

CQ 6-8

成人敗血症患者の初期輸液に人工膠質液を投与するか？

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 4 月 28 日)

#1	("systemic inflammatory response syndrome"[MeSH Terms] OR Systemic Inflammatory Response Syndrome[Tiab] OR (Sepsis[MeSH] OR "Shock, Septic"[MesH] OR sepsis[tiab] OR (Septic[tiab] AND shock[tiab]))	179425
#2	"colloids"[All Fields] OR "colloids"[MeSH Terms] OR Colloids[tiab] OR "hydroxyethyl starch derivatives"[MeSH Terms] OR hydroxyethyl starch[tiab]	138238
#3	randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR "clinical trials as topic"[MeSH Terms:noexp] OR randomly[tiab] OR trial[ti] NOT ("animals"[MeSH Terms] NOT "humans"[MeSH Terms])	1123161
#4	#1 AND #2	998
#5	#1 AND #2 AND #3	204
#6	((("systemic inflammatory response syndrome"[MeSH Terms] OR Systemic Inflammatory Response Syndrome[Tiab] OR (Sepsis[MeSH] OR "Shock, Septic"[MesH] OR sepsis[tiab] OR (Septic[tiab] AND shock[tiab]))) AND ("colloids"[All Fields] OR "colloids"[MeSH Terms] OR Colloids[tiab] OR "hydroxyethyl starch derivatives"[MeSH Terms] OR hydroxyethyl starch[tiab])) AND (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR "clinical trials as topic"[MeSH Terms:noexp] OR randomly[tiab] OR trial[ti] NOT ("animals"[MeSH Terms] NOT "humans"[MeSH Terms]))	

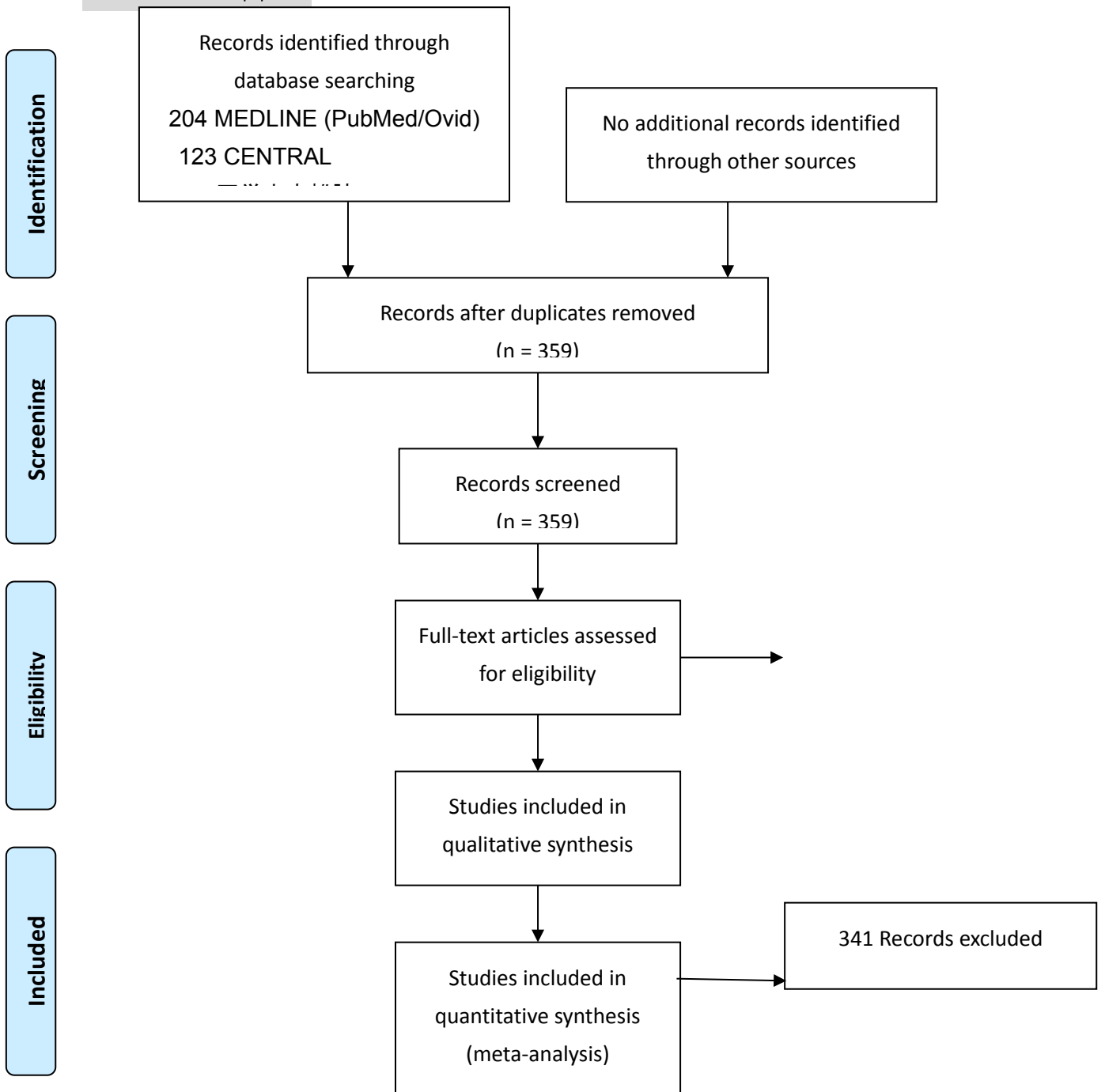
CENTRAL search strategy(検索日 2019 年 4 月 28 日)

