

Search strategy

We performed comprehensive searches of the following electronic databases: MEDLINE, EMBASE, Science Citation Index Expanded, pre-MEDLINE, Cochrane Central Register of Controlled Trials (CENTRAL) and Database for Abstracts of Reviews of Effectiveness, Health Economic Evaluations Database, LILACS, National Health Service Economic Evaluations Database, AMED and CINAHL from 1966-December 2010 using a combination of MESH headings and keywords. Ongoing trials registers- www.ClinicalTrials.gov and www.who.int/trialsearch were also searched. Furthermore the following websites were also searched: www.cam.org.nz, www.controlledtrials.com, www.rccm.org.uk/ciscom/CISCOM_intro.aspx and the US food and Drug administration website. Hand searching of journals and conference proceedings for the last 3 years and searching BIOSIS Previews and the Conference Papers Index was conducted. In addition, hand searching of the 3 key respiratory journals THORAX, American Journal of Respiratory and Critical Care Medicine, CHEST for the last 3 years was conducted and of the reference lists of all included papers. The search was updated to September 2011 after all analysis was completed. Study authors were contacted to obtain full reports where abstracts only were available or when further information was required (authors were contacted twice in a month period). No language restrictions were imposed during the searches and translation obtained where needed.

- MEDLINE searched using Ovid interface

Interventions

1. exp idiopathic interstitial pneumonias/ or exp pulmonary fibrosis/
2. (((fibrotic NSIP) or (fibrotic lung disease) or (fibrotic non-specific interstitial pneumonia) or (fibrotic non specific interstitial pneumonia) or (pulmonary fibrosis) or IPF or (cryptogenic fibrosing alveolitis) or (interstitial pneumonia) or UIP or IIP) not cystic fibrosis).mp. [mp=title, original title, abstract, name of substance word, subject heading word, unique identifier]
3. 1 or 2
4. animal/
5. human/
6. 4 not (4 and 5)
7. 3 not 6

Appendix 1 Search strategy

8. (Prednisolone or Methylprednisolone or steroid\$ or corticosteroid\$).mp. or exp prednisolone/ or N-acetylcysteine.mp. or NAC.mp. or acetylcysteine.mp. or exp acetylcysteine/ or azathioprine.mp. or exp azathioprine/ or cyclophosphamide.mp. or exp cyclophosphamide/ or pirfenidone.mp. or exp pyridines/ or interferon gamma 1 b.mp. or IFN.mp. or Interferon-gamma-1b.mp. or IFN-1b.mp. or exp interferon/ or colchicine.mp. or exp colchicine/ or penicillamine.mp. or exp penicillamine/ or exp cyclosporins/ or cyclosporin\$.mp. or Etanercept.mp. or tumor necrosis factor\$.mp. or tumor necrosis factor alpha.mp. or TNF\$.mp. or endothelin-1 antagonist\$.mp. or endothelin 1 antagonist\$.mp. or endothelin antagonist\$.mp. or ET-1 antagonist\$.mp. or ET 1 antagonist\$.mp. or ET receptor antagonist\$.mp. or endothelin receptor antagonist\$.mp. or Bosentan.mp. or exp warfarin/ or Warfarin.mp. or low molecular weight heparin.mp. or LMWH.mp. or exp Heparin/ or exp Heparin, Low-Molecular-Weight/ or Heparin.mp. or lansoprazole.mp. or omeprazole.mp. or exp omeprazole/ or Ranitidine.mp. or histamine H2 receptor antagonist.mp. or exp ranitidine/ or exp proton pump inhibitor/ or proton pump inhibitor.mp. or exp oxygen/ or exp oxygen inhalation therapy/ or O2.mp. or exp oxygen consumption/ or oxygen.mp. or oxygen therapy.mp. or oxygen inhalation therapy.mp. or oxygen consumption.mp. or pharmacological intervention\$.mp. or intervention.mp. [mp=title, original title, abstract, name of substance word, subject heading word, unique identifier]

