXT alveolitis) or (interstitial NEXT lung NEXT disease*) or ((chronic or usual or fibrosing) NEXT interstitial NEXT pneumonia*) or ((lung or pulmonary or idiopathic) NEXT (interstitial NEXT fibros*)) or (alveolar NEXT fibrosis NEAR/3 lung*) or (diffuse NEAR/3 (lung or pulmonary) NEXT fibros*) or ((interstitial or parenchymal or fibrotic) NEXT (lung NEXT disease*)):ti,ab
#2	Restrictive lung disease*:ti,ab
#3	Pulmonary fibrosis:ti,ab
#4	(Lung disease* NEAR/3 interstitial):ti,ab
#5	(Alveolitis NEAR/3 Extrinsic):ti,ab
#6	(Histiocytosis NEAR/3 Langerhans):ti,ab
#7	(Idiopathic Interstitial Pneumonia*):ti,ab
#8	Pneumoconiosis:ti,ab
#9	(Sarcoidosis NEAR/3 Pulmonary):ti,ab
#10	(Wegener NEXT Granulomatosis):ti,ab
#11	(pneumoni* NEAR/3 interstitial):ti,ab
#12	MeSH descriptor Lung Diseases, Interstitial explode all trees
#13	(#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12)

PsychInfo search terms

1	Restrictive lung disease*.ti,ab.
2	Pulmonary fibrosis.ti,ab.
3	((idiopathic adj (pulmonary or interstitial) adj (fibros* or pneumonia*)) or (fibrosing adj alveolitis) or interstitial lung disease* or ((chronic or usual or fibrosing) adj interstitial pneumonia*) or ((lung or pulmonary or idiopathic) adj interstitial fibros*) or (alveolar fibros* adj3 lung*) or (diffuse adj3 (lung or pulmonary) adj fibros*) or ((interstitial or parenchymal or fibrotic) adj lung disease*)):ti,ab.
4	((Lung disease* adj3 interstitial) or (Alveolitis adj3 Extrinsic) or anti Glomerular Basement Membrane Disease* or (Histiocytosis adj3 Langerhans*) or Idiopathic Interstitial Pneumonia* or pneumoconiosis or Radiation Pneumonitis or (Sarcoidosis adj3 Pulmonary) or Wegener Granulomatosis or (pneumoni* adj3 interstitial) or diffuse parenchymal lung disease*).ti,ab.
5	or/1-4
6	limit 5 to English language

A.2 Study filter search terms

A.2.1 Systematic review search terms

Medline search terms

1	Meta-Analysis/
2	Meta-Analysis as Topic/
3	(meta analy* or metanaly* or metaanaly*).ti,ab.
4	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
5	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7	(search* adj4 literature).ab.
8	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
9	cochrane.jw.
10	((indirect or mixed) adj2 comparison*).ti,ab.
11	or/1-10

Embase search terms

1	systematic review/
2	meta-analysis/
3	(meta analy* or metanaly* or metaanaly*).ti,ab.
4	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
5	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
6	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
7	(search* adj4 literature).ab.
8	(medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab.
9	((pool* or combined) adj2 (data or trials or studies or results)).ab.
10	cochrane.jw.
11	((indirect or mixed) adj2 comparison*).ti,ab.
12	or/1-11

A.2.2 Randomised controlled studies (RCTs) search terms

Medline search terms

1	randomized controlled trial.pt.
2	controlled clinical trial.pt.
3	randomi#ed.ab.
4	placebo.ab.
5	randomly.ab.
6	Clinical Trials as topic.sh.
7	trial.ti.
8	or/1-7

Embase search terms

1	random*.ti,ab.
2	factorial*.ti,ab.
3	(crossover* or cross over*).ti,ab.
4	((doubl* or singl*) adj blind*).ti,ab.
5	(assign* or allocat* or volunteer* or placebo*).ti,ab.
6	crossover procedure/
7	single blind procedure/
8	randomized controlled trial/
9	double blind procedure/
10	or/1-9

A.2.3 Diagnostic accuracy search terms

Medline search terms

1	exp "sensitivity and specificity"/
2	(sensitivity or specificity).ti,ab.
3	((pre test or pretest or post test) adj probability).ti,ab.
4	(predictive value* or PPV or NPV).ti,ab.
5	likelihood ratio*.ti,ab.
6	likelihood function/
7	(ROC curve* or AUC).ti,ab.
8	(diagnos* adj2 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
9	gold standard.ab.
10	or/1-9

Embase search terms

1	exp "sensitivity and specificity"/
2	(sensitivity or specificity).ti,ab.
3	((pre test or pretest or post test) adj probability).ti,ab.
4	(predictive value* or PPV or NPV).ti,ab.
5	likelihood ratio*.ti,ab.
6	(ROC curve* or AUC).ti,ab.
7	(diagnos* adj2 (performance* or accurac* or utilit* or value* or efficien* or effectiveness)).ti,ab.
8	diagnostic accuracy/
9	diagnostic test accuracy study/
10	gold standard.ab.
11	or/1-10

A.2.4 Observational studies search terms

Medline search terms

1	Epidemiologic studies/
2	exp Case control studies/
3	exp Cohort studies/
4	Cross-sectional studies/

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Literature search strategies

5	case control.ti,ab.
6	(cohort adj (study or studies or analys*)).ti,ab.
7	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
8	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
9	or/1-8

Embase search terms

1	Clinical study/
2	exp Case control study/
3	Family study/
4	Longitudinal study/
5	Retrospective study/
6	Prospective study/
7	Cross-sectional study/
8	Cohort analysis/
9	Follow-up/
10	cohort*.ti,ab.
11	9 and 10
12	case control.ti,ab.
13	(cohort adj (study or studies or analys*)).ti,ab.
14	((follow up or observational or uncontrolled or non randomi#ed or nonrandomi#ed or epidemiologic*) adj (study or studies)).ti,ab.
15	((longitudinal or retrospective or prospective or cross sectional) and (study or studies or review or analys* or cohort*)).ti,ab.
16	or/1-8,11-15

A.2.5 Prognosis search terms

Medline search terms

1	Prognosis/
2	Predictive value of tests/
3	(predict* or prognos* or progression).ti,ab.
4	or/1-3

Embase search terms

1	*prognosis/
2	*predictive value/
3	*disease exacerbation/
4	(predict* or prognos* or progression).ti,ab.
5	or/1-4

A.2.6 Health economic search terms

Medline search terms

1	Economics/
2	Value of life/

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3	exp "Costs and Cost Analysis"/
4	exp Economics, Hospital/
5	exp Economics, Medical/
6	Economics, Nursing/
7	Economics, Pharmaceutical/
8	exp "Fees and Charges"/
9	exp Budgets/
10	budget*.ti,ab.
11	cost*.ti.
12	(economic* or pharmaco?economic*).ti.
13	(price* or pricing*).ti,ab.
14	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
15	(financ* or fee or fees).ti,ab.
16	(value adj2 (money or monetary)).ti,ab.
17	or/1-16

Embase search terms

1	health economics/
2	exp economic evaluation/
3	exp health care cost/
4	exp fee/
5	budget/
6	funding/
7	budget*.ti,ab.
8	cost*.ti.
9	(economic* or pharmaco?economic*).ti.
10	(price* or pricing*).ti,ab.
11	(cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab.
12	(financ* or fee or fees).ti,ab.
13	(value adj2 (money or monetary)).ti,ab.
14	or/1-13

A.2.7 Quality of life search terms

Medline search terms

1	quality-adjusted life years/
2	sickness impact profile/
3	(quality adj2 (wellbeing or well being)).ti,ab.
4	sickness impact profile.ti,ab.
5	disability adjusted life.ti,ab.
6	(qal* or qtime* or qwb* or daly*).ti,ab.
7	(euroqol* or eq5d* or eq 5*).ti,ab.
8	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
9	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
10	(hui or hui1 or hui2 or hui3).ti,ab.
11	(health* year* equivalent* or hye or hyes).ti,ab.

