

Online Appendix 1 BTS Guideline for Pleural Disease

Literature search strategies and PRISMA diagrams

Contents

Databases	3
Section A Spontaneous pneumothorax	4
Records retrieved	4
Database search strategies	4
MEDLINE ALL	4
EMBASE	5
Cochrane Database of Systematic Reviews (CDSR).....	6
Cochrane Central Register of Controlled Trials (CENTRAL)	6
Section B Investigation of the undiagnosed pleural effusion	8
Records retrieved	8
Database search strategies	8
Question B1	8
MEDLINE ALL	8
EMBASE	9
Cochrane Database of Systematic Reviews (CDSR).....	10
Cochrane Central Register of Controlled Trials (CENTRAL)	10
Questions B2-B6	10
MEDLINE ALL	10
EMBASE	12
Cochrane Database of Systematic Reviews (CDSR).....	14
Cochrane Central Register of Controlled Trials (CENTRAL)	15
Section C Pleural infection	15
Records retrieved	15
Database search strategies	15
MEDLINE ALL	15
EMBASE	16
Cochrane Database of Systematic Reviews (CDSR).....	17
Cochrane Central Register of Controlled Trials (CENTRAL)	17

Section D Pleural malignancy	18
Records retrieved	18
Database search strategies	19
Question D1	19
MEDLINE ALL	19
EMBASE	19
Cochrane Database of Systematic Reviews (CDSR).....	20
Cochrane Central Register of Controlled Trials (CENTRAL)	21
Questions D2-D12	21
MEDLINE ALL	21
EMBASE	22
Cochrane Database of Systematic Reviews (CDSR).....	23
Cochrane Central Register of Controlled Trials (CENTRAL)	24
PRISMA diagrams	25
Section A Spontaneous pneumothorax	25
Section B Investigation of the undiagnosed pleural effusion	26
Section C Pleural infection	27
Section D Pleural malignancy	28

Databases

MEDLINE ALL

EMBASE

Cochrane Database of Systematic Reviews (CDSR)

Central Register of Controlled Trials (CENTRAL)

MEDLINE ALL and EMBASE via Ovid

CDSR and CENTRAL Section A and Section C via Ovid; Section B and Section D via Wiley

Section A Spontaneous pneumothorax

Records retrieved

Database	Records retrieved	Deduplicated records
MEDLINE ALL	3900	
EMBASE	6853	
CDSR	48	
CENTRAL	375	
Total	111876	7770

Database search strategies

MEDLINE ALL

- 1 exp pneumothorax/
- 2 pneumothor\$.ti,ab.
- 3 (collaps\$ adj1 lung\$).ti,ab.
- 4 or/1-3
- 5 exp pleurodesis/
- 6 pleurodesis.ti,ab.
- 7 5 or 6
- 8 observat\$.ti,ab.
- 9 conservativ\$.ti,ab.
- 10 ambula\$.ti,ab.
- 11 electiv\$.ti,ab.
- 12 exp thoracoscopy/
- 13 exp Thoracic Surgery, Video-Assisted/
- 14 exp thoracotomy/
- 15 (thoroscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab.
- 16 (((video-assisted or (video adj assisted)) adj thoracic\$ adj surger\$) or VATS).ti,ab.
- 17 pleurectom\$.ti,ab.
- 18 thoracotom\$.ti,ab.
- 19 abras\$.ti,ab.
- 20 or/12-19
- 21 exp thoracentesis/
- 22 (thoracentes\$ or aspiration\$).ti,ab.
- 23 (intercost\$ adj2 drain\$).ti,ab.
- 24 ((chest or surg\$) adj2 (drain\$ or tube\$)).ti,ab.
- 25 abras\$.ti,ab.
- 26 (aspirat\$ adj3 intercost\$).ti,ab.
- 27 or/21-26
- 28 talc.ti,ab.
- 29 bullectomy.ti,ab.
- 30 bulla\$.ti,ab.
- 31 29 or 30
- 32 (air\$ adj2 leak\$).ti,ab.
- 33 exp bronchial fistula/
- 34 (bronchi\$ adj2 fistul\$).ti,ab.
- 35 valv\$.ti,ab.
- 36 (blood\$ adj2 patch\$).ti,ab.

37 suction.ti,ab.
 38 or/32-37
 39 aspiration.ti,ab.
 40 (or/7-10) or 20 or 31 or 39
 41 27 or 35
 42 4 and 40 and 41
 43 (or/7-9) or 11 or 28 or 39
 44 20 or 31
 45 4 and 43 and 44
 46 (or/7-9) or 20 or 31 or 38
 47 4 and 27 and 46
 48 7 or 20 or 28
 49 4 and 31 and 48
 50 4 and 20
 51 42 or 45 or 47 or 49 or 50
 52 exp animals/ not humans/
 53 51 not 52
 54 limit 53 to english language

EMBASE

1 exp pneumothorax/
 2 pneumothor\$.ti,ab.
 3 (collaps\$ adj1 lung\$.ti,ab.
 4 or/1-3
 5 exp pleurodesis/
 6 pleurodesis.ti,ab.
 7 5 or 6
 8 exp observation/
 9 conservativ\$.ti,ab.
 10 ambula\$.ti,ab.
 11 electiv\$.ti,ab.
 12 exp thoracoscopy/
 13 exp Thoracic Surgery, Video-Assisted/
 14 exp thoracotomy/
 15 (thoroscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab.
 16 (((video-assisted or (video adj assisted)) adj thoracic\$ adj surger\$) or VATS).ti,ab.
 17 exp pleurectomy/
 18 pleurectom\$.ti,ab.
 19 thoracotom\$.ti,ab.
 20 exp abrasion/
 21 abrasion\$.ti,ab.
 22 or/12-21
 23 exp thoracentesis/
 24 exp aspiration/
 25 thoracent\$.ti,ab.
 26 aspiration.ti,ab.
 27 (intercost\$ adj2 drain\$.ti,ab.
 28 ((chest or surg\$) adj2 (drain\$ or tube\$)).ti,ab.
 29 abrasion.ti,ab.
 30 (aspirat\$ adj3 intercost\$).ti,ab.
 31 or/23-30
 32 exp talc/
 33 talc.ti,ab.

34 bullectomy.ti,ab.
 35 (air\$ adj2 leak\$).ti,ab.
 36 exp bronchial fistula/
 37 (bronchi\$ adj2 fistul\$).ti,ab.
 38 exp valve/
 39 one-way valve.ti,ab.
 40 heimlich valve.ti,ab.
 41 exp blood patch/
 42 (blood\$ adj2 patch\$).ti,ab.
 43 exp suction/
 44 suction.ti,ab.
 45 or/35-44
 46 aspiration.ti,ab.
 47 (or/7-10) or 22 or 34 or 46
 48 31 or 38 or 39 or 40
 49 4 and 47 and 48
 50 (or/7-9) or 11 or 24 or 27 or 32 or 33 or 46
 51 22 or 34
 52 4 and 50 and 51
 53 (or/7-9) or 22 or 34 or 45
 54 4 and 31 and 53
 55 7 or 22 or 32 or 33
 56 4 and 34 and 55
 57 4 and 22
 58 49 or 52 or 54 or 56 or 57
 59 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
 60 58 not 59
 61 limit 60 to english language
 62 limit 61 to conference abstracts
 63 61 not 62

Cochrane Database of Systematic Reviews (CDSR)

1 pneumothor\$.ti,ab,kw.

Cochrane Central Register of Controlled Trials (CENTRAL)

1 exp pneumothorax/
 2 pneumothor\$.ti,ab,kw.
 3 (collaps\$ adj1 lung\$).ti,ab,kw.
 4 or/1-3
 5 exp pleurodesis/
 6 pleurodes\$.ti,ab,kw.
 7 5 or 6
 8 exp observation/
 9 observat\$.ti,ab,kw.
 10 conservat\$.ti,ab,kw.
 11 ambula\$.ti,ab,kw.
 12 electiv\$.ti,ab,kw.
 13 exp thoracoscopy/
 14 exp Thoracic Surgery, Video-Assisted/
 15 exp thoracotomy/
 16 (thoracoscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab,kw.

