

CQ 6-2

成人敗血症患者の初期蘇生に EGDT を用いるか？

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 5 月 2 日)

#1	((("sepsis"[Mesh] OR "shock, septic"[Mesh] OR "sepsis"[tiab] OR "septic"[tiab]))) OR (("systemic inflammatory response syndrome"[Mesh] OR "systemic inflammatory response syndrome"[tiab] OR "SIRS"[tiab]))	198463
#2	Search ("early goal directed therapy"[Mesh] OR "EGDT"[tiab] OR "goal-directed"[tiab] OR "goal-oriented"[tiab] OR "protocol based"[tiab] OR "protocol directed"[tiab] OR "bundle"[tiab])	50464
#3	("fluid resuscitation"[tiab])	4748
#4	#2 OR #3	55022
#5	(randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR clinical trials as topic[mesh:noexp] OR randomly[tiab] OR trial[ti] NOT (animals[mh] NOT humans [mh]))	1123841
#6	#1 AND #4 AND #5	371

CENTRAL search strategy (検索日 2019 年 5 月 2 日)

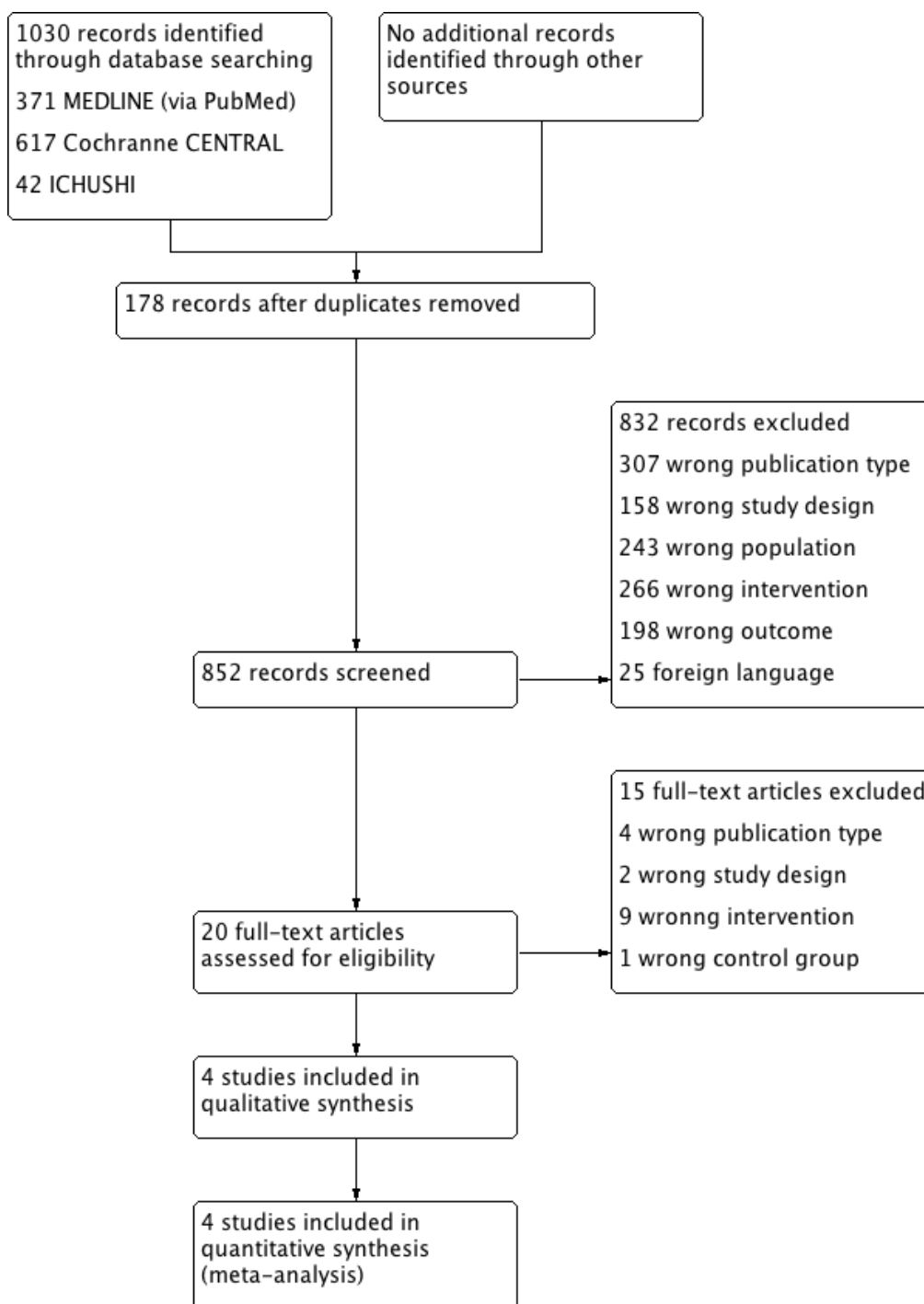
#1	MeSH descriptor: [Systemic Inflammatory Response Syndrome] explode all trees	4357
#2	(Systemic Inflammatory Response Syndrome):ti,ab,kw	1447
#3	(SIRS):ti,ab,kw	1128
#4	MeSH descriptor: [Sepsis] explode all trees	4028
#5	(sepsis):ti,ab,kw	10323
#6	MeSH descriptor: [Shock, Septic] explode all trees	784
#7	(Septic):ti,ab,kw	4151