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Literature search strategies

12	discrete choice*.ti,ab.
13	rosser.ti,ab.
14	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
15	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
16	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
17	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
18	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
19	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
20	or/1-19

Embase search terms

1	quality adjusted life year/
2	"quality of life index"/
3	short form 12/ or short form 20/ or short form 36/ or short form 8/
4	sickness impact profile/
5	(quality adj2 (wellbeing or well being)).ti,ab.
6	sickness impact profile.ti,ab.
7	disability adjusted life.ti,ab.
8	(qal* or qtime* or qwb* or daly*).ti,ab.
9	(euroqol* or eq5d* or eq 5*).ti,ab.
10	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
11	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
12	(hui or hui1 or hui2 or hui3).ti,ab.
13	(health* year* equivalent* or hye or hyes).ti,ab.
14	discrete choice*.ti,ab.
15	rosser.ti,ab.
16	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
17	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
18	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
19	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
20	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
21	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
22	or/1-21

A.2.8 Economic modelling search terms

Medline search terms

1	exp models, economic/
2	*Models, Theoretical/
3	*Models, Organizational/
4	markov chains/
5	monte carlo method/
6	exp Decision Theory/
7	(markov* or monte carlo).ti,ab.
8	econom* model*.ti,ab.
9	(decision* adj2 (tree* or analy* or model*)).ti,ab.

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10	or/1-9
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Embase search terms

1	statistical model/
2	exp economic aspect/
3	1 and 2
4	*theoretical model/
5	*nonbiological model/
6	stochastic model/
7	decision theory/
8	decision tree/
9	monte carlo method/
10	(markov* or monte carlo).ti,ab.
11	econom* model*.ti,ab.
12	(decision* adj2 (tree* or analy* or model*)).ti,ab.
13	or/3-12

A.2.9 Disease progression search terms

Medline search terms

1	exp disease progression/
2	exp "Severity of Illness Index"/
3	"International Classification of Diseases"/
4	(Disease* adj (classif* or progress* or course*)).ti,ab.
5	clinical course.ti,ab.
6	(disease adj (attribute* or development* or evolution*)).ti,ab.
7	Natural History/
8	(progress* adj2 (slow* or stable or rapid or fast or quick*)).ti,ab.
9	natural history.ti,ab.
10	(predict* adj3 (mortality or death)).ti,ab.
11	(acute adj (worse* or exacerbat*)).ti,ab.
12	or/1-11

Embase search terms

1	*disease classification/
2	*disease course/
3	*disease severity/
4	*disease association/
5	*disease exacerbation/
6	"international classification of diseases"/
7	(Disease* adj (classif* or progress* or course*)).ti,ab.
8	clinical course.ti,ab.
9	(disease adj (attribute* or development* or evolution*)).ti,ab.
10	(progress* adj2 (slow* or stable or rapid or fast or quick*)).ti,ab.
11	natural history.ti,ab.
12	(predict* adj3 (mortality or death)).ti,ab.
13	(acute adj (worse* or exacerbat*)).ti,ab.

14	or/1-13
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A.3 Searches by specific questions

A.3.1 Diagnosis: biopsy/bronchoalveolar lavage

In suspected IPF what is the additional value of adding biopsy to clinical evaluation, PFTs, HRCT +/- bronchoalveolar lavage for confirming the diagnosis of IPF?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF	Biopsy or lavage		SRs, RCTs, observational, diagnostic (Medline and Embase only)	No date restriction. Search run up to 01/11/12

Biopsy/lavage search terms

Medline search terms

1	exp Biopsy/
2	biops*.ti,ab.
3	exp Bronchoalveolar Lavage/
4	((bronchoalveolar or alveolar or lung or bronchial or bronchopulmonary) adj2 lavage*).ti,ab.
5	or/1-4

Embase search terms

1	biops*.ti,ab.
2	exp biopsy/ or exp biopsy device/ or exp biopsy technique/
3	lung lavage/
4	((bronchoalveolar or alveolar or lung or bronchial or bronchopulmonary) adj2 lavage*).ti,ab.
5	or/1-4

Cochrane search terms

#1	biops*:ti,ab
#2	MeSH descriptor Biopsy explode all trees
#3	MeSH descriptor Bronchoalveolar Lavage explode all trees
#4	((bronchoalveolar or alveolar or lung or bronchial or bronchopulmonary) NEAR/2 lavage*):ti,ab,kw
#5	(#1 OR #2 OR #3 OR #4)

A.3.2 Diagnosis: MDT

Searches for the following two questions were run as one search:

In suspected IPF what is the additional value of adding multidisciplinary team (MDT) consensus to clinical assessment, PFTs and HRCT in the diagnosis of IPF?

How and by whom is an MDT diagnostic consensus best achieved (i.e. constituency of the MDT, specialist clinics, networks)?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
ILD	MDT		None, all study types considered	No date restriction. Search run up to 01/11/12

MDT search terms

Medline search terms

1	((doctor* or physician* or pulmonologist* or specialist* or clinician*) and radiologist*).ti,ab.
2	(Radiol* and (pathol* or histopathol* or histol*)).ti,ab.
3	(Multidisciplinary* or Interdisciplinary* or mdt or mdd or interobserver*).ti,ab.
4	((clinical or diagnos*) adj2 (consensus or agreement*)).ti,ab.
5	((Secondary or tertiary) adj care).ti,ab.
6	(Specialist* adj2 (clinic* or centre* or center* or hub or network*)).ti,ab.
7	(respiratory adj2 (clinic or clinics or hub*)).ti,ab.
8	(chest* adj2 (clinic or clinics or centre* or center* or hub or network*)).ti,ab.
9	(lung* adj2 (clinic or clinics or centre* or center* or hub*)).ti,ab.
10	(clinical adj2 (centre* or center* or hub or network*)).ti,ab.
11	(community adj2 (clinic or clinics or centre* or center* or hub or network*)).ti,ab.
12	exp *"Referral and Consultation"/
13	*Patient Care Team/
14	exp *"Delivery of Health Care"/
15	*Decision Trees/
16	*Physician's Practice Patterns/
17	*observer variation/
18	*Community Medicine/
19	or/1-18

Embase search terms

1	((doctor* or physician* or pulmonologist* or specialist* or clinician*) and radiologist*).ti,ab.
2	(Radiol* and (pathol* or histopathol* or histol*)).ti,ab.
3	(Multidisciplinary* or Interdisciplinary* or mdt or mdd or interobserver*).ti,ab.
4	((clinical or diagnos*) adj2 (consensus or agreement*)).ti,ab.
5	((Secondary or tertiary) adj care).ti,ab.
6	(Specialist* adj2 (clinic* or centre* or center* or hub or network*)).ti,ab.
7	(respiratory adj2 (clinic or clinics or hub*)).ti,ab.
8	(chest* adj2 (clinic or clinics or centre* or center* or hub or network*)).ti,ab.
9	(lung* adj2 (clinic or clinics or centre* or center* or hub*)).ti,ab.
10	(clinical adj2 (centre* or center* or hub or network*)).ti,ab.
11	(community adj2 (clinic or clinics or centre* or center* or hub or network*)).ti,ab.
12	exp *patient care/
13	exp *health care delivery/
14	*"decision tree"/
15	*consensus/
16	*observer variation/

17	*community medicine/
18	*intermethod comparison/
19	*medical practice/
20	*differential diagnosis/
21	*quantitative diagnosis/
22	*diagnostic accuracy/
23	*"medical record review"/
24	*patient referral/
25	or/1-24

Cinahl search terms

S1	Multidisciplinary* OR Interdisciplinary* OR mdt OR mdd OR interobserv*
S2	clinical n2 consensus OR clinical n2 agreement* OR diagnos* n2 consensus OR diagnos* n2 agreement*
S3	doctor* OR physician* OR pulmonologist* OR specialist* OR clinician*
S4	radiologist*
S5	S3 and S4
S6	pathol* OR histopathol* OR histol*
S7	Radiol*
S8	S6 and S7
S9	Secondary care OR tertiary care OR Specialist* n2 clinic* OR Specialist* n2 centre* OR Specialist* n2 center* OR Specialist* n2 hub OR Specialist* n2 network* OR respiratory n2 clinic OR respiratory n2 clinics OR respiratory n2 hub*
S10	chest* n2 clinic OR chest* n2 clinics OR chest* n2 centre* OR chest* n2 center* OR chest* n2 hub* OR chest* n2 network* OR lung* n2 clinic OR lung* n2 clinics OR lung* n2 centre* OR lung* n2 center* OR lung* n2 hub* OR lung* n2 network*
S11	community n2 clinic OR community n2 clinics OR community n2 centre* OR community n2 center* OR community n2 hub* OR community n2 network* OR clinical n2 centre* OR clinical n2 center* OR clinical n2 hub* OR clinical n2 network*
S12	(MH "Referral and Consultation+")
S13	(MH "Multidisciplinary Care Team")
S14	(MM "Health Care Delivery+")
S15	(MM "Decision Support Techniques+")
S16	(MM "Practice Patterns")
S17	S1 or S2 or S5 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16

