

Appendix 1: Search strategy

Overview of searched databases in the first search:

Database	Interface	Date:
G-I-N International		11.07.2013
NICE (UK)		11.07.2013
National Guideline Clearinghouse (USA)		09.07.2013
Scottish Intercollegiate Guidelines Network (SIGN)		09.07.2013
HTA Database		09.07.2013
The Cochrane Library		09. 07 2013
SBU, Sweden		09.07.2013
Socialstyrelsen, Sweden		11.07.2013
Helsedirektoratet, Norway		10.07.2013
Kunnskapscentret, Norway		10. 07.2013
Pedro		12.07.2013
OT-Seeker		10. 07.2013

Database	Interface	Date:
Medline	Ovid	16.07.2013
EMBASE	Ovid	17.07.2013
CINAHL	Ebsco	16.07.2013
PSYCINFO	OVID	15.07.2013

Search strategy

G-I-N international, 35 records

<http://www.g-i-n.net>

Search strategy

chronic obstruct* OR copd OR coad, 35 records
chronic pulm*, no new findings
chronic lung, no new findings
chronic airway* no new findings

NICE: 53 records

<http://www.nice.org.uk>

Search strategy

COPD + guidance, 20 records
COAD + guidance, 1 record, no new findings
obstructive + guidance + respiratory (Condition and diseases), 26 records, 16 new records
chronic obstructive + guidance + respiratory, 18 records , 1 new records
chronic obstructive + guidance, 35 records, 13 new records
chronic obstructive pulmonale + guidance, 2 records, no new findings
chronic obstructive lung + guidance, 26 records, no new findings
chronic obstructive airway + guidance, 18 records, 3 new records

National Guideline Clearing house: 151 records

<http://www.guideline.gov>

Search strategy: 'chronic obstructive pulmonary or copd or coad or chronic obstructive lung or chronic obstructive airway'

Scottish Intercollegiate Guidelines Network (SIGN): 8 records

Search strategy: Respiratory Medicine

The HTA-database: 74 records

<http://www.crd.york.ac.uk/CRDWeb/>

Search strategy:

Line	Search	Hits	
1	MeSH DESCRIPTOR Pulmonary Disease, Chronic Obstructive EXPLODE ALL TREES	376	Delete
2	* IN HTA FROM 2002 TO 2013	9073	Delete
3	#1 AND #2	51	Delete
4	(copd) OR (coad) IN HTA FROM 2002 TO 2013	46	Delete
5	(lung) OR (pulmon*) OR (airway*) IN HTA FROM 2002 TO	450	Delete

	2013		
6	(chronic) AND (obstruct*) IN HTA FROM 2002 TO 2013	80	Delete
7	#5 AND #6	71	Delete
8	#3 OR #4 OR #7	74	Delete

SBU, Sweden, 4 records

<http://www.sbu.se/sv/>

Search strategy:

kol, 4 records, but only 2 relevant records

kroniskt obstruktiv lungsjukdom 4 records 3 duplicates, 1 new record.

kronisk lunge, no new findings

kronisk obstruktiv, no new findings

lunge, 20 records, 1 new record

Luftvägssjukdom, 1 record, but not relevant

Socialstyrelsen, Sweden, 16 records

<http://www.socialstyrelsen.se>

Search strategy:

kroniskt obstruktiv lungsjukdom + publikationer, 5, records

kroniskt obstruktiv lungsjukdom + Föreskrifter och allmänna råd, 1 record

KOL + publikationer, 6 records

KOL + Nyheter og konferencer, 4 records

Helsedirektoratet, Norway, 3 records

<http://helsedirektoratet.no>

Search strategy:

KOLS + Publikasjoner, 1 record

Lungesykdommer, 2 records

Kunnskapssenteret, Norway, 23 records

<http://www.kunnskapssenteret.no>

Search strategy:

KOLS + Publikasjoner, 20 records

KOLS + Prosjekter, 0 records

KOLS + Rehabilitering, 0 records

Lungesykdom + Rehabilitering, 0 records

KOLS + kvalitetsforbedring, 1 record, but no new

Lungesykdom + kvalitetsforbedring, 0 records

kronisk obstruktiv lungesykdom + Publikasjoner, 10 records, 3 new records

kronisk obstruktiv lungesykdom + Prosjekter, 0 records

lungesykdom + prosjekter, 0 records

Pedro, 174 records

<http://www.pedro.org.au>

Search strategy:

Topic: chronic respiratory disease + Practice guideline, 30 records

Topic: chronic respiratory disease + Systematic review, 144 records

OT-Seeker, 35 records fund

<http://www.otseeker.com>

Search strategy:

copd OR coad OR chronic obstructive* + Systematic Review 35 records

obstruct* AND lung + systematic review, 7 records, no new findings

obstruct* AND pulmon* + systematic review, 33 records, no new findings

obstruct* AND airway* + systematic review, 8 records, 1 new record, but not relevant.

The Cochrane Library: 275 records fund (80 reviews and 195 other reviews)

<http://www.thecochranelibrary.com/>

Search strategy:

#1 MeSH descriptor: [Pulmonary Disease, Chronic Obstructive] explode all trees

#2 pulmonary:ti,ab,kw (Word variations have been searched)

#3 lung:ti,ab,kw (Word variations have been searched)

#4 airway:ti,ab,kw (Word variations have been searched)

#5 #2 or #3 or #4

#6 chronic obstructive:ti,ab,kw (Word variations have been searched)

#7 #5 and #6

#8 #1 or #7

Medline (OVID), 275 records fund

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present>

Search Strategy:

-
- 1 exp Pulmonary Disease, Chronic Obstructive/ or (copd or coad).mp. (33486)
 - 2 (obstruct* and (pulmon* or lung or airway* or airflow*)).mp. (98524)
 - 3 1 and 2 (31238)
 - 4 1 or 3 (33486)
 - 5 exp guideline/ or guideline*.ti. (62221)
 - 6 4 and 5 (442)
 - 7 limit 6 to ((danish or english or norwegian or swedish) and yr="2002 – Current") (275)

EMBASE (OVID), 1174 records fund

Database: Embase <1974 to 2013 Week 28>

Search Strategy:

-
- 1 exp *chronic obstructive lung disease/ (40865)
 - 2 practice guideline/ or guideline*.mp. (376951)

3 1 and 2 (2329)
 4 limit 3 to ((danish or english or norwegian or swedish) and yr="2002 -Current") (1602)
 5 exp chronic obstructive lung disease/ or (copd or coad).mp. (74316)
 6 (obstruct* and (pulmon* or lung or airway* or airflow*)).mp. (143296)
 7 5 or 6 (148101)
 8 practice guideline/ or guideline*.mp. (376951)
 9 7 and 8 (6031)
 10 limit 9 to ((danish or english or norwegian or swedish) and yr="2013 -Current") (270)
 11 4 or 10 (1785)
 12 exp rehabilitation/ or (rehab* or occupational therap*).mp. (320155)
 13 exp physiotherapy/ or (physical therap* or physiotherap*).mp. (71685)
 14 12 or 13 (370613)
 15 fitness/ or endurance/ or (physical endurance or physical function).mp. (47768)
 16 exp exercise/ or exercise test/ or exp walking/ or (walking or shuttle walking test*).mp.
 (301013)
 17 15 or 16 (328028)
 18 exp smoking cessation/ or smoking.mp. (273075)
 19 exp nutritional status/ or nutrition/ or exp diet therapy/ or (nutrition* or diet).mp. (731951)
 20 body mass/ or (body mass or BMI).mp. (241743)
 21 19 or 20 (918999)
 22 patient education/ or social support/ (134596)
 23 adaptive behavior/ or coping behavior/ or empowerment/ (78274)
 24 patient participation/ or exp self care/ (60926)
 25 (psychological adaption or coping or empowerment or Self Management or adherence).mp.
 (166798)
 26 22 or 23 or 24 or 25 (359619)
 27 14 or 17 or 18 or 21 or 26 (2016728)
 28 11 and 27 (959)
 29 chronic obstructive lung disease/rh, th and (practice guideline/ or guideline*.mp.) (919)
 30 28 or 29 (1529)
 31 limit 30 to ((danish or english or norwegian or swedish) and yr="2002 -Current") (1174)

CINAHL (EBSCO Host), 404 records fund

Search strategy:

Search ID#	Search Terms	Search Options	Last Run Via	Results
S11	S6 AND S9	Limiters - Published Date from: 20020101-20131231; Language: Danish, English, Norwegian, Swedish Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	404
S10	S6 AND S9	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	464
S9	S7 OR S8	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	39,717
S8	TI guideline*	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	18,324
S7	(MH "Practice Guidelines")	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	30,146
S6	S1 OR S2 OR S5	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	16,134
S5	S3 AND S4	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	15,714
S4	obstruct*	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	23,334
S3	pulmon* OR lung OR airway* OR airflow*	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	75,205
S2	copd OR coad	Search modes - Boolean/Phrase	Interface - EBSCOhost Search Screen - Advanced Search Database - CINAHL with Full Text	5,355
S1	(MH "Pulmonary Disease,	Search modes - Boolean/Phrase	Interface - EBSCOhost	6,618

	Chronic Obstructive+")		Search Screen - Advanced Search Database - CINAHL with Full Text	
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PsycINFO, 55 records fund

Database: PsycINFO <1806 to July Week 2 2013>

Search Strategy:

-
- 1 exp Chronic Obstructive Pulmonary Disease/ (681)
 - 2 (copd or coad).mp. (849)
 - 3 (obstruct* and (pulmon* or lung or airway*)).mp. (2177)
 - 4 1 or 2 or 3 (2399)
 - 5 treatment guidelines/ (3872)
 - 6 guideline*.mp. (40056)
 - 7 5 or 6 (40056)
 - 8 4 and 7 (61)
 - 9 limit 8 to ((danish or english or norwegian or swedish) and yr="2002 – Current") (55)

Second search:

Systematic Reviews, Meta-analysis and guidelines

Medline og Embase, 134 records fund, after duplicate search: 108 records.

Search conducted: 11.11.2013

Medline, 46 records fund.

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present> Search Strategy:

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1      exp Pulmonary Disease, Chronic Obstructive/ or (copd or coad).mp. (35070)
2      Weight Lifting/ (4003)
3      exp Resistance Training/ (3134)
4      motion therapy, continuous passive/ or muscle stretching exercises/ (1465)
5      static exercise.ti,ab. (423)
6      muscle training.ti,ab. (1484)
7      isometric exercise*.ti,ab. (1611)
8      isokinetic exercise*.ti,ab. (234)
9      (anaerobic exercise* or aerobic exercise*).ti,ab. (5505)
10     Strength training.ti,ab. (2930)
11     workout*.ti,ab. (656)
12     body building.ti,ab. (170)
13     exp Muscle Strength/ (17870)
14     2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 (34948)
15     1 and 14 (468)
16     meta-analysis/ (51581)
17     exp guideline/ (25320)
18     (systematic review or meta analysis).ti,ab. (86887)
19     exp Evidence-Based Medicine/ (55611)
20     16 or 17 or 18 or 19 (177722)
21     15 and 20 (41)
22     limit 15 to (guideline or meta analysis or practice guideline or systematic
reviews) (44)
23     21 or 22 (46)
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Embase, 88 records fund

Database: Embase <1980 to 2013 Week 45>

Search Strategy:

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1      exp Pulmonary Disease, Chronic Obstructive/ or (copd or coad).mp. (75361)  
2      exp resistance training/ (4683)  
3      exp weight lifting/ (3744)  
4      arm exercise/ or isokinetic exercise/ or isometric exercise/ or muscle  
training/ or static exercise/ (10072)  
5      workout*.ti,ab. (845)  
6      (anaerobic exercise* or aerobic exercise*).ti,ab. (6705)  
7      Strength training.ti,ab. (3313)  
8      body building.ti,ab. (280)  
9      muscle training.ti,ab. (1828)  
10     muscle stretching.ti,ab. (277)  
11     exp muscle strength/ (30912)  
12     2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 (52574)  
13     1 and 12 (1266)  
14     evidence based medicine/ or consensus development/ or meta analysis/ or  
"meta analysis (topic)"/ or outcomes  
research/ or "systematic review"/ or "systematic review (topic)"/ (271326)  
15     13 and 14 (103)  
16     limit 13 to (evidence based medicine or concensus development or meta  
analysis or outcomes research or  
"systematic review") (96)  
17     15 or 16 (103)  
18     limit 17 to ((danish or english or norwegian or swedish) and yr="2002 -  
Current") (87)  
19     (systematic review or meta analysis).ti. (63018)  
20     14 or 19 (284674)  
21     13 and 20 (106)  
22     16 or 21 (106)  
23     limit 22 to ((danish or english or norwegian or swedish) and yr="2002 -  
Current") (88)
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Randomized Controlled Trials

Search in MEDLINE and EMBASE . Search conducted: 27.11.2013. We found 1254 records, after duplicate search we found 750 records.

