

CQ 18-8 小児敗血症性ショックに対して循環作動薬としてバソプレシンを使用するか？

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18日)

#1	Adolescent[Mesh] OR Child[Mesh] OR "Child, Preschool"[Mesh] OR Infant[Mesh] OR "Infant, Newborn"[Mesh] OR Adolescent[tiab] OR Adolescence[tiab] OR Child[tiab] OR Children[tiab] OR Infant[tiab] OR Infantile[tiab] OR Newborn[tiab] OR Neonate[tiab] OR Neonatal[tiab] OR Pediatric[tiab] OR Paediatric[tiab] OR Pediatrics[tiab] OR Paediatrics[tiab]	3878771
#2	"Shock, Septic"[Mesh] OR Sepsis[Mesh] OR "Neonatal Sepsis"[Mesh] OR Shock[Mesh] OR "Systemic Inflammatory Response Syndrome"[Mesh] OR "Multiple Organ Failure"[Mesh] OR Hypotension[mesh] OR Vasodilation[mesh] OR Septic[tiab] OR Shock[tiab] OR Sepsis[tiab] OR "Systemic Inflammatory Response Syndrome"[tiab] OR SIRS[tiab] OR "Multiple Organ Failure"[tiab] OR MOF[tiab] OR Hypotension[tiab] OR Vasodilation[tiab] OR Hypotensive[tiab] OR Vasodilatory[tiab]	476395
#3	Vasopressins[Mesh] OR "Arginine Vasopressin"[Mesh] OR Vasopressin[tiab] OR Vasopressins[tiab] OR "Arginine vasopressin"[tiab] OR Argipressin[tiab]	45797
#4	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])	3882822
#5	#1 AND #2 AND #3 AND #4	145

CENTRAL search strategy(検索日 2019年4月18日)

#1	MeSH descriptor: [Adolescent] explode all trees	98970
#2	MeSH descriptor: [Child] explode all trees	1142
#3	MeSH descriptor: [Child, Preschool] explode all trees	391
#4	MeSH descriptor: [Infant] explode all trees	15207
#5	MeSH descriptor: [Infant, Newborn] explode all trees	14968
#6	(adolescent):ti,ab,kw	122359
#7	(child):ti,ab,kw	130265
#8	(children):ti,ab,kw	130263
#9	(infant):ti,ab,kw	45541
#10	(infantile):ti,ab,kw	2027
#11	(newborn):ti,ab,kw	24196
#12	(neonate):ti,ab,kw	1596
#13	(neonatal):ti,ab,kw	15537
#14	(pediatric):ti,ab,kw	27701
#15	(paediatric):ti,ab,kw	27692
#16	(pediatrics):ti,ab,kw	3545
#17	(paediatrics):ti,ab,kw	3543
#18	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17	245504
#19	MeSH descriptor: [Shock, Septic] explode all trees	771
#20	MeSH descriptor: [Sepsis] explode all trees	3998
#21	MeSH descriptor: [Neonatal Sepsis] explode all trees	39
#22	MeSH descriptor: [Systemic Inflammatory Response Syndrome] explode all trees	4328
#23	MeSH descriptor: [Multiple Organ Failure] explode all trees	384
#24	MeSH descriptor: [Hypotension] explode all trees	1989
#25	MeSH descriptor: [Vasodilation] explode all trees	2061
#26	MeSH descriptor: [Shock] explode all trees	1946
#27	(sepsis):ti,ab,kw	10248
#28	(septic):ti,ab,kw	4108
#29	(shock):ti,ab,kw	9214
#30	(Systemic Inflammatory Response Syndrome):ti,ab,kw	1194
#31	(SIRS):ti,ab,kw	676
#32	(Multiple Organ Failure):ti,ab,kw	1667

#33	(MOF):ti,ab,kw	141
#34	(Hypotension):ti,ab,kw	13970
#35	(Hypotensive):ti,ab,kw	2880
#36	(vasodilation):ti,ab,kw	3827
#37	(vasodilatory):ti,ab,kw	925
#38	#19 OR #20 OR #21 OR #22 OR #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	41077
#39	MeSH descriptor: [Vasopressins] explode all trees	1287
#40	MeSH descriptor: [Arginine Vasopressin] explode all trees	709
#41	(vasopressin):ti,ab,kw	2276
#42	(vasopressins):ti,ab,kw	452
#43	(arginine vasopressin):ti,ab,kw	1026
#44	(argipressin):ti,ab,kw	110
#45	#39 OR #40 OR #41 OR #42 OR #43 OR #44	2521
#46	#18 AND #38 AND #45	39