Cochrane search terms

#1	((doctor* or physician* or pulmonologist* or specialist* or clinician*) and radiologist*):ti,ab
#2	(Radiol* and (pathol* or histopathol* or histol*)):ti,ab
#3	(Multidisciplinary* or Interdisciplinary* or mdt or mdd or interobserver*):ti,ab
#4	((clinical or diagnos*) NEAR/2 (consensus or agreement*)):ti,ab
#5	((Secondary or tertiary) NEXT care):ti,ab
#6	(Specialist* NEAR/2 (clinic* or centre* or center* or hub or network*)):ti,ab
#7	(respiratory NEAR/2 (clinic or clinics or hub*)):ti,ab
#8	(chest* NEAR/2 (clinic or clinics or centre* or center* or hub or network*)):ti,ab
#9	(lung* NEAR/2 (clinic or clinics or centre* or center* or hub*)):ti,ab
#10	(clinical NEAR/2 (centre* or center* or hub or network*)):ti,ab
#11	(community NEAR/2 (clinic or clinics or centre* or center* or hub or network*)):ti,ab

#12	MeSH descriptor Referral and Consultation explode all trees
#13	MeSH descriptor Patient Care Team, this term only
#14	MeSH descriptor Delivery of Health Care explode all trees
#15	MeSH descriptor Decision Trees, this term only
#16	MeSH descriptor Physician's Practice Patterns, this term only
#17	MeSH descriptor Observer Variation, this term only
#18	MeSH descriptor Community Medicine, this term only
#19	(#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)

A.3.3 Prognosis: PFTs

Do serial pulmonary function tests (resting spirometric, gas transfer measurement and oxygen saturation) predict prognosis of IPF?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF	Pulmonary function tests (PFTs)		Observational studies, prognostic studies (Medline and Embase only)	1994- 01/11/12

PFT search terms

Medline search terms

1	(forced adj vital adj capacity*).ti,ab.
2	Fvc.ti,ab.
3	(forced adj expiratory adj volume*).ti,ab.
4	Fev*1.ti,ab.
5	(diffusing adj capacity adj3 (carbon adj monoxide)).ti,ab.
6	Dlco.ti,ab.
7	Tlco.ti,ab.
8	Tlc.ti,ab.
9	(total adj lung adj capacity*).ti,ab.
10	(lung adj volume*).ti,ab.
11	((pulmonary or lung) adj (function adj test*)).ti,ab.
12	(oxygen adj saturat*).ti,ab.
13	oximetry.ti,ab.
14	Spiromet*.ti,ab.
15	Vital capacity/
16	Forced expiratory volume/
17	Pulmonary gas exchange/
18	Pulmonary diffusing capacity/
19	Lung volume measurements/
20	Respiratory function tests/

21	*oxygen consumption/
22	Oximetry/
23	*oxygen/
24	Spirometry/
25	or/1-24

Embase search terms

1	(forced adj vital adj capacity*).ti,ab.
2	Fvc.ti,ab.
3	(forced adj expiratory adj volume*).ti,ab.
4	Fev*1.ti,ab.
5	(diffusing adj capacity adj3 (carbon adj monoxide)).ti,ab.
6	Dlco.ti,ab.
7	Tlco.ti,ab.
8	Tlc.ti,ab.
9	(total adj lung adj capacity*).ti,ab.
10	(lung adj volume*).ti,ab.
11	(oxygen adj saturat*).ti,ab.
12	((pulmonary or lung) adj (function adj test*)).ti,ab.
13	Spiromet*.ti,ab.
14	Forced vital capacity/
15	Forced expiratory volume/
16	Lung gas exchange/
17	Lung diffusion capacity/
18	Total lung capacity/
19	Lung volume/
20	lung function test/
21	Arterial oxygen tension/
22	Lung alveolus oxygen tension/
23	*oxygen/
24	Oxygen saturation/
25	Spirometry/
26	or/1-25

Cinahl search terms

S1	Forced vital capacity
S2	Fvc
S3	forced expiratory volume*
S4	fev
S5	diffusing n2 capacity
S6	Dlco OR Tlco
S7	Tlc
S8	total lung capacit*
S9	lung volume*
S10	((pulmonary or lung) n2 (function test*))
S11	oxygen saturat*

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Literature search strategies

S12	Oximetry
S13	Spiromet*
S14	MH Vital capacity
S15	MH Pulmonary gas exchange
S16	MH Lung volume measurements
S17	MH Pulmonary diffusing capacity
S18	MH Respiratory function tests
S19	MH oxygen consumption
S20	MH Oximetry
S21	MH oxygen
S22	MH Spirometry
S23	S1 or S2 or S3 or S4 or S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 or S17 or S18 or S19 or S20 or S21 or S22

Cochrane search terms

#1	Fvc:ti,ab
#2	(forced NEXT expiratory NEXT volume*):ti,ab
#3	Fev*:ti,ab
#4	((diffusing NEXT capacity) NEAR/3 (carbon NEXT monoxide)):ti,ab
#5	Dlco:ti,ab
#6	Tlco:ti,ab
#7	Tlc:ti,ab
#8	(forced NEXT vital NEXT capacit*):ti,ab
#9	(total NEXT lung NEXT capacit*):ti,ab
#10	(lung NEAR/2 volume*):ti,ab
#11	(oxygen NEAR/2 saturat*):ti,ab
#12	oximetry:ti,ab
#13	Spiromet*:ti,ab
#14	MeSH descriptor Vital Capacity explode all trees
#15	MeSH descriptor Forced Expiratory Volume explode all trees
#16	MeSH descriptor Pulmonary Gas Exchange explode trees 1 and 3
#17	MeSH descriptor Pulmonary Diffusing Capacity explode all trees
#18	MeSH descriptor Lung Volume Measurements explode all trees
#19	MeSH descriptor Oxygen Consumption explode all trees
#20	MeSH descriptor Oximetry explode all trees
#21	MeSH descriptor Oxygen explode tree 2
#22	MeSH descriptor Spirometry explode all trees
#23	((pulmonary or lung) NEAR/2 (function NEXT test*)):ti,ab
#24	MeSH descriptor Respiratory Function Tests explode all trees
#25	(#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 OR #21 OR #22 OR #23 OR #24)

A.3.4 Prognosis: sub maximal exercise testing

Does baseline sub-maximal exercise testing predict prognosis of IPF?

Search constructed by combining the columns in the following table using the AND Boolean operator

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Literature search strategies

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF	Sub maximal exercise testing		Observational studies, prognostic studies (Medline and Embase only)	1994-01/11/12

Sub maximal exercise testing search terms

Medline search terms

1	("Sub maximal" adj exercis*).ti,ab.
2	(Submaximal adj exercis*).ti,ab.
3	(walk* adj test*).ti,ab.
4	(walk adj distance).ti,ab.
5	(exercise adj test*).ti,ab.
6	(walk adj2 exercis*).ti,ab.
7	(fitness adj test*).ti,ab.
8	(shuttle adj test*).ti,ab.
9	(minute adj walk).ti,ab.
10	6mwt.ti,ab.
11	6mwd.ti,ab.
12	12MWT.ti,ab.
13	exp Exercise Therapy/
14	Exercise Tolerance/
15	Exercise Test/
16	or/1-15

Embase search terms

1	("Sub maximal" adj exercis*).ti,ab.
2	(Submaximal adj exercis*).ti,ab.
3	(walk* adj test*).ti,ab.
4	(walk adj distance).ti,ab.
5	(exercise adj test*).ti,ab.
6	(walk adj2 exercis*).ti,ab.
7	(fitness adj test*).ti,ab.
8	(shuttle adj test*).ti,ab.
9	(minute adj walk).ti,ab.
10	6mwt.ti,ab.
11	6mwd.ti,ab.
12	12MWT.ti,ab.
13	exercise/
14	exercise test/
15	exercise tolerance/
16	cardiopulmonary exercise test/
17	or/1-16

Cinahl search terms

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S1	Sub maximal exercis* OR Submaximal exercis*
S2	walk* n1 (test* or distance or exercise* or minute*)
S3	(exercise or fitness or shuttle) n1 test*
S4	6mwt OR 6mwd OR 12MWT
S5	(MH "Therapeutic Exercise") OR (MH "Exercise Therapy: Ambulation (Iowa NIC)") OR (MH "Exercise Tolerance+") OR (MH "Walking") OR (MH "Exercise Test+")
S6	S1 or S2 or S3 or S4 or S5

Cochrane search terms

#1	((Sub NEXT maximal) NEXT exercis*):ti,ab
#2	(walk* NEXT test*):ti,ab
#3	(walk NEXT distance):ti,ab
#4	(walk NEXT exercis*):ti,ab
#5	(exercise NEXT test*):ti,ab
#6	(fitness NEXT test*):ti,ab
#7	(shuttle NEXT test*):ti,ab
#8	(minute NEXT walk):ti,ab
#9	6mwt:ti,ab
#10	6mwd:ti,ab
#11	12MWT:ti,ab
#12	MeSH descriptor Exercise Test explode trees 2 and 3
#13	MeSH descriptor Exercise Therapy explode all trees
#14	MeSH descriptor Exercise Tolerance explode all trees
#15	(#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)

A.3.5 Prognosis: HRCT/echocardiography

Searches for the following two questions were run as one search:

Does baseline echocardiography predict prognosis of IPF?