17 (((video-assisted or (video adj assisted)) adj thoracic\$ adj surger\$) or VATS).ti,ab,kw.
18 pleurectom\$.ti,ab,kw.
19 thoracotom\$.ti,ab,kw.
20 abras\$.ti,ab,kw.
21 or/13-20
22 thoracent\$.ti,ab,kw.
23 aspirat\$.ti,ab,kw.
24 (intercost\$ adj2 drain\$).ti,ab,kw.
25 ((chest or surg\$) adj2 (drain\$ or tube\$)).ti,ab,kw.
26 abras\$.ti,ab,kw.
27 (aspirat\$ adj3 intercost\$).ti,ab,kw.
28 or/22-27
29 exp talc/
30 talc.ti,ab,kw.
31 bullect\$.ti,ab,kw.
32 (air\$ adj2 leak\$).ti,ab,kw.
33 exp bronchial fistula/
34 (bronchi\$ adj2 fistul\$).ti,ab,kw.
35 valv\$.ti,ab,kw.
36 (blood\$ adj2 patch\$).ti,ab,kw.
37 exp suction/
38 suction\$.ti,ab,kw.
39 or/32-38
40 aspiration.ti,ab,kw.
41 (or/7-11) or 21 or 31 or 40
42 28 or 35
43 4 and 41 and 42
44 (or/7-10) or 12 or 29 or 30 or 40
45 7 or 21 or 29 or 30 or 31
46 4 and 44 and 45
47 (or/7-10) or 21 or 31 or 39
48 4 and 28 and 47
49 7 or 21 or 29 or 30
50 4 and 31 and 49
51 4 and 21
52 42 or 46 or 48 or 50 or 51
53 limit 51 to english language

Section B Investigation of the undiagnosed pleural effusion

Records retrieved

Database	Question B1	Records retrieved		
		Questions B2-B6	Total	Deduplicated records
MEDLINE ALL	1696	2387	4083	
EMBASE	3448	3208	6656	
CDSR	2	4	6	
CENTRAL	370	283	653	
Total	5516	5882	11398	6773

Database search strategies

Question B1

MEDLINE ALL

- 1 exp Pleural Effusion/
- 2 (pleura\$ adj3 effus\$).ti,ab.
- 3 (pleura\$ adj3 fluid\$).ti,ab.
- 4 Empyema/
- 5 exp Empyema, Pleural/
- 6 empyema\$.ti,ab.
- 7 exp Tuberculosis, Pleural/
- 8 ((pleura\$ or effus\$ or pleuris\$) adj2 (tuberculo\$ or TB)).ti,ab.
- 9 (pleura\$ adj2 infect\$).ti,ab.
- 10 (parapneumonic adj2 (effus\$ or fluid\$)).ti,ab.
- 11 or/1-10
- 12 "Sensitivity and Specificity"/
- 13 "Predictive Value of Tests"/
- 14 roc curve/
- 15 false negative reactions/
- 16 False Positive Reactions/
- 17 (sensitivity or specificity or diagnostic\$).ti,ab.
- 18 (predictive adj3 value\$).ti,ab.
- 19 roc adj (curve\$ or analy\$).ti,ab.
- 20 Receiver Operating Characteristic\$.ti,ab.
- 21 (true adj (positiv\$ or negativ\$)).ti,ab.
- 22 (false adj (positiv\$ or negativ\$)).ti,ab.
- 23 or/12-22
- 24 11 and 23
- 25 Radiology/
- 26 exp Radiography, Thoracic/
- 27 exp Ultrasonography/
- 28 exp tomography, emission-computed/ or exp tomography, x-ray computed/
- 29 exp Magnetic Resonance Imaging/
- 30 radiolog\$.ti,ab.
- 31 (chest adj3 (xray\$ or x ray\$ or radiograph\$)).ti,ab.
- 32 CXR.ti,ab.

33 (ultrasound\$ or ultrasonograph\$ or sonograph\$).ti,ab.
 34 tomograph\$.ti,ab.
 35 PET.ti,ab.
 36 ((CT or CAT) adj (scan\$ or imag\$)).ti,ab.
 37 (cross-sectional adj2 (scan\$ or imag\$)).ti,ab.
 38 (magnetic resonance imag\$ or MRI or MR imag\$).ti,ab.
 39 or/25-38
 40 24 and 39
 41 exp animals/ not humans/
 42 40 not 41
 43 limit 42 to english language

EMBASE

1 exp pleura effusion/
 2 (pleura\$ adj3 effus\$).ti,ab.
 3 (pleura\$ adj3 fluid\$).ti,ab.
 4 empyema/
 5 pleura empyema/
 6 tuberculous empyema/
 7 empyema\$.ti,ab.
 8 tuberculous pleurisy/
 9 ((pleura\$ or effus\$ or pleuris\$) adj2 (tuberculo\$ or TB)).ti,ab.
 10 (pleura\$ adj2 infect\$).ti,ab.
 11 (parapneumonic adj2 (effus\$ or fluid\$)).ti,ab.
 12 or/1-11
 13 "sensitivity and specificity"/
 14 predictive value/
 15 receiver operating characteristic/
 16 false negative result/
 17 false positive result/
 18 diagnostic test accuracy study/
 19 (sensitivity or specificity or diagnostic\$).ti,ab.
 20 (predictive adj3 value\$).ti,ab.
 21 (roc adj (curve\$ or analy\$)).ti,ab.
 22 Receiver Operating Characteristic\$.ti,ab.
 23 (true adj (positiv\$ or negativ\$)).ti,ab.
 24 (false adj (positiv\$ or negativ\$)).ti,ab.
 25 or/13-24
 26 12 and 25
 27 radiology/
 28 thorax radiography/
 29 exp echography/
 30 exp tomography/
 31 exp nuclear magnetic resonance imaging/
 32 radiolog\$.ti,ab.
 33 (chest adj3 (xray\$ or x ray\$ or radiograph\$)).ti,ab.
 34 CXR.ti,ab.
 35 (ultrasound\$ or ultrasonograph\$ or sonograph\$).ti,ab.
 36 tomograph\$.ti,ab.
 37 PET.ti,ab.
 38 ((CT or CAT) adj (scan\$ or imag\$)).ti,ab.
 39 (cross-sectional adj2 (scan\$ or imag\$)).ti,ab.
 40 (magnetic resonance imag\$ or MRI or MR imag\$).ti,ab.
 41 or/27-40

- 42 26 and 41
- 43 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
- 44 42 not 43
- 45 limit 44 to english language
- 46 limit 45 to conference abstracts
- 47 45 not 46

Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Pleural Effusion] explode all trees
- #2 (pleura* near/3 effus*):ti,ab,kw
- #3 (pleura* near/3 fluid*):ti,ab,kw
- #4 MeSH descriptor: [Empyema] this term only
- #5 MeSH descriptor: [Empyema, Pleural] explode all trees
- #6 empyema*:ti,ab,kw
- #7 MeSH descriptor: [Tuberculosis, Pleural] explode all trees
- #8 ((pleura* or effus* or pleuris*) near/2 (tuberculo* or TB)):ti,ab,kw
- #9 (pleura* near/2 infect*):ti,ab,kw
- #10 (parapneumonic near/2 (effus* or fluid*)):ti,ab,kw
- #11 {OR #1-#10}
- #12 MeSH descriptor: [Radiology] this term only
- #13 MeSH descriptor: [Radiography, Thoracic] explode all trees
- #14 MeSH descriptor: [Ultrasonography] explode all trees
- #15 MeSH descriptor: [Tomography, Emission-Computed] explode all trees
- #16 MeSH descriptor: [Tomography, X-Ray Computed] explode all trees
- #17 MeSH descriptor: [Magnetic Resonance Imaging] explode all trees
- #18 radiolog*:ti,ab,kw
- #19 (chest near/3 (xray* or (x next ray*) or radiograph*)):ti,ab,kw
- #20 CXR:ti,ab,kw
- #21 (ultrasound* or ultrasonograph* or sonograph*):ti,ab,kw
- #22 tomograph*:ti,ab,kw
- #23 PET:ti,ab,kw
- #24 ((CT or CAT) next (scan* or imag*)):ti,ab,kw
- #25 ((cross next sectional) near/2 (scan* or imag*)):ti,ab,kw
- #26 ((magnetic next resonance next imag*) or MRI or (MR next imag\$)):ti,ab,kw
- #27 {OR #12-#26}
- #28 #11 and #27
- #29 #11 and #27 in Cochrane Reviews, Cochrane Protocols
- #30 #11 and #27 in Trials

Cochrane Central Register of Controlled Trials (CENTRAL)

See above under search strategy for CDSR.