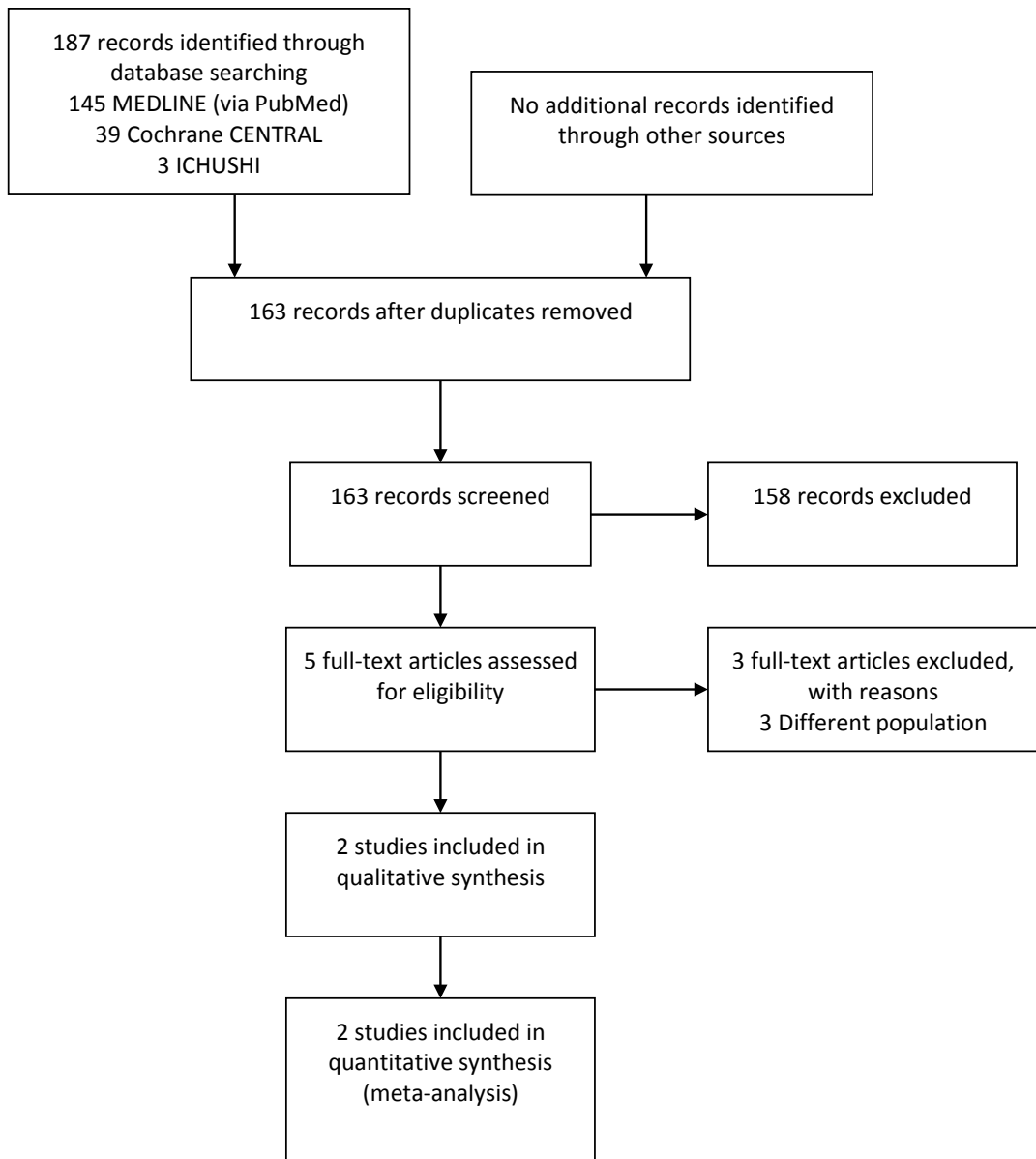
37 trials

医学中央雑誌 search strategy (検索日 2019年4月18日)

