

CQ –10-6 成人敗血症患者のせん妄予防に、非薬物療法を行うか？

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26日)

#1	((Sepsis[Mesh] OR "Shock, Septic"[Mesh] OR sepsis [tiab] OR (septic[tiab] AND shock[tiab])))	175291
#2	("Critical Illness"[Mesh] OR "Critical Care"[Mesh] OR "Intensive Care Units"[Mesh] OR stressed[tiab] OR "critically ill"[tiab] OR "critical care"[tiab] OR "intensive care"[tiab])	262413
#3	(Delirium[Mesh] OR Delirium[tiab] OR "Consciousness Disorders"[Mesh] OR "Consciousness Disorders"[tiab] OR "Cognitive Dysfunction"[Mesh] OR "Cognitive Dysfunction"[tiab] OR "Sepsis-Associated Encephalopathy"[mesh] OR "Sepsis- Associated Encephalopathy"[tiab] OR "Cognitive impairment"[tiab])	119705
#4	("ear protective devices"[MeSH] OR "ear plug"[TIAB] OR earplug[TIAB] OR "eye mask"[Tiab] OR "light therapy"[Tiab] OR light*[tiab] OR sleep[MeSH] OR "sleep hygiene"[MesH] OR "Sleep Deprivation/therapy"[Mesh] OR sleep[TIAB] OR "Chronobiology Disorders/therapy"[Mesh] OR "noise reduction"[tiab] OR "Cognitive Behavioral Therapy"[Mesh] OR cogniti*[TIAB] OR orientation[MeSH] OR orientation[tiab] OR music[MeSH] OR "music therapy"[MeSH] OR "music"[tiab] OR "Relaxation Therapy"[Mesh] OR "relaxation" [TIAB] OR "Patient Care Bundles"[Mesh] OR Bundle*[TIAB] OR nonpharmacologic[TIAB])	1470281

#5	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])	3887551
#6	((#1 OR #2) AND #3 AND #4 AND #5)	391

CENTRAL search strategy(検索日 2019年4月26日)

