

CQ 9-3 成人敗血症患者の人工呼吸管理において肺保護換気戦略を行うか？

検索データベース

■MEDLINE (PubMed/Ovid)

■CENTRAL

■医学中央雑誌

□その他 ()

検索式とヒット数

PubMed search strategy (検索日 2019 年 4 月 28 日)

#1	((("Respiratory Distress Syndrome, Adult"[MeSH] OR "Shock Lung"[tiab] OR ARDS[tiab] OR "Respiratory distress syndrome"[tiab] OR "Acute Lung Injury"[MeSH] OR "Lung Injuries, Acute"[tiab] OR "Lung Injury, Acute"[tiab] OR "Respiratory Insufficiency"[MeSH] OR "Respiratory Failure"[tiab] OR "Respiratory Depression"[tiab] OR "Ventilatory Depression"[tiab] OR "Depressions, Ventilatory"[tiab] OR "Respiration, Artificial"[MeSH] OR "Artificial Respiration"[tiab] OR "Mechanical Ventilation"[tiab] OR "Ventilators, Mechanical"[MeSH] OR "Ventilator, Mechanical"[tiab] OR "Ventilator, Pulmonary"[tiab] OR Respiator[tiab] OR Ventilator[tiab]) NOT "Respiratory Distress Syndrome, Newborn"[MeSH])	
#2	("Tidal Volume"[MeSH] OR "Volume, Tidal"[tiab] OR "Airway pressure, Low"[tiab] OR "Airway pressure, Targeted"[tiab] OR "Plateau pressure"[tiab] OR "pressure limited" [tiab] OR "volume limited" [tiab] OR "lung protective " [tiab] OR "High-Frequency Ventilation"[MeSH] OR HFOV[tiab] OR "Ventilation, High Frequency"[tiab] OR "Ventilation, High-Frequency Oscillation"[tiab] OR "High-Frequency Positive Pressure Ventilation"[tiab] OR "High Frequency Positive Pressure Ventilation"[tiab])	
#3	(randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab] NOT (animals [mh] NOT humans [mh]))	
#4	#1 AND #2 AND #3	1235

CENTRAL search strategy (検索日 2019 年 5 月 3 日)

