

**CQ 4-10 敗血症に対して、比較的短期間(7日間以内)の抗菌薬治療を行うか？**

**検索データベース(最終検索結果として水色でハイライトした部分を採用する)**

- MEDLINE (PubMed/Ovid) 1011 件
- CENTRAL 163 件
- 医学中央雑誌 21 件
- その他 ( )

**検索式とヒット数**

PubMed search strategy(検索日 2019年4月22日)

#1	"Anti-Bacterial Agents"[mesh] OR "anti-infective agents"[Mesh]	<a href="#">665062</a>
#2	duration[tiab] OR short[tiab] OR long[tiab] OR prolonged[tiab] OR course[tiab]	<a href="#">2961853</a>
#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]))	<a href="#">3884269</a>
#4	Sepsis[mesh] or sepsis[tiab] or "Systemic Inflammatory Response Syndrome"[mesh] or "Systemic Inflammatory Response Syndrome"[tiab] or SIRS[tiab] or "septic shock"[tiab] or "Multiple Organ Failure"[mesh] or "Multiple Organ Failure"[tiab] or MOF[tiab]	<a href="#">195667</a>
#5	"Intensive Care Units"[Mesh] OR "Critical Care"[Mesh] OR "Critical Illness"[mesh] OR "ventilator"[tiab]	<a href="#">151204</a>
#6	#4 OR #5	<a href="#">330229</a>
#7	adult[MeSH]	<a href="#">6804509</a>
#8	#1 AND #2 AND #3 AND #6 AND #7	<a href="#">2346</a>

**5 大感染症別**

#9	Pneumonia[tiab] OR Pneumonia[mesh]	<a href="#">145990</a>
#10	"intraabdominal infections"[mesh] OR "peritonitis"[MeSH]	<a href="#">63761</a>
#11	bacteremia[mesh]	<a href="#">27604</a>
#12	Pyelonephritis[mesh] OR Pyelonephritis[tiab] OR "Urinary Tract Infections"[mesh] OR "Urinary Tract Infections"[tiab]	<a href="#">67264</a>
#13	"cholangitis"[MeSH] OR Cholangitis[tiab] OR Cholangitides[tiab]	<a href="#">17405</a>

	OR “biliary tract infection”[tiab]	
#14	#8 AND #9	<a href="#">407</a>
#15	#8 AND #10	<a href="#">51</a>
#16	#8 AND #11	<a href="#">540</a>
#17	#8 AND #12	<a href="#">95</a>
#18	#8 AND #13	<a href="#">18</a>
#19	#14 OR #15 OR #16 OR #17 OR #18	<a href="#">1111</a>

CENTRAL search strategy(検索日 2019年4月24日)

#1	MeSH descriptor: [Sepsis] explode all trees	3998
#2	(Sepsis):ti,ab,kw	10248
#3	MeSH descriptor: [Systemic Inflammatory Response Syndrome] explode all trees	4328
#4	(Systemic Inflammatory Response Syndrome):ti,ab,kw	1194
#5	(SIRS):ti,ab,kw	676
#6	MeSH descriptor: [Shock, Septic] explode all trees	771
#7	(septic shock):ti,ab,kw	2738
#8	MeSH descriptor: [Multiple Organ Failure] explode all trees	384
#9	(“multiple organ failure”):ti,ab,kw	1326
#10	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9	14643
#11	MeSH descriptor: [Intensive Care Units] explode all trees	3260
#12	MeSH descriptor: [Critical Care] explode all trees	1918
#13	MeSH descriptor: [Critical Illness] explode all trees	1845
#14	MeSH descriptor: [Ventilation] explode all trees	75
#15	(ventilation):ti,ab,kw	5321
#16	#11 OR #12 OR #13 OR #14 OR #15	10605
#17	#10 OR #16	23987
#18	MeSH descriptor: [Anti-Infective Agents] explode all trees	27345
#19	MeSH descriptor: [Anti-Bacterial Agents] explode all trees	11090
#20	(antibiotics):ti,ab,kw	15154
#21	#18 OR #19 OR #20	38440
#22	(duration OR short OR long OR prolonged OR course):ti,ab,kw	337162
#23	(day OR days):ti,ab,kw	324909
#24	#22 AND #23	104237
#25	#17 AND #21 AND #24	698

