

Table S1. Baseline and clinical characteristics of the study population represented by variables which in intergroup comparisons were tested non-significant*.

All (N=99)		Groups by sepsis-1/2 definition			Groups by sepsis-3 definition			Groups by survival					
		G ₁₂ 1 (N=67)		G ₁₂ 2 (N=26)	G ₃ 1 (N=39)		G ₃ 2 (N=27)	Survivor, S (N=75)		Non-Survivor, NS (N=24)			
n		n	n	G ₁₂ 1 vs G ₁₂ 2	n	n	G ₃ 1 vs G ₃ 2	n	n	S vs NS			
Admitting Department													
Surgery	39 (39)	22 (33)	14 (54)	ns	13 (33)	13 (48)	ns	27 (36)	12 (50)	ns			
Orthopedics and trauma center	27 (27)	16 (24)	10 (39)	ns	8 (21)	11 (41)	ns	23 (31)	4 (17)	ns			
Neurosurgery	24 (24)	18 (27)	4 (15)		15 (39)	5 (19)	ns	17 (23)	7 (29)	ns			
Otorhino-laryngology	9 (9)	8 (12)	1 (4)		4 (10)	1 (4)	ns	8 (11)	1 (4)				
Others	10 (10)	7 (10)	3 (12)		3 (8)	1 (4)	ns	8 (11)	2 (8)				
Chronic conditions													
Diabetes	18 (18)	14 (21)	3 (12)	ns	9 (23)	2 (7)	ns	15 (20)	3 (13)	ns			
Cardiovascular diseases	43 (43)	26 (39)	13 (50)	ns	17 (44)	10 (37)	ns	29 (39)	14 (58)	ns			
Respiratory diseases	5 (5)	2 (3)	2 (8)			1 (4)	ns	2 (3)	3 (13)				
Alcoholism	6 (6)	5 (8)	1 (4)		3 (8)	2 (7)	ns	6 (8)					
Charlson Comorbidity Index	99 1 (1-3)	67 1 (1-3)	1 (1-3)	ns	39 1 (1-3)	27 1 (0-3)	ns	1 (1-3)	1 (1-4)	ns			
BGA and electrolytes													
PO2 [mmHg]	98 89 (77-103)	66 91 (78-104)	26 81 (78-96)	ns	38 92 (84-106)	27 88 (78-110)	ns	74 90 (78-103)	24 81 (73-108)	ns			