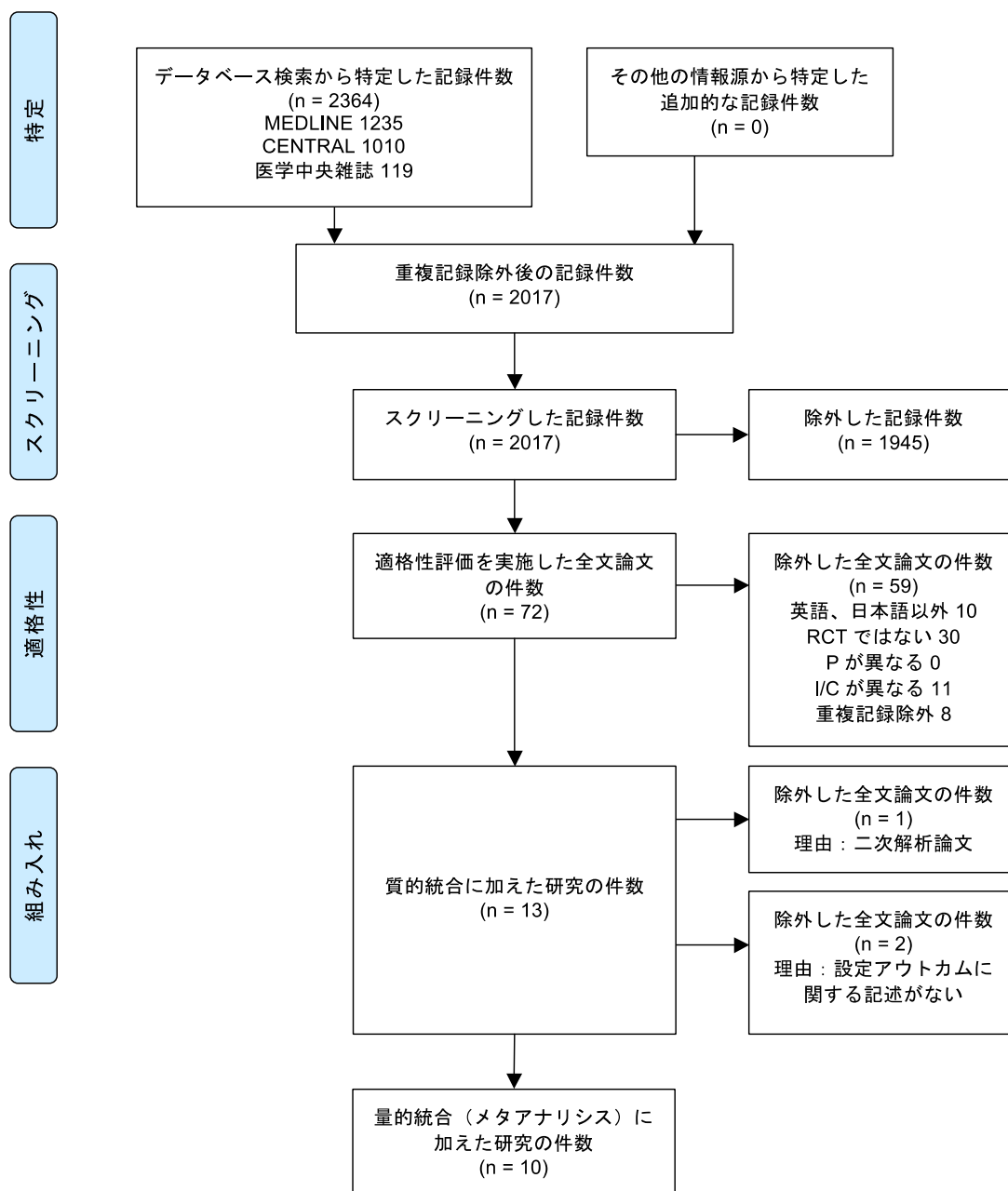
#1	#1 MeSH descriptor: [Respiratory Distress Syndrome, Adult] explode all trees 1038	1024
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	<p>#2 MeSH descriptor: [Acute Lung Injury] explode all trees 309</p> <p>#3 MeSH descriptor: [Respiratory Insufficiency] explode all trees 2377</p> <p>#4 MeSH descriptor: [Respiration, Artificial] explode all trees 5750</p> <p>#5 MeSH descriptor: [Ventilators, Mechanical] explode all trees 259</p> <p>#6 MeSH descriptor: [Respiratory Distress Syndrome, Newborn] explode all trees 1333</p> <p>#7 MeSH descriptor: [Tidal Volume] explode all trees 826</p> <p>#8 MeSH descriptor: [High-Frequency Ventilation] explode all trees 192</p> <p>#9 ("Shock lung"):ti,ab,kw 9</p> <p>#10 (ARDS):ti,ab,kw 1440</p> <p>#11 ("Respiratory distress syndrome"):ti,ab,kw 4563</p> <p>#12 ("Lung Injury, Acute"):ti,ab,kw 54</p> <p>#13 ("Respiratory Failure"):ti,ab,kw 3897</p> <p>#14 ("Respiratory Depression"):ti,ab,kw 2401</p> <p>#15 ("Ventilatory Depression"):ti,ab,kw 88</p> <p>#16 ("Artificial Respiration"):ti,ab,kw 42</p> <p>#17 ("Mechanical Ventilation"):ti,ab,kw 7702</p> <p>#18 ("Ventilator, Mechanical"):ti,ab,kw 6</p> <p>#19 ("Ventilator, Pulmonary"):ti,ab,kw 3</p> <p>#20 (Respirator):ti,ab,kw 274</p> <p>#21 (Ventilator):ti,ab,kw 5388</p> <p>#22 ("Volume, Tidal"):ti,ab,kw 33</p> <p>#23 ("Airway pressure, Low"):ti,ab,kw 1</p> <p>#24 ("Airway pressure, Targeted"):ti,ab,kw 1</p> <p>#25 ("Plateau pressure"):ti,ab,kw 204</p> <p>#26 ("pressure limited"):ti,ab,kw 98</p> <p>#27 ("volume limited"):ti,ab,kw 17</p> <p>#28 ("lung protective "):ti,ab,kw 273</p> <p>#29 (HFOV):ti,ab,kw 154</p> <p>#30 ("Ventilation, High Frequency"):ti,ab,kw 35</p> <p>#31 ("Ventilation, High-Frequency Oscillation"):ti,ab,kw 3</p> <p>#32 ("High-Frequency Positive Pressure Ventilation"):ti,ab,kw 17</p> <p>#33 ("High Frequency Positive Pressure Ventilation"):ti,ab,kw 17</p> <p>#34 #1 OR #2 OR #3 OR #4 OR #5 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 23020</p> <p>#35 #34 NOT #6 21734</p> <p>#36 #7 OR #8 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 1633</p> <p>#37 #35 AND #36 1024</p>	
#2	#1 うち Trials	1010