#1	((青年/TH or 青年/TA)) and (PT=会議録除く)	7066
#2	((小児/TH or 小児/TA)) and (PT=会議録除く)	188404
#3	((幼児/TH or 幼児/TA)) and (PT=会議録除く)	26108
#4	((乳児/TH or 乳児/TA)) and (PT=会議録除く)	37727
#5	((新生児/TH or 新生児/TA)) and (PT=会議録除く)	55145
#6	((小学生/TH or 小学生/TA)) and (PT=会議録除く)	6177
#7	((中学生/TH or 中学生/TA)) and (PT=会議録除く)	6450
#8	((中学生/TH or 小学生/TH) or 学童/TA)) and (PT=会議録除く)	11575
#9	#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8	266227
#10	((敗血症/TH or 敗血症/TA)) and (PT=会議録除く)	22405
#11	((新生児敗血症/TH or 新生児敗血症/TA)) and (PT=会議録除く)	165
#12	((ショック-敗血症性/TH or ショック-敗血症性/TA)) and (PT=会議録除く)	5098
#13	((全身性炎症反応症候群/TH or 全身性炎症反応症候群/TA)) and (PT=会議録除く)	17730
#14	((多臓器不全/TH or 多臓器不全/TA)) and (PT=会議録除く)	6286

#15	((低血圧/TH or 低血圧/TA)) and (PT=会議録除く)	12200
#16	((血管拡張/TH or 血管拡張/TA)) and (PT=会議録除く)	8963
#17	((ショック/TH or ショック/TA)) and (PT=会議録除く)	32140
#18	#10 or #11 or #12 or #13 or #14 or #15 or #16 or #17	68257
#19	#9 and #18	4691
#20	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
#21	((Vasopressins/TH or Vasopressins/TA or バソプレシン/TA or バソプレッシン/TA or バゾプレシン/TA or バゾプレッシン/TA)) and (PT=会議録除く)	4544
#22	(("Arginine Vasopressin"/TH or "Arginine Vasopressin"/TA or アルギニンバソプレシン/TA)) and (PT=会議録除く)	1697
#23	(("Argipressin (4-9)"/TH or "Argipressin (4-9)"/TA or アルギプレシン/TA)) and (PT=会議録除く)	1
#24	#21 or #22 or #23	4601
#25	#19 and #20 and #24	3

PRISMA フロー図



Risk of Bias サマリー

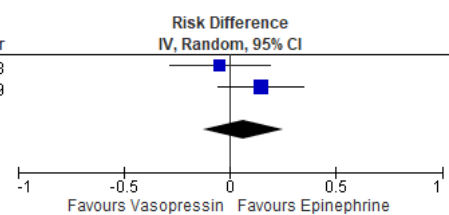
アウトカム①-1 30日死亡率 (30-day mortality)

	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
Choong 2009	+	+	+	+	+	+	+
Yildizdas 2008	+	?	-	+	+	?	-

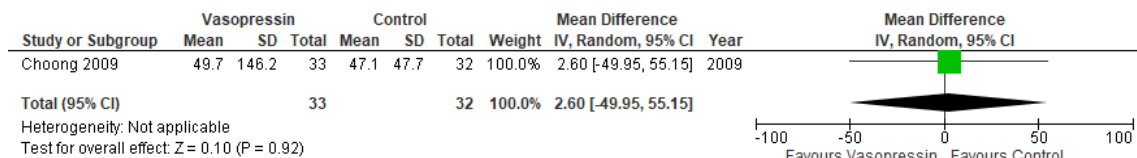
フォレストプロット

アウトカム 1 死亡率

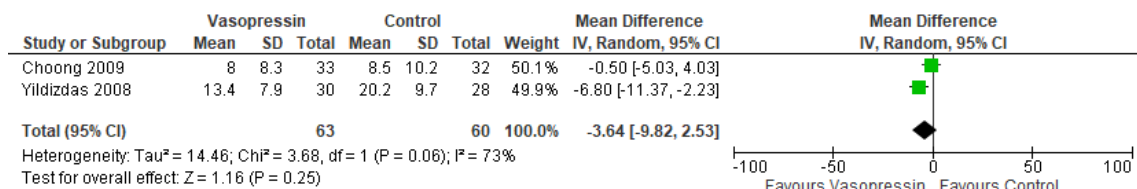
Study or Subgroup	Vasopressin		Control		Weight	Risk Difference IV, Random, 95% CI	Year
	Events	Total	Events	Total			
Yildizdas 2008	20	30	20	28	44.5%	-0.05 [-0.29, 0.19]	2008
Choong 2009	10	33	5	32	55.5%	0.15 [-0.05, 0.35]	2009
Total (95% CI)		63		60	100.0%	0.06 [-0.13, 0.25]	
Total events	30		25				
Heterogeneity: Tau ² = 0.01; Chi ² = 1.50, df = 1 (P = 0.22); I ² = 33%							
Test for overall effect: Z = 0.62 (P = 0.53)							



