**SUPPLEMENT**

**Table S1. Comparison of Sepsis-1 and Sepsis-3 diagnostic criteria**

|  |  |
| --- | --- |
| **Sepsis-1 criteria for severe sepsis and septic shock** | **Sepsis-3 criteria for sepsis and septic shock** |
| **Systemic inflammatory response syndrome (SIRS)** | **Temperature** >38°C or <36°C | **qSOFA** | **Systolic blood pressure**≤ 100mmHg |
| **Heart rate**>90/min | **Altered mental status** |
| **Respiratory rate** >20/min or PaCO2 <32 mmHg | **Respiratory rate**≥ 22/min |
| **White blood cell count**>12 Gpt/L; <4 Gpt/L; >10% immature (band) forms |  |  |
| **Severe sepsis** **organ dysfunction** | **Hypoxemia**PaO2 < 75 mmHg) or PaO2/FiO2 < 33 kPa (250 mmHg) | **Sepsis****SOFA score** | **Respiration PaO2/FiO2**< 400 mmHg< 300 mmHg< 200 mmHg1< 100 mmHg1 |
| **Central nervous system**altered mental status | **Central nervous system (GCS2)**14-1312-109-65-3 |
| **Renal**urine output < 0,5 ml per kg body weight per hour for at least 2h or a doubling of the serum creatinine | **Renal** Creatinine mg/dL (mmol/L) or urine output1.2-1.9 (110-170)2.0-3.4 (171-299)3.5-4.9 (300-440) or <500ml/day≥5.0 (>440) or <200ml/day |
|  | **Liver** Bilirubin mg/dL (mmol/L)1.2-1.9 (20-32)2.0-5.9 (33-101)6.0-11.9 (102-204)>12 (>204) |
| **Hematologic**relative (30%/24h) or absolute thrombocytopenia (≤100.000/mm3) | **Coagulation** platelets x103/mm3<150<100<50<20 |
| **Metabolic acidosis** base excess ≤ -5 mmol/l or lactate > 1,5× higher than the local reference range  | **Cardiovascular Hypotension**Mean arterial pressure <70 mmHgDobutamine (any dose)Norepinephrine < 0.1 µg/kg/minNorepinephrine > 0.1 µg/kg/min |
| **Septic shock** | Severe Sepsis and sepsis induced hypotension despite adequate fluid resuscitation and a systolic blood pressure ≤90 mmHg or a mean arterial blood pressure ≤65 mmHg for at least 1 hour or a vasopressor therapy to achieve a systolic blood pressure ≥90 mmHg or a mean arterial blood pressure of 65 mmHg. | **Septic shock** | Sepsis and vasopressor therapy needed to elevate MAP ≥65 mmHg and lactate > 2 mmol/L (18 mg/dl) despite adequate fluid resuscitation |

1 with respiratory support; 2 Glasgow coma scale; qSOFA – quick Sequential Organ Failure Assessment; SOFA –Sequential Organ Failure Assessment; Adapted from *Bone et al. Definitions for sepsis and organ failure and guidelines for the use of innovative therapies in sepsis: The ACCP/SCCM Consensus Conference Committee. Chest. 1992;101(6):1644-1655* and *Singer et al. The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3). JAMA. 2016;315(8):801-810*.