医学中央雑誌 search strategy (検索日 2019 年 4 月 28 日)

#1	<p>(((一回換気量/TH or 一回換気量/TA)) and (PT=会議録除<)) or (((肺胞内圧/TH or 肺胞内圧/TA or プラトー圧/TA or 駆動圧/TA or "Driving pressure"/TA)) and (PT=会議録除<)) or (((高頻度換気/TH or 高頻度換気/TA or 振動換気/TA or HFO/TA)) and (PT=会議録除<)) or ((肺保護/TA) and (PT=会議録除<)))</p>	
#2	<p>(((呼吸窮迫症候群-急性/TH or 呼吸窮迫症候群-急性/TA or シ ョック肺/TA or ARDS/TA)) and (PT=会議録除<)) or (((急性肺損傷/TH or 急性肺損傷/TA or 急 性肺傷害/TA)) and (PT=会議録除<)) or (((呼吸不全/TH or 呼吸不全/TA)) and (PT=会議録除<)) or (((人工呼吸/TH or 人工呼吸/TA)) and (PT=会議録除<)) or (((人工呼吸器/TH or 人工呼吸器/TA)) and (PT=会議録除<)) or (((人工呼吸器誘発肺損傷/TH or 人工呼吸器誘発肺損傷/TA)) and (PT=会議録除<))) not (((呼吸窮迫症候群-新生児/TH or 呼吸窮迫症候群-新生児/TA)) and (PT=会議録除<)))</p>	
#3	<p>(ランダム化比較試験/TH or 準ランダム化比較試験/TH or ラン ダム化/AL or 無作為化/AL or 比較試験/AL or 臨床試験/AL or プラセボ/AL or 対照/AL or コントロール/AL or 臨床研究/AL)</p>	
#4	#1 and #2 and #3	119

PRISMA フロー図



Risk of Bias サマリー

アウトカム① 短期死亡 (ICU 死亡 or 院内死亡 or 研究終了 or 90 日以内死亡。最大のもの

を採択)

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Amato 1998	+	+	-	?	+	+	+
ARDSNET 2000	+	+	-	?	+	+	?
Brochard 1998	+	+	-	?	+	?	+
Brower 1999	?	+	-	?	+	+	+
Determann 2010	+	+	-	?	?	+	+
Pinheiro 2010	+	+	-	?	?	-	+
Simonis 2018	+	+	-	?	+	+	+
Stewart 1998	+	+	-	?	+	+	+
Villar 2006	+	+	-	+	+	+	+

