GUIDELINES ON THE MANAGEMENT OF ACUTE RESPIRATORY DISTRESS SYNDROME

APPENDIX A
PRISMA Diagrams
Records identified through database
nen = 2395

Records identified through other sources
nnen = 0

Records after duplicate and non-relevant titles removed
nnen = 1918

RCTs kept for reference
nnen = 0

1918 Records screened

Records excluded
nnen = 1894

Full text articles assessed for eligibility
nnen = 24

Full text articles excluded
nnen = 16¹

Systematic reviews with meta-analysis eligible for inclusion
nnen = 8

Systematic reviews with meta-analysis included in GRADE evidence tables
nnen = 8
PRISMA Notes

(1) Same author repeat analysis, steroids not the main focus of SR and meta-analysis, failed SIGN criteria, abstract only, foreign language based (Chinese) publication
Records identified through database
\( n = 902 \)

Records identified through other sources
\( n = 1 \)

Records after duplicate and non-relevant titles removed
\( n = 94 \)

RCTs kept for reference
\( n = 3 \)

26 Records screened

Records excluded
\( n = 15 \)

Full text articles assessed for eligibility
\( n = 8 \)

Full text articles excluded
\( n = 5 \)

Systematic reviews with meta-analysis eligible for inclusion
\( n = 3 \)

Systematic reviews with meta-analysis included in GRADE evidence tables
\( n = 1 \)
PRISMA Notes

(1) 223 duplicates and 653 non-relevant titles removed

(2) 15 records excluded - 3 as non-relevant, 1 referencing a study in progress; 3 referencing the same RCT already included; 1 referring to extracorporeal carbon dioxide removal; 5 non-SR/RCT; 1 abstract only; 1 paediatric study.

(3) 5 systematic reviews excluded – 4 did not contain a meta-analysis, 1 did not have a comparator group
Records identified through database
n = 439

Records identified through other sources
n = 0

Records after duplicate and non-relevant titles removed
n = 70

RCTs kept for reference
n = 2

69 Records screened

Records excluded
n = 66

Full text articles assessed for eligibility
n = 1

Full text articles excluded
n = 0

Systematic reviews with meta-analysis eligible for inclusion
n = 1

Systematic reviews with meta-analysis included in GRADE evidence tables
n = 1
PRISMA Notes

Inclusions

Fitzgerald, 2014 #3
Records identified through database
n = 2956

Records identified through other sources
n = 0

Records after duplicate and non-relevant titles removed
n = 2126

RCTs kept for reference
n = 6

2126 Records screened

Records excluded
n = 2116

Full text articles assessed for eligibility
n = 4

Full text articles excluded
n = 3

Systematic reviews with meta-analysis eligible for inclusion
n = 1

Systematic reviews with meta-analysis included in GRADE evidence tables
n = 1
Records identified through database
n = 698

Records identified through other sources
n = 0

Records after duplicate and non-relevant titles removed
n = 71

RCTs kept for reference
n = 6

71 Records screened

Records excluded
n = 62

Full text articles assessed for eligibility
n = 3

Full text articles excluded
n = 1¹

Systematic reviews with meta-analysis eligible for inclusion
n = 2

Systematic reviews with meta-analysis included in GRADE evidence tables
n = 2
PRISMA NOTES

1 Tracheal gas insufflation combined with HFOV studies included in MA {Maitra, 2014 #385}

Inclusions

{Gu, 2014 #384}

{Huang, 2014 #382}
Records identified through database 
\( n = 1535 \)

Records identified through other sources 
\( n = 0 \)

Records a ter duplicate and non-relevant titles removed 
\( n = 301 \)
Systematic reviews (SR): Cochrane 10, Medline 21, 5 duplicates

RCTs kept for reference 
\( n = 9 \)

301 Records screened

Records excluded 
\( n = 275^1 \)

Full text articles assessed for eligibility 
\( n = 10 \)

Full text articles excluded 
\( n = 6^2 \)

Systematic reviews with meta-analysis eligible for inclusion 
\( n = 4 \)