#1	MeSH descriptor: [Systemic Inflammatory Response Syndrome]	4328
#2	(systemic inflammatory response syndrome):ti.ab.kw	1194
#3	Mesh descriptor:[Sepsis] explode all trees	11241
#4	(sepsis):ti.ab.kw	10248
#5	Mesh descriptor:[Septic shock] explode all trees	2912
#6	(septic shock):ti.ab.kw	2738
#7	colloids	775
#8	(colloids):ti,ab,kw	718
#9	hydroxyethyl starch derivatives	600
#10	(hydroxyethyl starch derivatives):ti,ab,kw	591
#11	#1 OR #2 OR #3 OR #4 OR #5 OR #6	14802
#12	#7 OR #8 OR #9 OR #10	1239
#13	#11 AND #12	123

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

#1	(systemic/AL and inflammatory/AL and response/AL and (症候群/TH or syndrome/AL)) and (PT=会議録除く)	17551
#2	((敗血症/TH or sepsis/AL)) and (PT=会議録除く)	15,911
#3	(Shock,/AL and Septic/AL) and (PT=会議録除く)	24
#4	(コロイド/TH) and (PT=会議録除く)	8123
#5	(hydroxyethyl/AL and (デンプン/TH or starch/AL) and derivatives/AL) and (PT=会議録除く)	299
#6	#1 or #2 or #3	17806
#7	#4 or #5	8402
#8	#6 and #7	60