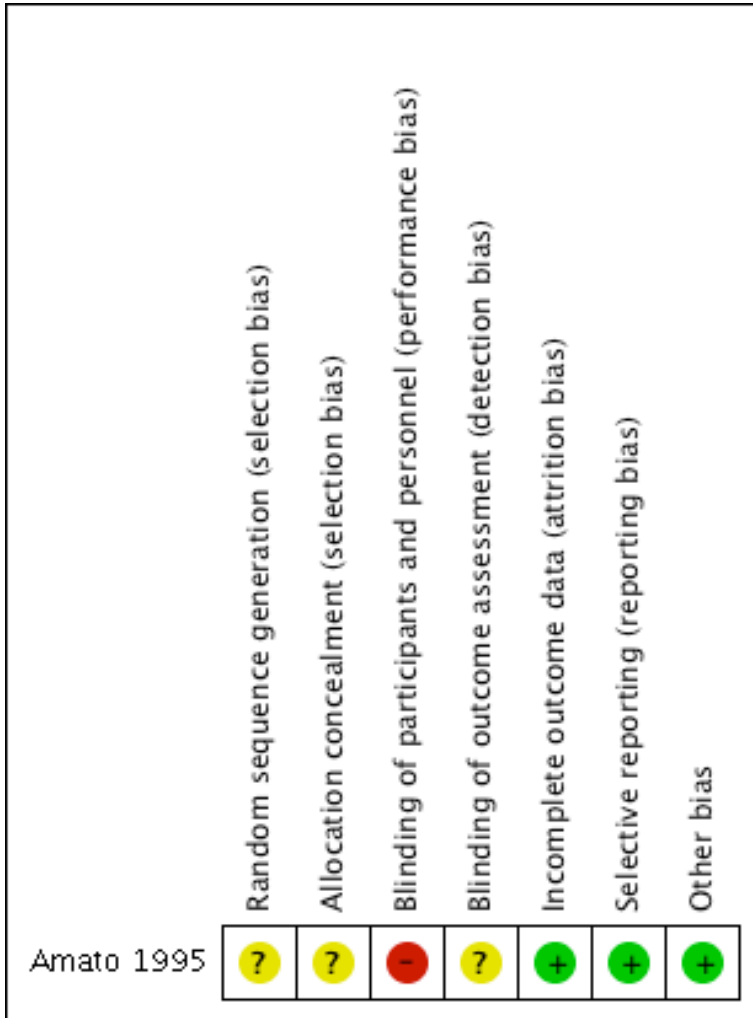
アウトカム② VFD (28 日以内)

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
ARDSNET 2000	+	+	-	?	+	+	?
Simonis 2018	+	+	-	?	+	+	+
Villar 2006	+	+	-	+	+	+	+

アウトカム③ 圧損傷（各論文の定義に従う、気胸も含む。両者がある場合は発生数が多い方を採択）

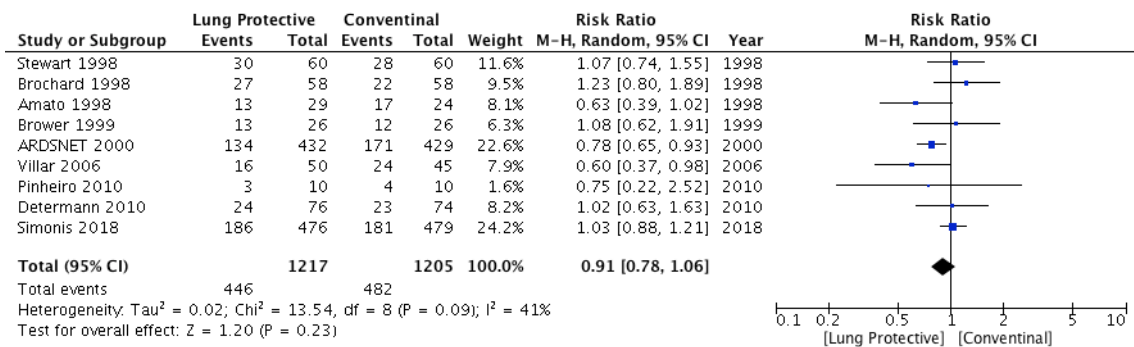
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Amato 1998	+	+	-	?	+	+	+
ARDSNET 2000	+	+	-	?	+	+	?
Brochard 1998	+	+	-	?	+	?	+
Brower 1999	?	+	-	?	+	+	+
Simonis 2018	+	+	-	?	+	+	+
Stewart 1998	+	+	-	?	+	+	+
Villar 2006	+	+	-	+	+	+	+