Questions B2-B6

MEDLINE ALL

- 1 exp Pleural Effusion/
- 2 (pleura\$ adj3 effus\$).ti,ab.
- 3 (pleura\$ adj3 fluid\$).ti,ab.
- 4 or/1-3
- 5 exp Image-Guided Biopsy/
- 6 ((imag\$ or scan\$) adj2 guid\$).ti,ab.

7 ((ultrasound\$ or US or sonograph\$ or tomograph\$ or CT or CAT or cross-sectional or xray\$ or x-ray\$
 or radiograph\$) adj2 guid\$).ti,ab.
 8 or/5-7
 9 4 and 8
 10 exp animals/ not humans/
 11 9 not 10
 12 limit 11 to english language
 13 exp Pleural Effusion/
 14 (pleura\$ adj3 effus\$).ti,ab.
 15 (pleura\$ adj3 fluid\$).ti,ab.
 16 or/13-15
 17 Thoracentesis/
 18 Paracentesis/
 19 (pleura\$ adj2 aspirat\$).ti,ab.
 20 (thoracentes\$ or thoracocentes\$).ti,ab.
 21 (paracentes\$ adj6 pleura\$).ti,ab.
 22 or/17-21
 23 16 and 22
 24 (pleura\$ adj (fluid\$ or effus\$ or aspirat\$) adj2 (analys\$ or analyz\$ or test\$ or sampl\$)).ti,ab.
 25 23 or 24
 26 (volume\$ or quantit\$).ti,ab.
 27 (container\$ or Bactec or ((plain or biochem\$) adj (tube or tubes)) or specimen cup\$ or drainage
 bag\$).ti,ab.
 28 26 or 27
 29 25 and 28
 30 exp animals/ not humans/
 31 29 not 30
 32 limit 31 to english language
 33 exp Pleural Effusion/
 34 (pleura\$ adj3 effus\$).ti,ab.
 35 33 or 34
 36 (pleura\$ adj3 fluid\$).ti,ab.
 37 35 and 36
 38 "Sensitivity and Specificity"/
 39 "Predictive Value of Tests"/
 40 roc curve/
 41 false negative reactions/
 42 False Positive Reactions/
 43 (sensitivity or specificity or diagnostic\$).ti,ab.
 44 (predictive adj3 value\$).ti,ab.
 45 (roc adj (curve\$ or analy\$)).ti,ab.
 46 Receiver Operating Characteristic\$.ti,ab.
 47 (true adj (positiv\$ or negativ\$)).ti,ab.
 48 (false adj (positiv\$ or negativ\$)).ti,ab.
 49 or/38-48
 50 37 and 49
 51 exp animals/ not humans/
 52 50 not 51
 53 limit 52 to english language
 54 exp Pleural Effusion/
 55 (pleura\$ adj3 effus\$).ti,ab.
 56 (pleura\$ adj3 fluid\$).ti,ab.
 57 or/54-56
 58 Biopsy/
 59 exp Biopsy, Needle/

60 58 or 59
 61 Pleura/
 62 60 and 61
 63 (pleura\$ adj3 biops\$).ti,ab.
 64 62 or 63
 65 57 and 64
 66 exp Thoracoscopy/
 67 (thoroscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab.
 68 66 or 67
 69 57 and 68
 70 65 or 69
 71 "Sensitivity and Specificity"/
 72 "Predictive Value of Tests"/
 73 roc curve/
 74 false negative reactions/
 75 False Positive Reactions/
 76 (sensitivity or specificity or diagnostic\$).ti,ab.
 77 (predictive adj3 value\$).ti,ab.
 78 (roc adj (curve\$ or analy\$)).ti,ab.
 79 Receiver Operating Characteristic\$.ti,ab.
 80 (true adj (positiv\$ or negativ\$)).ti,ab.
 81 (false adj (positiv\$ or negativ\$)).ti,ab.
 82 or/71-81
 83 70 and 82
 84 exp animals/ not humans/
 85 83 not 84
 86 limit 85 to english language
 87 12 or 32 or 53 or 86

EMBASE

1 exp pleura effusion/
 2 (pleura\$ adj3 effus\$).ti,ab.
 3 (pleura\$ adj3 fluid\$).ti,ab.
 4 or/1-3
 5 exp image guided biopsy/
 6 ((imag\$ or scan\$) adj2 guid\$).ti,ab.
 7 ((ultrasound\$ or US or tomograph\$ or CT or CAT or cross-sectional or xray\$ or x-ray\$ or radiograph\$)
 adj2 guid\$).ti,ab.
 8 or/5-7
 9 4 and 8
 10 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
 11 9 not 10
 12 limit 11 to english language
 13 limit 12 to conference abstracts
 14 12 not 13
 15 exp pleura effusion/
 16 (pleura\$ adj3 effus\$).ti,ab.
 17 (pleura\$ adj3 fluid\$).ti,ab.
 18 or/15-17
 19 thoracocentesis/
 20 paracentesis/
 21 (pleura\$ adj2 aspirat\$).ti,ab.
 22 (thoracentes\$ or thoracocentes\$).ti,ab.

23 (paracentes\$ adj6 pleura\$).ti,ab.
 24 or/19-23
 25 18 and 24
 26 (pleura\$ adj (fluid\$ or effus\$ or aspirat\$) adj2 (analys\$ or analyz\$ or test\$ or sampl\$)).ti,ab.
 27 25 or 26
 28 volume/
 29 (volume\$ or quantit\$).ti,ab.
 30 (container\$ or Bactec or ((plain or biochem\$) adj (tube or tubes)) or specimen cup\$ or drainage
 bag\$).ti,ab.
 31 or/28-30
 32 27 and 31
 33 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
 34 32 not 33
 35 limit 34 to english language
 36 limit 35 to conference abstracts
 37 35 not 36
 38 exp pleura effusion/
 39 (pleura\$ adj3 effus\$).ti,ab.
 40 38 or 39
 41 pleura fluid/
 42 (pleura\$ adj3 fluid\$).ti,ab.
 43 41 or 42
 44 40 and 43
 45 "sensitivity and specificity"/
 46 predictive value/
 47 receiver operating characteristic/
 48 false negative result/
 49 false positive result/
 50 diagnostic test accuracy study/
 51 (sensitivity or specificity or diagnostic\$).ti,ab.
 52 (predictive adj3 value\$).ti,ab.
 53 (roc adj (curve\$ or analy\$)).ti,ab.
 54 Receiver Operating Characteristic\$.ti,ab.
 55 (true adj (positiv\$ or negativ\$)).ti,ab.
 56 (false adj (positiv\$ or negativ\$)).ti,ab.
 57 or/45-56
 58 44 and 57
 59 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
 60 58 not 59
 61 limit 60 to english language
 62 limit 61 to conference abstracts
 63 61 not 62
 64 exp pleura effusion/
 65 (pleura\$ adj3 effus\$).ti,ab.
 66 (pleura\$ adj3 fluid\$).ti,ab.
 67 or/64-66
 68 pleura biopsy/
 69 (pleura\$ adj3 biops\$).ti,ab.
 70 68 or 69
 71 67 and 70
 72 thoracoscopy/
 73 (thoroscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab.
 74 72 or 73
 75 67 and 74
 76 71 or 75