PRISMA フロー図



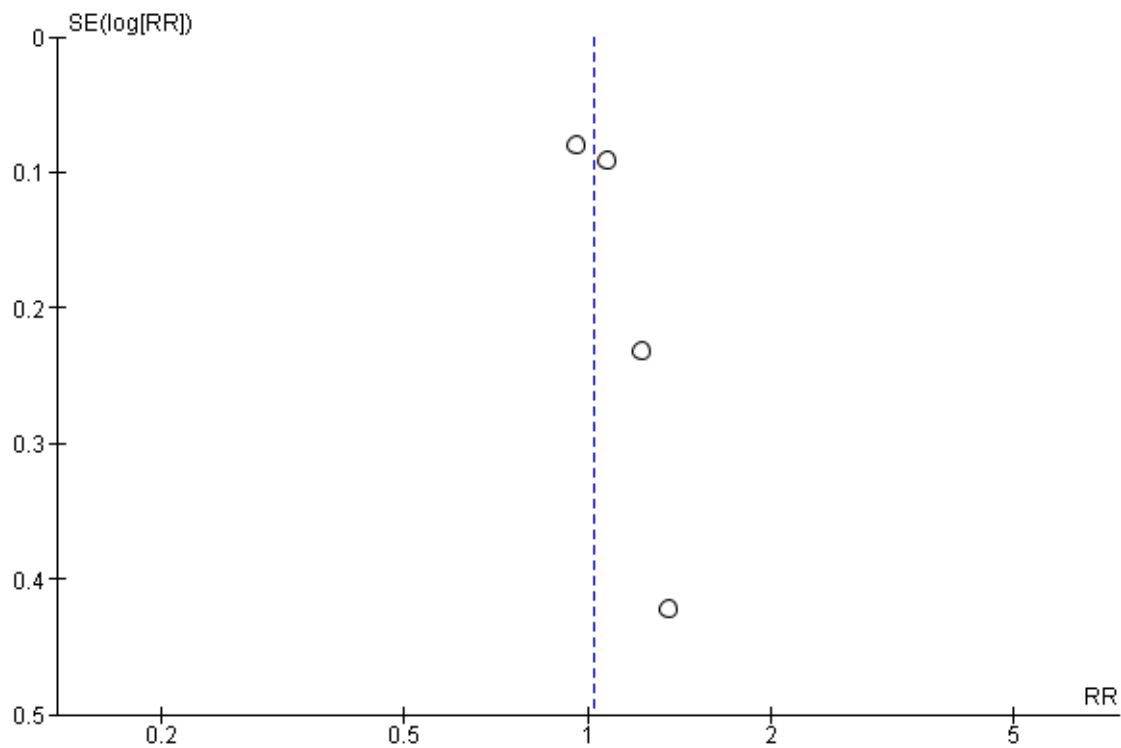
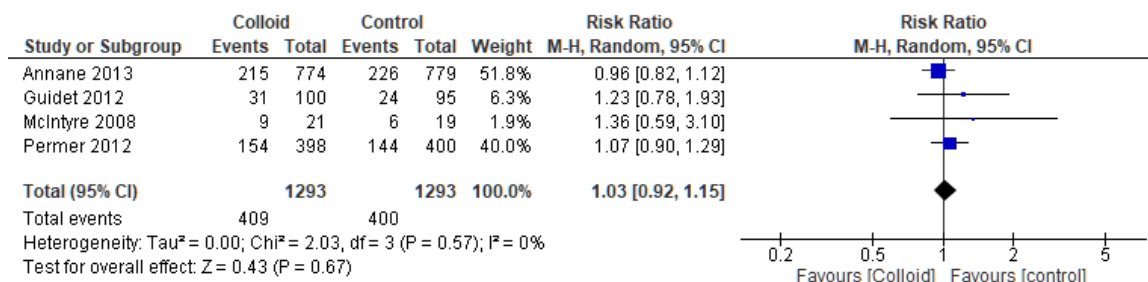
18 Full-text articles
14 excluded, with reasons:
5 foreign language
4 Wrong outcome
3 publication type
1 wrong study design

Risk of Bias サマリー