アウトカム④ VAP (各論文の定義に従う)

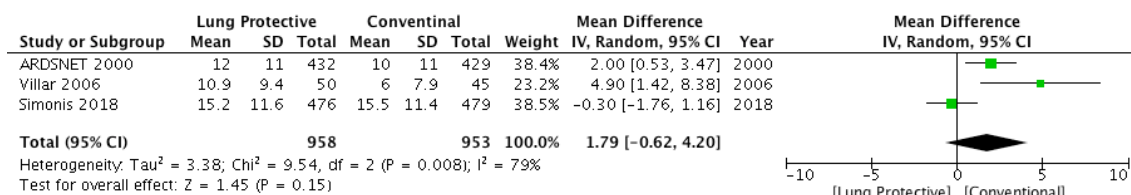


フォレストプロット

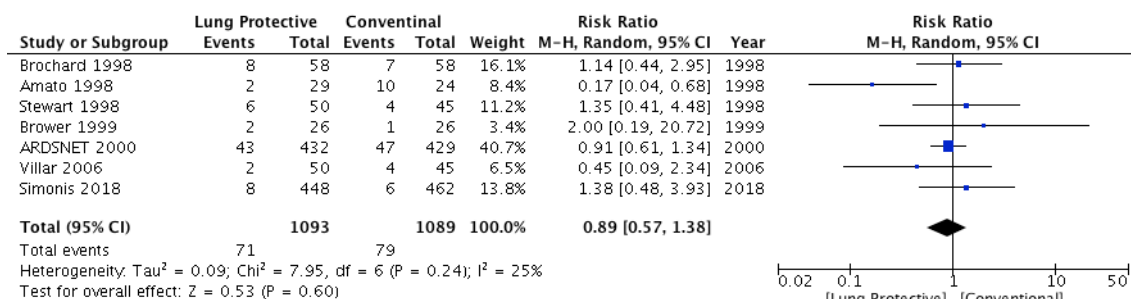
アウトカム① 短期死亡 (ICU 死亡 or 院内死亡 or 研究終了 or 90 日以内死亡。最大のものを採択)



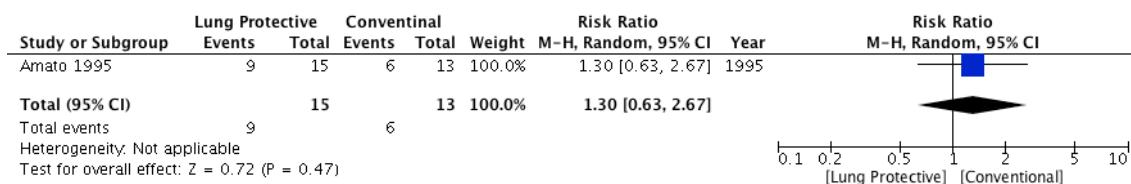
アウトカム② VFD (28 日以内)



アウトカム③ 圧損傷（各論文の定義に従う、気胸も含む。両者がある場合は発生数が多い方を採択）



アウトカム④ VAP（各論文の定義に従う）



ファンネルプロット

アウトカム① 短期死亡 (ICU 死亡 or 院内死亡 or 研究終了 or 90 日以内死亡。最大のものを採択)