Medline, 649 records found.

Database: Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) <1946 to Present> Search Strategy:

- 1 Weight Lifting/ (4008)
- 2 exp Resistance Training/ (3160)
- 3 motion therapy, continuous passive/ or muscle stretching exercises/ (1472)
- 4 static exercise.ti,ab. (424)
- 5 muscle training.ti,ab. (1488)
- 6 isometric exercise*.ti,ab. (1613)
- 7 isokinetic exercise*.ti,ab. (235)
- 8 (anaerobic exercise* or aerobic exercise*).ti,ab. (5532)
- 9 Strength training.ti,ab. (2947)
- 10 workout*.ti,ab. (663)
- 11 body building.ti,ab. (170)
- 12 exp Muscle Strength/ (17961)
- 13 exp Exercise Movement Techniques/ (5321)
- 14 exp *Exercise Test/ (14746)
- 15 Exercise Tolerance/ (8505)
- 16 *Physical Endurance/ (8937)
- 17 (exercise adj (testing or tolerance or capacity)).ti,ab. (20868)
- 18 ((stress or treadmill or step) adj testing).ti,ab. (4933)
- 19 (shuttle adj2 walk*).ti,ab. (389)
- 20 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 (83767)
- 21 exp Pulmonary Disease, Chronic Obstructive/ (24710)
- 22 (chronic obstructive pulmonary disease or coad or copd).ti,ab. (38238)
- 23 (chronic obstructive lung disease or lung disease chronic
- obstructive).ti,ab. (3034)
- 24 21 or 22 or 23 (44777)
- 25 20 and 24 (3311)
- 26 randomized controlled trial/ or ((randomized or randomised) adj2
- trial).ti,ab. or rct.ti,ab. (425466)
- 27 25 and 26 (687)
- 28 limit 27 to (danish or english or norwegian or swedish) (649)

Embase , 605 records found

Database: Embase <1974 to 2013 November 26> Search Strategy:

- 1 exp resistance training/ (4781)
- 2 exp weight lifting/ (3821)
- 3 arm exercise/ or isokinetic exercise/ or isometric exercise/ or muscle training/ or static exercise/ (10353)
- 4 workout*.ti,ab. (855)
- 5 (anaerobic exercise* or aerobic exercise*).ti,ab. (6756)
- 6 Strength training.ti,ab. (3357)
- 7 body building.ti,ab. (286)
- 8 muscle training.ti,ab. (1864)
- 9 muscle stretching.ti,ab. (289)
- 10 muscle training/ (4714)
- 11 exp *kinesiotherapy/ (22914)
- 12 exp *exercise/ or exp muscle exercise/ (104828)
- 13 (exercise adj (testing or tolerance or capacity)).ti,ab. (26741)
- 14 ((stress or treadmill or step) adj testing).ti,ab. (6442)
- 15 (shuttle adj2 walk*).ti,ab. (536)
- 16 exercise tolerance/ (10823)
- 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 (162372)
- 18 exp chronic obstructive lung disease/ (70846)
- 19 (chronic obstructive pulmonary disease or coad or copd).ti,ab. (49748)
- 20 (chronic obstructive lung disease or lung disease chronic obstructive).ti,ab. (4080)
- 21 18 or 19 or 20 (81194)
- 22 17 and 21 (5021)
- 23 randomized controlled trial/ or ((randomized or randomised) adj2 trial).ti,ab. or rct.ti,ab. (414459)
- 24 22 and 23 (655)
- 25 limit 24 to (danish or english or norwegian or swedish) (605)

PEDRO, 89 records found

We found 89 records, after duplicate search: 18 new records.

Search conducted: 11.12.2013

Search strategy:

Therapy: strength training AND topic: chronic respiratory disease AND Method: clinical trial

From year 2002 -