Do baseline HRCT scores predict prognosis of IPF?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF	HRCT/ echocardiography		Observational studies, prognostic studies (Medline and Embase only)	1994-01/11/12

HRCT/ echocardiography search terms

Medline search terms

1	Hypertension, Pulmonary/di, ri, us [Diagnosis, Radionuclide Imaging, Ultrasonography]
2	*Hypertension, Pulmonary/
3	exp Echocardiography/
4	(echocardio* or tissue Doppler imag* or ((pulmonary or lung*) adj arter* adj2 pressure)).ti,ab.

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Literature search strategies

5	exp Tomography, X-Ray Computed/
6	Lung/ra [Radiography]
7	Lung Diseases/ra [Radiography]
8	lung diseases, interstitial/ra [Radiography]
9	(hrct or (comput* adj3 tomograph*) or ((cat or ct) adj scan*)).ti,ab.
10	or/1-9

Embase search terms

1	*pulmonary hypertension/
2	pulmonary hypertension/di [Diagnosis]
3	exp echocardiography/
4	(echocardio* or tissue Doppler imag* or ((pulmonary or lung*) adj arter* adj2 pressure)).ti,ab.
5	exp computer assisted tomography/
6	(hrct or (comput* adj3 tomograph*) or ((cat or ct) adj scan*)).ti,ab.
7	or/1-6

Cinahl search terms

S1	(MM "Hypertension, Pulmonary") OR (MM "Pulmonary Arterial Hypertension")
S2	(MH "Echocardiography+")
S3	echocardio* OR tissue Doppler imag* OR pulmonary arter* n2 pressure OR lung* arter* n2 pressure
S4	(MH "Tomography, X-Ray Computed")
S5	(MH "Lung/RA") OR (MH "Lung Diseases/RA") OR (MH "Lung Diseases, Interstitial/RA")
S6	hrct OR comput* n3 tomograph* OR cat scan* OR ct scan*
S7	S1 or S2 or S3 or S4 or S5 or S6

Cochrane search terms

#1	MeSH descriptor Hypertension, Pulmonary, this term only
#2	MeSH descriptor Echocardiography explode all trees
#3	(echocardio* or tissue Doppler imag* or ((pulmonary or lung*) NEAR arter* NEAR/2 pressure)):ti,ab
#4	MeSH descriptor Tomography, X-Ray Computed explode all trees
#5	MeSH descriptor Lung, this term only with qualifier: RA
#6	MeSH descriptor Lung Diseases, this term only with qualifier: RA
#7	MeSH descriptor Lung Diseases, Interstitial, this term only with qualifier: RA
#8	(hrct or (comput* NEAR/3 tomograph*) or ((cat or ct) NEXT scan*)):ti,ab
#9	(#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8)

A.3.6 Psychosocial support

What is the specific type of psychosocial support and information for patients diagnosed with IPF?

Search constructed by combining the columns in the following table using the AND Boolean operator. For PsychInfo only the population terms were used.

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
ILD	Psychosocial support		None, all study types considered	No date restriction. Search run up to

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Literature search strategies

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
				01/11/12

Psychosocial support search terms

Medline search terms

1	exp Information Services/ or exp Publications/ or Counseling/ or Directive Counseling/
2	Patient Education as Topic/ or Patient Education Handout/
3	"patient acceptance of health care"/ or exp patient satisfaction/
4	Communication/
5	exp Consumer Health Information/
6	exp Psychotherapy/
7	Social support/
8	((patient or patients) adj3 (education or educate or educating or information or literature or leaflet* or booklet* or pamphlet* or website* or knowledge)).ti,ab.
9	(information* adj3 (patient* or need* or requirement* or support* or seek* or access* or disseminat*)).ti,ab.
10	((client* or patient* or user* or carer* or consumer* or customer*) adj2 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience or experiences or opinion*)).ti,ab.
11	(psycholog* or council* or counsel* or psychotherap* or psychosocial).ti,ab.
12	((support* or advice or advise) adj3 (telephone* or internet or program* or group*)).ti,ab.
13	or/1-12

Embase search terms

1	patient attitude/ or patient preference/ or patient satisfaction/ or consumer attitude/
2	consumer health information/
3	Information Service/ or Information center/ or Publication/ or Book/
4	Patient information/ or Patient education/
5	medical information/
6	health literacy/
7	exp *interpersonal communication/
8	exp Counseling/
9	exp psychotherapy/
10	psychosocial care/
11	*social support/
12	((patient or patients) adj3 (education or educate or educating or information or literature or leaflet* or booklet* or pamphlet* or website* or knowledge)).ti,ab.
13	(information* adj3 (patient* or need* or requirement* or support* or seek* or access* or disseminat*)).ti,ab.
14	((client* or patient* or user* or carer* or consumer* or customer*) adj2 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience or experiences or opinion*)).ti,ab.
15	(psycholog* or council* or counsel* or psychotherap* or psychosocial).ti,ab.
16	((support* or advice or advise) adj3 (telephone* or internet or program* or group*)).ti,ab.
17	or/1-16

Cinahl search terms

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S1	(MH "Information Services+") OR (MH "Counseling+") OR (MH "Patient Education") OR (MH "Patient Discharge Education") OR (MH "Health Education") OR (MH "Death Education") OR (MH "Patient Attitudes") OR (MH "Communication+")
S2	(MH "Consumer Health Information") OR (MH "Psychotherapy+")
S3	((patient or patients) n3 (education or educate or educating or information or literature or leaflet* or booklet* or pamphlet* or website* or knowledge))
S4	(information* n3 (patient* or need* or requirement* or support* or seek* or access* or disseminat*))
S5	((client* or patient* or user* or carer* or consumer* or customer*) n2 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience or experiences or opinion*))
S6	psycholog* or council* or counsel* or psychotherap* or psychosocial
S7	((support* or advice or advise) n3 (telephone* or internet or program* or group*))
S8	S1 or S2 or S3 or S4 or S5 or S6 or S7

Cochrane search terms

#1	MeSH descriptor Information Services explode all trees
#2	MeSH descriptor Publications explode all trees
#3	MeSH descriptor Counseling, this term only
#4	MeSH descriptor Directive Counseling, this term only
#5	MeSH descriptor Patient Education as Topic, this term only
#6	MeSH descriptor Patient Acceptance of Health Care, this term only
#7	MeSH descriptor Patient Satisfaction explode all trees
#8	MeSH descriptor Communication, this term only
#9	MeSH descriptor Consumer Health Information explode all trees
#10	MeSH descriptor Psychotherapy explode all trees
#11	MeSH descriptor Social Support, this term only
#12	((patient or patients) NEAR/3 (education or educate or educating or information or literature or leaflet* or booklet* or pamphlet* or website* or knowledge)):ti,ab
#13	(information* NEAR/3 (patient* or need* or requirement* or support* or seek* or access* or disseminat*)):ti,ab
#14	((client* or patient* or user* or carer* or consumer* or customer*) NEAR/2 (attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or inform* or experience or experiences or opinion*)):ti,ab
#15	(psycholog* or council* or counsel* or psychotherap* or psychosocial):ti,ab
#16	((support* or advice or advise) NEAR/3 (telephone* or internet or program* or group*)):ti,ab
#17	(#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)

A.3.7 Best supportive care/ patient review and follow up

Searches for the following three questions were run as one search:

What is the clinical and cost effectiveness of best supportive care (palliation of cough, breathlessness and fatigue, and oxygen management) in the symptomatic relief of patients with IPF?

How often should a patient with confirmed diagnosis of IPF be reviewed?

