

### CQ 11-3 敗血症性 AKI の予防・治療目的にドパミンの投与は行うか？

#### 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 5月 10日)

#1	Search ((acute kidney[tw] OR acute renal[tw] OR acute nephr*[tw] OR acute glomer*[tw] OR acute dialysis[tw] OR acute tubul*[tw] OR "Acute Kidney Injury"[mh] OR kidney injur*[tiab] OR renal injur*[tiab] OR "Kidney Diseases/chemically induced"[mh] OR tubular injury[tiab] OR tubular necrosis*[tiab] OR tubular damage*[tiab] OR tubule damage*[tiab] OR nephrotox*[tiab] OR "Nephritis, Interstitial"[mh:noexp] OR tubulointerstitial nephritis[tiab] OR interstitial nephritis[tiab] OR kidney ischemi*[tiab] OR kidney ischaemi*[tiab] OR renal ischemi*[tiab] OR renal ischaemi*[tiab] OR induced kidney[tiab] OR induced renal[tiab] OR hemolytic uremi*[tiab] OR haemolytic uraemi*[tiab] OR "Hemolytic-Uremic Syndrome"[majr:noexp] OR aki[tiab] OR oliguri*[tw] OR anuri*[tw] OR anti-glomerular[tw] OR antiglomerular[tw] OR "Kidney Cortex Necrosis"[mh:noexp] OR pre-renal[tiab] OR prerenal[tiab] OR anti-gbm[tiab] OR obstructed kidney*[tiab] OR renal obstruction[tiab] OR obstructive nephropathy[tiab] OR obstructive uropathy[tiab] OR hepatorenal syndrome[tw] OR "Hemorrhagic Fever with Renal Syndrome"[majr:noexp] OR thrombotic thrombocytopeni*[tiab] OR thrombotic microangiopathy[tiab] OR "Acidosis/chemically induced"[mh] OR renal hypoperfusion[tiab] OR (worsening[tiab] AND renal[tiab]) OR improved renal function[tiab] OR (impair*[tiab] AND renal function[tiab]) OR azotemi*[tw] OR azotaemi*[tw] OR (renal[tiab] AND thrombosis[tiab]) OR (("Reperfusion	255982
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	Injury"[mh:noexp] OR ischemic injury[tiab] OR ischemia injury[tiab] OR ischaemic injury[tiab] OR ischaemia injury[tiab] OR ischemic reperfusion[tiab] OR ischemia reperfusion[tiab] OR ischaemic reperfusion[tiab] OR ischaemia reperfusion[tiab] OR critical care[tw] OR critically ill[tw] OR (critical*[tw] AND illness[tw]) OR sepsis[tw] or septic[tw] OR intensive care[tw] OR icu[tiab] OR tubular cell*[tiab] OR rhabdomyolysis[tw] OR thrombocytopeni*[tiab] OR life-threatening[tw] OR vasculit*[tw] OR polyarteritis[tw] OR cardiogenic shock[tiab] OR multiorgan dysfunction[tw] OR multi-organ dysfunction[tw] OR multiple organ dysfunction[tw] OR multiple organ failure[tw] OR multiorgan failure[tw] OR multi-organ failure[tw] OR polyangiitis[tw] OR (wegener*[tw] AND granulomatosis[tw]) OR "Blood Urea Nitrogen"[mh:noexp]) AND (kidney[tw] OR renal[tw] OR dialysis[tw] OR uremi*[tiab] OR uraemi*[tiab] OR dehydrat*[tw] OR creatinin*[tw])) OR ((glomerulonephritis[tw] OR nephrit*[tiab]) AND (crescentic[tw] OR anca*[tiab] OR rapidly progressive[tiab] OR acute[tiab])) OR (("Kidney Diseases"[mh:noexp] OR renal insufficienc*[tw] OR renal failure[tw] OR renal function[tiab] OR renal impairment[tiab] OR glomerular filtration rate[tiab] OR ischemia-reperfusion injury[tiab]) AND ("Ischemia"[mh:noexp] OR "chemically induced"[sh] OR revers*[tiab] OR microangiopath*[tiab] OR cirrhosis[ti] OR "Substance-Related Disorders"[mh] OR "Neurologic Manifestations"[mh] OR preoperative*[tiab] OR pre-operative*[tiab] OR postoperative*[tiab] OR post-operative*[tiab])) OR ((injury[tw] OR ischemi*[tw] OR ischaemi*[tw] OR reperfusion[tw]) AND (renal tubul*[tiab] OR tubular[tiab])))	
#2 sepsis	Search (sepsis[mesh] OR "systemic inflammatory response syndrome"[mesh] OR "multiple organ failure"[mesh] OR sepsis[tiab] OR "systemic inflammatory response syndrome"[tiab] OR MOF[tiab] OR SIRS[tiab] OR "multiple organ failure"[tiab])	190948
#3	#1 OR #2	427125

#4	Search (dopamine[mesh] OR dopamine[tiab])	144422
#5 RCT	Search ((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])))	3895695
#6	#3 AND #4 AND #5	915