77 "sensitivity and specificity"/
78 predictive value/
79 receiver operating characteristic/
80 false negative result/
81 false positive result/
82 diagnostic test accuracy study/
83 (sensitivity or specificity or diagnostic\$).ti,ab.
84 (predictive adj3 value\$).ti,ab.
85 (roc adj (curve\$ or analy\$)).ti,ab.
86 Receiver Operating Characteristic\$.ti,ab.
87 (true adj (positiv\$ or negativ\$)).ti,ab.
88 (false adj (positiv\$ or negativ\$)).ti,ab.
89 or/77-88
90 76 and 89
91 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
92 90 not 91
93 limit 92 to english language
94 limit 93 to conference abstracts
95 93 not 94
96 14 or 37 or 63 or 95

Cochrane Database of Systematic Reviews (CDSR)

#1 MeSH descriptor: [Pleural Effusion] explode all trees
#2 (pleura* near/3 effus*):ti,ab,kw
#3 (pleura* near/3 fluid*):ti,ab,kw
#4 #1 or #2 or #3
#5 MeSH descriptor: [Image-Guided Biopsy] explode all trees
#6 ((imag* or scan*) near/2 guid*):ti,ab,kw
#7 ((ultrasound* or US or sonograph* or tomograph* or CT or CAT or cross-sectional or xray* or x-ray* or radiograph*) near/2 guid*):ti,ab,kw
#8 #5 or #6 or #7
#9 #4 and #8
#10 MeSH descriptor: [Thoracentesis] this term only
#11 MeSH descriptor: [Paracentesis] this term only
#12 (pleura* near/2 aspirat*):ti,ab,kw
#13 (thoracentes* or thoracocentes*):ti,ab,kw
#14 (paracentes* near/6 pleura*):ti,ab,kw
#15 {OR #10-#14}
#16 #4 and #15
#17 (pleura* next (fluid* or effus* or aspirat*) near/2 (analys* or analyz* or test* or sampl*)):ti,ab,kw
#18 #16 or #17
#19 (volume* or quantit*):ti,ab,kw
#20 (container* or Bactec or ((plain or biochem*) next (tube or tubes)) or specimen next cup* or drainage next bag*):ti,ab,kw
#21 #19 or #20
#22 #18 and #21
#23 MeSH descriptor: [Pleural Effusion] explode all trees
#24 (pleura* near/3 effus*):ti,ab,kw
#25 #23 or #24
#26 (pleura* near/3 fluid*):ti,ab,kw
#27 #25 and #26
#28 MeSH descriptor: [Biopsy] this term only
#29 MeSH descriptor: [Biopsy, Needle] explode all trees

- #30 #28 or #29
- #31 MeSH descriptor: [Pleura] this term only
- #32 #30 and #31
- #33 (pleura* near/3 biops*):ti,ab,kw
- #34 #32 or #33
- #35 #4 and #34
- #36 MeSH descriptor: [Thoracoscopy] explode all trees
- #37 (thoroscop* or pleuroscop* or (pleura* next endoscop*)):ti,ab,kw
- #38 #36 or #37
- #39 #4 and #38
- #40 #35 or #39
- #41 #9 or #22 or #27 or #40
- #42 #9 or #22 or #27 or #40 in Cochrane Reviews, Cochrane Protocols
- #43 #9 or #22 or #27 or #40 in Trials

Cochrane Central Register of Controlled Trials (CENTRAL)

See above under search strategy for CDSR.

Section C Pleural infection

Records retrieved

Database	Records retrieved	Deduplicated records
MEDLINE ALL	1732	
EMBASE	4622	
CDSR	3	
CENTRAL	108	
Total	6465	4138

Database search strategies

MEDLINE ALL

- 1 exp pleural empyema/
- 2 (pleura\$ adj2 infect\$).ti,ab.
- 3 (parapneumon\$ adj3 effusi\$).ti,ab.
- 4 (pleura\$ adj2 empyem\$).ti,ab.
- 5 or/1-4
- 6 ((clinic\$ or prognos\$ or predict\$) adj2 (scor\$ or measur\$ or index\$ or indice\$ or indicator\$)).ti,ab.
- 7 5 and 6
- 8 exp Ultrasonography/
- 9 exp tomography, emission-computed/ or exp tomography, x-ray computed/
- 10 (ultrasound\$ or ultrasonograph\$ or sonograph\$).ti,ab.
- 11 tomograph\$.ti,ab.
- 12 (CT or ((CT or CAT) adj (scan\$ or imag\$))).ti,ab.
- 13 or/8-12
- 14 exp thorax/
- 15 (thora\$ or chest).ti,ab.

16 14 or 15
 17 13 and 16
 18 5 and 17
 19 (stage\$ or stagi\$).ti,ab.
 20 ((fine adj class\$) or fine-class\$).ti,ab.
 21 19 or 20
 22 5 and 21
 23 18 and 22
 24 exp Mass Chest X-Ray/
 25 (CXR or (chest adj3 (xray\$ or x ray\$ or x-ray\$ or radiograph\$))).ti,ab.
 26 24 or 25
 27 5 and 26
 28 18 or 27
 29 ((pleura\$ adj3 fluid\$) or (pleura\$ adj3 biops\$) or (pleura\$ adj3 microbiol\$)).ti,ab.
 30 5 and 29
 31 28 and 30
 32 exp Thoracentesis/
 33 (thoracentes\$ or aspiration\$).ti,ab.
 34 (intercost\$ adj2 drainag\$).ti,ab.
 35 (chest adj2 (drainag\$ or tube\$)).ti,ab.
 36 exp thoracoscopy/
 37 exp Thoracic Surgery, Video-Assisted/
 38 exp thoracotomy/
 39 (thoracoscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab.
 40 (((video-assisted or (video adj assisted)) adj thoracic\$ adj surger\$) or VATS).ti,ab.
 41 thoracotom\$.ti,ab.
 42 or/32-41
 43 5 and 42
 44 7 or 18 or 23 or 31 or 43
 45 exp animals/ not humans/
 46 44 not 45
 47 limit 46 to english language

EMBASE

1 exp pleura empyema/
 2 exp pleura infection/
 3 (pleura\$ adj2 empyem\$).ti,ab.
 4 (pleura\$ adj2 infect\$).ti,ab.
 5 (parapneumon\$ adj3 effusi\$).ti,ab.
 6 or/1-5
 7 ((clinic\$ or prognos\$ or predict\$) adj2 (scor\$ or measur\$ or index\$ or indice\$ or indicator\$)).ti,ab.
 8 6 and 7
 9 exp Ultrasonography/
 10 exp tomography, emission-computed/ or exp tomography, x-ray computed/
 11 (ultrasound\$ or ultrasonograph\$ or sonograph\$).ti,ab.
 12 tomograph\$.ti,ab.
 13 (CT or ((CT or CAT) adj (scan\$ or imag\$))).ti,ab.
 14 exp computed tomography/
 15 or/9-14
 16 exp thorax/
 17 (thora\$ or chest).ti,ab.
 18 16 or 17
 19 15 and 18

