

GUIDELINES ON THE MANAGEMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME

APPENDIX C Search Strategies

Corticosteroids

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

Search Strategy:

- 1 Respiratory Distress Syndrome, Adult/ (15019)
- 2 (Acute respiratory distress syndrome or ARDS).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (11702)
- 3 Acute Lung Injury/ (3445)
- 4 acute lung injur*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (10240)
- 5 1 or 2 or 3 or 4 (25825)
- 6 Adrenal Cortex Hormones/ (53249)
- 7 exp Glucocorticoids/ (163726)
- 8 Hydrocortisone/ (62508)
- 9 Steroids/ (29457)
- 10 (steroid* or corticosteroid* or hydrocortisone* or prednisolone* or methylprednisolone* or adrenal cortex hormone*).mp. [mp=title, abstract, original title, name of substance word, subject

heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (449954)

- 11 6 or 7 or 8 or 9 or 10 (526979)
- 12 randomized controlled trial.pt. (385095)
- 13 controlled clinical trial.pt. (88634)
- 14 randomized.ab. (309616)
- 15 placebo.ab. (158197)
- 16 drug therapy.fs. (1738271)
- 17 randomly.ab. (224291)
- 18 trial.ab. (319470)
- 19 groups.ab. (1415986)
- 20 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 (3452244)
- 21 exp animals/ not humans.sh. (3987626)
- 22 20 not 21 (2964113)
- 23 Meta-Analysis as Topic/ (13962)
- 24 meta analy\$.tw. (71177)
- 25 metaanaly\$.tw. (1402)
- 26 Meta-Analysis/ (53211)
- 27 (systematic adj (review\$1 or overview\$1)).tw. (61687)
- 28 exp Review Literature as Topic/ (7822)
- 29 or/23-28 (136300)
- 30 cochrane.ab. (34170)
- 31 embase.ab. (33676)

- 32 (psychlit or psyclit).ab. (881)
- 33 (psychinfo or psycinfo).ab. (8613)
- 34 (cinahl or cinhal).ab. (11525)
- 35 science citation index.ab. (2101)
- 36 bids.ab. (366)
- 37 cancerlit.ab. (587)
- 38 or/30-37 (54229)
- 39 reference list\$.ab. (10550)
- 40 bibliograph\$.ab. (12240)
- 41 hand-search\$.ab. (4250)
- 42 relevant journals.ab. (760)
- 43 manual search\$.ab. (2588)
- 44 or/39-43 (27220)
- 45 selection criteria.ab. (20781)
- 46 data extraction.ab. (10620)
- 47 45 or 46 (29748)
- 48 Review/ (1938264)
- 49 47 and 48 (19641)
- 50 Comment/ (612687)
- 51 Letter/ (863943)
- 52 Editorial/ (369912)
- 53 animal/ (5384245) 54
human/ (13704402)

- 55 53 not (53 and 54) (3894169)
- 56 or/50-52,55 (5221063)
- 57 29 or 38 or 44 or 49 (165657)
- 58 57 not 56 (155494)
- 59 22 or 58 (3051732)
- 60 5 and 11 and 59 (716)

Database: Embase <1980 to 2015 Week 08>

Search Strategy:

-
- 1 respiratory distress syndrome/ (10469)
 - 2 (Acute respiratory distress syndrome or ARDS).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (17653)
 - 3 acute lung injury/ (8639)
 - 4 acute lung injur*.mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (15872)
 - 5 1 or 2 or 3 or 4 (38516)
 - 6 corticosteroid/ (180262)
 - 7 hydrocortisone/ (96665)
 - 8 methylprednisolone/ (68441)
 - 9 prednisolone/ (95533)
 - 10 (corticosteroid or hydrocortisone or prednisolone or methylprednisolone).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] (432920)

- 11 6 or 7 or 8 or 9 or 10 (432920)
- 12 5 and 11 (3128)
- 13 neonatal.mp. (191347)
- 14 Infant, Newborn/ (459451)
- 15 13 or 14 (549475)
- 16 12 not 15 (2626)
- 17 Clinical trial/ (840467)
- 18 Randomized controlled trial/ (360662)
- 19 Randomization/ (64922)
- 20 Single blind procedure/ (19530)
- 21 Double blind procedure/ (117973)
- 22 Crossover procedure/ (41616)
- 23 Placebo/ (252546)
- 24 Randomized controlled trial\$.tw. (109865)
- 25 Rct.tw. (15973)
- 26 Random allocation.tw. (1370)
- 27 Randomly allocated.tw. (21567)
- 28 Allocated randomly.tw. (1988)
- 29 (allocated adj2 random).tw. (720)
- 30 Single blind\$.tw. (15263)
- 31 Double blind\$.tw. (147413)
- 32 ((treble or triple) adj blind\$.tw. (423)
- 33 Placebo\$.tw. (208731)

- 34 Prospective study/ (276273)
- 35 or/17-34 (1424552)
- 36 Case study/ (30370)
- 37 Case report.tw. (274578)
- 38 Abstract report/ or letter/ (914878)
- 39 or/36-38 (1213714)
- 40 35 not 39 (1385873)
- 41 exp Meta Analysis/ (88360)
- 42 ((meta adj analy\$) or metaanalys\$.tw. (93016)
- 43 (systematic adj (review\$1 or overview\$1)).tw. (75414)
- 44 or/41-43 (171399)
- 45 cancerlit.ab. (654)
- 46 cochrane.ab. (41180)
- 47 embase.ab. (39954)
- 48 (psychlit or psyclit).ab. (949)
- 49 (psychinfo or psycinfo).ab. (9747)
- 50 (cinahl or cinhal).ab. (12583)
- 51 science citation index.ab. (2258)
- 52 bids.ab. (462)
- 53 or/45-52 (65241)
- 54 reference lists.ab. (10465)
- 55 bibliograph\$.ab. (14768)
- 56 hand-search\$.ab. (4941)

- 57 manual search\$.ab. (2981)
- 58 relevant journals.ab. (874)
- 59 or/54-58 (30580)
- 60 data extraction.ab. (12739)
- 61 selection criteria.ab. (20413)
- 62 60 or 61 (31964)
- 63 review.pt. (2001700)
- 64 62 and 63 (16529)
- 65 letter.pt. (864271)
- 66 editorial.pt. (463033)
- 67 animal/ (1600510)
- 68 human/ (15378173)
- 69 67 not (67 and 68) (1209339)
- 70 or/65-66,69 (2522420)
- 71 44 or 53 or 59 or 64 (207554)
- 72 71 not 70 (200778)
- 73 40 or 72 (1500218)
- 74 16 and 73 (603)

Database - Web of Science Science Citation Index Expanded, 1900 – present

#11	#10 AND #7 <i>Doc Type=All document types; Language=All languages;</i>
#10	#9 OR #8 <i>Doc Type=All document types; Language=All languages;</i>

#9	TOPIC: (randomised controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study) <i>DocType=All document types; Language=All languages;</i>
#8	TOPIC: (randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#7	#6 AND #1 <i>DocType=All document types; Language=All languages;</i>
#6	#5 OR #4 OR #3 OR #2 <i>DocType=All document types; Language=All languages;</i>
#5	TOPIC: (adrenal cortex hormone*) <i>DocType=All document types; Language=All languages;</i>
#4	TOPIC: (glucocorticoid*) <i>DocType=All document types; Language=All languages;</i>
#3	TOPIC: (steroid*) <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (corticosteroid or hydrocortisone or prednisolone or methylprednisolone) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute respiratory distress syndrome or ARDS or acute lung injur*) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] explode all trees
- #2 Acute respiratory distress syndrome or ARDS:ti,ab,kw (Word variations have been searched)
- #3 MeSH descriptor: [Acute Lung Injury] explode all trees
- #4 acute lung injur*:ti,ab,kw (Word variations have been searched)
- #5 #1 or #2 or #3 or #4
- #6 MeSH descriptor: [Adrenal Cortex Hormones] explode all trees
- #7 MeSH descriptor: [Glucocorticoids] explode all trees
- #8 MeSH descriptor: [Hydrocortisone] explode all trees
- #9 MeSH descriptor: [Steroids] explode all trees
- #10 glucocorticoid* or corticosteroid or hydrocortisone or prednisolone or methylprednisolone or steroid* or adrenal cortex hormone*:ti,ab,kw (Word variations have been searched)
- #11 #6 or #7 or #8 or #9 or #10
- #12 #5 and #11

Extra-corporeal Membrane Oxygenation

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

Search Strategy:

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1 Respiratory Distress Syndrome, Adult/ (15774)
2 Acute Lung Injury/ (3935)
3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, original title, name
of substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease
supplementary concept word, unique identifier] (20999)
4 1 or 2 or 3 (27495)
5 Extracorporeal Membrane Oxygenation/ (6315)
6 (ECMO or Extracorporeal membrane oxygenation or Extracorporeal life
support).mp. [mp=title, abstract, original
title, name of substance word, subject heading word, keyword heading word,
protocol supplementary concept word, rare
disease supplementary concept word, unique identifier] (8918)
7 5 or 6 (8918)
8 4 and 7 (1154)
9 Randomized Controlled Trials as Topic/ (100023)
10 randomized controlled trial/ (404219)
11 Random Allocation/ (84984)
12 Double Blind Method/ (132336)
13 Single Blind Method/ (21119)
14 clinical trial/ (495979)
15 clinical trial, phase i.pt. (15436)
16 clinical trial, phase ii.pt. (24993)
17 clinical trial, phase iii.pt. (10496)
18 clinical trial, phase iv.pt. (1095)
19 controlled clinical trial.pt. (89993)
20 randomized controlled trial.pt. (404219)
21 multicenter study.pt. (192036)
22 clinical trial.pt. (495979)
23 exp Clinical Trials as topic/ (286053)
24 or/9-23 (1095801)
25 (clinical adj trial\$.tw. (245368)
26 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw.
(138470)
27 PLACEBOS/ (32947)
28 placebo\$.tw. (170880)
29 randomly allocated.tw. (19501)
30 (allocated adj2 random\$).tw. (22239)
31 or/25-30 (464032)