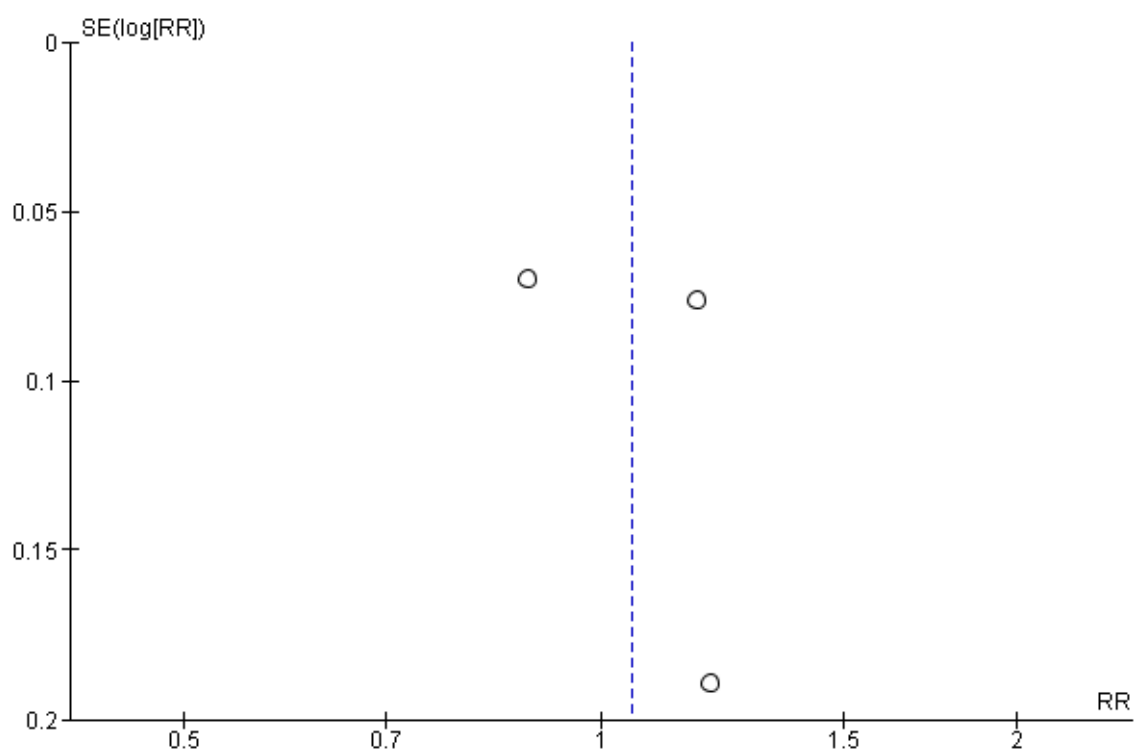
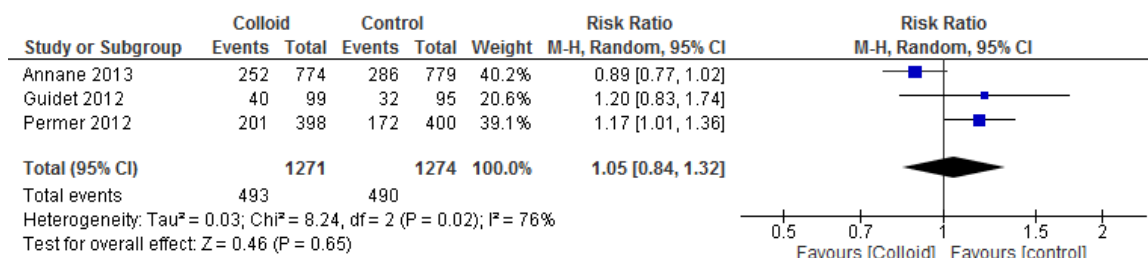
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Annane 2013	+	+	-	+	+	+	+
Guidet 2012	+	+	+	+	-	+	+
McIntyre 2008	+	+	+	+	+	+	+
Permer 2012	+	+	+	+	+	+	+