20 6 and 19
 21 exp staging/
 22 (stage\$ or stagi\$).ti,ab.
 23 ((fine adj class\$) or fine-class\$).ti,ab.
 24 or/21-23
 25 20 and 24
 26 exp chest xray/
 27 (CXR or (chest adj3 (xray\$ or x ray\$ or x-ray\$ or radiograph\$))).ti,ab.
 28 26 or 27
 29 6 and 28
 30 20 or 29
 31 exp pleura fluid/
 32 exp pleura biopsy/
 33 ((pleura\$ adj3 fluid\$) or (pleura\$ adj3 biops\$) or (pleura\$ adj3 microbiol\$)).ti,ab.
 34 or/31-33
 35 6 and 34
 36 30 and 35
 37 exp Thoracentesis/
 38 (thoracentes\$ or aspiration\$).ti,ab.
 39 exp aspiration/
 40 exp chest drain/
 41 exp chest drainage/
 42 (chest adj2 (drainag\$ or tube\$)).ti,ab.
 43 exp thoracoscopy/
 44 exp Thoracic Surgery, Video-Assisted/
 45 exp thoracotomy/
 46 exp pleurectomy/
 47 thoracoscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab.
 48 (((video-assisted or (video adj assisted)) adj thoracic\$ adj surger\$) or VATS).ti,ab.
 49 thoracotom\$.ti,ab.
 50 or/37-49
 51 6 and 50
 52 8 or 20 or 25 or 36 or 51
 53 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
 54 52 not 53
 55 limit 54 to english language
 56 limit 55 to conference abstracts
 57 55 not 56

Cochrane Database of Systematic Reviews (CDSR)

1 (pleura\$ adj2 empyem\$).ti,ab,kw.
 2 (pleura\$ adj2 infect\$).ti,ab,kw.
 3 (parapneumon\$ adj3 effusi\$).ti,ab,kw.
 4 or/1-3

Cochrane Central Register of Controlled Trials (CENTRAL)

1 exp Empyema, Pleural/
 2 (pleura\$ adj2 infect\$).ti,ab,kw.
 3 (parapneumon\$ adj3 effusi\$).ti,ab,kw.
 4 (pleura\$ adj2 empyem\$).ti,ab,kw.
 5 or/1-4
 6 ((clinic\$ or prognos\$ or predict\$) adj2 (scor\$ or measur\$ or index\$ or indice\$ or indicator\$)).ti,ab,kw.
 7 5 and 6

8 exp Ultrasonography/
9 exp tomography, emission-computed/ or exp tomography, x-ray computed/
10 (ultrasound\$ or ultrasonograph\$ or sonograph\$).ti,ab,kw.
11 tomograph\$.ti,ab,kw.
12 (CT or ((CT or CAT) adj (scan\$ or imag\$))).ti,ab,kw.
13 or/8-12
14 exp thorax/
15 (thora\$ or chest).ti,ab,kw.
16 14 or 15
17 13 and 16
18 5 and 17
19 (stage\$ or stagi\$).ti,ab,kw.
20 ((fine adj class\$) or fine-class\$).ti,ab,kw.
21 19 or 20
22 5 and 21
23 18 and 22
24 exp Mass Chest X-Ray/
25 (CXR or (chest adj3 (xray\$ or x ray\$ or x-ray\$ or radiograph\$))).ti,ab,kw.
26 24 or 25
27 5 and 26
28 18 or 27
29 ((pleura\$ adj3 fluid\$) or (pleura\$ adj3 biops\$) or (pleura\$ adj3 microbiol\$)).ti,ab,kw.
30 5 and 29
31 28 and 30
32 (thoracent\$ or aspiration\$).ti,ab,kw.
33 (intercost\$ adj2 drain\$).ti,ab,kw.
34 (chest adj2 (drain\$ or tube\$)).ti,ab,kw.
35 exp thoracoscopy/
36 exp Thoracic Surgery, Video-Assisted/
37 exp thoracotomy/
38 (thoracoscop\$ or pleuroscop\$ or (pleura\$ adj endoscop\$)).ti,ab,kw.
39 (((video-assisted or (video adj assisted)) adj thoracic\$ adj surger\$) or VATS).ti,ab,kw.
40 thoracotom\$.ti,ab,kw.
41 or/32-40
42 5 and 41
43 7 or 18 or 23 or 31 or 42
44 limit 43 to english language

Section D Pleural malignancy

Records retrieved

Database	Question D1	Records retrieved		Deduplicated records
		Questions D2-D12	Total	
MEDLINE ALL	1375	8319	9694	
EMBASE	1690	10032	11722	
CDSR	0	5	5	
CENTRAL	411	1373	1784	
Total	3476	19729	23205	14276

Database search strategies

Question D1

MEDLINE ALL

- 1 exp Pleural Neoplasms/
- 2 exp Mesothelioma/
- 3 (pleura\$ and (cancer\$ or neoplas\$ or carcinoma\$ or tumour\$ or tumor\$ or malignan\$ or metastas\$ or metastat\$)).ti,ab.
- 4 mesothelioma\$.ti,ab.
- 5 or/1-4
- 6 "Sensitivity and Specificity"/
- 7 "Predictive Value of Tests"/
- 8 roc curve/
- 9 false negative reactions/
- 10 False Positive Reactions/
- 11 (sensitivity or specificity or diagnostic\$).ti,ab.
- 12 (predictive adj3 value\$).ti,ab.
- 13 (roc adj (curve\$ or analy\$)).ti,ab.
- 14 Receiver Operating Characteristic\$.ti,ab.
- 15 (true adj (positiv\$ or negativ\$)).ti,ab.
- 16 (false adj (positiv\$ or negativ\$)).ti,ab.
- 17 or/6-16
- 18 5 and 17
- 19 Radiology/
- 20 exp Ultrasonography/
- 21 exp tomography, emission-computed/ or exp tomography, x-ray computed/
- 22 exp Magnetic Resonance Imaging/
- 23 radiolog\$.ti,ab.
- 24 (ultrasound\$ or ultrasonograph\$ or sonograph\$).ti,ab.
- 25 tomograph\$.ti,ab.
- 26 PET.ti,ab.
- 27 ((CT or CAT) adj (scan\$ or imag\$)).ti,ab.
- 28 (cross-sectional adj2 (scan\$ or imag\$)).ti,ab.
- 29 (magnetic resonance imag\$ or MRI or MR imag\$).ti,ab.
- 30 or/19-29
- 31 18 and 30
- 32 exp animals/ not humans/
- 33 31 not 32
- 34 limit 33 to english language

EMBASE

- 1 exp pleura tumor/
- 2 pleura mesothelioma/
- 3 malignant pleura effusion/
- 4 (pleura\$ and (cancer\$ or neoplas\$ or carcinoma\$ or tumour\$ or tumor\$ or malignan\$ or metastas\$ or metastat\$)).ti,ab.
- 5 mesothelioma\$.ti,ab.
- 6 1 or 2 or 3 or 4 or 5
- 7 "sensitivity and specificity"/
- 8 predictive value/
- 9 receiver operating characteristic/
- 10 false negative result/

11 false positive result/
 12 diagnostic test accuracy study/
 13 (sensitivity or specificity or diagnostic\$).ti,ab.
 14 (predictive adj3 value\$).ti,ab.
 15 (roc adj (curve\$ or analy\$)).ti,ab.
 16 Receiver Operating Characteristic\$.ti,ab.
 17 (true adj (positiv\$ or negativ\$)).ti,ab.
 18 (false adj (positiv\$ or negativ\$)).ti,ab.
 19 or/7-18
 20 6 and 19
 21 radiology/
 22 exp echography/
 23 exp tomography/
 24 exp nuclear magnetic resonance imaging/
 25 radiolog\$.ti,ab.
 26 (ultrasound\$ or ultrasonograph\$ or sonograph\$).ti,ab.
 27 tomograph\$.ti,ab.
 28 PET.ti,ab.
 29 ((CT or CAT) adj (scan\$ or imag\$)).ti,ab.
 30 (cross-sectional adj2 (scan\$ or imag\$)).ti,ab.
 31 (magnetic resonance imag\$ or MRI or MR imag\$).ti,ab.
 32 or/21-31
 33 20 and 32
 34 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
 35 33 not 34
 36 limit 35 to english language
 37 limit 36 to conference abstracts
 38 36 not 37