32 24 or 31 (1267498)
33 case report.tw. (228166)
34 letter/ (898543)
35 historical article/ (325476)
36 or/33-35 (1439595)
37 32 not 36 (1236760)
38 8 and 37 (119)
39 Meta-Analysis as Topic/ (14384)
40 meta analy\$.tw. (83450)
41 metaanaly\$.tw. (1532)
42 Meta-Analysis/ (60367)
43 (systematic adj (review\$1 or overview\$1)).tw. (73703)
44 exp Review Literature as Topic/ (8303)
45 or/39-44 (156399)
46 cochrane.ab. (39972)
47 embase.ab. (40284)
48 (psychlit or psyclit).ab. (879)
49 (psychinfo or psycinfo).ab. (10675)
50 (cinahl or cinhal).ab. (13360)
51 science citation index.ab. (2251)
52 bids.ab. (379)
53 cancerlit.ab. (597)
54 or/46-53 (64397)
55 reference list\$.ab. (11635)
56 bibliograph\$.ab. (12979)
57 hand-search\$.ab. (4630)
58 relevant journals.ab. (837)
59 manual search\$.ab. (2844)
60 or/55-59 (29511)
61 selection criteria.ab. (22246)
62 data extraction.ab. (11761)
63 61 or 62 (32242)
64 Review/ (2052169)
65 63 and 64 (21367)
66 Comment/ (647755)
67 Letter/ (898543)
68 Editorial/ (391611)
69 animal/ (5743229)
70 human/ (15593111)
71 69 not (69 and 70) (4140900)
72 or/66-68,71 (5532017)
73 45 or 54 or 60 or 65 (188856)
74 73 not 72 (177736)
75 37 or 74 (1359840)
76 8 and 75 (134)

Database: Embase <1974 to 2016 January 22> Search Strategy:

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1 adult respiratory distress syndrome/ (25013)
2 acute lung injury/ (10493)
3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, heading word, drug

trade name, original title, device manufacturer, drug manufacturer, device
trade name, keyword] (33909)
4 1 or 2 or 3 (43747)
5 extracorporeal oxygenation/ (12435)
6 (ECMO or Extracorporeal membrane oxygenation or Extracorporeal life
support).mp. [mp=title, abstract, heading
word, drug trade name, original title, device manufacturer, drug manufacturer,
device trade name, keyword] (11878)
7 5 or 6 (16118)
8 4 and 7 (2258)
9 Clinical trial/ (856401)
10 Randomized controlled trial/ (393047)
11 Randomization/ (69020)
12 Single blind procedure/ (21363)
13 Double blind procedure/ (127998)
14 Crossover procedure/ (45729)
15 Placebo/ (281745)
16 Randomized controlled trial\$.tw. (128691)
17 Rct.tw. (19258)
18 Random allocation.tw. (1519)
19 Randomly allocated.tw. (24068)
20 Allocated randomly.tw. (2099)
21 (allocated adj2 random).tw. (828)
22 Single blind\$.tw. (17084)
23 Double blind\$.tw. (164656)
24 ((treble or triple) adj blind\$).tw. (542)
25 Placebo\$.tw. (231749)
26 Prospective study/ (318900)
27 or/9-26 (1551565)
28 Case study/ (36028)
29 Case report.tw. (307145)
30 Abstract report/ or letter/ (965704)
31 or/28-30 (1302128)
32 27 not 31 (1510730)
33 8 and 32 (256)
34 exp Meta Analysis/ (103339)
35 ((meta adj analy\$) or metaanalys\$.tw. (112720)
36 (systematic adj (review\$1 or overview\$1)).tw. (92926)
37 or/34-36 (201793)
38 cancerlit.ab. (669)
39 cochrane.ab. (49755)
40 embase.ab. (49800)
41 (psychlit or psyclit).ab. (960)
42 (psychinfo or psycinfo).ab. (11721)
43 (cinahl or cinhal).ab. (15179)
44 science citation index.ab. (2490)
45 bids.ab. (494)
46 or/38-45 (79250)
47 reference lists.ab. (11951)
48 bibliograph\$.ab. (16636)
49 hand-search\$.ab. (5509)
50 manual search\$.ab. (3353)
51 relevant journals.ab. (949)
52 or/47-51 (34561)
53 data extraction.ab. (14572)
54 selection criteria.ab. (23349)

55 53 or 54 (36546)
 56 review.pt. (2122142)
 57 55 and 56 (17623)
 58 letter.pt. (921221)
 59 editorial.pt. (497946)
 60 animal/ (1698017)
 61 human/ (16503740)
 62 60 not (60 and 61) (1276973)
 63 or/58-59,62 (2680744)
 64 37 or 46 or 52 or 57 (241954)
 65 64 not 63 (234364)
 66 32 or 65 (1650331)
 67 33 and 66 (256)

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i>
#4	TOPIC: (randomized controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#3	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (ECMO or Extracorporeal membrane oxygenation or Extracorporeal life support) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

#1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] explode all trees
 #2 MeSH descriptor: [Acute Lung Injury] explode all trees
 #3 Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)
 #4 #1 or #2 or #3
 #5 MeSH descriptor: [Extracorporeal Membrane Oxygenation] explode all trees
 #6 ECMO or Extracorporeal membrane oxygenation or Extracorporeal life support:ti,ab,kw (Word variations have been searched)
 #7 #5 or #6
 #8 #4 and #7

Extra-corporeal Carbon Dioxide Removal

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

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- 1 Respiratory Distress Syndrome, Adult/ (15425)
- 2 Acute Lung Injury/ (3829)
- 3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, original title, name
of substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease supplementary concept word, unique
identifier] (20602)
- 4 1 or 2 or 3 (26907)
- 5 (ECCO2R or Extracorporeal CO2 Removal or Extracorporeal Carbon dioxide
Removal or low flow CO2 removal or
respiratory dialysis).mp. [mp=title, abstract, original title, name of
substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease supplementary concept word, unique
identifier] (215)
- 6 4 and 5 (101)

Database: Embase <1974 to 2015 July 08>
Search Strategy:

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- 1 adult respiratory distress syndrome/ (23248)
- 2 acute lung injury/ (9247)
- 3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, heading word, drug
trade name, original title, device manufacturer, drug manufacturer, device
trade name, keyword] (31060)
- 4 1 or 2 or 3 (40560)
- 5 (ECCO2R or Extracorporeal CO2 Removal or Extracorporeal Carbon dioxide
Removal or low flow CO2 removal or
respiratory dialysis).mp. [mp=title, abstract, heading word, drug trade name,
original title, device manufacturer, drug
manufacturer, device trade name, keyword] (327)
- 6 4 and 5 (148)

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i>
#4	TOPIC: (randomized controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#3	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (ECCO2R or Extracorporeal CO2 Removal or Extracorporeal Carbon dioxide Removal or low flow CO2 removal or respiratory dialysis) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute respiratory distress syndrome or ARDS or acute lung injur*) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] this term only
- #2 MeSH descriptor: [Acute Lung Injury] this term only
- #3 Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)
- #4 #1 or #2 or #3
- #5 ECCO2R or Extracorporeal CO2 Removal or Extracorporeal Carbon dioxide Removal or low flow CO2 removal or respiratory dialysis:ti,ab,kw (Word variations have been searched)
- #6 #4 and #5

30 (allocated adj2 random\$.tw. (21969)
31 or/25-30 (463047)
32 24 or 31 (1273187)
33 case report.tw. (222868)
34 letter/ (943012)
35 historical article/ (322740)
36 or/33-35 (1475844)
37 32 not 36 (1238917)
38 Meta-Analysis as Topic/ (14731)
39 meta analy\$.tw. (79502)
40 metaanaly\$.tw. (1481)
41 Meta-Analysis/ (58360)
42 (systematic adj (review\$1 or overview\$1)).tw. (68919)
43 exp Review Literature as Topic/ (8267)
44 or/38-43 (150073)
45 cochrane.ab. (37777)
46 embase.ab. (37707)
47 (psyclit or psyclit).ab. (891)
48 (psychinfo or psycinfo).ab. (9778)
49 (cinahl or cinhal).ab. (12702)
50 science citation index.ab. (2256)
51 bids.ab. (380)
52 cancerlit.ab. (601)
53 or/45-52 (60321)
54 reference list\$.ab. (11343)
55 bibliograph\$.ab. (12769)
56 hand-search\$.ab. (4508)
57 relevant journals.ab. (818)
58 manual search\$.ab. (2773)
59 or/54-58 (28867)
60 selection criteria.ab. (22025)
61 data extraction.ab. (11391)
62 60 or 61 (31658)
63 Review/ (2016902)
64 62 and 63 (20700)
65 Comment/ (660462)
66 Letter/ (943012)
67 Editorial/ (390838)
68 animal/ (5541415)
69 human/ (14235019)
70 68 not (68 and 69) (3987802)
71 or/65-67,70 (5423051)
72 44 or 53 or 59 or 64 (181254)
73 72 not 71 (170203)
74 37 or 73 (1355073)
75 8 and 74 (548)

Database: Embase <1974 to 2015 July 23>
Search Strategy:

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1 Acute Lung Injury/ (9294)
2 Respiratory Distress Syndrome, Adult/ (20371)
3 (Acute Respiratory Distress Syndrome or ARDS or Acute Lung Injur*).mp.
[mp=title, abstract, heading word, drug
trade name, original title, device manufacturer, drug manufacturer, device
trade name, keyword] (31217)
4 1 or 2 or 3 (39804)
5 Tidal Volume/ (14175)
6 (Tidal volume or protective ventilation or low* tidal protective
mechanical ventilation or low airway
pressure).mp. [mp=title, abstract, heading word, drug trade name, original
title, device manufacturer, drug manufacturer, device trade name, keyword]
(19969)
7 5 or 6 (19969)
8 4 and 7 (3394)
9 Clinical trial/ (852012)
10 Randomized controlled trial/ (380237)
11 Randomization/ (67235)
12 Single blind procedure/ (20612)
13 Double blind procedure/ (124537)
14 Crossover procedure/ (43738)
15 Placebo/ (272726)
16 Randomized controlled trial\$.tw. (120449)
17 Rct.tw. (17681)
18 Random allocation.tw. (1472)
19 Randomly allocated.tw. (23100)
20 Allocated randomly.tw. (2057)
21 (allocated adj2 random).tw. (812)
22 Single blind\$.tw. (16351)
23 Double blind\$.tw. (159297)
24 ((treble or triple) adj blind\$.tw. (487)
25 Placebo\$.tw. (223102)
26 Prospective study/ (299472)
27 or/9-26 (1503101)
28 Case study/ (32882)
29 Case report.tw. (295929)
30 Abstract report/ or letter/ (949781)
31 or/28-30 (1272194)
32 27 not 31 (1463115)
33 exp Meta Analysis/ (96448)
34 ((meta adj analy\$) or metaanalys\$.tw. (103449)
35 (systematic adj (review\$1 or overview\$1)).tw. (84773)
36 or/33-35 (187883)
37 cancerlit.ab. (666)
38 cochrane.ab. (45946)
39 embase.ab. (45293)
40 (psychlit or psyclit).ab. (955)
41 (psychinfo or psycinfo).ab. (10818)
42 (cinahl or cinhal).ab. (14065)
43 science citation index.ab. (2444)
44 bids.ab. (487)
45 or/37-44 (72926)

- 46 reference lists.ab. (11366)
 - 47 bibliograph\$.ab. (16198)
 - 48 hand-search\$.ab. (5276)
 - 49 manual search\$.ab. (3174)
 - 50 relevant journals.ab. (930)
 - 51 or/46-50 (33271)
 - 52 data extraction.ab. (13677)
 - 53 selection criteria.ab. (22154)
 - 54 52 or 53 (34521)
 - 55 review.pt. (2079263)
 - 56 54 and 55 (17213)
 - 57 letter.pt. (899302)
 - 58 editorial.pt. (484600)
 - 59 animal/ (1679155)
 - 60 human/ (16019643)
 - 61 59 not (59 and 60) (1263362)
 - 62 or/57-58,61 (2632203)
 - 63 36 or 45 or 51 or 56 (226649)
 - 64 63 not 62 (219373)
 - 65 32 or 64 (1591402)
 - 66 8 and 65 (738)
-

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i> TOPIC: (randomized controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups)
#4	<i>DocType=All document types; Language=All languages;</i>
#3	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (Tidal volume or protective ventilation or low* tidal protective mechanical ventilation or low airway pressure) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute Respiratory Distress Syndrome or ARDS or Acute Lung Injur*) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] this term only
- #2 MeSH descriptor: [Acute Lung Injury] this term only
- #3 Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)
- #4 #1 or #2 or #3
- #5 MeSH descriptor: [Tidal Volume] this term only
- #6 Tidal volume or protective ventilation or low* tidal protective mechanical ventilation or low airway pressure:ti,ab,kw (Word variations have been searched)
- #7 #5 or #6
- #8 #4 and #7

Fluid Management

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

Search Strategy:

- 1 Respiratory Distress Syndrome, Adult/
2 Acute Lung Injury/
3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, original title, name
of substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 4 1 or 2 or 3
- 5 Fluid Therapy/
6 Infusions, Parenteral/
7 infusions, intravenous/
8 (fluid* adj2 therap*).mp. [mp=title, abstract, original title, name of
substance word, subject heading word,
keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 9 (infus* adj2 intraven*).mp. [mp=title, abstract, original title, name of
substance word, subject heading word,
keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 10 (infus* adj2 parenter*).mp. [mp=title, abstract, original title, name
of substance word, subject heading word,
keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 11 (infus* adj2 intraoss*).mp. [mp=title, abstract, original title, name
of substance word, subject heading word,
keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 12 (intraven* adj2 drip*).mp. [mp=title, abstract, original title, name of
substance word, subject heading word,
keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 13 (iv adj2 bolus).mp. [mp=title, abstract, original title, name of
substance word, subject heading word, keyword
heading word, protocol supplementary concept word, rare disease supplementary
concept word, unique identifier]
- 14 (intraven* adj2 bolus).mp. [mp=title, abstract, original title, name of
substance word, subject heading word,
keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 15 (fluid* adj2 replac*).mp. [mp=title, abstract, original title, name of
substance word, subject heading word,
keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
(2555)
- 16 (fluid* adj2 restor*).mp. [mp=title, abstract, original title, name of
substance word, subject heading word,

keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

17 (fluid* adj2 administ*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

18 (fluid* adj2 manag*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

19 (volum* adj2 restor*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

20 (fluid* adj2 resuscitat*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

21 (fluid* adj2 restrict*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier]

22 exp diuretics/
 23 furosemide/
 24 furosemid*.tw.
 25 frusemid*.tw.
 26 ultrafiltrat*.tw.
 27 catheterization, swan-ganz/
 28 (catheter* adj2 swan-ganz).tw.
 29 (catheter* adj2 swanganz).tw.
 30 (pulmonary adj3 catheter*).tw.
 31 exp water-electrolyte balance/
 32 (water-electrolyte adj2 balanc*).tw.
 33 (water-electrolyte adj2 imbalanc*).tw.
 34 (fluid* adj2 balanc*).tw.
 35 (fluid* adj2 imbalanc*).tw.
 36 (water adj2 balanc*).tw.
 37 (water adj2 imbalanc*).tw.
 38 extravascular lung water/
 39 (extravascul* adj2 water).tw.
 40 thermodilution/
 41 thermodilut*.tw.
 42 hemodynamics/
 43 hemodynam*.tw.
 44 (lithium adj2 dilut*).tw.
 45 (pulse adj2 contour\$ analy*).tw.
 46 (#esophag* adj2 doppler).tw.
 47 picco.tw.
 48 (stroke adj2 volume adj2 varia*).tw.
 49 (stroke adj2 volume adj2 change\$).tw.
 50 (stroke adj2 volume adj2 adjust*).tw.
 51 (stroke adj2 volume adj2 alter*).tw.
 52 (pulse adj2 pressure adj2 varia*).tw.
 53 (pulse adj2 pressure adj2 change\$).tw.
 54 (pulse adj2 pressure adj2 adjust*).tw.
 55 (pulse adj2 pressure adj2 alter*).tw.

56 pulmonary wedge pressure/
57 (pulmonary adj2 wedge adj2 pressur*).tw.
58 exp colloids/
59 colloid*.tw.
60 hetastarch/
61 hetastarch*.tw.
62 sodium chloride/
63 sodium chloride.tw.
64 crystalloid*.tw.
65 (saline adj2 solution\$).tw.
66 saline solution, hypertonic/
67 diuret*.mp.
68 Blood Pressure/
69 haemodynamic*.tw.
70 (extravascul* adj2 fluid*).tw.
71 (infus* adj2 fluid*).tw.
72 (lung adj2 wedge adj2 pressur*).tw.
73 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 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57
or 58 or 59 or 60 or 61 or 62 or 63 or 64
or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72
74 4 and 73
75 Randomized Controlled Trials as Topic/
76 randomized controlled trial/
77 Random Allocation/
78 Double Blind Method/
79 Single Blind Method/
80 clinical trial/
81 clinical trial, phase i.pt.
82 clinical trial, phase ii.pt.
83 clinical trial, phase iii.pt.
84 clinical trial, phase iv.pt.
85 controlled clinical trial.pt.
86 randomized controlled trial.pt.
87 multicenter study.pt.
88 clinical trial.pt.
89 exp Clinical Trials as topic/
90 or/75-89
91 (clinical adj trial\$).tw.
92 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw.
93 PLACEBOS/
94 placebo\$.tw.
95 randomly allocated.tw.
96 (allocated adj2 random\$).tw.
97 or/91-96
98 90 or 97
99 case report.tw.
100 letter/
101 historical article/
102 or/99-101
103 98 not 102
104 Meta-Analysis as Topic/
105 meta analy\$.tw.