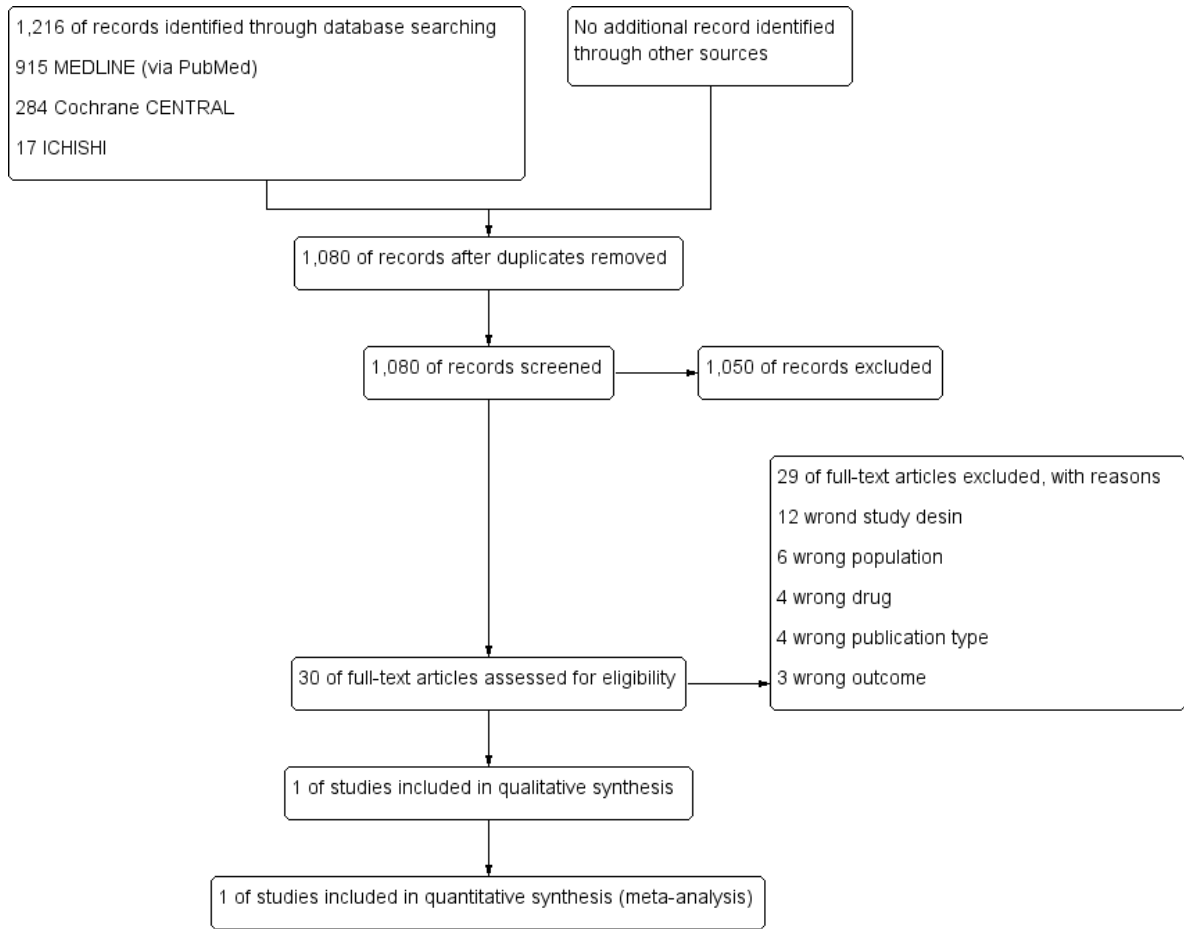
CENTRAL search strategy (検索日 2019年 5月 10日)

#1	MeSH descriptor: [Acute Kidney Injury] explode all trees	1214
#2	“acute kidney failure”:ti,ab,kw OR “acute renal failure”:ti,ab,kw in Trials	2881
#3	acute kidney injur*:ti,ab,kw OR acute renal injur*:ti,ab,kw in Trials	3600
#4	acute kidney insufficie*:ti,ab,kw OR acute renal insufficie*:ti,ab,kw in Trials	1218
#5	acute tubular necrosis:ti,ab,kw in Trials	148
#6	ARF or AKF or ATN:ti,ab,kw in Trials	676
#7	#1 OR #2 OR #3 OR #4 OR #5 OR #6	6171
#8	MeSH descriptor: [Sepsis] explode all trees	4028
#9	(sepsis):ti,ab,kw	10323
#10	MeSH descriptor: [Systemic Inflammatory Response Syndrome] explode all trees	4357
#11	(Systemic Inflammatory Response Syndrome):ti,ab,kw	1204
#12	(SIRS):ti,ab,kw	682
#13	MeSH descriptor: [Multiple Organ Failure] explode all trees	387
#14	(multiple organ failure):ti,ab,kw	1686
#15	(MOF):ti,ab,kw	143
#16	#8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15	14209
#17	#7 OR #16	19547
#18	MeSH descriptor: [Dopamine] explode all trees	1228
#19	(dopamine):ti,ab,kw	7466
#20	#18 OR #19	7495
#21	#17 AND #20	284