9. ((exp nursing/ or exp nursing care/ or nursing.mp. or nursing care.mp. or nursing intervention\$.mp. or exp Physical Therapy Techniques/ or physical therap\$.mp. or exp "Physical Therapy (Specialty)"/ or exp exercise therapy/ or kinesiotherapy.mp. or exp Exercise movement techniques/ or exercise movement technique\$.mp. or exercise technique.mp. or exercise therapy.mp. or breathing technique\$.mp. or exp respiratory therapy/ or pulmonary rehabilitation.mp. or breathing exercise\$.mp. or exp breathing exercises/ or physiotherapy.mp. or physiotherap\$.mp. or fan.mp. or exp complementary therapies/ or Complementary therap\$.mp. or complementary medicin\$.mp. or Alternative medicin\$.mp. or Alternative therap\$.mp. or yoga.mp. or meditation.mp. or acupuncture.mp. or acupressure.mp. or massage.mp. or exp musculoskeletal manipulations/ or musculoskeletal manipulation\$.mp. or exp Mind-Body/ or mind.mp.) and body.mp.) or mind-body.mp. or exp relaxation therapy/ or relaxation therapy.mp. or Relaxation Techniques.mp. or reflexology.mp. or relaxation.mp. or hypnosis.mp. or exp nutrition/ or nutrition.mp. or exp self-care/ or self care.mp. or self-help.mp. or self help.mp. or self-care.mp. or self-management.mp. or self management.mp. or exp

counselling/ or counsel#ing.mp. or exp psychotherapy/ or psychotherapy.mp. or Non-pharmacological intervention\$.mp. [mp=title, original title, abstract, name of substance word, subject heading word, unique identifier]

10. exp antidepressive agents/ or antidepressive agent\$.mp. or antidepressant\$.mp.

11. (amesergide or amineptine or amitriptyline or amoxapine or benactyzine or brofaromine or bupropion or butriptyline or cianopramine or citalopram or clomipramine or clorgyline or clovoxamine or demexiptiline or desipramine or dibenzepin or dimetacrin\$ or dosulepin or dothiepin or doxepin or etoperidone or femoxetine or fezolamine or fluoxetine or flupenthixol or fluphenazine or fluvoxamine or ifoxetine or imipramine or iprindole or iproniazid or phosphate or isocarboxazid or levoprotiline or lofepramine or l-tryptophan or maprotiline or medifoxamide or melitracen or metapramine or mianserin or milnacipran or minaprine or mirtazepine or moclobemide or nefazodone or nialamide or nomifensine or nortriptyline or opipramo or oxaflozane or oxaprotiline or oxitriptan or paroxetine or phenelzine or pirlindole or propizepine or protriptyline or quinupramine or reboxetine or rolipram or rubidium or sertraline or setiptiline or sibutramine or sulphiride or teniloxazine or tianeptine or tofenacin or toloxatone or tranlycypromine or trazodone or trimipramine or tryptophan or venlafaxine or viloxazine or viqualine or zimeldine).mp. [mp=title, original title, abstract, name of substance word, subject heading word, unique identifier]

12. exp benzodiazepines/ or anxiolytic\$.mp. or benzodiazepine\$.mp. or adinazolam.mp. or alprazolam.mp. or bentazepam.mp. or bromazepam.mp. or brotizolam.mp. or chlordiazepoxide.mp. or cinolazepam.mp. or clobazam.mp. or clonazepam.mp. or clorazepate.mp. or clotiazepam.mp. or cloxazolam.mp. or delorazepam.mp. or demoxepam.mp. or desmethyldiazepam.mp. or diazepam.mp. or estazolam.mp. or etizolam.mp. or etozolam.mp. or fludiazepam.mp. or flunitrazepam.mp. or flurazepam.mp. or flutoprazepam.mp. or halazepam.mp. or haloxazolam.mp. or ketazolam.mp. or loprazolam.mp. or lorazepam.mp. or lormetazepam.mp. or medazepam.mp. or metaclazepam.mp. or mexazolam.mp. or midazolam.mp. or nimetazepam.mp. or nitrazepam.mp. or nordazepam.mp. or oxazepam.mp. or oxazolam.mp. or pinazepam.mp. or prazepam.mp. or quazepam.mp. or temazepam.mp. or tetrazepam.mp. or tofisopam.mp. or triazolam.mp. or abecarnil.mp. or alpha hydroxymidazolam.mp. or alpidem.mp. or bretazenil.mp. or camazepam.mp. or chlorazepam.mp. or dealkylflurazepam.mp. or eszopiclone.mp. or ethyl loflazepate.mp. or imidazenil.mp. or ketazolam.mp. or loflazeplate.mp. or norchlordiazepoxide.mp. or