106 metaanaly\$.tw.
 107 Meta-Analysis/
 108 (systematic adj (review\$1 or overview\$1)).tw.
 109 exp Review Literature as Topic/
 110 or/104-109
 111 cochrane.ab.
 112 embase.ab.
 113 (psychlit or psyclit).ab.
 114 (psychinfo or psycinfo).ab.
 115 (cinahl or cinhal).ab.
 116 science citation index.ab.
 117 bids.ab.
 118 cancerlit.ab.
 119 or/111-118
 120 reference list\$.ab.
 121 bibliograph\$.ab.
 122 hand-search\$.ab.
 123 relevant journals.ab.
 124 manual search\$.ab.
 125 or/120-124
 126 selection criteria.ab.
 127 data extraction.ab.
 128 126 or 127
 129 Review/
 130 128 and 129
 131 Comment/
 132 Letter/
 133 Editorial/
 134 animal/
 135 human/
 136 134 not (134 and 135)
 137 or/131-133,136
 138 110 or 119 or 125 or 130
 139 138 not 137
 140 103 or 139
 141 74 and 140

Database: Embase <1980 to 2015 Week 08>

Search Strategy:

1 adult respiratory distress syndrome/
 2 acute lung injury/
 3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
 [mp=title, abstract, heading word, drug
 trade name, original title, device manufacturer, drug manufacturer, device
 trade name, keyword, floating subheading]
 4 1 or 2 or 3
 5 fluid therapy/
 6 fluid resuscitation/
 7 parenteral nutrition/

8 furosemide/
9 ultrafiltration/
10 swan ganz catheter/
11 pulmonary artery catheter/
12 exp electrolyte balance/
13 fluid balance/
14 lung extravascular fluid/
15 thermodilution/
16 thermodilution device/
17 pulse pressure/
18 lung wedge pressure/
19 exp colloid/
20 hetastarch/
21 sodium chloride/
22 hypertonic solution/
23 exp infusion fluid/
24 exp diuretic agent/
25 exp hemodynamics/
26 crystalloid/
27 (fluid* adj2 therap*).tw.
28 (infus* adj2 intraven*).tw.
29 (infus* adj2 parenter*).tw.
30 (infus* adj2 intraoss*).tw.
31 (intraven* adj2 drip*).tw.
32 (iv adj2 bolus).tw.
33 (intraven* adj2 bolus).tw.
34 (fluid* adj2 replac*).tw.
35 (fluid* adj2 restor*).tw.
36 (fluid* adj2 administ*).tw.
37 (fluid* adj2 manag*).tw.
38 (volum* adj2 restor*).tw.
39 (fluid* adj2 resuscitat*).tw.
40 (fluid* adj2 restrict*).tw.
41 furosemid*.tw.
42 frusemid*.tw.
43 ultrafiltrat*.tw.
44 (catheter* adj2 swan-ganz).tw.
45 (catheter* adj2 swanganz).tw.
46 (pulmonary adj2 catheter*).tw.
47 (water-electrolyte adj2 balanc*).tw.
48 (water-electrolyt* adj2 imbalanc*).tw.
49 (fluid* adj2 balanc*).tw.
50 (fluid* adj2 imbalanc*).tw.
51 (water adj2 balanc*).tw.
52 (water adj2 imbalanc*).tw.
53 (extravascul* adj2 water).tw.
54 thermodilut*.tw.
55 hemodynam*.tw.
56 haemodynam*.tw.
57 (lithium adj2 dilut*).tw.
58 (pulse adj2 contour\$ analy*).tw.
59 (#esophag* adj2 doppler).tw.
60 picco.tw.
61 (stroke adj2 volume adj2 varia*).tw.
62 (stroke adj2 volume adj2 change\$).tw.
63 (stroke adj2 volume adj2 adjust*).tw.

64 (stroke adj2 volume adj2 alter*).tw.
65 (pulse adj2 pressure adj2 varia*).tw.
66 (pulse adj2 pressure adj2 change\$).tw.
67 (pulse adj2 pressure adj2 adjust*).tw.
68 (pulse adj2 pressure adj2 alter*).tw.
69 (pulmonary adj2 wedge adj2 pressur*).tw.
70 (lung adj2 wedge adj2 pressur*).tw.
71 colloid*.tw.
72 hetastarch*.tw.
73 sodium chloride.tw.
74 crystalloid*.tw.
75 (saline adj2 solution\$).tw.
76 diuret*.mp.
77 (infus* adj2 fluid*).tw.
78 (extravascul* adj2 fluid*).tw.
79 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 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57
or 58 or 59 or 60 or 61 or 62 or 63 or 64
or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77
or 78
80 4 and 79
81 Clinical trial/
82 Randomized controlled trial/
83 Randomization/
84 Single blind procedure/
85 Double blind procedure/
86 Crossover procedure/
87 Placebo/
88 Randomized controlled trial\$.tw.
89 Rct.tw.
90 Random allocation.tw.
91 Randomly allocated.tw.
92 Allocated randomly.tw.
93 (allocated adj2 random).tw.
94 Single blind\$.tw.
95 Double blind\$.tw.
96 ((treble or triple) adj blind\$).tw.
97 Placebo\$.tw.
98 Prospective study/
99 or/81-98
100 Case study/
101 Case report.tw.
102 Abstract report/ or letter/
103 or/100-102
104 99 not 103
105 exp Meta Analysis/
106 ((meta adj analy\$) or metaanalys\$).tw.
107 (systematic adj (review\$1 or overview\$1)).tw.
108 or/105-107
109 cancerlit.ab.
110 cochrane.ab.
111 embase.ab.
112 (psychlit or psyclit).ab.

113 (psychinfo or psycinfo).ab.
 114 (cinahl or cinhal).ab.
 115 science citation index.ab.
 116 bids.ab.
 117 or/109-116
 118 reference lists.ab.
 119 bibliograph\$.ab.
 120 hand-search\$.ab.
 121 manual search\$.ab.
 122 relevant journals.ab.
 123 or/118-122
 124 data extraction.ab.
 125 selection criteria.ab.
 126 124 or 125
 127 review.pt.
 128 126 and 127
 129 letter.pt.
 130 editorial.pt.
 131 animal/
 132 human/
 133 131 not (131 and 132)
 134 or/129-130,133
 135 108 or 117 or 123 or 128
 136 135 not 134
 137 104 or 136
 138 80 and 137

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

ID	Search
#1	MeSH descriptor: [Respiratory Distress Syndrome, Adult] explode all trees
#2	MeSH descriptor: [Acute Lung Injury] explode all trees
#3	Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)
#4	#1 or #2 or #3
#5	MeSH descriptor: [Fluid Therapy] this term only
#6	MeSH descriptor: [Infusions, Parenteral] this term only
#7	MeSH descriptor: [Infusions, Intravenous] this term only
#8	fluid* adj2 therap*:ti,ab,kw (Word variations have been searched)
#9	infus* adj2 intraven*:ti,ab,kw (Word variations have been searched)
#10	infus* adj2 parenter*:ti,ab,kw (Word variations have been searched)
#11	infus* adj2 intraoss*:ti,ab,kw (Word variations have been searched)

- #12 intraven* adj2 drip*:ti,ab,kw (Word variations have been searched)
- #13 iv adj2 bolus:ti,ab,kw (Word variations have been searched)
- #14 intraven* adj2 bolus:ti,ab,kw (Word variations have been searched)
- #15 fluid* adj2 replac*:ti,ab,kw (Word variations have been searched)
- #16 fluid* adj2 restor*:ti,ab,kw (Word variations have been searched)
- #17 fluid* adj2 administ*:ti,ab,kw (Word variations have been searched)
- #18 fluid* adj2 manag*:ti,ab,kw (Word variations have been searched)
- #19 volum* adj2 restor*:ti,ab,kw (Word variations have been searched)
- #20 fluid* adj2 resuscitat*:ti,ab,kw (Word variations have been searched)
- #21 fluid* adj2 restrict*:ti,ab,kw (Word variations have been searched)
- #22 MeSH descriptor: [Diuretics] explode all trees
- #23 MeSH descriptor: [Furosemide] this term only
- #24 furosemid*:ti,ab,kw (Word variations have been searched)
- #25 frusemid*:ti,ab,kw (Word variations have been searched)
- #26 ultrafiltrat*:ti,ab,kw (Word variations have been searched)
- #27 MeSH descriptor: [Catheterization, Swan-Ganz] this term only
- #28 catheter* adj2 swan-ganz:ti,ab,kw (Word variations have been searched)
- #29 catheter* adj2 swanganz:ti,ab,kw (Word variations have been searched)
- #30 pulmonary adj3 catheter*:ti,ab,kw (Word variations have been searched)
- #31 MeSH descriptor: [Water-Electrolyte Balance] explode all trees
- #32 water-electrolyte adj2 balanc*:ti,ab,kw (Word variations have been searched)
- #33 water-electrolyte adj2 imbalanc*:ti,ab,kw (Word variations have been searched)
- #34 fluid* adj2 balanc*:ti,ab,kw (Word variations have been searched)
- #35 fluid* adj2 imbalanc*:ti,ab,kw (Word variations have been searched)
- #36 water adj2 balanc*:ti,ab,kw (Word variations have been searched)
- #37 water adj2 imbalanc*:ti,ab,kw (Word variations have been searched)
- #38 MeSH descriptor: [Extravascular Lung Water] this term only

- #39 extravascul* adj2 water:ti,ab,kw (Word variations have been searched)
- #40 MeSH descriptor: [Thermodilution] this term only
- #41 thermodilut*:ti,ab,kw (Word variations have been searched)
- #42 MeSH descriptor: [Hemodynamics] this term only
- #43 hemodynam*:ti,ab,kw (Word variations have been searched)
- #44 lithium adj2 dilut*:ti,ab,kw (Word variations have been searched)
- #45 pulse adj2 contour\$ analy*:ti,ab,kw (Word variations have been searched)
- #46 esophag* adj2 doppler:ti,ab,kw (Word variations have been searched)
- #47 picco:ti,ab,kw (Word variations have been searched)
- #48 stroke adj2 volume adj2 varia*:ti,ab,kw (Word variations have been searched)
- #49 stroke adj2 volume adj2 change\$:ti,ab,kw (Word variations have been searched)
- #50 stroke adj2 volume adj2 adjust*:ti,ab,kw (Word variations have been searched)
- #51 stroke adj2 volume adj2 alter*:ti,ab,kw (Word variations have been searched)
- #52 pulse adj2 pressure adj2 varia*:ti,ab,kw (Word variations have been searched)
- #53 pulse adj2 pressure adj2 change\$:ti,ab,kw (Word variations have been searched)
- #54 pulse adj2 pressure adj2 adjust*:ti,ab,kw (Word variations have been searched)
- #55 pulse adj2 pressure adj2 alter*:ti,ab,kw (Word variations have been searched)
- #56 MeSH descriptor: [Pulmonary Wedge Pressure] this term only
- #57 pulmonary adj2 wedge adj2 pressur*:ti,ab,kw (Word variations have been searched)
- #58 MeSH descriptor: [Colloids] this term only
- #59 colloid*:ti,ab,kw (Word variations have been searched)
- #60 MeSH descriptor: [Hydroxyethyl Starch Derivatives] this term only
- #61 hetastarch*:ti,ab,kw (Word variations have been searched)
- #62 MeSH descriptor: [Sodium Chloride] this term only
- #63 sodium chloride:ti,ab,kw (Word variations have been searched)
- #64 crystalloid*:ti,ab,kw (Word variations have been searched)
- #65 saline adj2 solution\$:ti,ab,kw (Word variations have been searched)