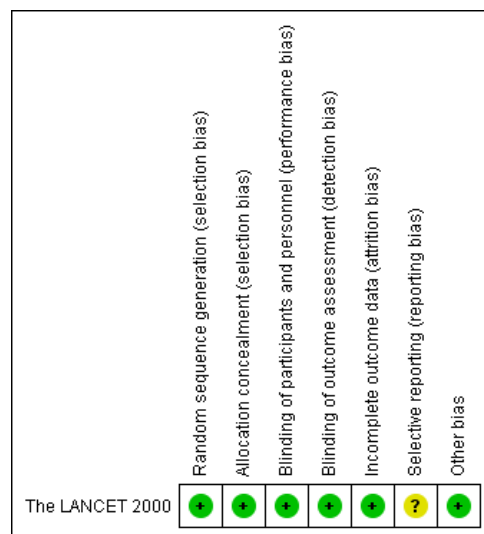
医学中央雑誌 search strategy (検索日 2019年 5月 10日)

#1	((急性腎障害/TH or 急性腎障害/TA)) and (PT=会議録除く)	7,337
#2	((急性腎不全/TA)) and (PT=会議録除く)	6,021
#3	((急性腎機能障害/TA)) and (PT=会議録除く)	48
#4	((尿細管壊死-急性/TH or 尿細管壊死-急性/TA)) and (PT=会議録除く)	255
#5	#1 or #2 or #3 or #4	10,006
#6	((敗血症/TH or 敗血症/TA)) and (PT=会議録除く)	22,465
#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)	17,767
#8	((全身性炎症反応症候群/TH or SIRS/TA)) and (PT=会議録除く)	17,885
#9	((多臓器不全/TH or 多臓器不全/TA)) and (PT=会議録除く)	6,294
#10	((多臓器不全/TH or MOF/TA)) and (PT=会議録除く)	4,905
#11	#6 or #7 or #8 or #9 or #10	29,979
#12	#5 or #11	38,675
#13	((Dopamine/TH or Dopamine/TA)) and (PT=会議録除く)	6,998
#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	302,233
#15	#12 and #13 and #14	17

PRISMA フロー図



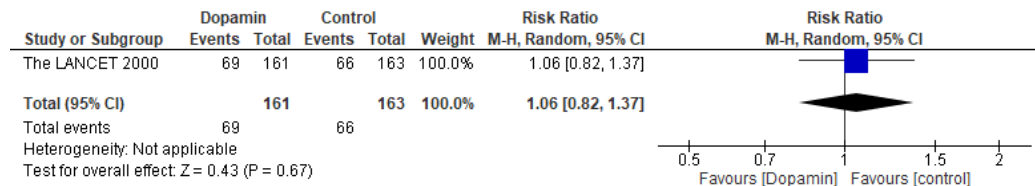
Risk of Bias サマリー



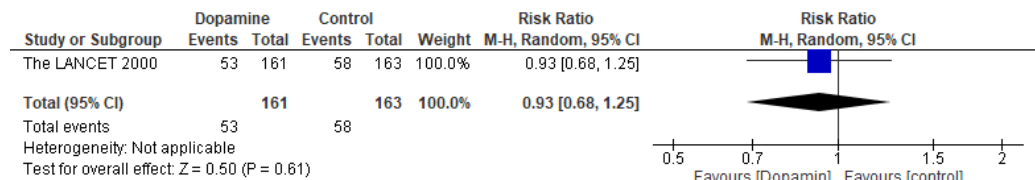
Outcome

1. 死亡

### 1.1 Death to hospital discharge



### 1.2 Death to ICU discharge

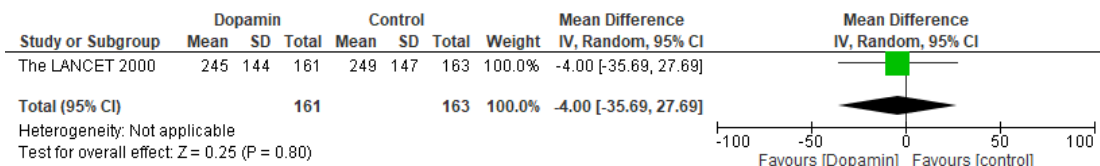


## 2. RRT

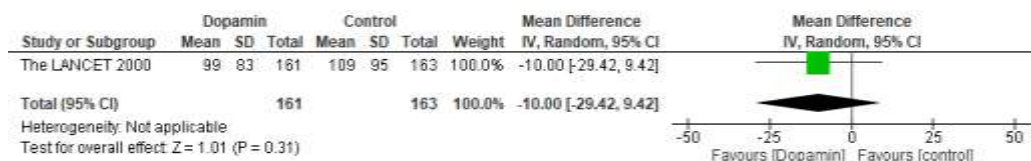


## 3. AKI からの回復

### 3.1 Peak serum creatinine (μmol/L)



### 3.2 Urine output after 48h (ml/h)



## 4. 合併症(不整脈)

### Cardiac arrhythmias