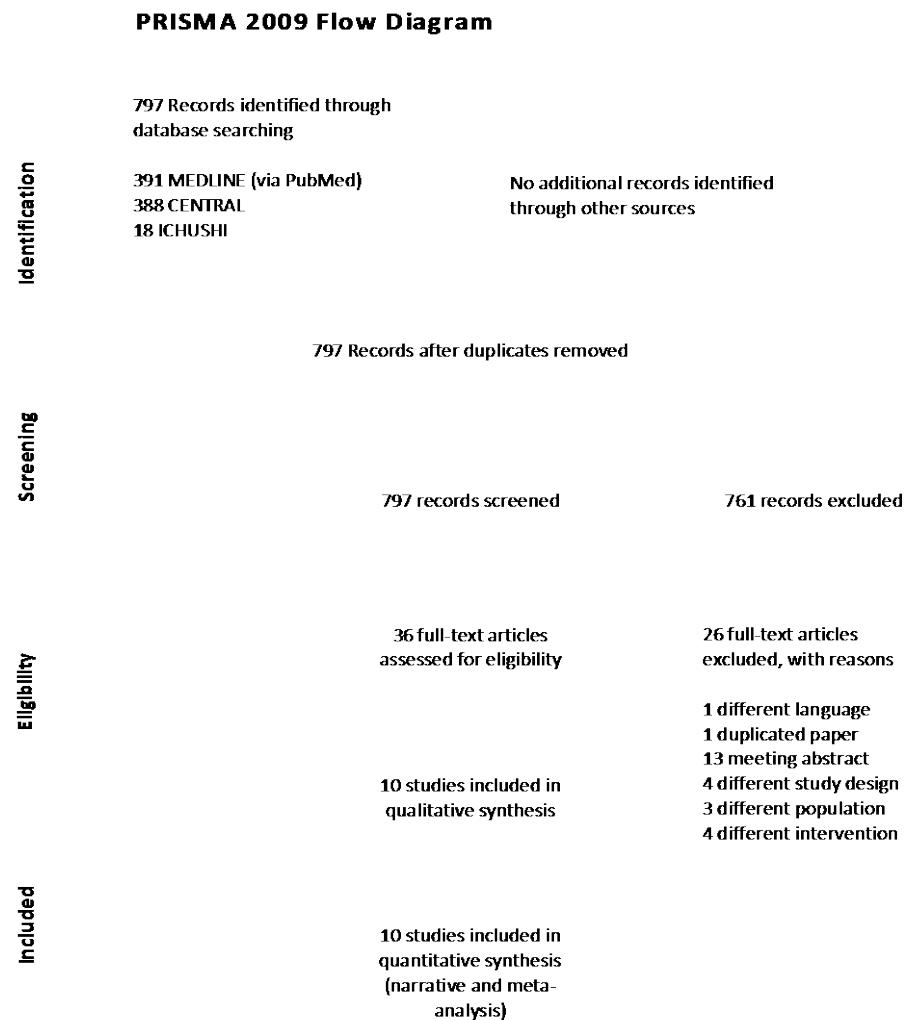
#1	MeSH descriptor: [Sepsis] explode all trees	3998
#2	(sepsis):ti,ab,kw	10248
#3	MeSH descriptor: [Shock, Septic] explode all trees	771
#4	(Septic):ti,ab,kw	4108
#5	(septic shock):ti,ab,kw	2738
#6	MeSH descriptor: [Critical Illness] explode all trees	1845
#7	MeSH descriptor: [Intensive Care Units] explode all trees	3260
#8	MeSH descriptor: [Critical Care] explode all trees	1918
#9	(stressed):ti,ab,kw	958
#10	(critically ill):ti,ab,kw	5980
#11	(critical care):ti,ab,kw	8789
#12	(intensive care):ti,ab,kw	25082
#13	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12	43820
#14	MeSH descriptor: [Delirium] explode all trees	551
#15	(delirium):ti,ab,kw	2824
#16	MeSH descriptor: [Consciousness Disorders] explode all trees	854
#17	(Consciousness Disorder?):ti,ab,kw	855
#18	MeSH descriptor: [Cognitive Dysfunction] explode all trees	837
#19	(Cognitive Dysfunction):ti,ab,kw	4035
#20	MeSH descriptor: [Sepsis-Associated Encephalopathy] explode all trees	0
#21	(Sepsis-Associated Encephalopathy):ti,ab,kw	5
#22	#14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21	8237
#23	MeSH descriptor: [Ear Protective Devices] explode all trees	75
#24	(ear plug):ti,ab,kw	29
#25	(earplug):ti,ab,kw	40
#26	(eye mask):ti,ab,kw	270
#27	(light therapy):ti,ab,kw	7645
#28	(light*):ti,ab,kw	20351
#29	MeSH descriptor: [Sleep] explode all trees	5261
#30	(sleep):ti,ab,kw	30972
#31	MeSH descriptor: [Sleep Hygiene] explode all trees	12

#32	MeSH descriptor: [Sleep Deprivation] explode all trees	661
#33	(noise reduction):ti,ab,kw	567
#34	MeSH descriptor: [Chronobiology Disorders] explode all trees	204
#35	MeSH descriptor: [Cognitive Behavioral Therapy] explode all trees	7804
#36	(Cogniti*):ti,ab,kw	64855
#37	MeSH descriptor: [Orientation] explode all trees	581
#38	(orientation):ti,ab,kw	4071
#39	MeSH descriptor: [Music] explode all trees	574
#40	(music):ti,ab,kw	3677
#41	MeSH descriptor: [Music Therapy] explode all trees	727
#42	("music therapy"):ti,ab,kw	2040
#43	MeSH descriptor: [Relaxation Therapy] explode all trees	1774
#44	(relaxation therapy):ti,ab,kw	5154
#45	(relaxation):ti,ab,kw	10126
#46	MeSH descriptor: [Patient Care Bundles] explode all trees	17
#47	(bundle):ti,ab,kw	1628
#48	(nonpharmacologic):ti,ab,kw	912
#49	#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	126358
#50	#13 AND #22 AND #49	403
	TRIALS	388