In which healthcare setting and by whom should a review appointment for patients with confirmed IPF be conducted?

Search constructed by combining the columns in the following table using the AND Boolean operator. For PsychInfo only the population terms were used.

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
ILD	Best supportive care (BSC) or patient review		SRs, RCTs, observational (Medline and Embase only)	No date restriction. Search run up to 01/11/12

BSC/ patient review search terms

Medline search terms

1	exp oximetry/
2	Oxygen Inhalation Therapy/
3	Oxygen/
4	((oxygen or o2) adj3 (manag* or assess* or saturation* or sats or therap* or review* or ambulat* or nocturnal* or measur* or transcutaneous)).ti,ab.
5	(oximetr* or ptc02 or tcp02 or ltot).ti,ab.
6	or/1-5
7	Dyspnea/
8	(breathless* or dyspnea* or (short* adj2 breath*)).ti,ab.
9	or/7-8
10	Cough/
11	cough*.ti,ab.
12	or/10-11
13	Fatigue/
14	(fatigue* or lassitude).ti,ab.
15	or/13-14
16	Palliative Care/
17	((best supportive or palliat*) adj2 (care or treat* or therap*)) or (symptom* adj2 (relie* or palliat*)).ti,ab.
18	or/16-17
19	((review or reviews or "follow up*" or follow-up* or "check up*" or check-up* or monit*) adj3 (patient* or appoint* or clinic* or gp or routine or regular or assess* or hospital* or primary care or consult*)).ti,ab.
20	((hospital or frequent or frequency or periodic* or standardiz* or standardis* or out-patient or patient-initiated or GP-initiated or rheumatologist-initiated) adj2 (review or reviews or "follow up*" or follow-up* or "check up*" or check-up*)).ti,ab.
21	or/19-20
22	6 or 9 or 12 or 15 or 18 or 21

Embase search terms

1	exp oximetry/
2	oxygen therapy/ or exp home oxygen therapy/
3	oxygen saturation/
4	*oxygen/
5	((oxygen or o2) adj3 (manag* or assess* or saturation* or sats or therap* or review* or ambulat* or nocturnal* or measur* or transcutaneous)).ti,ab.
6	(oximetr* or ptc02 or tcp02 or ltot).ti,ab.

7	or/1-6
8	(breathless* or dyspnea* or (short* adj2 breath*)).ti,ab.
9	*dyspnea/
10	or/8-9
11	cough*.ti,ab.
12	*coughing/
13	or/11-12
14	fatigue/ or exp lassitude/
15	(fatigue* or lassitude).ti,ab.
16	or/14-15
17	palliative therapy/
18	(((best supportive or palliat*) adj2 (care or treat* or therap*)) or (symptom* adj2 (relie* or palliat*))).ti,ab.
19	or/17-18
20	((review or reviews or "follow up*" or follow-up* or "check up*" or check-up* or monit*) adj3 (patient* or appoint* or clinic* or gp or routine or regular or assess* or hospital* or primary care or consult*)).ti,ab.
21	((hospital or frequent or frequency or periodic* or standardiz* or standardis* or out-patient or patient-initiated or GP-initiated or rheumatologist-initiated) adj2 (review or reviews or "follow up*" or follow-up* or "check up*" or check-up*)).ti,ab.
22	or/20-21
23	7 or 10 or 13 or 16 or 19 or 22

Cinahl search terms

S1	(MH "Oximetry+") OR (MH "Oxygen Therapy") OR (MH "Home Oxygen Therapy") OR (MH "Oxygen Saturation") OR (MH "Oxygen")
S2	((oxygen or o2) n3 (manag* or assess* or saturation* or sats or therap* or review* or ambulat* or nocturnal* or measur* or transcutaneous))
S3	oximetr* or ptc02 or tcp02 or ltot
S4	(MH "Dyspnea") OR (MH "Cough") OR (MH "Fatigue") OR (MH "Palliative Care") OR (MH "After Care")
S5	(breathless* or dyspnea* or (short* n2 breath*))
S6	cough* OR fatigue* OR lassitude
S7	(((best supportive or palliat*) n2 (care or treat* or therap*)) or (symptom* n2 (relie* or palliat*)))
S8	((review or reviews or "follow up*" or follow-up* or "check up*" or check-up* or monit*) n3 (patient* or appoint* or clinic* or gp or routine or regular or assess* or hospital* or primary care or consult*))
S9	((hospital or frequent or frequency or periodic* or standardiz* or standardis* or out-patient or patient-initiated or GP-initiated or rheumatologist-initiated) n2 (review or reviews or "follow up*" or follow-up* or "check up*" or check-up*))
S10	S1 or S2 or S3 or S4 or S5 or S6 or S7 or S8 or S9

Cochrane search terms

#1	MeSH descriptor Oximetry explode all trees
#2	MeSH descriptor Oxygen Inhalation Therapy, this term only
#3	MeSH descriptor Oxygen, this term only
#4	((oxygen or o2) NEAR/3 (manag* or assess* or saturation* or sats or therap* or review* or ambulat* or nocturnal* or measur* or transcutaneous)).ti,ab

#5	(oximetr* or ptc02 or tcp02 or ltot):ti,ab
#6	MeSH descriptor Dyspnea, this term only
#7	(breathless* or dyspnea* or (short* NEAR/2 breath*)):ti,ab
#8	MeSH descriptor Cough, this term only
#9	cough*:ti,ab
#10	MeSH descriptor Fatigue, this term only
#11	(fatigue* or lassitude):ti,ab
#12	MeSH descriptor Palliative Care, this term only
#13	((best supportive or palliat*) NEAR/2 (care or treat* or therap*)) or (symptom* NEAR/2 (relie* or palliat*)):ti,ab
#14	((review or reviews or "follow up*" or follow-up* or "check up*" or check-up* or monit*) NEAR/3 (patient* or appoint* or clinic* or gp or routine or regular or assess* or hospital* or primary care or consult*)):ti,ab
#15	((hospital or frequent or frequency or periodic* or standardiz* or standardis* or out-patient or patient-initiated or GP-initiated or rheumatologist-initiated) NEAR/2 (review or reviews or "follow up*" or follow-up* or "check up*" or check-up*)):ti,ab
#16	(#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)

A.3.8 Pulmonary rehabilitation

Searches for the following two questions were run as one search:

What are the benefits of pulmonary rehabilitation programmes for patients with confirmed IPF?

What is the optimal course content, setting and duration for patients referred for pulmonary rehab programmes?

Search constructed by combining the columns in the following table using the AND Boolean operator. For PsychInfo only the population terms were used.

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
ILD	Pulmonary rehabilitation		None, all study types considered	No date restriction. Search run up to 01/11/12

Pulmonary rehabilitation search terms

Medline search terms

1	(fatigue severity scale* or visual analog* scale*).ti,ab.
2	(Borg adj2 scale*).ti,ab.
3	((Dyspn?ea or illness) adj index).ti,ab.
4	(Daily adj2 activit* adj2 (life or living)).ti,ab.
5	(Exercise or Treadmill or bicycle or stepper or weights or ergometer or walk*).ti,ab.
6	((Physical or aerobic or endurance or strength or fitness or resistance) adj2 (activit* or train* or condition* or program* or regime*)).ti,ab.
7	((minute walk adj (test or distance)) or 6MWT or 6MWD).ti,ab.
8	(cycle ergometry or ICET).ti,ab.
9	Shuttle walk*.ti,ab.
10	((Pulmonary adj2 rehabilitat*) or (rehabilitat* adj2 program*)).ti,ab.