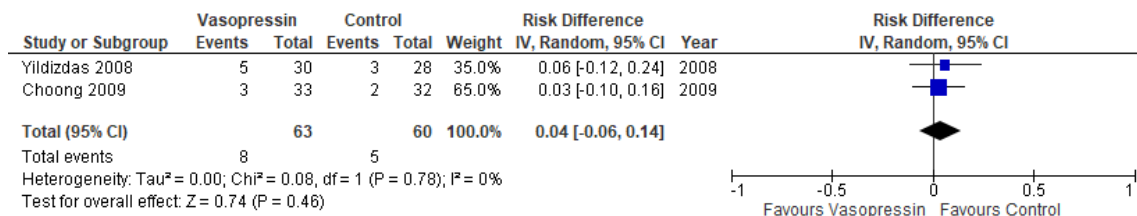
アウトカム② 血管作動薬離脱までの時間 (Time to vasoactive-free hemodynamic stability)



アウトカム③ PICU 滞在日数 (Length of PICU stay, days)

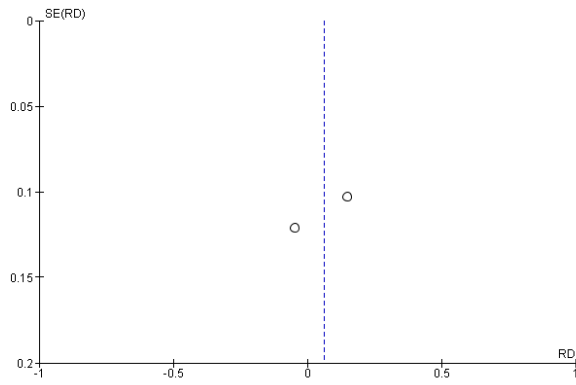


アウトカム④ あらゆる重篤な副作用

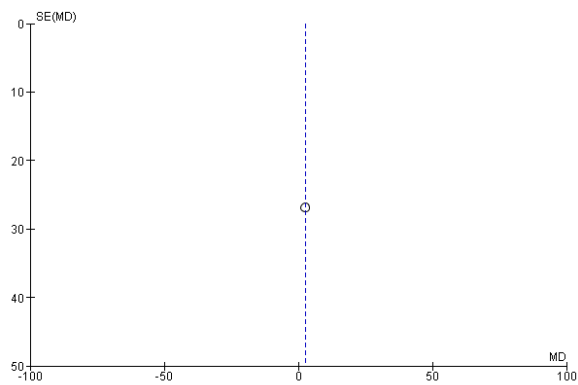


ファンネルプロット

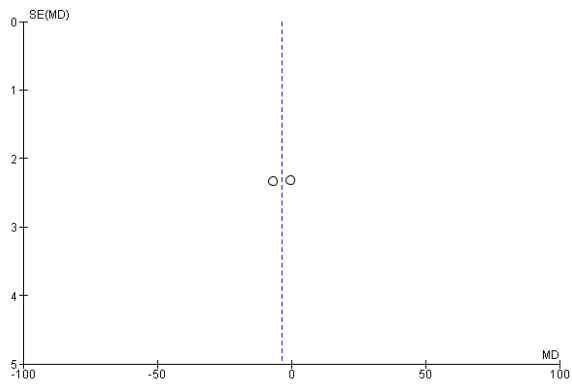
アウトカム1 死亡率 (mortality)



アウトカム② 血管作動薬離脱までの時間 (Time to vasoactive-free hemodynamic stability)



アウトカム③ PICU 滞在日数 (Length of PICU stay, days)



アウトカム④ あらゆる重篤な副作用