医学中央雑誌 search strategy(検索日 2019年4月26日)

#1	(敗血症/TH or 敗血症/TA) and (PT=会議録除く)	22405
#2	(ショック-敗血症性/TH or 敗血症性/TA or ショック/TA) and (PT=会議録除く)	24933
#3	(危篤/TH or 危篤/TA) and (PT=会議録除く)	150
#4	(クリティカルケア/TH or クリティカルケア/TA or 集中治療/TA) and (PT=会議録除く)	12975
#5	(ICU/TH or ICU/TA) and (PT=会議録除く)	45475
#6	#1 or #2 or #3 or #4 or #5	90181
#7	(せん妄/TH or せん妄/TA) and (PT=会議録除く)	8252
#8	(意識障害/TH or 意識障害/TA) and (PT=会議録除く)	30907
#9	(認知機能低下/TH or 認知機能低下/TA) and (PT=会議録除く)	4039
#10	(敗血症関連脳症/TH or 敗血症関連脳症/TA) and (PT=会議録除く)	10
#11	(認知障害/TH or 認知障害/TA or 認知機能障害/TA) and (PT=会議録除く)	13905
#12	#7 or #8 or #9 or #10 or #11	51896
#13	((アイマスク/TH or アイマスク/TA) and (PT=会議録除く)) or ((耳の保護具/TH or 耳栓/TA) and (PT=会議録除く)) or (((リラクゼーション/TH or リラクゼーション/TA) and (PT=会議録除く)) or ((睡眠環境/TA) and (PT=会議録除く)) or (((認知療法/TH or 認知療法/TA) and (PT=会議録除く)) or (((音楽療法/TH or 音楽療法/TA) and (PT=会議録除く)) or (((オリエンテーション/TH or オリエンテーション/TA) and (PT=会議録除く)) or ((バンドル/TA) and (PT=会議録除く)) or ((非薬物療法/TA) and (PT=会議録除く)) or (((光線療法/TH or 光療法/TA) and (PT=会議録除く)) or (((睡眠/TH or 睡眠/TA) and (PT=会議録除く)) or (((騒音/TH or 騒音/TA) and (PT=会議録除く)) or (((サークルディアンリズム/TH or 概日リズム/TA) and (PT=会議録除く)) or ((覚醒リズム/TA) and (PT=会議録除く)) or (((見当識/TH or 見当識/TA) and (PT=会議録除く)))	68591
#14	(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)	301704
#15	#6 and #12 and #13 and #14	18

PRISMA フロー図



From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed.1000097

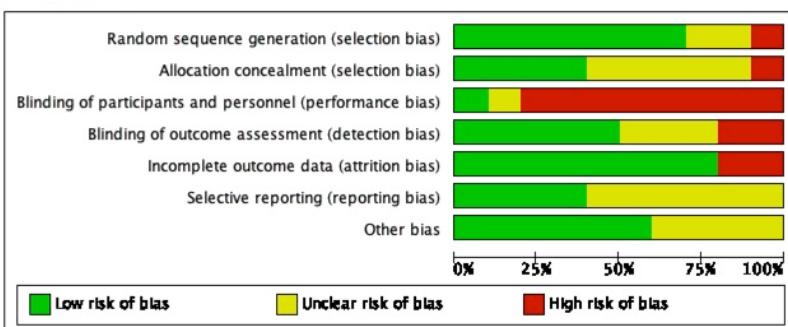
For more information, visit www.prisma-statement.org.