- #66 MeSH descriptor: [Saline Solution, Hypertonic] this term only
- #67 diuret*:ti,ab,kw (Word variations have been searched)
- #68 MeSH descriptor: [Blood Pressure] this term only
- #69 haemodynamic*:ti,ab,kw (Word variations have been searched)
- #70 extravascul* adj2 fluid*:ti,ab,kw (Word variations have been searched)
- #71 infus* adj2 fluid*:ti,ab,kw (Word variations have been searched)
- #72 lung adj2 wedge adj2 pressur*:ti,ab,kw (Word variations have been searched)
- #73 #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 or #47 or #48 or #49 or #50 or #51 or #52 or #53 or #54 or #55 or #56 or #57 or #58 or #59 or #60 or #61 or #62 or #63 or #64 or #65 or #66 or #67 or #68 or #69 or #70 or #71 or #72
- #74 #4 and #73

High Frequency Oscillatory Ventilation

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

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--
1   Respiratory Distress Syndrome, Adult/ (15425)
2   Acute Lung Injury/ (3829)
3   (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, original title, name
of substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease supplementary concept word, unique
identifier] (20602)
4   1 or 2 or 3 (26907)
5   High-Frequency Ventilation/ (1658)
6   (high frequency oscillatory ventilation or HFOV).mp. [mp=title,
abstract, original title, name of substance word,
subject heading word, keyword heading word, protocol supplementary concept
word, rare disease supplementary concept word, unique identifier] (1121) 7
5 or 6 (2085)
8   4 and 7 (507)
9   Randomized Controlled Trials as Topic/ (98553)
10  randomized controlled trial/ (398697)
11  Random Allocation/ (83948)
12  Double Blind Method/ (131101)
13  Single Blind Method/ (20681)
14  clinical trial/ (495972)
15  clinical trial, phase i.pt. (15342)
16  clinical trial, phase ii.pt. (24700)
17  clinical trial, phase iii.pt. (10182)
18  clinical trial, phase iv.pt. (1039)
19  controlled clinical trial.pt. (89792)
20  randomized controlled trial.pt. (398697)
21  multicenter study.pt. (188964)
22  clinical trial.pt. (495972)
23  exp Clinical Trials as topic/ (290924)
24  or/9-23 (1086777)
25  (clinical adj trial$.tw. (239605)
26  ((singl$ or doubl$ or treb$ or tripl$) adj (blind$3 or mask$3)).tw.
(137122)
27  PLACEBOS/ (33049)
28  placebo$.tw. (169392)
29  randomly allocated.tw. (18805)
30  (allocated adj2 random$).tw. (21494)
```

31 or/25-30 (456244)
32 24 or 31 (1253749)
33 case report.tw. (220987)
34 letter/ (885611)
35 historical article/ (317842)
36 or/33-35 (1412185)
37 32 not 36 (1222726)
38 Meta-Analysis as Topic/ (14353)
39 meta analy\$.tw. (77976)
40 metaanaly\$.tw. (1475)
41 Meta-Analysis/ (57180)
42 (systematic adj (review\$1 or overview\$1)).tw. (67517)
43 exp Review Literature as Topic/ (8107)
44 or/38-43 (147188)
45 cochrane.ab. (37086)
46 embase.ab. (37018)
47 (psychlit or psyclit).ab. (885)
48 (psychinfo or psycinfo).ab. (9608)
49 (cinahl or cinhal).ab. (12469)
50 science citation index.ab. (2219)
51 bids.ab. (374)
52 cancerlit.ab. (599)
53 or/45-52 (59248)
54 reference list\$.ab. (11171)
55 bibliograph\$.ab. (12668)
56 hand-search\$.ab. (4468)
57 relevant journals.ab. (810)
58 manual search\$.ab. (2721)
59 or/54-58 (28522)
60 selection criteria.ab. (21751)
61 data extraction.ab. (11246)
62 60 or 61 (31261)
63 Review/ (1999392)
64 62 and 63 (20394)
65 Comment/ (633777)
66 Letter/ (885611)
67 Editorial/ (381637)
68 animal/ (5507751)
69 human/ (14042538)
70 68 not (68 and 69) (3969551)
71 or/65-67,70 (5334431)
72 44 or 53 or 59 or 64 (178088)
73 72 not 71 (167440)
74 37 or 73 (1337047)
75 8 and 74 (122)

Database: Embase <1974 to 2015 July 06>

Search Strategy:

--
1 adult respiratory distress syndrome/ (23228)
2 acute lung injury/ (9238)
3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, heading word, drug
trade name, original title, device manufacturer, drug manufacturer, device
trade name, keyword] (31040)
4 1 or 2 or 3 (40532)
5 high frequency ventilation/ (3240)
6 (high frequency oscillatory ventilation or HFOV).mp. [mp=title,
abstract, heading word, drug trade name, original
title, device manufacturer, drug manufacturer, device trade name, keyword]
(1596)
7 5 or 6 (4093)
8 4 and 7 (903)
9 Clinical trial/ (851326)
10 Randomized controlled trial/ (378749)
11 Randomization/ (67044)
12 Single blind procedure/ (20526)
13 Double blind procedure/ (124143)
14 Crossover procedure/ (43504)
15 Placebo/ (271775)
16 Randomized controlled trial\$.tw. (119506)
17 Rct.tw. (17534)
18 Random allocation.tw. (1470)
19 Randomly allocated.tw. (22983)
20 Allocated randomly.tw. (2055)
21 (allocated adj2 random).tw. (810)
22 Single blind\$.tw. (16279)
23 Double blind\$.tw. (158731)
24 ((treble or triple) adj blind\$.tw. (485)
25 Placebo\$.tw. (222157)
26 Prospective study/ (297576)
27 or/9-26 (1497902)
28 Case study/ (32642)
29 Case report.tw. (294881)
30 Abstract report/ or letter/ (948288)
31 or/28-30 (1269447)
32 27 not 31 (1457973)
33 exp Meta Analysis/ (95781)
34 ((meta adj analy\$) or metaanalys\$.tw. (102567)
35 (systematic adj (review\$1 or overview\$1)).tw. (84092)
36 or/33-35 (186567)
37 cancerlit.ab. (665)
38 cochrane.ab. (45585)
39 embase.ab. (44867)
40 (psychlit or psyclit).ab. (955)
41 (psychinfo or psycinfo).ab. (10747)
42 (cinahl or cinhal).ab. (13958)
43 science citation index.ab. (2431)
44 bids.ab. (484)
45 or/37-44 (72350)

- 46 reference lists.ab. (11291)
- 47 bibliograph\$.ab. (16148)
- 48 hand-search\$.ab. (5258)
- 49 manual search\$.ab. (3164)
- 50 relevant journals.ab. (926)
- 51 or/46-50 (33126)
- 52 data extraction.ab. (13599)
- 53 selection criteria.ab. (21999)
- 54 52 or 53 (34298)
- 55 review.pt. (2074172)
- 56 54 and 55 (17149)
- 57 letter.pt. (897334)
- 58 editorial.pt. (483195)
- 59 animal/ (1676012)
- 60 human/ (15966334)
- 61 59 not (59 and 60) (1261202)
- 62 or/57-58,61 (2626696)
- 63 36 or 45 or 51 or 56 (225188)
- 64 63 not 62 (217942)
- 65 32 or 64 (1585209)
- 66 8 and 65 (209)

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i>
#4	TOPIC: (randomi?ed controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#3	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (high frequency oscillatory ventilation or HFOV) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute respiratory distress syndrome or ARDS or acute lung injur*) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] this term only
- #2 MeSH descriptor: [Acute Lung Injury] this term only
- #3 Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)

#4 #1 or #2 or #3

#5 MeSH descriptor: [High-Frequency Ventilation] this term only

#6 high frequency oscillatory ventilation or HFOV:ti,ab,kw (Word variations have been searched)

#7 #5 or #6

#8 #4 and #7

Inhaled Vasodilators

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