Systematic reviews with meta-analysis included in GRADE evidence tables 
\( n = 3^3 \)
PRISMA Notes

1. Records excluded
One non SR, 6 paediatric focus, 9 otherwise off topic

2. Systematic reviews excluded
Afshari 2010, 2011; Greene 1998; Sokol 2000, 2003, 2003 excluded from the final analysis because they were superseded by more recent SR with MA. {Afshari, 2010 #32; Afshari, 2011 #33; Greene, 1998 #34; Sokol, 2000 #35; Sokol, 2003 #36; Sokol, 2003 #37}

3. Systematic reviews excluded from GRADE Evidence Table
Afshari 2010. {Afshari, 2010 #19}
Records identified through database
n = 199

Records identified through other sources
n = 0

Records after duplicate and non-relevant titles removed
n = 116

RCTs kept for reference
n = 0

116 Records screened

Records excluded
n = 109

Full text articles assessed for eligibility
n = 7

Full text articles excluded
n = 4

Systematic reviews with meta-analysis eligible for inclusion
n = 3

Systematic reviews with meta-analysis included in GRADE evidence tables
n = 3
PRISMA NOTES

Exclusions:
Eichaker 2002 – too old
Petrucci 2004 – too old
Qin 2003 – too old
Fuller 2013 – wrong population (not ARDS)
Records identified through database
n = 413

Records identified through other sources
n = 0

Records after duplicate and non-relevant titles removed
n = 94¹

RCTs kept for reference
n = 3

94 Records screened

Records excluded
n = 87²

Full text articles assessed for eligibility
n = 4

Systematic reviews with meta-analysis eligible for inclusion
n = 2

Systematic reviews with meta-analysis included in GRADE evidence tables
n = 1

Records after duplicate and non-relevant titles removed
n = 94¹

14

14
PRISMA NOTES

(1) 125 duplicates and 194 non-relevant titles removed
(2) 87 records excluded; 26 non-relevant, 9 non-English language, 46 non-SR/RCT, 6 abstract only
(3) 2 systematic reviews excluded as lacking meta-analysis
Records identified through database
n = 3717

Records identified through other sources
n = 0

Records after duplicate and non-relevant titles removed
n = 2121

RCTs kept for reference
n = 0

2121 Records screened

Records excluded
n = 2101¹

Full text articles assessed for eligibility
n = 20

Full text articles excluded
n = 5²

Systematic reviews with meta-analysis eligible for inclusion
n = 15

Systematic reviews with meta-analysis included in GRADE evidence tables
n = 3

1. Includes 14 duplicate records.
2. Includes 4 irrelevant articles.
PRISMA NOTES

(1) Abstract only: 40
   Further duplicate records found: 8
   Non-RCT or systematic review: 133
   Non-adult population: 269
   Non-English text: 51
   Non-human study: 276
   Non-relevant: 1,324
   **Total: 2,101**

(2) 1 Trial not limited to ARDS patients.
    2 trials of Non SR or clinical trial.
    1 Trial studied recruitment manoeuvre.
    1 Umbrella review
    **Total: 6**

*** Articles considered for data analysis
    **Total: 15**
PRISMA Diagram: Prone Positioning

**Identification**
- Records identified through database: 1121
- Records identified through other sources: 0
- Records after duplicate and non-relevant titles removed: 226

**Screening**
- 226 Records screened
- RCTs kept for reference: 3
- Records excluded: 172

**Eligibility**
- Full text articles assessed for eligibility: 54
- Systematic reviews with meta-analysis eligible for inclusion: 14
- Systematic reviews excluded as no meta-analysis included: 2

**Included**
- Systematic reviews with meta-analysis included in GRADE evidence tables: 10
PRISMA Notes

Exclusions

RCT (clinical) n = 12
Narrative review n = 9
Full text non-English n=4
Letter/commentary n=3
Journal Club review n = 3
Protocol n = 2
Observational cohort study n =2
RCT (laboratory) n = 1
Clinical practice guideline n =1
Randomised cross-over study n =1
Unable to obtain full-text n =1
Other reasons/not relevant n =1