Forest/Funnel Plots

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



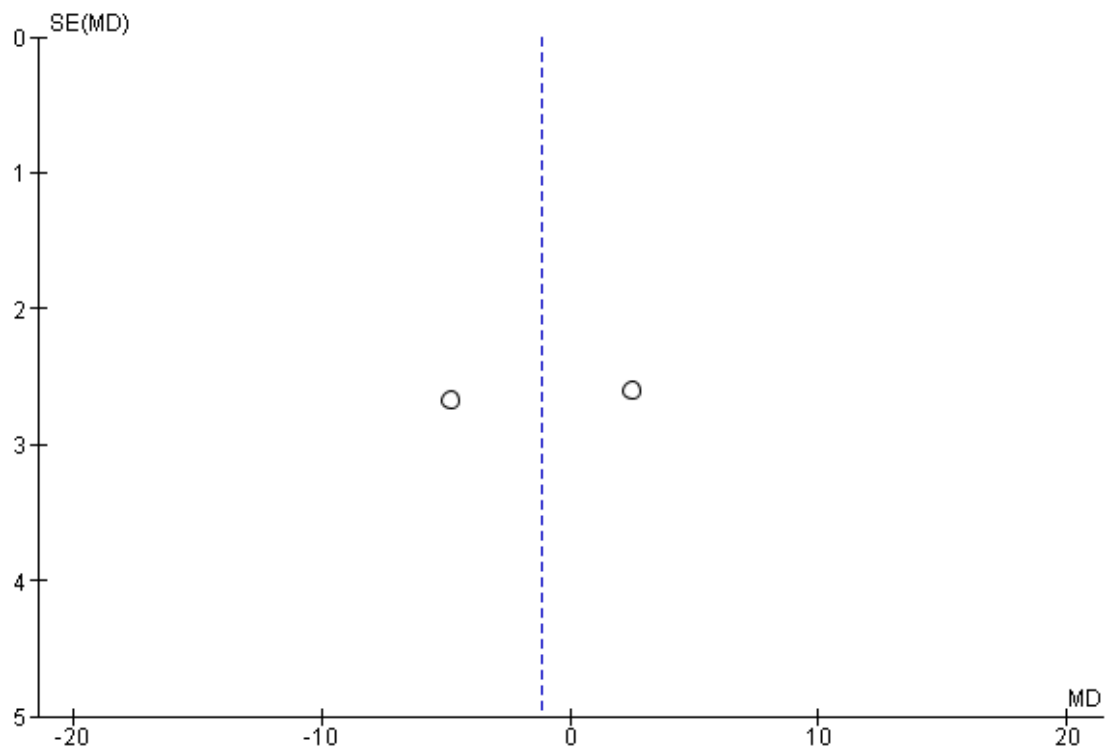
アウトカム② Long term outcome



アウトカム③ ICU stay days

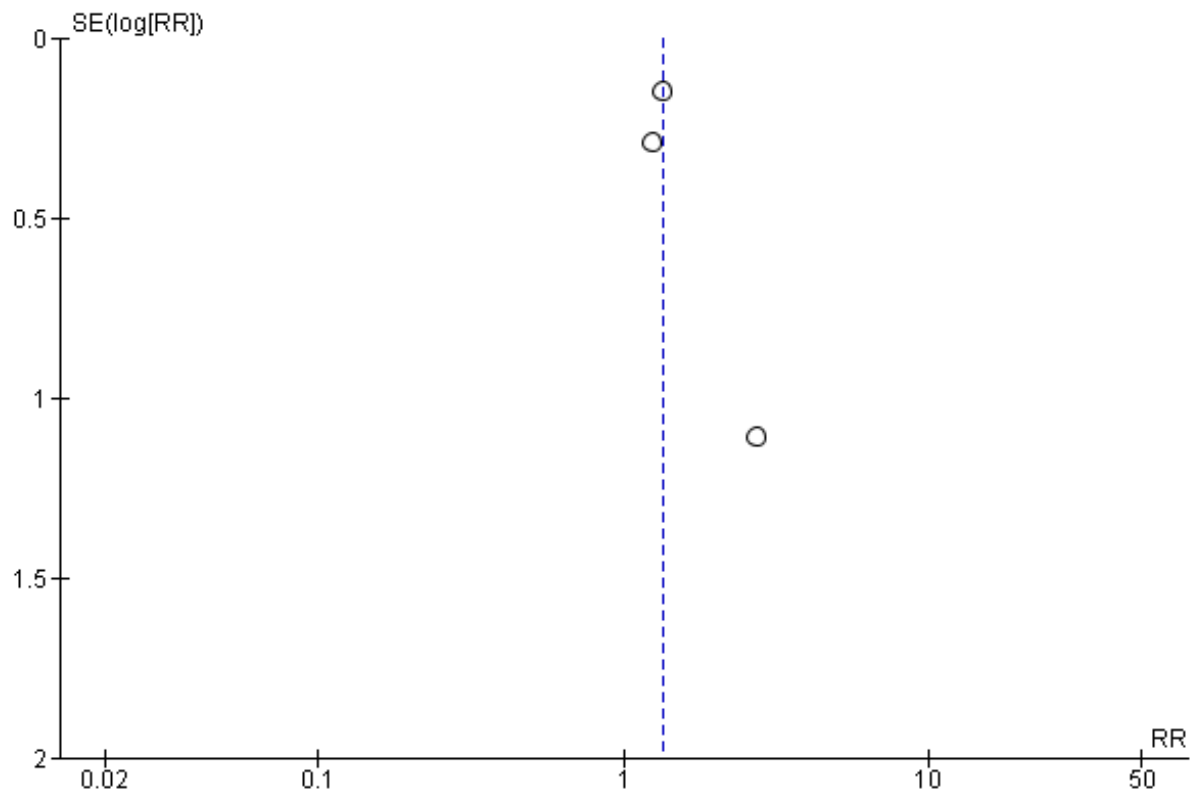
Study or Subgroup	Colloid			Control			Weight	Mean Difference IV, Random, 95% CI	Mean Difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total			
Guidet 2012	15.4	11.1	88	20.2	22.2	86	49.7%	-4.80 [-10.03, 0.43]	
McIntyre 2008	7.5	7.4	21	5	8.89	19	50.3%	2.50 [-2.60, 7.60]	
Total (95% CI)			109			105	100.0%	-1.13 [-8.28, 6.03]	

Heterogeneity: Tau² = 19.70; Chi² = 3.83, df = 1 (P = 0.05); I² = 74%
 Test for overall effect: Z = 0.31 (P = 0.76)



アウトカム④ Renal replacement therapy

Study or Subgroup	Colloid		Control		Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI	
	Events	Total	Events	Total			Favours [colloid]	Favours [control]
Guidet 2012	22	100	17	96	20.4%	1.24 [0.70, 2.19]		
McIntyre 2008	3	21	1	19	1.4%	2.71 [0.31, 23.93]		
Permer 2012	87	398	65	400	78.2%	1.35 [1.01, 1.80]		
Total (95% CI)		519		515	100.0%	1.34 [1.03, 1.73]		
Total events	112		83					
Heterogeneity: Tau ² = 0.00; Chi ² = 0.47, df = 2 (P = 0.79); I ² = 0%								
Test for overall effect: Z = 2.22 (P = 0.03)								



アウトカム⑤ Severe bleeding