Cochrane Database of Systematic Reviews (CDSR)

#1 MeSH descriptor: [Pleural Neoplasms] explode all trees
 #2 MeSH descriptor: [Mesothelioma] explode all trees
 #3 (pleura* and (cancer* or neoplas* or carcinoma* or tumour* or tumor* or malignan* or metastas* or metastat*)):ti,ab,kw
 #4 mesothelioma*:ti,ab,kw
 #5 #1 or #2 or #3 or #4
 #6 MeSH descriptor: [Radiology] this term only
 #7 MeSH descriptor: [Ultrasonography] explode all trees
 #8 MeSH descriptor: [Tomography, Emission-Computed] explode all trees
 #9 MeSH descriptor: [Tomography, X-Ray Computed] explode all trees
 #10 MeSH descriptor: [Magnetic Resonance Imaging] explode all trees
 #11 radiolog*:ti,ab,kw
 #12 (ultrasound* or ultrasonograph* or sonograph*):ti,ab,kw
 #13 tomograph*:ti,ab,kw
 #14 PET:ti,ab,kw
 #15 ((CT or CAT) next (scan* or imag*)):ti,ab,kw
 #16 ((cross next sectional) near/2 (scan* or imag*)):ti,ab,kw
 #17 ((magnetic next resonance next imag*) or MRI or (MR next imag\$)):ti,ab,kw
 #18 {OR #6-#17}
 #19 #5 and #18
 #20 #5 and #18 in Cochrane Reviews, Cochrane Protocols
 #21 #5 and #18 in Trials

Cochrane Central Register of Controlled Trials (CENTRAL)

See above under search strategy for CDSR.

Questions D2-D12

MEDLINE ALL

- 1 exp Pleural Neoplasms/
- 2 exp Mesothelioma/
- 3 (pleura\$ and (cancer\$ or neoplas\$ or carcinoma\$ or tumour\$ or tumor\$ or malignan\$ or metastas\$ or metastat\$)).ti,ab.
- 4 mesothelioma\$.ti,ab.
- 5 or/1-4
- 6 Pleurodesis/
- 7 pleurodesis.ti,ab.
- 8 6 or 7
- 9 5 and 8
- 10 Thoracentesis/
- 11 Paracentesis/
- 12 (pleura\$ adj2 aspirat\$).ti,ab.
- 13 (thoracentes\$ or thoracocentes\$).ti,ab.
- 14 (paracentes\$ adj6 pleura\$).ti,ab.
- 15 or/10-14
- 16 5 and 15
- 17 Talc/
- 18 talc.ti,ab.
- 19 17 or 18
- 20 5 and 19
- 21 Thoracic Surgical Procedures/
- 22 pleurectom\$.ti,ab.
- 23 decorticat\$.ti,ab.
- 24 abras\$.ti,ab.
- 25 or/21-24
- 26 5 and 25
- 27 Drainage/
- 28 (drain\$ adj3 pleura\$).ti,ab.
- 29 27 or 28
- 30 5 and 29
- 31 ((prognostic or predict\$) adj2 (scor\$ or measur\$ or index\$ or indice\$ or indicator\$)).ti,ab.
- 32 5 and 31
- 33 Enzyme Therapy/
- 34 Enzymes/
- 35 Fibrinolytic Agents/
- 36 Tissue Plasminogen Activator/
- 37 exp Deoxyribonucleases/
- 38 (enzyme\$ and (intrapleura\$ or intra pleura\$)).ti,ab.
- 39 fibrinolytic\$.ti,ab.
- 40 (tissue plasminogen activator\$ or tPA).ti,ab.
- 41 (deoxyribonuclease\$ or DNase).ti,ab.
- 42 or/33-41
- 43 5 and 42
- 44 exp Antineoplastic Agents/
- 45 Molecular Targeted Therapy/
- 46 (chemotherap\$ or chemo therap\$).ti,ab.

47 (targeted adj2 (therap\$ or drug\$)).ti,ab.
 48 Immunotherapy/
 49 (immunotherap\$ or immuno therap\$).ti,ab.
 50 exp Antineoplastic Agents, Hormonal/
 51 (hormon\$ adj2 (therap\$ or treatment\$ or intervention\$ or drug\$ or agent\$)).ti,ab.
 52 exp Administration, Intravenous/
 53 (systemic\$ adj2 (therap\$ or treatment\$ or intervention\$ or drug\$ or agent\$)).ti,ab.
 54 ((intravenous\$ or IV) adj2 (therap\$ or treatment\$ or intervention\$ or drug\$ or agent\$)).ti,ab.
 55 or/44-54
 56 5 and 55
 57 9 or 16 or 20 or 26 or 30 or 32 or 43 or 56
 58 exp animals/ not humans/
 59 57 not 58
 60 limit 59 to english language

EMBASE

1 exp pleura tumor/
 2 pleura mesothelioma/
 3 malignant pleura effusion/
 4 (pleura\$ and (cancer\$ or neoplas\$ or carcinoma\$ or tumour\$ or tumor\$ or malignan\$ or metastas\$ or metastat\$)).ti,ab.
 5 mesothelioma\$.ti,ab.
 6 or/1-5
 7 pleurodesis/
 8 pleurodesis.ti,ab.
 9 7 or 8
 10 6 and 9
 11 thoracocentesis/
 12 paracentesis/
 13 (pleura\$ adj2 aspirat\$).ti,ab.
 14 (thoracentes\$ or thoracocentes\$).ti,ab.
 15 (paracentes\$ adj6 pleura\$).ti,ab.
 16 or/11-15
 17 6 and 16
 18 talc/
 19 talc.ti,ab.
 20 18 or 19
 21 6 and 20
 22 thorax surgery/
 23 pleurectom\$.ti,ab.
 24 pleurectomy/
 25 decorticat\$.ti,ab.
 26 abras\$.ti,ab.
 27 or/22-26
 28 6 and 27
 29 thorax drainage/
 30 (drain\$ adj3 pleura\$).ti,ab.
 31 29 or 30
 32 6 and 31
 33 ((prognostic or predict\$) adj2 (scor\$ or measur\$ or index\$ or indice\$ or indicator\$)).ti,ab.
 34 6 and 33
 35 enzyme therapy/
 36 enzyme/

37 fibrinolytic agent/
 38 tissue plasminogen activator/
 39 deoxyribonuclease/
 40 (enzyme\$ and (intrapleura\$ or intra pleura\$)).ti,ab.
 41 fibrinolytic\$.ti,ab.
 42 (tissue plasminogen activator\$ or tPA).ti,ab.
 43 (deoxyribonuclease\$ or DNase).ti,ab.
 44 or/35-43
 45 6 and 44
 46 exp chemotherapy/
 47 molecularly targeted therapy/
 48 (chemotherap\$ or chemo therap\$).ti,ab.
 49 (targeted adj2 (therap\$ or drug\$)).ti,ab.
 50 exp immunotherapy/
 51 (immunotherap\$ or immuno therap\$).ti,ab.
 52 cancer hormone therapy/
 53 (hormon\$ adj2 (therap\$ or treatment\$ or intervention\$ or drug\$ or agent\$)).ti,ab.
 54 systemic therapy/
 55 intravenous drug administration/
 56 (systemic\$ adj2 (therap\$ or treatment\$ or intervention\$ or drug\$ or agent\$)).ti,ab.
 57 ((intravenous\$ or IV) adj2 (therap\$ or treatment\$ or intervention\$ or drug\$ or agent\$)).ti,ab.
 58 or/46-57
 59 6 and 58
 60 10 or 17 or 21 or 28 or 32 or 34 or 45 or 59
 61 (animal/ or animal experiment/ or animal model/ or animal tissue/ or nonhuman/) not exp human/
 62 60 not 61
 63 limit 62 to english language
 64 limit 63 to conference abstracts
 65 63 not 64

Cochrane Database of Systematic Reviews (CDSR)