#8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	15435
#9	MeSH descriptor: [Early Goal-Directed Therapy] explode all trees	4
#10	(EGDT):ti,ab,kw	73
#11	("goal directed"):ti,ab,kw	1169
#12	("goal oriented"):ti,ab,kw	214
#13	(bundle):ti,ab,kw	1988
#14	("protocol directed"):ti,ab,kw	74
#15	("protocol based"):ti,ab	624
#16	("fluid resuscitation"):ti,ab,kw	811
#17	#9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16	4718
#18	#8 AND #17	617
		610

医学中央雑誌 search strategy (検索日 2019年5月2日)

#1	(((((敗血症/TH or 敗血症/TA or セプシス/TA or sepsis/TA)))) and (PT=会議録除く))	22679
#2	(((((ショック-敗血症性/TH or 敗血症性ショック/TA or "septic shock"/TA))) and (PT=会議録除く))	6282
#3	(septic/TA) and (PT=会議録除く)	1336
#4	(セプティック/TA) and (PT=会議録除く)	9
#5	(((((全身性炎症反応症候群/TH or 全身性炎症反応症候群/TA or "systemic inflammatory response syndrome"/TA or SIRS/TA)))) and (PT=会議録除く))	18008
#6	(((((早期目標指向型治療/TH or 早期目標指向型治療/AL or "early goal directed therapy"/TA or EGDT/TA)))) and (PT=会議録除く))	103
#7	(((((初期輸液/TH or 初期輸液/TA or 初期蘇生/TH or 初期蘇生/TA or "fluid resuscitation"/TA)))) and (PT=会議録除く))	385
#8	(敗血症バンドル/TA) and (PT=会議録除く)	29
#9	(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) and (PT=会議録除く)	229746
#10	#1 or #2 or #3 or #4 or #5	25466
#11	#6 or #7 or #8	488
#12	#9 and #10 and #11	42

PRISMA フロー図



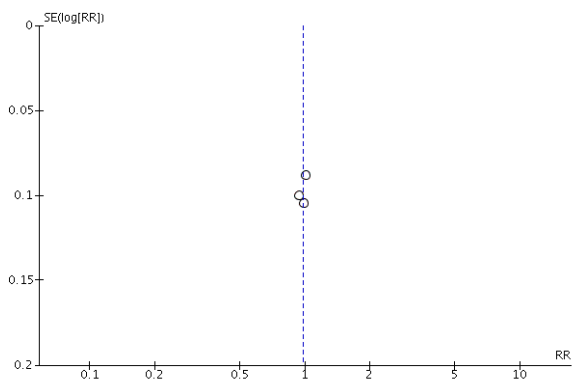
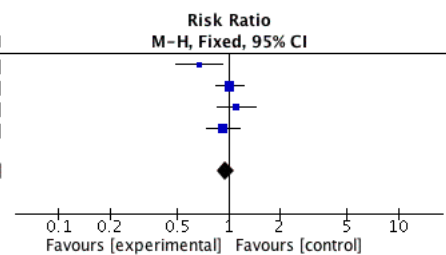
Risk of Bias サマリー

	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
ARISE 2014	+	+	+	+	+	+	+
PROCESS 2014	+	+	+	+	+	+	+
ProMISe 2015	+	+	+	+	+	+	+
Rivers 2001	+	+	+	+	+	+	+