Risk of Bias サマリー

	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
Brummel 2014	+	+	-	+	-	+	+
Demoule 2017	+	?	-	+	-	+	+
Johnson 2018	?	?	?	?	?	?	+
Lee 2017	+	?	-	+	+	?	+
Litton 2017	+	+	-	?	+	+	?
Munro 2017	+	?	-	?	+	?	?
Potharajaoen 2018	-	-	-	+	+	?	?
Simons 2016	+	+	-	-	+	?	+
Taguchi 2007	?	?	-	-	+	?	?
Van Rompaey 2012	+	+	+	+	+	+	+

Caption

Risk of bias summary: review authors' judgements about each risk of bias item for each included study.

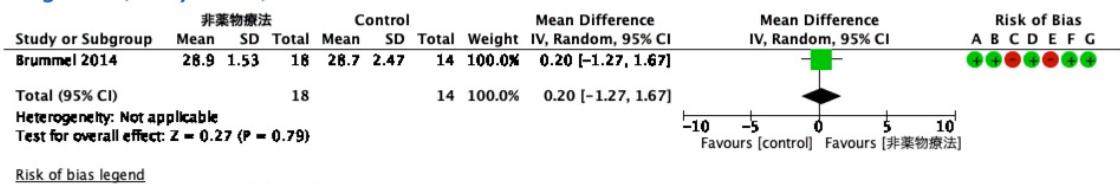


Caption

Risk of bias graph: review authors' judgements about each risk of bias item presented as percentages across all included studies.

フォレストプロット

アウトカム① ICU 退室後の認知機能障害



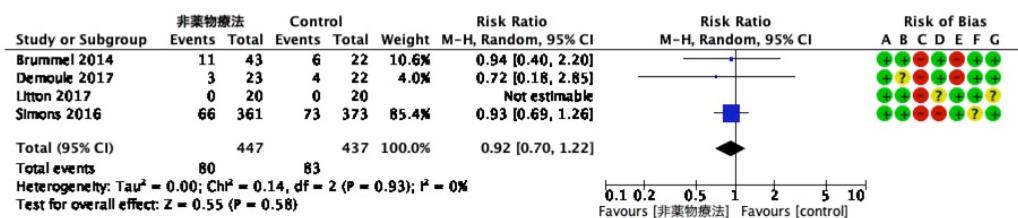
Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Caption

Forest plot of comparison: 1 New Comparison, outcome: 1.1 ICU退室後の認知機能障害 (MMSE) .

アウトカム② 死亡 (論文中報告されている最長のもの)



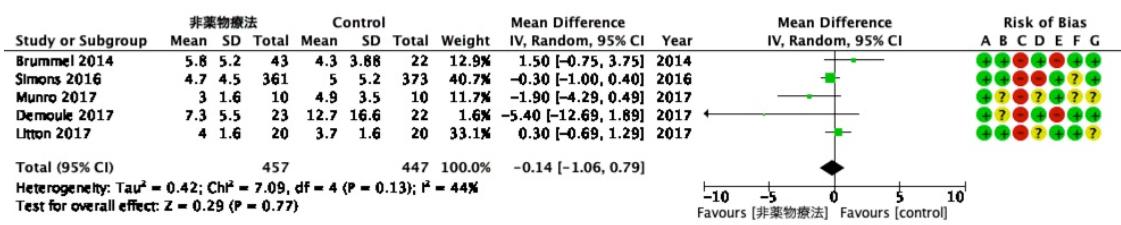
Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Caption

Forest plot of comparison: 1 New Comparison, outcome: 1.2 病院内死亡.

アウトカム③ ICU 滞在期間



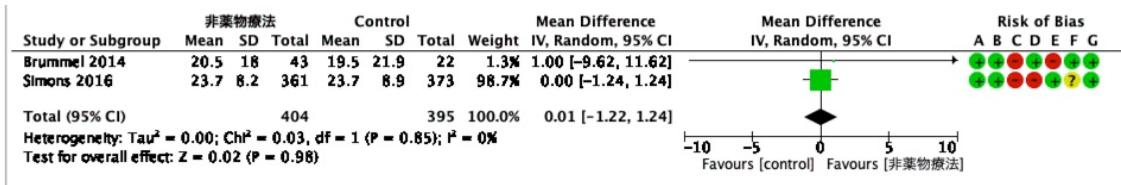
Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Caption

Forest plot of comparison: 1 New Comparison, outcome: 1.3 ICU滞在期間.