norclobazam.mp. or paglone.mp. or persumbran.mp. or phenazepam.mp. or
premazepam.mp. or suproclone.mp. or suriclone.mp. or tuclazepam.mp. or zaleplon.mp.
or zapizolam.mp. or zolazepam.mp. or zolpidem.mp. or zopiclone.mp. [mp=title, original
title, abstract, name of substance word, subject heading word, unique identifier]

13. exp Analgesics, Opioid/

14. (morphine or fentanyl or hydromorphone, or oxycodone, or pentazocine or methadone
or opioid or opiate or opioids or opiates or codeine or dextromoramide or OTFC or
diamorphine or dihydrocodeine or dextropropoxyphene or meptazinol or sufentanil or
alfentanil or remifentanil or nalbuphine or meptazinol or dipipanone or pethidine or
tramadol or buprenorphine).mp. [mp=title, original title, abstract, name of substance
word, subject heading word, unique identifier]

15. or/8-14

16. 7 and 15

17. Lung Diseases, Interstitial/dt, nu, rh, su, th, pc, dh, px or idiopathic interstitial
pneumonias/dt, nu, rh, su, th, pc, dh, px or idiopathic pulmonary fibrosis/dt, nu, rh, su, th,
pc, dh, px or pulmonary fibrosis/dt, nu, rh, su, th, pc, dh, px

18. 16 or 17

19. exp Evaluation Studies as Topic/

20. evaluation.mp.

21. 19 or 20

22. 18 and 21

Economic

1. exp idiopathic interstitial pneumonias/ or exp pulmonary fibrosis/

2. ((fibrotic NSIP or fibrotic lung disease or fibrotic non-specific interstitial pneumonia or
fibrotic non specific interstitial pneumonia or pulmonary fibrosis or IPF or cryptogenic
fibrosing alveolitis or interstitial pneumonia or UIP or IIP) not cystic fibrosis).mp. [mp=title,
original title, abstract, name of substance word, subject heading word, unique identifier]

3. 1 or 2

4. animal/

5. human/

6. 4 not (4 and 5)

7. 3 not 6

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8. Economics/ or "costs and cost analysis"/ or cost allocation/ or cost-benefit analysis/ or cost control/ or cost savings/ or cost of illness/ or cost sharing/ or "deductibles and coinsurance"/ or medical savings accounts/ or health care costs/ or direct service costs/ or drug costs/ or employer health costs/ or hospital costs/ or health expenditures/ or capital expenditures/ or value of life/ or exp economics, hospital/ or exp economics, medical/ or economics, nursing/ or economics, pharmaceutical/ or exp "fees and charges"/ or exp budgets/ or (low cost).mp. or (high adj cost).mp. or (health?care cost\$).mp. or (fiscal or funding or financial or finance).tw. or (cost estimate\$).mp. or (cost variable).mp. or (unit cost\$).mp. or (economic\$ or pharmacoeconomic\$ or price\$ or pricing).tw.

9. 7 and 8

Data extraction

One author (SB) screened all titles and abstracts. When multiple reports of a study were identified, they were treated as a single study and reference made to the full text if available. A Project Advisory Group and other experts in the field were asked to check the list to identify any known missing studies. A selection of papers were piloted using a data extraction sheet by applying the inclusion criteria to a sample of papers in order to check that they could be reliably interpreted and that they classified the studies appropriately. A data extraction sheet was completed for each paper passing the inclusion/exclusion stage. 2 authors (SB and JRR) extracted the data from all the full papers identified by SB except for the non-English papers for which data was extracted by SB in conjunction with translators. Disagreements for all papers were resolved by iteration and consensus. Data collected included study design, subject characteristics and study results as they pertained to the prespecified endpoints. Data for primary endpoints as stated by the authors has been extracted and presented.