Forest/Funnel Plots

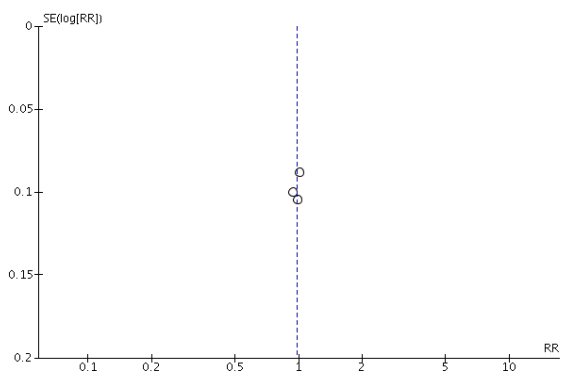
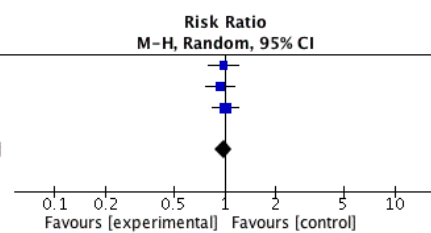
アウトカム① Short-term mortality (28 or 30days)

Study or Subgroup	EGDT		Usua		Weight	Risk Ratio
	Events	Total	Events	Total		M-H, Fixed, 95% CI
Rivers 2001	40	130	61	133	14.3%	0.67 [0.49, 0.92]
ProMISe 2015	155	625	152	621	36.1%	1.01 [0.83, 1.23]
PROCESS 2014	91	439	85	456	19.7%	1.11 [0.85, 1.45]
ARISE 2014	117	792	127	797	29.9%	0.93 [0.74, 1.17]
Total (95% CI)	1986		2007		100.0%	0.96 [0.85, 1.08]
Total events	403		425			
Heterogeneity: $\text{Chi}^2 = 6.46$, $\text{df} = 3$ ($P = 0.09$); $I^2 = 54\%$						
Test for overall effect: $Z = 0.70$ ($P = 0.48$)						

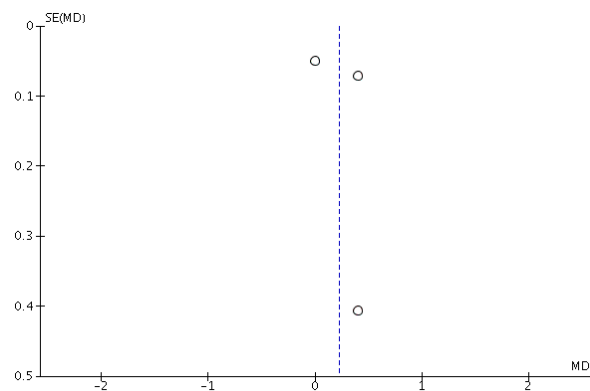
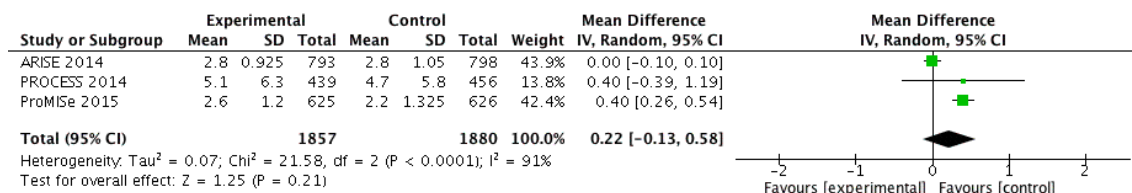


アウトカム② Long-term mortality (90 days)

Study or Subgroup	EGDT		Usua		Weight	Risk Ratio
	Events	Total	Events	Total		M-H, Random, 95% CI
ARISE 2014	147	792	150	796	28.5%	0.98 [0.80, 1.21]
PROCESS 2014	129	405	139	412	31.1%	0.94 [0.78, 1.15]
ProMISe 2015	184	623	181	620	40.4%	1.01 [0.85, 1.20]
Total (95% CI)	1820		1828		100.0%	0.98 [0.88, 1.10]
Total events	460		470			
Heterogeneity: $\text{Tau}^2 = 0.00$; $\text{Chi}^2 = 0.27$, $\text{df} = 2$ ($P = 0.87$); $I^2 = 0\%$						
Test for overall effect: $Z = 0.31$ ($P = 0.75$)						



アウトカム③ ICU length of stay (days)



アウトカム④ Sever adverse effects