#1 MeSH descriptor: [Pleural Neoplasms] explode all trees
 #2 MeSH descriptor: [Mesothelioma] explode all trees
 #3 (pleura* and (cancer* or neoplas* or carcinoma* or tumour* or tumor* or malignan* or metastas* or metastat*)):ti,ab,kw
 #4 mesothelioma*:ti,ab,kw
 #5 #1 or #2 or #3 or #4
 #6 MeSH descriptor: [Pleurodesis] this term only
 #7 pleurodesis:ti,ab,kw
 #8 #6 or #7
 #9 #5 and #8
 #10 MeSH descriptor: [Thoracentesis] this term only
 #11 MeSH descriptor: [Paracentesis] this term only
 #12 (pleura* near/2 aspirat*):ti,ab,kw
 #13 (thoracentes* or thoracocentes*):ti,ab,kw
 #14 (paracentes* near/6 pleura*):ti,ab,kw
 #15 {OR #10-#14}
 #16 #5 and #15
 #17 MeSH descriptor: [Talc] this term only
 #18 talc:ti,ab,kw
 #19 #17 or #18
 #20 #5 and #19
 #21 MeSH descriptor: [Thoracic Surgical Procedures] this term only

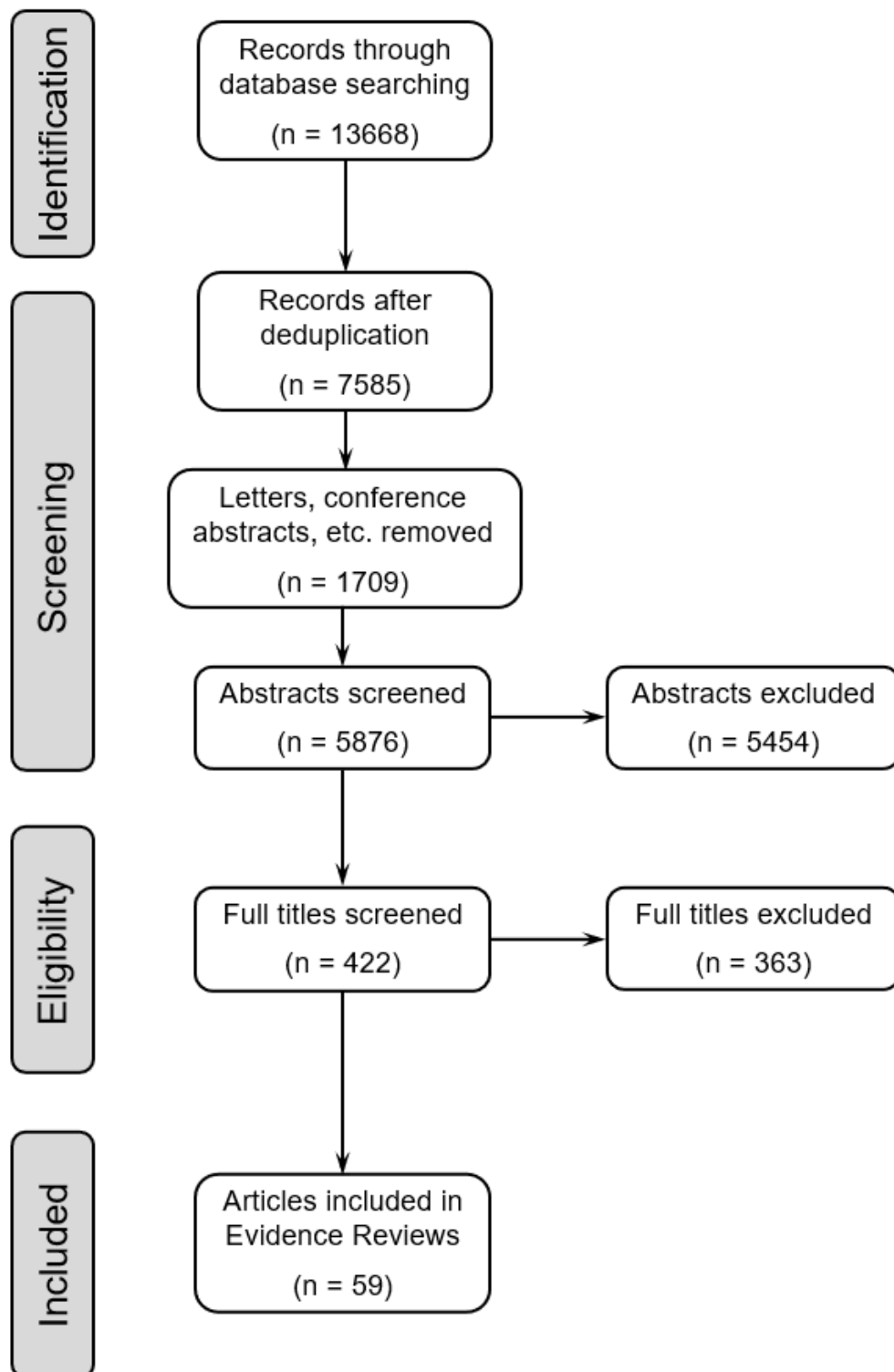
- #22 pleurectom*:ti,ab,kw
- #23 decorticat*:ti,ab,kw
- #24 abras*:ti,ab,kw
- #25 {OR #21-#24}
- #26 #5 and #25
- #27 MeSH descriptor: [Drainage] this term only
- #28 (drain* near/3 pleura*):ti,ab,kw
- #29 #27 or #28
- #30 #5 and #29
- #31 ((prognostic or predict*) near/2 (scor* or measur* or index* or indice* or indicator*)):ti,ab,kw
- #32 #5 and #31
- #33 MeSH descriptor: [Enzyme Therapy] this term only
- #34 MeSH descriptor: [Enzymes] this term only
- #35 MeSH descriptor: [Fibrinolytic Agents] this term only
- #36 MeSH descriptor: [Tissue Plasminogen Activator] this term only
- #37 MeSH descriptor: [Deoxyribonucleases] explode all trees
- #38 (enzyme* and (intrapleura* or intra pleura*)):ti,ab,kw
- #39 fibrinolytic*:ti,ab,kw
- #40 ((tissue next plasminogen next activator*) or tPA):ti,ab,kw
- #41 (deoxyribonuclease* or DNase):ti,ab,kw
- #42 {OR #33-#41}
- #43 #5 and #42
- #44 MeSH descriptor: [Antineoplastic Agents] explode all trees
- #45 MeSH descriptor: [Molecular Targeted Therapy] this term only
- #46 (chemotherap* or (chemo next therap*)):ti,ab,kw
- #47 (targeted near/2 (therap* or drug*)):ti,ab,kw
- #48 MeSH descriptor: [Immunotherapy] this term only
- #49 (immunotherap* or (immuno next therap*)):ti,ab,kw
- #50 MeSH descriptor: [Antineoplastic Agents, Hormonal] explode all trees
- #51 (hormon* near/2 (therap* or treatment* or intervention* or drug* or agent*)):ti,ab,kw
- #52 MeSH descriptor: [Administration, Intravenous] explode all trees
- #53 (systemic* near/2 (therap* or treatment* or intervention* or drug* or agent*)):ti,ab,kw
- #54 ((intravenous* or IV) near/2 (therap* or treatment* or intervention* or drug* or agent*)):ti,ab,kw
- #55 {OR #44-#54}
- #56 #5 and #55
- #57 #9 or #16 or #20 or #26 or #30 or #32 or #43 or #56
- #58 #9 or #16 or #20 or #26 or #30 or #32 or #43 or #56 in Cochrane Reviews, Cochrane Protocols
- #59 #9 or #16 or #20 or #26 or #30 or #32 or #43 or #56 in Trials

Cochrane Central Register of Controlled Trials (CENTRAL)