## 5 大感染症別

#26	MeSH descriptor: [Pneumonia] explode all trees	3131
#27	MeSH descriptor: [Intraabdominal Infections] explode all trees	1246
#28	MeSH descriptor: [Peritonitis] explode all trees	571
#29	#27 OR #28	1246
#30	MeSH descriptor: [Bacteremia] explode all trees	886
#31	MeSH descriptor: [Pyelonephritis] explode all trees	226
#32	MeSH descriptor: [Urinary Tract Infections] explode all trees	2339
#33	#31 AND #32	2542
#34	MeSH descriptor: [Cholangitis] explode all trees	203
#31	#26 OR #29 OR #30 OR #33 OR #34	7719

#32	#25 AND #26	肺炎	78
#33	#25 AND #29	腹腔内感染症	13
#34	#25 AND #30	菌血症	62
#35	#25 AND #33	尿路感染症	19
#36	#25 AND #34	胆管炎	1
#37	#25 AND #31	#32~#36 合わせて	163

## 医学中央雑誌 search strategy(検索日 2019年4月25日)

#1	((抗感染剤/TH) or (抗細菌剤/TH) or (抗菌剤/TA) or (抗菌薬治療/TA) or (抗菌薬投与/TA) or (抗菌薬の使い方/TA) or (抗菌薬使用量/TA) or (抗生剤/TA) or (抗生物質/TA)) and (PT=会議録除く)	221,761
#2	#1 and (RD=ランダム化比較試験)	1,990
#3	#2 and (CK=成人(19~44), 中年(45~64), 高齢者(65~), 高齢者(80~))	811
#4	((治療期間/AL) or (治療期間短縮/AL) or (日数/AL) or (日数短縮/AL) or (7日/AL) or (1週間/AL)) and (PT=会議録除く)	66,552
#5	#3 and #4	121

## 敗血症・集中治療

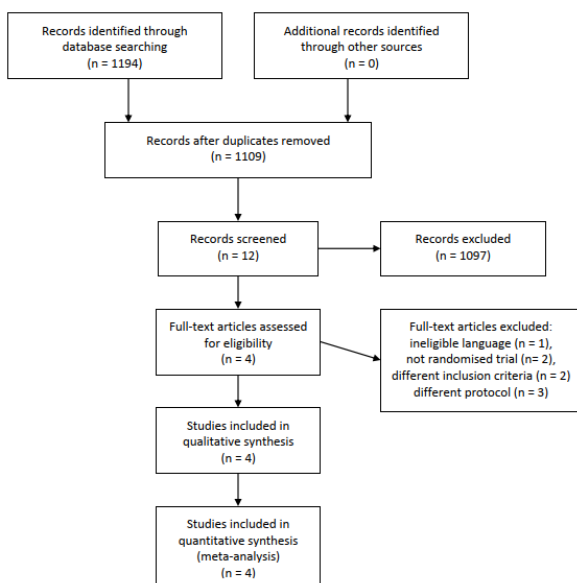
#6	((敗血症/TH or 敗血症/TA)) and (PT=会議録除く)	22,405
#7	((全身性炎症反応症候群/TH or 全身性炎症反応症候群/TA)) and (PT=会議録除く)	17,730

#8	((ショック-敗血症性/TH or 敗血症性ショック/TA)) and (PT=会議録除く)	6,145
#9	((多臓器不全/TH or 多臓器不全/TA)) and (PT=会議録除く)	6,286
#10	((敗血症/TH or sepsis/TA)) and (PT=会議録除く)	15,909
#11	(septic/AL and (ショック/TH or shock/TA)) and (PT=会議録除く)	511
#12	#6 or #7 or #8 or #9 or #10 or #11	28,983
#13	((クリティカルケア/TH or 集中治療/TA)) and (PT=会議録除く)	12,179
#14	((ICU/TH or 集中治療室/TA)) and (PT=会議録除く)	18,168
#15	((人工呼吸器/TH or 人工呼吸器/TA)) and (PT=会議録除く)	12,762
#16	#13 or #14 or #15	36,971
#17	#12 or #16	63,303
#18	#5 and #17	4