11	Written disclosure therap*.ti,ab.
12	(psycholog* or council* or counsel* or psychotherap*).ti,ab.
13	((Emotional or psychosocial) adj2 support).ti,ab.
14	((patient* or carer*) adj2 (information or education* or knowledge)).ti,ab.
15	((patient* or carer*) adj5 (leaflet* or pamphlet* or booklet* or website* or web site*)).ti,ab.
16	((multifactor* or multifacet* or managed care) adj program*).ti,ab.
17	(Diet* or nutrition*).ti,ab.
18	((Respiratory disease or George* respiratory) adj questionnaire*) or sgrq).ti,ab.
19	(WHOQOL-100 or whoqol100).ti,ab.
20	(Support adj group*).ti,ab.
21	(disease adj management adj program*).ti,ab.
22	*Exercise Test/
23	exp Exercise Tolerance/
24	exp Exercise Movement Techniques/
25	*Exercise/
26	*Walking/
27	Physical endurance/
28	Exercise therapy/
29	Rehabilitation/
30	Rehabilitation centers/
31	Severity of illness index/
32	Activities of daily living/
33	Managed care programs/
34	Patient Education as Topic/
35	exp Consumer Health Information/
36	Access to Information/
37	Information services/
38	Pamphlets/
39	Counseling/
40	exp Psychotherapy/
41	exp diet/
42	exp nutrition therapy/
43	or/1-42

Embase search terms

1	(fatigue severity scale* or visual analog* scale*).ti,ab.
2	(Borg adj2 scale*).ti,ab.
3	((Dyspn?ea or illness) adj index).ti,ab.
4	(Daily adj2 activit* adj2 (life or living)).ti,ab.
5	(Exercise or Treadmill or bicycle or stepper or weights or ergometer or walk*).ti,ab.
6	((Physical or aerobic or endurance or strength or fitness or resistance) adj2 (activit* or train* or condition* or program* or regime*)).ti,ab.
7	((minute walk adj (test or distance)) or 6MWT or 6MWD).ti,ab.
8	(cycle ergometry or ICET).ti,ab.
9	Shuttle walk*.ti,ab.
10	((Pulmonary adj2 rehabilitat*) or (rehabilitat* adj2 program*)).ti,ab.

11	Written disclosure therap*.ti,ab.
12	(psycholog* or council* or counsel* or psychotherap*).ti,ab.
13	((Emotional or psychosocial) adj2 support).ti,ab.
14	((patient* or carer*) adj2 (information or education* or knowledge)).ti,ab.
15	((patient* or carer*) adj5 (leaflet* or pamphlet* or booklet* or website* or web site*)).ti,ab.
16	((multifactor* or multifacet* or managed care) adj program*).ti,ab.
17	(Diet* or nutrition*).ti,ab.
18	((Respiratory disease or George* respiratory) adj questionnaire*) or sgrq).ti,ab.
19	(WHOQOL-100 or whoqol100).ti,ab.
20	(Support adj group*).ti,ab.
21	(disease adj management adj program*).ti,ab.
22	*Exercise/
23	*Exercise test/
24	exp Exercise tolerance/
25	Muscle training/
26	exp Pulmonary rehabilitation/
27	Rehabilitation/
28	Pulmonary Rehabilitation Program/
29	*Walking/
30	Rehabilitation center/
31	Daily life activity/
32	patient education/
33	patient information/
34	information service/
35	medical information/
36	health literacy/
37	exp Counseling/
38	exp psychotherapy/
39	*nutrition/
40	exp diet/
41	exp diet therapy/
42	or/1-41

Cinahl search terms

S1	Exercise or Treadmill or bicycle or stepper or weights or ergometer or walk*
S2	psycholog* or council* or counsel* or psychotherap* or psychosocial or emotional or pulmonary rehabilitat*
S3	(MH "Rehabilitation, Pulmonary+") OR (MH "Rehabilitation Centers+") OR (MH "Patient Education")
S4	(patient* n2 information) or (patient* n2 education*) or (patient* n2 knowledge*)
S5	(MH "Nutrition Education") OR diet* OR nutrition*
S6	(MH "Nutritional Counseling") OR (MH "Counseling") OR shuttle walk*
S7	(MH "Diet") OR (MH "Nutrition") OR fatigue severity scale*
S8	visual analog* scale* OR Borg N2 scale OR daily N2 activit*
S9	written disclosure therap* OR managed care program* OR (MH "Managed Care Programs")
S10	(MH "Walking") OR (MH "Activities of Daily Living+") OR (MH "Exercise+") OR (MH "Physical

	Endurance+")
S11	S1 or S2 or S3 or S4 or S5 or S6 or S7 or S8 or S9 or S10

Cochrane search terms

#1	(Exercis* or Treadmill or bicycle or stepper or weights or ergometer or walk*):ti,ab
#2	((Physical or aerobic or endurance or strength or fitness or resistance) NEAR/2 (activit* or train* or condition* or program* or regime*)):ti,ab
#3	(6MWT or 6MWD):ti,ab
#4	(minute walk NEXT (test or distance)):ti,ab
#5	((cycle NEXT ergometry) or ICET):ti,ab
#6	(Shuttle NEXT walk*):ti,ab
#7	((Pulmonary NEAR/2 rehabilitat*) or (rehabilitat* NEAR/2 program*)):ti,ab
#8	(Written NEXT disclosure NEXT therap*):ti,ab
#9	(psycholog* or council* or counsel* or psychotherap*):ti,ab
#10	((Emotional or psychosocial) NEAR/2 support):ti,ab
#11	((multifactor* or multifacet* or managed care) NEXT program*):ti,ab
#12	(Diet* or nutrition*):ti,ab
#13	((patient* or carer*) NEAR/2 (information or education* or knowledge)) AND rehabilitat*):ti,ab
#14	((patient* or carer*) NEAR/5 (leaflet* or pamphlet* or booklet* or website* or web site*) AND rehabilitat*):ti,ab
#15	MeSH descriptor Exercise Test, this term only
#16	MeSH descriptor Exercise Tolerance, this term only
#17	MeSH descriptor Exercise Movement Techniques explode all trees
#18	MeSH descriptor Exercise explode all trees
#19	MeSH descriptor Walking explode all trees
#20	MeSH descriptor Physical Endurance explode all trees
#21	MeSH descriptor Exercise Therapy explode all trees
#22	MeSH descriptor Rehabilitation explode all trees
#23	MeSH descriptor Managed Care Programs, this term only
#24	MeSH descriptor Patient Education as Topic explode all trees
#25	MeSH descriptor Consumer Health Information explode all trees
#26	MeSH descriptor Access to Information explode all trees
#27	MeSH descriptor Information Services explode all trees
#28	MeSH descriptor Pamphlets explode all trees
#29	MeSH descriptor Counseling explode all trees
#30	MeSH descriptor Psychotherapy explode all trees
#31	MeSH descriptor Diet explode all trees
#32	MeSH descriptor Nutrition Therapy explode all trees
#33	(#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 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32)

A.3.9 Pharmacological interventions

Searches for the following two questions were run as one search:

Which drug should be initiated first, for how long, and what combination in the treatment of IPF?

(sub-question) What is the clinical and cost effectiveness of pharmacological interventions to manage patients with suspected or confirmed IPF?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF	Pharmacological interventions		SRs, RCTs (Medline and Embase only)	No date restriction. Search run up to 01/11/12

Pharmacological intervention search terms

Medline search terms

1	Acetylcysteine/
2	(acetylcystein* or acetyl cystein* or acetadote or parvolex).ti,ab.
3	Azathioprine/
4	exp Immunosuppressive Agents/
5	(azathioprine or imuran or azasan or immunosuppress*).ti,ab.
6	(ambrisentan or volibris or letairis or bosentan or tracleer).ti,ab.
7	Glucocorticoids/ or Adrenal cortex hormones/ or Pregnadienetriols/ or Pregnediones/
8	Prednisolone/ or betamethasone/ or cortisone/ or dexamethasone/ or hydrocortisone/ or methylprednisolone/ or prednisone/ or triamcinolone/ or beclomethasone/ or budesonide/
9	(Prednisolone or prednisone or deltacotril or (pred adj forte) or methylprednisolone or depo medrol or lodotra or Deltastab or betamethasone or betnelan or betnesol).ti,ab.
10	(cortisone or deflazacort or calcort or dexamethasone or hydrocortisone).ti,ab.
11	(triamcinolone or Nasacort or adcortyl or kenalog or triderm or triacet or trivaris or triesence).ti,ab.
12	(Efcortisol or (Solu adj Cortef) or Medrone or (Solu adj Medrone) or Hydrocortistab or (Depo adj Medrone) or Adcortyl).ti,ab.
13	(beclometasone or beclomethasone or qvar or fostair or clenil or asmabec or beconase or pulvinal or becodisks or budesonide or budelin or budenofalk or pulmicort or symbicort or rhinocort or entocort).ti,ab.
14	(ciclesonide or alvesco or onnaris or fluticasone or flixotide or seretide or evohaler or veramyst or flovent or flonase or cutivate or advair or avamys or flixonase or pirinase or asmanex or elocon or nasonex).ti,ab.
15	(Glucocorticoid* or Corticosteroid* or Adrenal cortex hormone*).ti,ab.
16	Trimethoprim-Sulfamethoxazole Combination/
17	((trimethoprim adj2 sulfamethoxazole) or co trimoxazole or septrin).ti,ab.
18	(arzip or cellcept or mycophenolic or myfortic or mycophenolate).ti,ab.
19	mycophenolic acid/
20	Warfarin/
21	warfarin.ti,ab.
22	anticoagulants/ or antithrombins/
23	exp Acenocoumarol/
24	exp Phenindione/
25	exp Coumarins/
26	phenprocoumon/
27	(acenocoumarol or nicoumalone or phenprocoumon or phenindione or nicoumalone or acenocoumarin or sinthrome or sintrom or coumadin or coumarin* or hydroxycoumarin* or

