

补充到ΣABA

Supplement

Supplement to: Prevalence and risk factors for death in sepsis-associated brain dysfunction: a retrospective study from ICU admissions

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Supplement data

Table 1. Sequential [sepsis- related]Organ Failure Assessment (SOFA)

Organ	Grades	Scores
Brain, GCS	15	0
	13-14	1
	10-12	2
	6-9	3
	<6	4
Respiratory, PaO ₂ /FiO ₂ mmHg	≥400	0
	<400	1
	<300	2
	<200	3
	<100	4
Circulation	SBP>90	0
	SBP<90	1
	Dopamine≤0.1ug/kg/min	2
	Dopamine>0.1ug/kg/min	3
	Dopamine>1.5ug/kg/min	4
Renal, creatinine, umol/l	<110	0
	110-170	1
	171-299	2
	300-440	3
	>440	4
Liver, total serum bilirubin,umol/l	<20	0
	20-32	1
	33-101	2

	102-204	3
	>204	4
Blood, platelet count, x10 ⁹ /L	≥150	0
	<150	1
	<100	2
	<50	3
	<20	4

SOFA, a scale from 0 to 4, with higher scores indicating more severe organ failure;
GCS, Glasgow Coma Scale; SBP, systolic blood pressure; DBP, diastolic blood pressure;

Table 2. Baseline characteristics of 748 ICU admissions

Characteristics	Value
Male gender n, (%)	473(63.2)
Age (years, mean±SD)	59.9±15.7
Primary critically ill in ICU	
Acute stroke, n, (%)	263(35.1)
Traumatic brain injure, n, (%)	207(27.7)
Other, n, (%)	278(37.2)
Median time from onset to ICU(h, range)	1(0.5-3.0)
Frequency of SIRS ≥2/infection,n (%)□	456(61.0)
Median time from onset to infection (h, range)	1(0.5-24)
Community-acquired infection	357(47.7)
Nosocominal-acquired infection	99(13.2)
Site of infection	
Lung, n. (%)	296(39.6) §
Wound/soft tissue, n. (%)	98(13.1)
Bloodstream, n. (%)	31(4.1)
Abdominal, n. (%)	22(2.9)
Other/unknown, n. (%)	9(1.2)
Positive body fluid culture, n(%)	367(49.1)
Initial GCS score (median, range)	7(3-15)
Score of 15, n. (%)	24(3.2)
Score of 10-14, n. (%)	91(12.2)
Score of 6-9, n. (%)	417(55.7)
Score<6, n. (%)	216(28.9)
SOFA score (median, range)	6(0-18)
Score of 0, n. (%)	9(1.0)
Score of 1, n. (%)	20(2.7)
Score of 2-3, n. (%)	223(29.8)

Score of 4-5, n. (%)	111(14.8)
Score \geq 6, n. (%)	385(51.5)
Median time from infection to sepsis/SABD(h, range)	9.2(1-168)
Sepsis, n (%)	362(48.4)
Sepsis-related organ failure	
SABD, n (%)	352(97.2)
Respiratory failure, n (%)	287(79.3)
Septic shock, n (%)	148(40.9)
Hepatic failure , n (%)	110(30.4)
Kidney failure , n (%)	91(25.1)
Other , n (%)	7(2.0)
Multi-organ failure , n (%)	343(94.8)
Central herniation, n (%)	505(67.5)
Uncal herniation, n (%)	165(22.1)
Lactic acid (mmol/L, mean \pm SD)	9.2 \pm 5.1
Serum glucose (mmol/L,mean \pm SD)	2.9 \pm 2.2
Unused antibiotic within initial 3 h, n (%)	629(84.1)
Mechanical ventilation, n (%)	585(78.2)
LOS in ICU (mean \pm SD)	4.7 \pm 5.7
Mortality at 30 days, n (%)	443(59.2)

Abbreviations: ICU, intensive care unit; SABD:sepsis-associated brain dysfunction ; SIRS, systemic inflammatory response syndrome; GCS, Glasgow Coma Scale; SOFA, Sequential [sepsis- related] Organ Function Assessment (scale ranges from 0 to 4, \geq 2 indicates organ failure, and higher scores indicate more severe organ failure).

§ confirmed by chest CT scans or sputum culture.

Table 3. ROC curve analysis for early risk factors of SABD patients in ICU .

Variable	AUC	95%CI	P value
FOSA score	0.604	0.561-0.642	< 0.001
SIRS \geq 2	0.560	0.519-0.601	< 0.005
qSOFA score	0.544	0.503-0.585	0.034
Respiratory rate	0.516	0.474-0.558	0.447
Lactic acid	0.520	0.478-0.561	0.355
LOS in ICU	0.512	0.471-0.554	0.057

Abbreviation: SABD:sepsis-associated brain dysfunction ; SIRS, systemic inflammatory response syndrome; qSOFA, qick; Sequential [sepsis-related] Organ Function Assessment; SOFA, Sequential [sepsis-related] Organ Function Assessment; LOS, length of stay; ICU, intensive care unit; AUC,the area under the receiver operating characteristic curve.