#### 5 大感染症別

#19	((肺炎/TH or 肺炎/TA)) and (PT=会議録除く)	肺炎	57,639
#20	((腹腔内感染症/TH) or (腹腔内感染/TA) or (腹腔内感染症/TA) or (腹膜炎/TH) or (腹膜炎/TA)) and (PT=会議録除く)	腹腔内感染症	19,623
#21	((菌血症/TH or 菌血症/TA)) and (PT=会議録除く)	菌血症	3,782
#22	((尿路感染症/TH or 尿路感染症/AL)) and (PT=会議録除く)	UTI	12,879
#23	((胆管炎/TH or 胆管炎/AL)) and (PT=会議録除く)	胆管炎	5,886
#24	#19 or #20 or #21 or #22 or #23	合計	99,198
#25	#5 and #24	抗菌薬 × 治療期間 × 5 大感染症	21

## PRISMA フロー

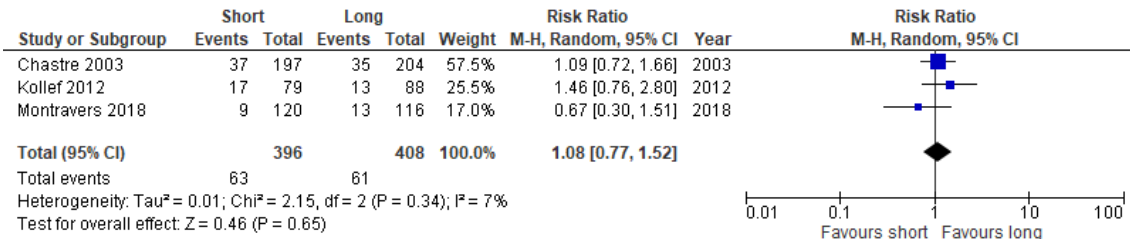


## Risk of Bias サマリー

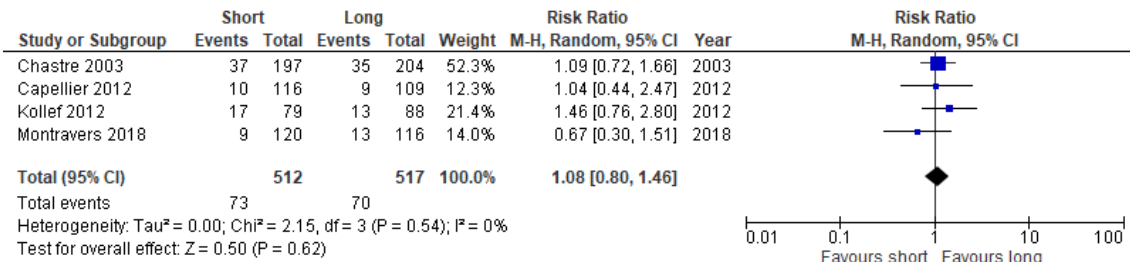
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Capellier 2012	+	+	+	+	-	+	+
Chastre 2003	+	+	+	+	+	?	+
Kollef 2012	+	+	+	+	+	+	+
Montravers 2018	+	+	+	+	+	+	+

## フォレストプロット

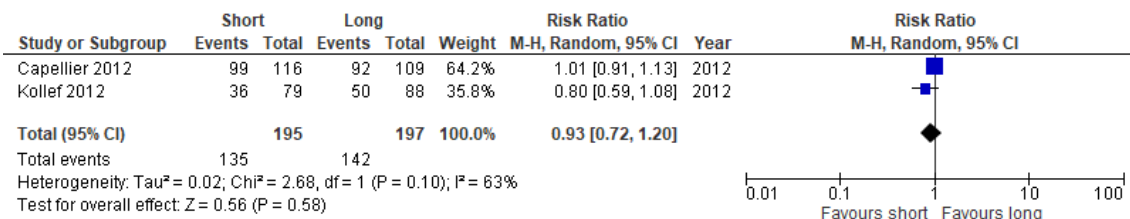
アウトカム①-1 28-day mortality



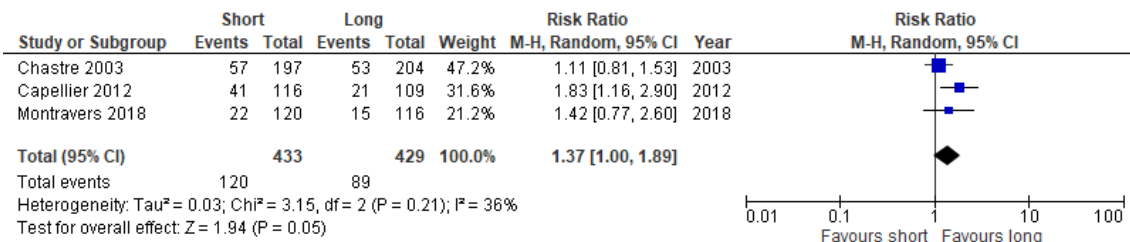
### アウトカム①-2 Mortality at longest follow-up