	(anti adj coagulant*).ti,ab.
28	Proton pump inhibitors/
29	(proton adj3 pump* adj3 (inhibitor* or antagonist*).ti,ab.
30	Omeprazole/
31	(omeprazole or prilosec or nexium or esomeprazole or vimovo or losec or pantoprazole or protium or protonix or lansoprazole or prevacid or zoton or rabeprazole or pariet).ti,ab.
32	(sildenafil or viagra or revatio).ti,ab.
33	vasodilator*.ti,ab.
34	*Vasodilator Agents/
35	((phosphodiesterase adj2 inhibitor*) or avanafil or beminafil or dasantafil or gisadenafil or lodenafil or mirodenafil or tadalafil or udenafil or vardenafil).ti,ab.
36	or/1-35

Embase search terms

1	acetylcysteine/
2	(acetylcystein* or acetyl cystein* or acetadote or parvolex).ti,ab.
3	(azathioprine or imuran or azasan or immunosuppress*).ti,ab.
4	azathioprine/ or immunosuppressive agent/
5	(ambrisentan or volibris or letairis or bosentan or tracleer).ti,ab.
6	Glucocorticoid/
7	Corticosteroid/
8	Corticosteroid derivative/
9	Pregnane derivative/
10	Prednisolone/ or betamethasone/ or cortisone/deflazacort or dexamethasone/ or hydrocortisone/ or methylprednisolone/ or prednisone/ or triamcinolone/ or beclometasone/ or beclometasone dipropionate/ or beclometasone dipropionate plus salbutamol/ or budesonide/ or ciclesonide/
11	(Prednisolone or prednisone or deltacotril or (pred adj forte) or methylprednisolone or depo medrol or lodotra or Deltastab or betamethasone or betnelan or betnesol).ti,ab.
12	(cortisone or deflazacort or calcort or dexamethasone or hydrocortisone).ti,ab.
13	(triamcinolone or Nasacort or ad cortyl or kenalog or triderm or triacet or trivaris or triesence).ti,ab.
14	(Efcortisol or (Solu adj Cortef) or Medrone or (Solu adj Medrone) or Hydrocortistab or (Depo adj Medrone) or Adcortyl).ti,ab.
15	(beclometasone or beclomethasone or qvar or fostair or clenil or asmabec or beconase or pulvinal or becodisks or budesonide or budelin or budenofalk or pulmicort or symbicort or rhinocort or entocort).ti,ab.
16	(ciclesonide or alvesco or omnaris or fluticasone or flixotide or seretide or evohaler or veramyst or flovent or flonase or cutivate or advair or avamys or flixonase or pirinase or asmanex or elocon or nasonex).ti,ab.
17	(Glucocorticoid* or Corticosteroid* or Adrenal cortex hormone*).ti,ab.
18	((trimethoprim adj2 sulfamethoxazole) or co trimoxazole or septrin).ti,ab.
19	cotrimoxazole/
20	(arzip or cellcept or mycophenolic or myfortic or mycophenolate).ti,ab.
21	mycophenolic acid 2 morpholinoethyl ester/
22	warfarin/
23	warfarin.ti,ab.
24	(acenocoumarol or nicoumalone or phenindione or nicoumalone or acenocoumarin or sinthrome or sintrom or coumadin or coumarin* or hydroxycoumarin* or (anti adj

	coagulant*)).ti,ab.
25	exp coumarin/
26	anticoagulant agent/
27	exp phenindione/
28	exp acenocoumarol/
29	phenprocoumon/
30	exp coumarin anticoagulant/
31	phenprocoumon.ti,ab.
32	exp Proton pump inhibitor/
33	(proton adj3 pump* adj3 (inhibitor* or antagonist*)).ti,ab.
34	Esomeprazole/
35	Omeprazole/
36	Lansoprazole/
37	Rabeprazole/
38	pantoprazole/
39	(omeprazole or prilosec or nexium or esomeprazole or vimovo or losec or pantoprazole or protium or protonix or lansoprazole or prevacid or zoton or rabeprazole or pariet).ti,ab.
40	(sildenafil or viagra or revatio).ti,ab.
41	*sildenafil/
42	*phosphodiesterase V inhibitor/
43	phosphodiesterase v inhibitor/ or *avanafil/ or *beminafil/ or *dasantafil/ or *gisadenafil/ or *lodenafil/ or *mirodenafil/ or *sildenafil/ or *sildenafil nitrate/ or *tadalafil/ or *udenafil/ or *vardenafil/
44	((phosphodiesterase adj2 inhibitor*) or avanafil or beminafil or dasantafil or gisadenafil or lodenafil or mirodenafil or tadalafil or udenafil or vardenafil).ti,ab.
45	or/1-44

Cochrane search terms

#1	(acetylcystein* or (acetyl NEXT cystein*) or acetadote or parvolex):ti,ab
#2	MeSH descriptor Acetylcysteine explode all trees
#3	(azathioprine or imuran or azasan or immunosuppress*):ti,ab
#4	MeSH descriptor Azathioprine explode all trees
#5	MeSH descriptor Immunosuppressive Agents explode all trees
#6	(ambrisentan or volibris or letairis or bosentan or tracleer):ti,ab,kw
#7	MeSH descriptor Glucocorticoids explode all trees
#8	MeSH descriptor Adrenal Cortex Hormones explode all trees
#9	MeSH descriptor Pregnadienetriols explode all trees
#10	MeSH descriptor Pregnenediones explode all trees
#11	MeSH descriptor Prednisolone explode all trees
#12	MeSH descriptor Betamethasone explode all trees
#13	MeSH descriptor Cortisone explode all trees
#14	MeSH descriptor Dexamethasone explode all trees
#15	MeSH descriptor Hydrocortisone explode all trees
#16	MeSH descriptor Methylprednisolone explode all trees
#17	MeSH descriptor Prednisone explode all trees
#18	MeSH descriptor Triamcinolone explode all trees
#19	MeSH descriptor Beclomethasone explode all trees

#20	MeSH descriptor Budesonide explode all trees
#21	(Prednisolone or prednisone or deltacotril or (pred adj forte) or methylprednisolone or (depo medrol) or Iodotra or Deltastab or betamethasone or betnelan or betnesol):ti,ab
#22	(cortisone or deflazacort or calcort or dexamethasone or hydrocortisone):ti,ab
#23	(triamcinolone or Nasacort or ad cortyl or kenalog or triderm or triacet or trivaris or triesence):ti,ab
#24	(Efcortisol or (Solu NEXT Cortef) or Medrone or (Solu NEXT Medrone) or Hydrocortistab or (Depo NEXT Medrone) or Adcortyl):ti,ab
#25	(beclometasone or beclomethasone or qvar or fostair or clenil or asmabec or beconase or pulvinal or becodisks or budesonide or budelin or budenofalk or pulmicort or symbicort or rhinocort or entocort):ti,ab
#26	(ciclesonide or alvesco or omnaris or fluticasone or flixotide or seretide or evohaler or veramyst or flovent or flonase or cutivate or advair or avamys or flixonase or pirinase or asmanex or elocon or nasonex):ti,ab
#27	(Glucocorticoid* or Corticosteroid* or (Adrenal cortex hormone*)):ti,ab
#28	((trimethoprim adj2 sulfamethoxazole) or (co trimoxazole)):ti,ab
#29	MeSH descriptor Trimethoprim-Sulfamethoxazole Combination explode all trees
#30	(arzip or cellcept or mycophenolic or myfortic or mycophenolate):ti,ab
#31	MeSH descriptor Mycophenolic Acid explode all trees
#32	(warfarin):ti,ab,kw
#33	MeSH descriptor Warfarin, this term only
#34	(acenocoumarol or nicoumalone or phenprocoumon or phenindione or nicoumalone or acenocoumarin or sinthrome or sintrom or coumadin or coumarin* or hydroxycoumarin* or (anti adj coagulant*)):ti,ab
#35	MeSH descriptor Anticoagulants explode all trees
#36	MeSH descriptor Antithrombins explode all trees
#37	MeSH descriptor Acenocoumarol explode all trees
#38	MeSH descriptor Phenindione, this term only
#39	MeSH descriptor Coumarins explode all trees
#40	MeSH descriptor Phenprocoumon, this term only
#41	MeSH descriptor Proton Pump Inhibitors explode all trees
#42	MeSH descriptor Omeprazole explode all trees
#43	(omeprazole or prilosec or nexium or esomeprazole or vimovo or losec or pantoprazole or protium or protonix or lansoprazole or prevacid or zoton or rabeprazole or pariet):ti,ab
#44	((phosphodiesterase adj2 inhibitor*) or avanafil or beminafil or dasantafil or gisadenafil or lodenafil or mirodenafil or tadalafil or udenafil or vardenafil or sildenafil or viagra or revatio or vasodilator*):ti,ab,kw
#45	MeSH descriptor Vasodilator Agents explode all trees
#46	(proton NEAR/3 pump* NEAR/3 (inhibitor* or antagonist*)):ti,ab
#47	(#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 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45 OR #46)

A.3.10 Pharmacological interventions: adverse events

Which measures can be taken to minimize the occurrence/severity of adverse events when undergoing pharmacological treatment for IPF?"