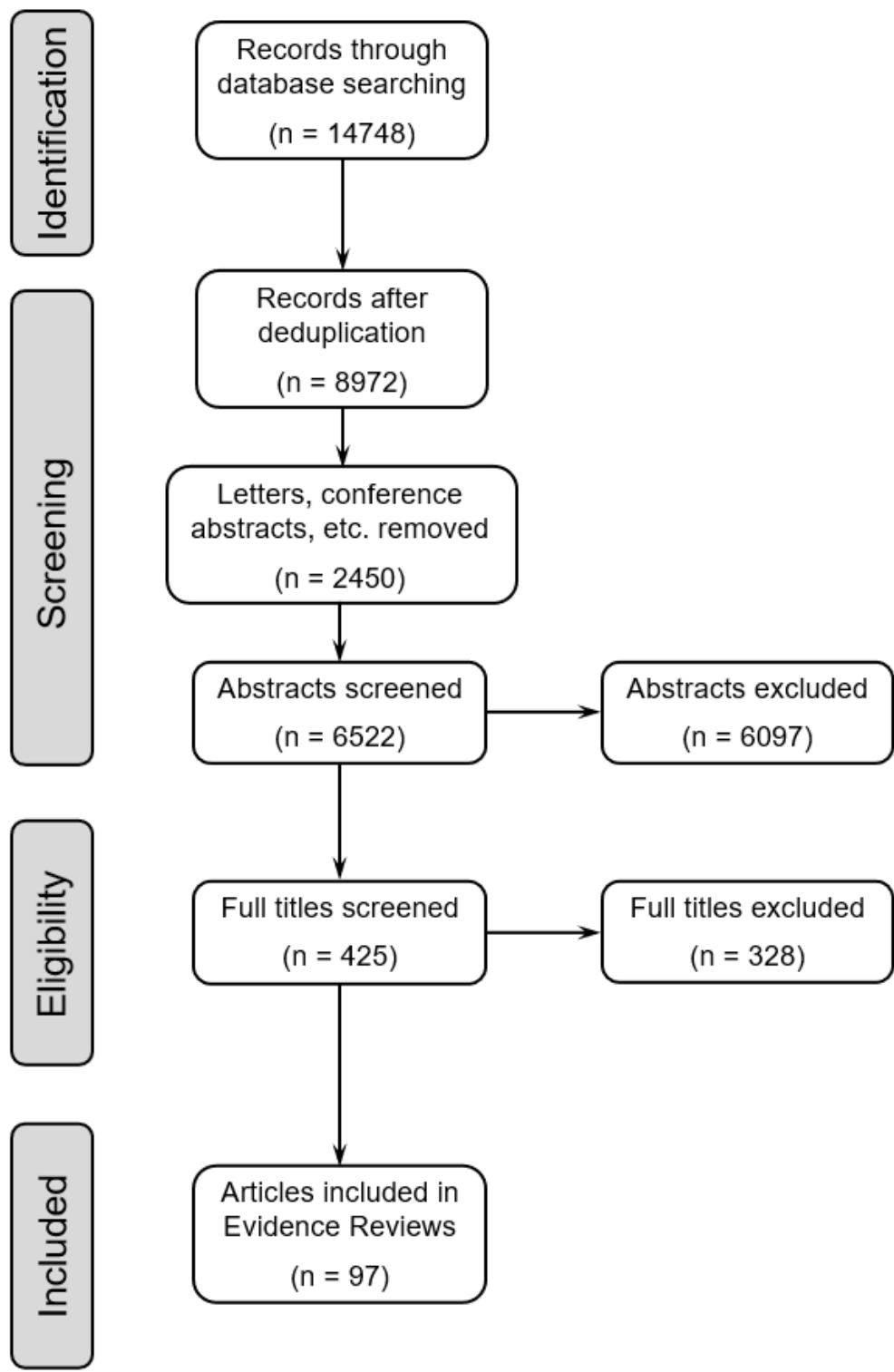
See above under search strategy for CDSR.

PRISMA diagrams

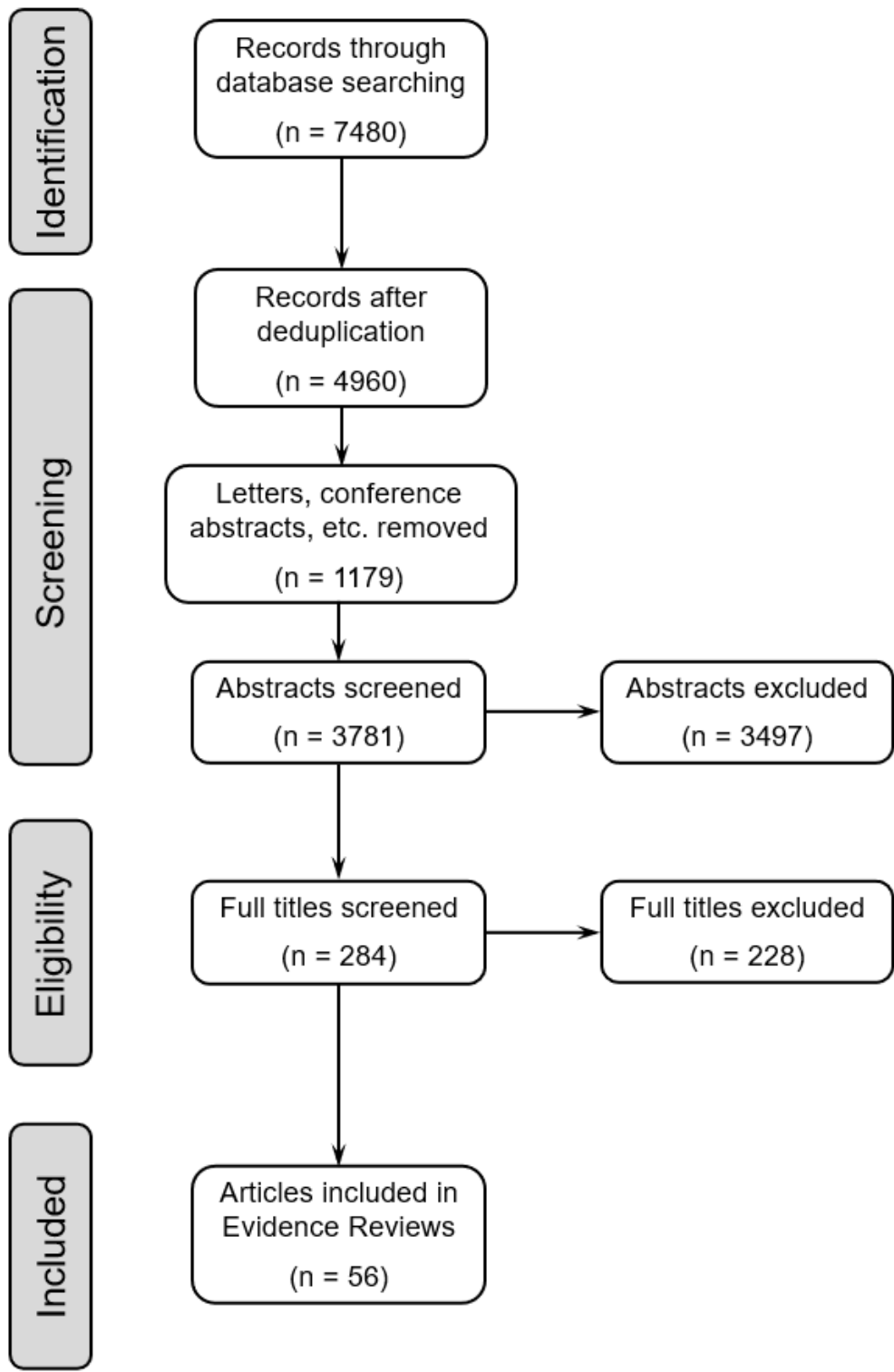
Section A Spontaneous pneumothorax



Section B Investigation of the undiagnosed pleural effusion



Section C Pleural infection



Section D Pleural malignancy