アウトカム④ せん妄日数（報告がない薬剤は、せん妄（昏睡）free days）



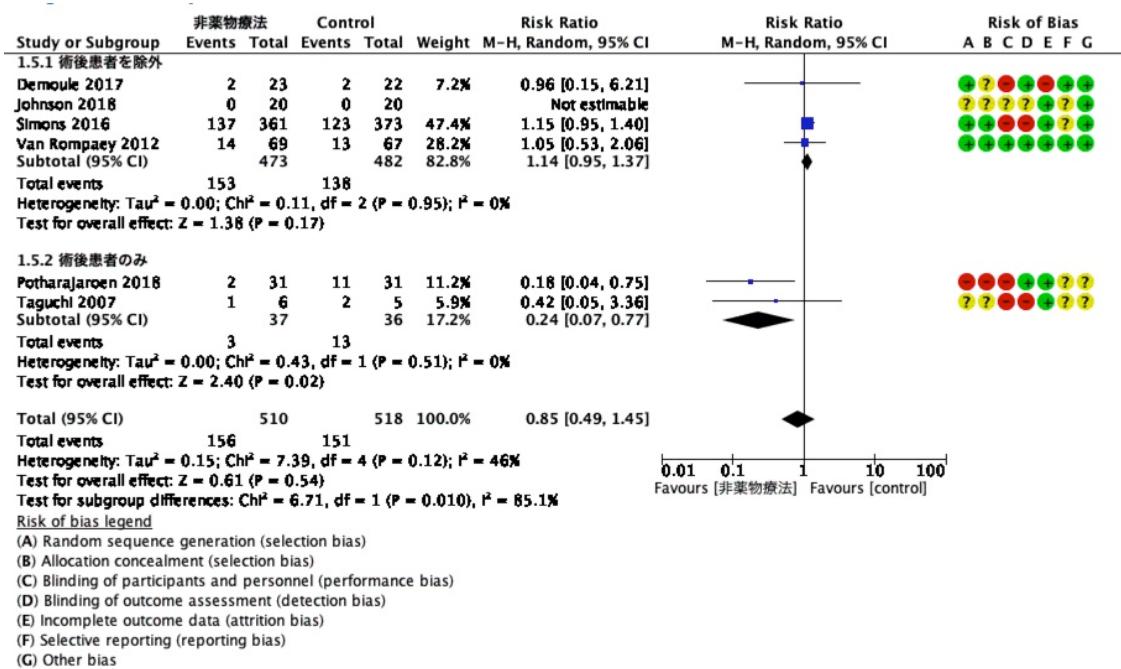
Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Caption

Forest plot of comparison: 1 New Comparison, outcome: 1.4 せん妄（昏睡）free days.

アウトカム⑤ せん妄発生 (O4 の報告がない薬剤のみ)



Caption

Forest plot of comparison: 1 Nonpharmacological intervention vs usual care, outcome: 1.5 せん妄発生.

アウトカム⑥ 重症な有害事象（致死的イベント、機能不全に関わるもの）

報告なし

アウトカム⑦ あらゆる軽微な有害事象→未採択

サブグループ解析

術後患者を対象とした研究が含まれていた「せん妄発生」において施行（アウトカム⑤参照）。その他のアウトカムはすべて非術後患者を対象としていた。

ファンネルプロット

文献数が 10 以下なので適応外と考えられる

1stスクリーニング終了日時：2019年5月30日

1stスクリーニング後に2ndスクリーニングを行う文献数：35文献

1stスクリーニング担当者氏名：金谷明浩、大内玲、米倉寛

2ndスクリーニング終了日時：2019年6月23日

2ndクリーニング後の文献数：全10文献

2ndスクリーニング担当者氏名：金谷明浩、大内玲、米倉寛