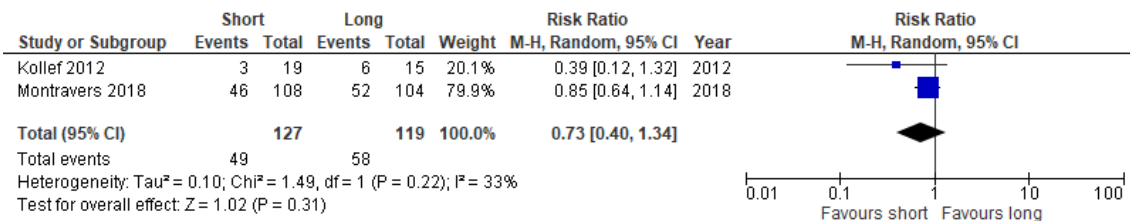
### アウトカム② Clinical resolution



### アウトカム③ Recurrence

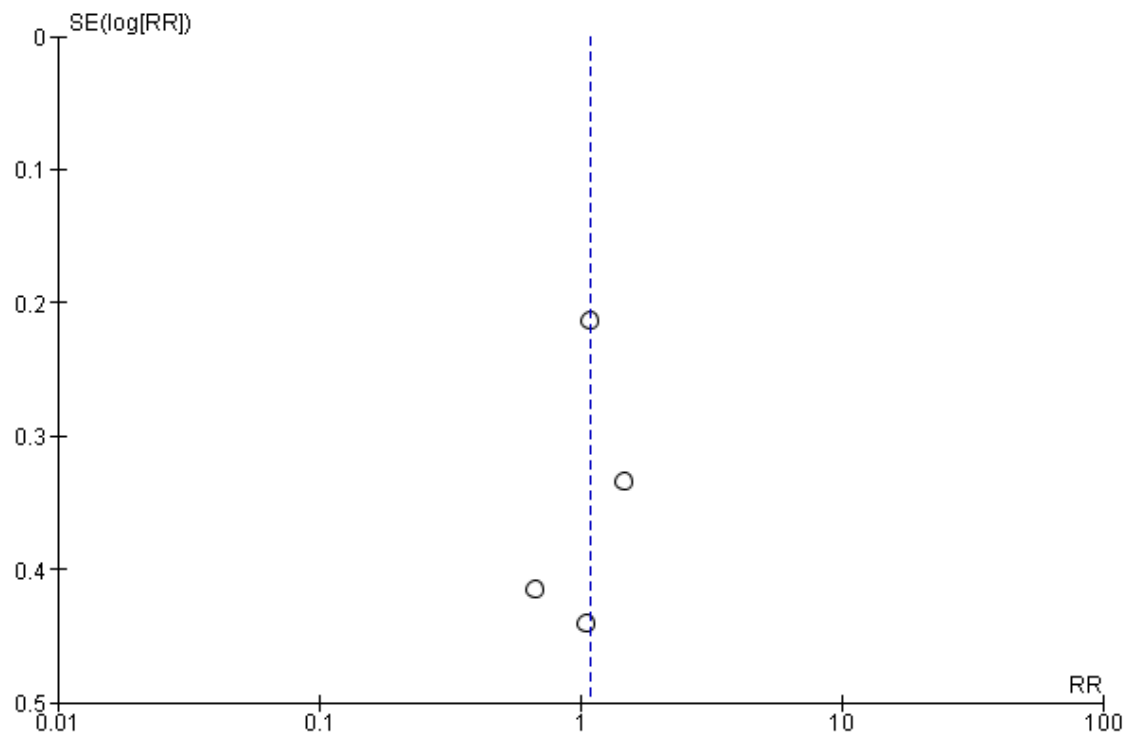


### アウトカム④ Emergence of resistant organisms



## ファンネルプロット

参考



Funnel plot of comparison: Short vs. Long, outcome: Mortality at longest follow-up.