Search constructed by combining the columns in the following table using the AND Boolean operator

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Literature search strategies

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF OR Azathioprine	TPMT		None, all study types considered	No date restriction. Search run up to 01/11/12

Azathioprine search terms

Medline search terms

1	(az#thiopri* or azasan or azamune or im?uran or imure#).ti,ab.
2	exp Azathioprine/
3	1 or 2

Embase search terms

1	exp azathioprine/
2	(az#thiopri* or azasan or azamune or im?uran or imure#).ti,ab.
3	1 or 2

Cochrane search terms

#1	(az?thiopri* or azasan or azamune or imuran or immuran or imurel or imurek or imuren):ti,ab
#2	MeSH descriptor Azathioprine explode all trees
#3	#1 OR #2

TMPT search terms

Medline search terms

1	*Methyltransferases/
2	((thiopurine adj2 methyltransferase) or (methyl adj2 methyl transferase) or tpmt).ti,ab.
3	1 or 2

Embase search terms

1	exp thiopurine methyltransferase/ or *methyltransferase/
2	((thiopurine adj2 methyltransferase) or (thiopurine adj2 methyl transferase) or tpmt).ti,ab.
3	1 or 2

Cochrane search terms

#1	((thiopurine NEAR/2 methyl) NEXT transferase):ti,ab
#2	tpmt:ti,ab
#3	(thiopurine NEAR/2 methyltransferase):ti,ab
#4	MeSH descriptor Methyltransferases, this term only
#5	#1 OR #2 OR #3 OR #4

A.3.11 Lung transplantation

At what time points in the IPF care pathway should a patient be considered for referral for lung transplantation?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF	Lung transplantation		SRs, RCTs,	No date

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Literature search strategies

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
			observational (Medline and Embase only)	restriction. Search run up to 01/11/12

Lung transplantation search terms

Medline search terms

1	lung transplantation/
2	(lung* adj3 (transplant* or graft*)):ti,ab.
3	or/1-2
4	"referral and consultation"/
5	time factors/
6	(prognos* or time or timing or early or earlier or late or later or refer* or consult* or criteri* or indicat* or assess*):ti,ab.
7	or/4-6
8	3 and 7

Embase search terms

1	*lung transplantation/
2	(lung* adj3 (transplant* or graft*)):ti,ab.
3	or/1-2
4	*patient referral/
5	time/
6	(prognos* or time or timing or early or earlier or late or later or refer* or consult* or criteri* or indicat* or assess*):ti,ab.
7	or/4-6
8	3 and 7

Cochrane search terms

#1	MeSH descriptor Lung Transplantation, this term only
#2	(lung* NEAR/3 (transplant* or graft*)):ti,ab
#3	(#1 OR #2)

A.3.12 Ventilation

In acute or acute-on chronic respiratory failure in patients with IPF, what is the value of non-invasive and invasive ventilation?

Search constructed by combining the columns in the following table using the AND Boolean operator

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
IPF	Ventilation		SRs, RCTs, observational (Medline and Embase only)	No date restriction. Search run up to 01/11/12

Ventilation search terms

Medline search terms

1	exp Respiration, Artificial/
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Literature search strategies

2	exp Ventilators, Mechanical/
3	((ventilat* or respirat*) adj2 (mechanical* or artificial* or assist* or invasive or noninvasive or non-invasive)).ti,ab.
4	((pressure support or high frequenc* or jet or oscillat* or liquid) adj1 ventilat*).ti,ab.
5	(bipap or nippv or nppv or niv or niav or cpap or aprv or ippb or ippv or peep or ipap or epap).ti,ab.
6	(positive airway pressure or (positive pressure adj (ventilati* or breath*)) or airway pressure release ventilation or positive end expiratory pressure).ti,ab.
7	(noalung or ecmo or (extracorporeal* adj2 membrane* adj2 oxygenat*)).ti,ab.
8	extracorporeal membrane oxygenation/
9	Oxygenators, Membrane/
10	or/1-9

Embase search terms

1	exp *artificial ventilation/
2	exp ventilator/
3	((ventilat* or respirat*) adj2 (mechanical* or artificial* or assist* or invasive or noninvasive or non-invasive)).ti,ab.
4	((pressure support or high frequenc* or jet or oscillat* or liquid) adj1 ventilat*).ti,ab.
5	(bipap or nippv or nppv or niv or niav or cpap or aprv or ippb or ippv or peep or ipap or epap).ti,ab.
6	(positive airway pressure or (positive pressure adj (ventilati* or breath*)) or airway pressure release ventilation or positive end expiratory pressure).ti,ab.
7	extracorporeal oxygenation/
8	oxygenator/
9	(noalung or ecmo or (extracorporeal* adj2 membrane* adj2 oxygenat*)).ti,ab.
10	or/1-9

Cochrane search terms

#1	MeSH descriptor Respiration, Artificial explode all trees
#2	MeSH descriptor Ventilators, Mechanical explode all trees
#3	((ventilat* or respirat*) NEAR/2 (mechanical* or artificial* or assist* or invasive or noninvasive or non-invasive)):ti,b
#4	((pressure support or high frequenc* or jet or oscillat* or liquid) NEAR ventilat*):ti,ab
#5	(bipap or nippv or nppv or niv or niav or cpap or aprv or ippb or ippv or peep or ipap or epap):ti,ab
#6	(positive airway pressure or ((positive pressure) NEXT (ventilati* or breath*)) or airway pressure release ventilation or positive end expiratory pressure):ti,ab
#7	MeSH descriptor Extracorporeal Membrane Oxygenation, this term only
#8	MeSH descriptor Oxygenators, Membrane, this term only
#9	(noalung or ecmo or (extracorporeal* NEAR/2 membrane* NEAR/2 oxygenat*)):ti,ab
#10	(#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9)

A.4 Economics search

Economic searches were conducted in Medline, Embase, HEED and CRD for NHS EED and HTA.

Population	Intervention / exposure	Comparison	Study filter used	Date parameters
ILD			Economic, economic	No date

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Population	Intervention / exposure	Comparison	Study filter used	Date parameters
			modelling, quality of life, disease progression (Medline and Embase only)	restriction. Search run up to 01/11/12. Economic filter in Medline and Embase limited to 2010 - 01/11/12

CRD search terms

#1	MeSH DESCRIPTOR Lung Diseases, Interstitial EXPLODE ALL TREES WITH QUALIFIER undefined
#2	MeSH DESCRIPTOR Pulmonary Fibrosis EXPLODE ALL TREES WITH QUALIFIER undefined
#3	(interstitial near pneumonia*) IN NHSEED, HTA
#4	(interstitial near lung disease*) IN NHSEED, HTA
#5	(pulmonary near fibros*) IN NHSEED, HTA
#6	(alveoliti*) IN NHSEED, HTA
#7	#1 OR #2 OR #3 OR #4 OR #5 OR #6

HEED search terms

1	ax=interstitial
2	ax=pulmonary AND fibros*
3	ax=alveoliti*
4	ax=Pneumoconiosis
5	ax=Pneumonitis
6	ax=Sarcoidosis
7	ax=Wegener Granulomatosis
8	ax=lung AND fibros*
9	ax=organizing AND pneumonia
10	cs=1 or 2 or 3 or 4 or 5 or 6 or 7 or 8