```
--
1   Acute Lung Injury/
2   Respiratory Distress Syndrome, Adult/
3   Ventilator-Induced Lung Injury/
4   Pneumonia, Ventilator-Associated/
5   (Acute Respiratory Distress Syndrome or ARDS or Acute Lung Injur* or
Ventilator-Induced Lung Injur* or Ventilator
Associated Pneumonia or ventilation induced lung injur* or VILI).mp.
[mp=title, abstract, original title, name of substance word, subject heading
word, keyword heading word, protocol supplementary concept word, rare disease
supplementary concept word, unique identifier]
6   1 or 2 or 3 or 4 or 5
7   Nitric Oxide/
8   Epoprostenol/
9   Almitrine/
10  iloprost/
11  (inhaled nitric oxide or nebulized prostacyclin or nebulized
epoprostanol or nebulized iloprost or nebulized
prostaglandin E1 or almitrine).mp. [mp=title, abstract, original title, name
of substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease supplementary concept word, unique
identifier]
(2865)
12  7 or 8 or 9 or 11
13  6 and 12
14  Randomized Controlled Trials as Topic/
15  randomized controlled trial/
16  Random Allocation/
17  Double Blind Method/
18  Single Blind Method/
19  clinical trial/
20  clinical trial, phase i.pt.
21  clinical trial, phase ii.pt.
22  clinical trial, phase iii.pt.
23  clinical trial, phase iv.pt.
24  controlled clinical trial.pt.
25  randomized controlled trial.pt.
26  multicenter study.pt.
27  clinical trial.pt.
28  exp Clinical Trials as topic/
29  or/14-28
```

30 (clinical adj trial\$.tw.
31 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw.
32 PLACEBOS/
33 placebo\$.tw.
34 randomly allocated.tw.
35 (allocated adj2 random\$).tw.
36 or/30-35
37 29 or 36
38 case report.tw.
39 letter/
40 historical article/
41 or/38-40
42 37 not 41
43 Meta-Analysis as Topic/
44 meta analy\$.tw.
45 metaanaly\$.tw.
46 Meta-Analysis/
47 (systematic adj (review\$1 or overview\$1)).tw.
48 exp Review Literature as Topic/
49 or/43-48
50 cochrane.ab.
51 embase.ab.
52 (psychlit or psyclit).ab.
53 (psychinfo or psycinfo).ab.
54 (cinahl or cinhal).ab.
55 science citation index.ab.
56 bids.ab.
57 cancerlit.ab.
58 or/50-57
59 reference list\$.ab.
60 bibliograph\$.ab.
61 hand-search\$.ab.
62 relevant journals.ab.
63 manual search\$.ab.
64 or/59-63
65 selection criteria.ab.
66 data extraction.ab. (11183)
67 65 or 66
68 Review/
69 67 and 68
70 Comment/
71 Letter/
72 Editorial/
73 animal/
74 human/
75 73 not (73 and 74)
76 or/70-72,75
77 49 or 58 or 64 or 69
78 77 not 76
79 37 or 78
80 13 and 79

Database: Embase <1980 to 2015 Week 08>

Search Strategy:

--
1 acute lung injury/
2 respiratory distress syndrome/
3 ventilator induced lung injury/
4 ventilator associated pneumonia/
5 (Acute Respiratory Distress Syndrome or ARDS or Acute Lung Injur* or Ventilator-Induced Lung Injur* or Ventilator Associated Pneumonia or ventilation induced lung injur* or VILI).mp.
[mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading]
6 1 or 2 or 3 or 4 or 5
7 nitric oxide/
8 prostacyclin/
9 iloprost/
10 almitrine/
11 prostaglandin E1/
12 (inhaled nitric oxide or nebulized prostacyclin or nebulized epoprostanol or nebulized iloprost or nebulized prostaglandin E1 or almitrine).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading]
13 7 or 8 or 9 or 10 or 11 or 12
14 6 and 13
15 Clinical trial/
16 Randomized controlled trial/
17 Randomization/
18 Single blind procedure/
19 Double blind procedure/
20 Crossover procedure/
21 Placebo/
22 Randomized controlled trial\$.tw.
23 Rct.tw.
24 Random allocation.tw.
25 Randomly allocated.tw.
26 Allocated randomly.tw.
27 (allocated adj2 random).tw.
28 Single blind\$.tw.
29 Double blind\$.tw.
30 ((treble or triple) adj blind\$.tw.
31 Placebo\$.tw.
32 Prospective study/
33 or/15-32
34 Case study/
35 Case report.tw.
36 Abstract report/ or letter/
37 or/34-36
38 33 not 37
39 exp Meta Analysis/

40 ((meta adj analy\$) or metaanalys\$.tw.
 41 (systematic adj (review\$1 or overview\$1)).tw.
 42 or/39-41
 43 cancerlit.ab.
 44 cochrane.ab.
 45 embase.ab.
 46 (psychlit or psyclit).ab.
 47 (psychinfo or psycinfo).ab.
 48 (cinahl or cinhal).ab.
 49 science citation index.ab.
 50 bids.ab.
 51 or/43-50
 52 reference lists.ab.
 53 bibliograph\$.ab.
 54 hand-search\$.ab.
 55 manual search\$.ab.
 56 relevant journals.ab.
 57 or/52-56
 58 data extraction.ab.
 59 selection criteria.ab.
 60 58 or 59
 61 review.pt.
 62 60 and 61
 63 letter.pt.
 64 editorial.pt.
 65 animal/
 66 human/
 67 65 not (65 and 66)
 68 or/63-64,67
 69 42 or 51 or 57 or 62
 70 69 not 68
 71 38 or 70
 72 14 and 71

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i>
#4	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#3	TOPIC: (randomi?ed controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (inhaled nitric oxide or nebulized prostacyclin or nebulized epoprostanol or nebulized iloprost or nebulized prostaglandin E1 or almitrine) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] this term only
- #2 Acute respiratory distress syndrome or ARDS:ti,ab,kw (Word variations have been searched)
- #3 MeSH descriptor: [Acute Lung Injury] this term only
- #4 acute lung injur*:ti,ab,kw (Word variations have been searched)
- #5 #1 or #2 or #3 or #4
- #6 MeSH descriptor: [Nitric Oxide] this term only
- #7 MeSH descriptor: [Epoprostenol] this term only
- #8 MeSH descriptor: [Almitrine] this term only
- #9 MeSH descriptor: [iloprost] this term only
- #10 inhaled nitric oxide or nebulized prostacyclin or nebulized epoprostanol or nebulized iloprost or nebulized prostaglandin E1 or almitrine :ti,ab,kw (Word variations have been searched)
- #11 #6 or #7 or #8 or #9 or #10
- #12 #5 and #11

Lung Protective Ventilation: Tidal Volume

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

Search Strategy:

```
-----  
--  
1   Acute Lung Injury/ (3881)  
2   Respiratory Distress Syndrome, Adult/ (15602)  
3   (Acute Respiratory Distress Syndrome or ARDS or Acute Lung Injur*).mp.  
[mp=title, abstract, original title, name  
of substance word, subject heading word, keyword heading word, protocol  
supplementary concept word, rare disease  
supplementary concept word, unique identifier] (20805)  
4   1 or 2 or 3 (27203)  
5   Tidal Volume/ (8071)  
6   (Tidal volume or protective ventilation or low* tidal protective  
mechanical ventilation or low airway  
pressure).mp. [mp=title, abstract, original title, name of substance word,  
subject heading word, keyword heading word,  
protocol supplementary concept word, rare disease supplementary concept word,  
unique identifier] (15191)  
7   5 or 6 (15191)  
8   4 and 7 (1987)  
9   Randomized Controlled Trials as Topic/ (101175)  
10  randomized controlled trial/ (405863)  
11  Random Allocation/ (85371)  
12  Double Blind Method/ (133529)  
13  Single Blind Method/ (20972)  
14  clinical trial/ (503183)  
15  clinical trial, phase i.pt. (15550)  
16  clinical trial, phase ii.pt. (25007)  
17  clinical trial, phase iii.pt. (10476)  
18  clinical trial, phase iv.pt. (1053)  
19  controlled clinical trial.pt. (91271)  
20  randomized controlled trial.pt. (405863)  
21  multicenter study.pt. (192229)  
22  clinical trial.pt. (503183)  
23  exp Clinical Trials as topic/ (297717)  
24  or/9-23 (1104141)  
25  (clinical adj trial$.tw. (242982)  
26  ((singl$ or doubl$ or treb$ or tripl$) adj (blind$3 or mask$3)).tw.  
(139233)  
27  PLACEBOS/ (33778)  
28  placebo$.tw. (172009)  
29  randomly allocated.tw. (19245)
```

Neuromuscular Blocking Agents

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

Search Strategy:

- 1 Respiratory Distress Syndrome, Adult/
- 2 Acute Lung Injury/
- 3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, original title, name
of substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease
supplementary concept word, unique identifier]
- 4 1 or 2 or 3
- 5 Neuromuscular Blocking Agents/
- 6 Paralysis/
- 7 Atracurium/
- 8 Pancuronium/
- 9 Vecuronium Bromide/
- 10 (Neuromuscular blocking agent* or Paralysis or Paralyzing agent* or
Atracurium or Cisatracurium or Pancuronium or
Vecuronium or Rocuronium).mp. [mp=title, abstract, original title, name of
substance word, subject heading word, keyword
heading word, protocol supplementary concept word, rare disease supplementary
concept word, unique identifier]
- 11 5 or 6 or 7 or 8 or 9 or 10
- 12 4 and 11
- 13 Randomized Controlled Trials as Topic/
- 14 randomized controlled trial/
- 15 Random Allocation/
- 16 Double Blind Method/
- 17 Single Blind Method/
- 18 clinical trial/
- 19 clinical trial, phase i.pt.
- 20 clinical trial, phase ii.pt.
- 21 clinical trial, phase iii.pt.
- 22 clinical trial, phase iv.pt.
- 23 controlled clinical trial.pt.
- 24 randomized controlled trial.pt.
- 25 multicenter study.pt.
- 26 clinical trial.pt.
- 27 exp Clinical Trials as topic/
or/13-27
- 29 (clinical adj trial\$).tw.
- 30 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw.
- 31 PLACEBOS/

32 placebo\$.tw.
33 randomly allocated.tw.
34 (allocated adj2 random\$).tw.
35 or/29-34
36 28 or 35
37 case report.tw.
38 letter/
39 historical article/
40 or/37-39
41 36 not 40
42 Meta-Analysis as Topic/
43 meta analy\$.tw.
44 metaanaly\$.tw.
45 Meta-Analysis/
46 (systematic adj (review\$1 or overview\$1)).tw.
47 exp Review Literature as Topic/
48 or/42-47
49 cochrane.ab.
50 embase.ab.
51 (psychlit or psyclit).ab.
52 (psychinfo or psycinfo).ab.
53 (cinahl or cinhal).ab.
54 science citation index.ab.
55 bids.ab.
56 cancerlit.ab.
57 or/49-56
58 reference list\$.ab.
59 bibliograph\$.ab.
60 hand-search\$.ab.
61 relevant journals.ab.
62 manual search\$.ab.
63 or/58-62
64 selection criteria.ab.
65 data extraction.ab.
66 64 or 65
67 Review/
68 66 and 67
69 Comment/
70 Letter/
71 Editorial/
72 animal/
73 human/
74 72 not (72 and 73)
75 or/69-71,74
76 48 or 57 or 63 or 68
77 76 not 75
78 41 or 77
79 12 and 78

Database: Embase <1980 to 2015 Week 08>

Search Strategy:

- 1 adult respiratory distress syndrome/
- 2 acute lung injury/
- 3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, heading word, drug
trade name, original title, device manufacturer, drug manufacturer, device
trade name, keyword, floating subheading]
- 4 1 or 2 or 3
- 5 neuromuscular blocking agent/
- 6 paralysis/
- 7 atracurium besilate/
- 8 cisatracurium/
- 9 pancuronium/
- 10 vecuronium/
- 11 rocuronium/
- 12 (Neuromuscular blocking agent* or Paralysis or Paralyzing agent* or
Atracurium or Cisatracurium or Pancuronium or
Vecuronium or Rocuronium).mp. [mp=title, abstract, heading word, drug trade
name, original title, device manufacturer,
drug manufacturer, device trade name, keyword, floating subheading]
- 13 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12
- 14 4 and 13
- 15 Clinical trial/
- 16 Randomized controlled trial/
- 17 Randomization/
- 18 Single blind procedure/
- 19 Double blind procedure/
- 20 Crossover procedure/
- 21 Placebo/
- 22 Randomized controlled trial\$.tw.
- 23 Rct.tw.
- 24 Random allocation.tw.
- 25 Randomly allocated.tw.
- 26 Allocated randomly.tw.
- 27 (allocated adj2 random).tw.
- 28 Single blind\$.tw.
- 29 Double blind\$.tw.
- 30 ((treble or triple) adj blind\$.tw.
- 31 Placebo\$.tw.
- 32 Prospective study/
- 33 or/15-32
- 34 Case study/
- 35 Case report.tw.
- 36 Abstract report/ or letter/
- 37 or/34-36
- 38 33 not 37
- 39 exp Meta Analysis/
- 40 ((meta adj analy\$) or metaanalys\$.tw.
- 41 (systematic adj (review\$1 or overview\$1)).tw.
- 42 or/39-41

43 cancerlit.ab.
 44 cochrane.ab.
 45 embase.ab.
 46 (psychlit or psyclit).ab.
 47 (psychinfo or psycinfo).ab.
 48 (cinahl or cinhal).ab.
 49 science citation index.ab.
 50 bids.ab.
 51 or/43-50
 52 reference lists.ab.
 53 bibliograph\$.ab.
 54 hand-search\$.ab.
 55 manual search\$.ab.
 56 relevant journals.ab.
 57 or/52-56
 58 data extraction.ab.
 59 selection criteria.ab.
 60 58 or 59
 61 review.pt.
 62 60 and 61
 63 letter.pt.
 64 editorial.pt.
 65 animal/
 66 human/
 67 65 not (65 and 66)
 68 or/63-64,67
 69 42 or 51 or 57 or 62
 70 69 not 68
 71 38 or 70
 72 14 and 71

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i>
#4	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#3	TOPIC: (randomi?ed controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (Neuromuscular blocking agent* or Paralysis or Paralyzing agent* or Atracurium or Cisatracurium or Pancuronium or Vecuronium or Rocuronium) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] this term only
- #2 MeSH descriptor: [Acute Lung Injury] this term only
- #3 Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)
- #4 #1 or #2 or #3
- #5 MeSH descriptor: [Neuromuscular Blocking Agents] this term only
- #6 Neuromuscular blocking agent* or Paralysis or Paralysing agent* or Atracurium or Cisatracurium or Pancuronium or Vecuronium or Rocuronium:ti,ab,kw (Word variations have been searched)
- #7 #5 or #6
- #8 #4 and #7

Positive End-Expiratory Pressure

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

Search Strategy:

--
1 Respiratory Distress Syndrome, Adult/ (15402)
2 Acute Lung Injury/ (3791)
3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, original title, name
of substance word, subject heading word, keyword heading word, protocol
supplementary concept word, rare disease
supplementary concept word, unique identifier] (20530)
4 1 or 2 or 3 (26831)
5 Positive-Pressure Respiration/ (15220)
6 (PEEP or Positive end-expiratory pressure or Positive-Pressure
Respiration).mp. [mp=title, abstract, original
title, name of substance word, subject heading word, keyword heading word,
protocol supplementary concept word, rare
disease supplementary concept word, unique identifier] (17968)
7 5 or 6 (17968)
8 4 and 7 (3079)
9 Randomized Controlled Trials as Topic/ (98293)
10 randomized controlled trial/ (397471)
11 Random Allocation/ (83701)
12 Double Blind Method/ (130817)
13 Single Blind Method/ (20604)
14 clinical trial/ (495548)
15 clinical trial, phase i.pt. (15296)
16 clinical trial, phase ii.pt. (24613)
17 clinical trial, phase iii.pt. (10121)
18 clinical trial, phase iv.pt. (1033)
19 controlled clinical trial.pt. (89683)
20 randomized controlled trial.pt. (397471)
21 multicenter study.pt. (188137)
22 clinical trial.pt. (495548)
23 exp Clinical Trials as topic/ (290365)
24 or/9-23 (1083657)
25 (clinical adj trial\$.tw. (238403)
26 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw.
(136728)
27 PLACEBOS/ (33024)
28 placebo\$.tw. (168908)
29 randomly allocated.tw. (18720)
30 (allocated adj2 random\$.tw. (21405)

31 or/25-30 (454495)
32 24 or 31 (1249616)
33 case report.tw. (220199)
34 letter/ (883433)
35 historical article/ (317296)
36 or/33-35 (1408713)
37 32 not 36 (1218663)
38 Meta-Analysis as Topic/ (14316)
39 meta analy\$.tw. (77120)
40 metaanaly\$.tw. (1467)
41 Meta-Analysis/ (56648)
42 (systematic adj (review\$1 or overview\$1)).tw. (66782)
43 exp Review Literature as Topic/ (8061)
44 or/38-43 (145881)
45 cochrane.ab. (36715)
46 embase.ab. (36597)
47 (psychlit or psyclit).ab. (884)
48 (psychinfo or psycinfo).ab. (9459)
49 (cinahl or cinhal).ab. (12363)
50 science citation index.ab. (2212)
51 bids.ab. (372)
52 cancerlit.ab. (599)
53 or/45-52 (58573)
54 reference list\$.ab. (11104)
55 bibliograph\$.ab. (12607)
56 hand-search\$.ab. (4440)
57 relevant journals.ab. (804)
58 manual search\$.ab. (2708)
59 or/54-58 (28364)
60 selection criteria.ab. (21682)
61 data extraction.ab. (11195)
62 60 or 61 (31137)
63 Review/ (1991140)
64 62 and 63 (20330)
65 Comment/ (631755)
66 Letter/ (883433)
67 Editorial/ (380346)
68 animal/ (5498011)
69 human/ (14007866)
70 68 not (68 and 69) (3963496)
71 or/65-67,70 (5324439)
72 44 or 53 or 59 or 64 (176545)
73 72 not 71 (165961)
74 32 or 73 (1362563)
75 8 and 74 (653)

Database: Embase <1980 to 2015 Week 08>

Search Strategy:

 --
 1 respiratory distress syndrome/ (13997)
 2 acute lung injury/ (14024)
 3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
 [mp=title, abstract, heading word, drug
 trade name, original title, device manufacturer, drug manufacturer, device
 trade name, keyword, floating subheading]
 (36734)
 4 1 or 2 or 3 (48837)
 5 positive end expiratory pressure/ (45344)
 6 (PEEP or Positive end-expiratory pressure or Positive-Pressure
 Respiration).mp. [mp=title, abstract, heading word,
 drug trade name, original title, device manufacturer, drug manufacturer,
 device trade name, keyword, floating
 subheading] (47039)
 7 5 or 6 (47039)
 8 4 and 7 (6160)
 9 Clinical trial/ (1005343)
 10 Randomized controlled trial/ (465991)
 11 Randomization/ (83672)
 12 Single blind procedure/ (27755)
 13 Double blind procedure/ (138467)
 14 Crossover procedure/ (54075)
 15 Placebo/ (327675)
 16 Randomized controlled trial\$.tw. (150668)
 17 Rct.tw. (22587)
 18 Random allocation.tw. (1645)
 19 Randomly allocated.tw. (26753)
 20 Allocated randomly.tw. (2214)
 21 (allocated adj2 random).tw. (855)
 22 Single blind\$.tw. (18817)
 23 Double blind\$.tw. (175420)
 24 ((treble or triple) adj blind\$.tw. (666)
 25 Placebo\$.tw. (249744)
 26 Prospective study/ (388763)
 27 or/9-26 (1796071)
 28 Case study/ (93446)
 29 Case report.tw. (327747)
 30 Abstract report/ or letter/ (1008323)
 31 or/28-30 (1420327)
 32 27 not 31 (1744872)
 33 exp Meta Analysis/ (153790)
 34 ((meta adj analy\$) or metaanalys\$.tw. (136508)
 35 (systematic adj (review\$1 or overview\$1)).tw. (115562)
 36 or/33-35 (240344)
 37 cancerlit.ab. (690)
 38 cochrane.ab. (61573)
 39 embase.ab. (63042)
 40 (psychlit or psyclit).ab. (967)
 41 (psychinfo or psycinfo).ab. (14548)
 42 (cinahl or cinhal).ab. (18570)
 43 science citation index.ab. (2812)
 44 bids.ab. (526)
 45 or/37-44 (98223)
 46 reference lists.ab. (13884)

- 47 bibliograph\$.ab. (17813)
- 48 hand-search\$.ab. (6107)
- 49 manual search\$.ab. (3802)
- 50 relevant journals.ab. (1091)
- 51 or/46-50 (38434)
- 52 data extraction.ab. (16635)
- 53 selection criteria.ab. (26637)
- 54 52 or 53 (41668)
- 55 review.pt. (2214008)
- 56 54 and 55 (19615)
- 57 letter.pt. (965797)
- 58 editorial.pt. (524789)
- 59 animal/ (1742396)
- 60 human/ (18115806)
- 61 59 not (59 and 60) (1324751)
- 62 or/57-58,61
- 63 36 or 45 or 51 or 56
- 64 63 not 62
- 65 32 or 64
- 66 8 and 65

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i>
#4	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#3	TOPIC: (randomi?ed controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (PEEP or Positive end-expiratory pressure or Positive-Pressure Respiration) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] this term only
- #2 MeSH descriptor: [Acute Lung Injury] this term only

#3 Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)

#4 #1 or #2 or #3

#5 MeSH descriptor: [Positive-Pressure Respiration] this term only

#6 PEEP or Positive end-expiratory pressure or Positive-Pressure Respiration:ti,ab,kw (Word variations have been searched)

#7 #5 or #6

#8 #4 and #7

Prone Positioning

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

Search Strategy:

```
-----  
--  
1   Respiratory Distress Syndrome, Adult/ (15406)  
2   Acute Lung Injury/ (3804)  
3   (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.  
[mp=title, abstract, original title, name  
of substance word, subject heading word, keyword heading word, protocol  
supplementary concept word, rare disease  
supplementary concept word, unique identifier] (20551)  
4   1 or 2 or 3 (26854)  
5   Prone Position/ (3013)  
6   Posture/ (56034)  
7   Supine Position/ (4821)  
8   Patient Positioning/ (2641)  
9   (prone* or body position* or body posture* or prone ventilation or  
supine position* or patient position*).mp.  
[mp=title, abstract, original title, name of substance word, subject heading  
word, keyword heading word, protocol  
supplementary concept word, rare disease supplementary concept word, unique  
identifier] (75536)  
10  5 or 6 or 7 or 8 or 9 (124809)  
11  4 and 10 (860)  
12  Randomized Controlled Trials as Topic/ (98368)  
13  randomized controlled trial/ (397830)  
14  Random Allocation/ (83781)  
15  Double Blind Method/ (130918)  
16  Single Blind Method/ (20630)  
17  clinical trial/ (495717)  
18  clinical trial, phase i.pt. (15315)  
19  clinical trial, phase ii.pt. (24644)  
20  clinical trial, phase iii.pt. (10149)  
21  clinical trial, phase iv.pt. (1034)  
22  controlled clinical trial.pt. (89715)  
23  randomized controlled trial.pt. (397830)  
24  multicenter study.pt. (188398)  
25  clinical trial.pt. (495717)  
26  exp Clinical Trials as topic/ (290521)  
27  or/12-26 (1084628)  
28  (clinical adj trial$).tw. (238656)
```

29 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw.
 (136832)
 30 PLACEBOS/ (33038)
 31 placebo\$.tw. (169045)
 32 randomly allocated.tw. (18736)
 33 (allocated adj2 random\$).tw. (21423)
 34 or/28-33 (454870)
 35 27 or 34 (1250734)
 36 case report.tw. (220466)
 37 letter/ (883942)
 38 historical article/ (317457)
 39 or/36-38 (1409637)
 40 35 not 39 (1219764)
 41 Meta-Analysis as Topic/ (14328)
 42 meta analy\$.tw. (77326)
 43 metaanaly\$.tw. (1470)
 44 Meta-Analysis/ (56809)
 45 (systematic adj (review\$1 or overview\$1)).tw. (66973)
 46 exp Review Literature as Topic/ (8073)
 47 or/41-46 (146199)
 48 cochrane.ab. (36796)
 49 embase.ab. (36692)
 50 (psychlit or psyclit).ab. (884)
 51 (psychinfo or psycinfo).ab. (9530)
 52 (cinahl or cinhal).ab. (12388)
 53 science citation index.ab. (2217)
 54 bids.ab. (374)
 55 cancerlit.ab. (598)
 56 or/48-55 (58754)
 57 reference list\$.ab. (11109)
 58 bibliograph\$.ab. (12624)
 59 hand-search\$.ab. (4445)
 60 relevant journals.ab. (803)
 61 manual search\$.ab. (2701)
 62 or/57-61 (28384)
 63 selection criteria.ab. (21695)
 64 data extraction.ab. (11211)
 65 63 or 64 (31166)
 66 Review/ (1993396)
 67 65 and 66 (20349)
 68 Comment/ (632490)
 69 Letter/ (883942)
 70 Editorial/ (380681)
 71 animal/ (5501128)
 72 human/ (14018139)
 73 71 not (71 and 72) (3965529)
 74 or/68-70,73 (5327513)
 75 47 or 56 or 62 or 67 (176937)
 76 75 not 74 (166339)
 77 40 or 76 (1333188)
 78 11 and 77 (210)

Database: Embase <1974 to 2015 June 23>

Search Strategy:

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1 adult respiratory distress syndrome/ (23150)
2 acute lung injury/ (9160)
3 (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS).mp.
[mp=title, abstract, heading word, drug
trade name, original title, device manufacturer, drug manufacturer, device
trade name, keyword] (30871)
4 1 or 2 or 3 (40340)
5 body posture/ (53513)
6 body position/ (10615)
7 supine position/ (13250)
8 patient positioning/ (14506)
9 (prone* or body position* or body posture* or prone ventilation or
supine position* or patient position*).mp.
[mp=title, abstract, heading word, drug trade name, original title, device
manufacturer, drug manufacturer, device trade
name, keyword] (160288)
10 5 or 6 or 7 or 8 or 9 (160288)
11 4 and 10 (1390)
12 Clinical trial/ (850557)
13 Randomized controlled trial/ (377399)
14 Randomization/ (66793)
15 Single blind procedure/ (20453)
16 Double blind procedure/ (123802)
17 Crossover procedure/ (43309)
18 Placebo/ (270906)
19 Randomized controlled trial\$.tw. (118639)
20 Rct.tw. (17397)
21 Random allocation.tw. (1467)
22 Randomly allocated.tw. (22875)
23 Allocated randomly.tw. (2048)
24 (allocated adj2 random).tw. (810)
25 Single blind\$.tw. (16226)
26 Double blind\$.tw. (158207)
27 ((treble or triple) adj blind\$.tw. (481)
28 Placebo\$.tw. (221301)
29 Prospective study/ (295627)
30 or/12-29 (1492740)
31 Case study/ (32370)
32 Case report.tw. (293743)
33 Abstract report/ or letter/ (946954)
34 or/31-33 (1266731)
35 30 not 34 (1452891)
36 exp Meta Analysis/ (95087)
37 ((meta adj analy\$) or metaanalys\$.tw. (101652)
38 (systematic adj (review\$1 or overview\$1)).tw. (83281)
39 or/36-38 (185190)
40 cancerlit.ab. (664)
41 cochrane.ab. (45216)
42 embase.ab. (44437)
43 (psychlit or psyclit).ab. (955)
44 (psychinfo or psycinfo).ab. (10662)

45 (cinahl or cinhal).ab. (13849)
 46 science citation index.ab. (2417)
 47 bids.ab. (483)
 48 or/40-47 (71727)
 49 reference lists.ab. (11235)
 50 bibliograph\$.ab. (16095)
 51 hand-search\$.ab. (5214)
 52 manual search\$.ab. (3141)
 53 relevant journals.ab. (921)
 54 or/49-53 (32970)
 55 data extraction.ab. (13514)
 56 selection criteria.ab. (21931)
 57 55 or 56 (34147)
 58 review.pt. (2069658)
 59 57 and 58 (17104)
 60 letter.pt. (895373)
 61 editorial.pt. (481738)
 62 animal/ (1671587)
 63 human/ (15914993)
 64 62 not (62 and 63) (1258280)
 65 or/60-61,64 (2620400)
 66 39 or 48 or 54 or 59 (223648)
 67 66 not 65 (216438)
 68 35 or 67 (1579025)
 69 11 and 68 (326)

Database - Web of Science Science Citation Index Expanded, 1900 – present

#5	#4 AND #3 <i>DocType=All document types; Language=All languages;</i>
#4	TOPIC: (randomi?ed controlled trial or random allocation or double blind method or single blind method or clinical trial or multicenter study or randomised or placebo or randomly or trial or groups) <i>DocType=All document types; Language=All languages;</i>
#3	#2 AND #1 <i>DocType=All document types; Language=All languages;</i>
#2	TOPIC: (prone* or body position* or body posture* or prone ventilation or supine position* or patient position*) <i>DocType=All document types; Language=All languages;</i>
#1	TOPIC: (Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS) <i>DocType=All document types; Language=All languages;</i>

Database – the Cochrane Library (CDSR, DARE, CENTRAL)

- #1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] this term only
- #2 MeSH descriptor: [Acute Lung Injury] this term only
- #3 Acute Respiratory Distress Syndrome or Acute Lung Injur* or ARDS:ti,ab,kw (Word variations have been searched)
- #4 #1 or #2 or #3
- #5 MeSH descriptor: [Prone Position] this term only
- #6 MeSH descriptor: [Posture] this term only
- #7 MeSH descriptor: [Supine Position] this term only
- #8 MeSH descriptor: [Patient Positioning] this term only
- #9 prone* or body position* or body posture* or prone ventilation or supine position* or patient position*:ti,ab,kw (Word variations have been searched)
- #10 #5 or #6 or #7 or #8 or #9
- #11 #4 and #10