PCO2 [mmHg]	98	43 (39-47)	66	43 (39-48)	26	42 (39-47)	ns	38	45 (39-48)	27	44 (42-51)	ns	74	43 (39-47)	24	42 (36-48)	ns
ScvO2 [%]	73	75 (71-78)	43	75 (71-79)	24	73 (68-77)	ns	27	75 (71-78)	22	74 (71-79)	ns	52	75 (70-78)	21	74 (71-77)	ns
pH	98	7.42 (7.37-7.45)	66	7.42 (7.38-7.45)	26	7.40 (7.35-7.45)	ns	38	7.42 (7.40-7.45)	27	7.39 (7.36-7.42)	ns	74	7.42 (7.38-7.45)	24	7.41 (7.35-7.45)	ns
HCO3-stand [mmol/L]	98	27.5 (25.3-29.7)	66	27.9 (26.1-29.5)	26	27.2 (24.1-30.1)	ns	38	27.5 (26.5-29.9)	27	28.0 (25.4-29.8)	ns	74	28.0 (25.7-29.7)	24	26.4 (22.1-29.3)	ns
BEstand [mmol/L]	98	3.3 (1.1-5.4)	66	3.5 (2.0-5.4)	26	2.5 (-0.4-5.1)	ns	38	3.3 (2.2-5.5)	27	3.4 (1.1-4.8)	ns	74	3.8 (1.8-5.4)	24	2.2 (-2.2-5.0)	ns
Na+ [mmol/L]	98	141 (137-143)	66	141 (137-143)	26	141 (137-145)	ns	38	141 (138-143)	27	141 (137-143)	ns	74	141 (137-142)	24	143 (138-145)	ns
Cl- [mmol/L]	98	107 (105-110)	66	107 (105-109)	26	109 (106-111)	ns	38	107 (105-109)	27	109 (106-111)	ns	74	107 (105-109)	24	109 (105-111)	ns
ionized Ca++ [mmol/L]	98	1.12 (1.07-1.16)	66	1.12 (1.09-1.17)	26	1.10 (1.05-1.13)	ns	38	1.13 (1.10-1.19)	27	1.10 (1.07-1.15)	ns	74	1.12 (1.08-1.16)	24	1.10 (1.07-1.21)	ns
SIDa [mmol/L]	97	38.3 (35.1-40.0)	66	38.4 (35.7-40.1)	26	37.3 (33.9-39.5)	ns	38	38.4 (35.6-40.1)	27	37.2 (33.9-39.2)	ns	74	37.7 (35.1-39.9)	23	39.0 (34.5-40.0)	ns
Clinical chemistry																	
Glucose [mg/dL]	98	127 (110-167)	66	128.5 (114-170)	26	121 (106-158)	ns	38	133 (114-175)	27	129 (110-158)	ns	74	127.5 (111-167)	24	125 (107-163)	ns
Bilirubin [mg/dL]	93	0.61 (0.35-0.94)	62	0.49 (0.32-0.85)	25	0.81 (0.44-1.19)	ns	37	0.66 (0.32-0.93)	26	0.68 (0.45-0.97)	ns	71	0.61 (0.34-0.97)	22	0.63 (0.41-0.94)	ns
AST [U/L]	90	43 (27-90)	60	42 (26-79.5)	25	65 (31-111)	ns	35	42 (30-101)	26	72.5 (31-143)	ns	69	42 (29-93)	21	48 (26-78)	ns
ALT [U/L]	92	37 (20-85)	61	36 (19-64)	25	44 (21-106)	ns	36	36 (19.5-89)	26	41 (21-117)	ns	70	39 (20-88)	22	28 (20-82)	ns
Lipase [U/L]	90	86 (61-207)	59	87 (56-200)	25	82 (61-163)	ns	36	104 (64-224)	25	76 (51-154)	ns	69	87 (61-193)	21	82 (61-357)	ns
PCT [µg/L]	69	0.63 (0.20-2.29)	40	0.40 (0.19-1.55)	23	0.99 (0.22-2.38)	ns	23	0.39 (0.19-1.24)	19	0.98 (0.19-1.67)	ns	52	0.59 (0.19-2.13)	17	0.90 (0.32-2.29)	ns
Clinical scores at baseline																	
Hb [g/dL]	98	8.9 (8.1-10.1)	66	8.8 (8.1-10)	26	8.9 (8.1-10)	ns	38	8.6 (8.1-9.2)	27	8.9 (7.9-10)	ns	74	8.9 (7.9-10.1)	24	8.9 (8.4-9.7)	ns
WBC [10E9/L]	96	11.5 (8.3-14.3)	64	11.1 (8.9-13.6)	26	11.4 (6.7-15.4)	ns	38	11.9 (9.1-14.1)	27	10.6 (6.7-13.0)	ns	72	11.9 (9.0-14.3)	24	10.4 (5.9-14.3)	ns
INR	96	1.07 (1.00-1.12)	64	1.06 (1.00-1.12)	26	1.07 (1.00-1.12)	ns	38	1.07 (1.01-1.11)	27	1.02 (0.99-1.12)	ns	72	1.06 (1.00-1.11)	24	1.10 (1.00-1.19)	ns
Thrombocytes [10E9/L]	96	162 (106-250)	64	157 (110-232)	26	175 (105-252)	ns	38	139 (95-201)	27	142 (104-213)	ns	72	166 (114-256)	24	137 (95-245)	ns
Basophils [%]	72	0.2 (0.1-0.3)	49	0.2 (0.1-0.2)	17	0.2 (0.1-0.3)	ns	31	0.2 (0.1-0.2)	20	0.2 (0.1-0.3)	ns	55	0.2 (0.1-0.3)	17	0.2 (0.1-0.3)	ns
Eosinophils [%]	72	0.3 (0.1-0.9)	49	0.3 (0.1-0.8)	17	0.5 (0.0-1.4)	ns	31	0.1 (0.0-0.6)	20	0.5 (0.1-1.2)	ns	55	0.3 (0.1-1.0)	17	0.2 (0.0-0.6)	ns

Neutrophils [%]	72	82.9 (77.9-87.4)	49	83.7 (77.9-87.7)	17	82.7 (78.0-85.8)	ns	31	83.8 (75.9-87.2)	20	81.1 (76.0-83.8)	ns	55	83.0 (77.8-87.5)	17	82.7 (79.9-86.2)	ns
Lymphocytes [%]	72	7.9 (5.4-11.5)	49	7.4 (5.5-11.9)	17	9 (6.3-10.9)	ns	31	9.2 (6.0-12.4)	20	9.8 (6.8-13.6)	ns	55	9.0 (5.5-11.6)	17	7.6 (4.7-11.4)	ns
Monocytes [%]	72	7.3 (5.8-10.1)	49	7.2 (5.2-10.5)	17	7.5 (6.5-9.4)	ns	31	7.0 (5.2-11.4)	20	7.6 (6.3-9.9)	ns	55	7.2 (5.7-10.1)	17	7.3 (6.5-10.0)	ns
Vital signs																	
Heart rate [1/min]	98	90 (75-101)	66	86 (74-99)	26	93 (79-110)	ns	38	88 (77-97)	27	99 (75-113)	ns	74	90 (77-99)	24	83 (70-108)	ns
Syst BP [mmHg]	98	123 (109-134)	66	124 (111-138)	26	119 (107-131)	ns	38	124 (109-140)	27	116 (106-129)	ns	74	124 (113-135)	24	119 (106-132)	ns
Diast BP [mmHg]	98	59 (53-68)	66	61 (53-68)	26	57 (54-66)	ns	38	61 (52-68)	27	60 (56-71)	ns	74	60 (53-68)	24	57 (51-66)	ns
MAP [mmHg]	98	80 (72-90)	66	82 (75-93)	26	77 (73-87)	ns	38	82 (75-95)	27	81 (71-90)	ns	74	82 (73-91)	24	76 (68-86)	ns
Supportive Therapy																	
Mechanical ventilation		86 (87)		57 (85)		23 (89)	ns		34 (87)		26 (96)	ns		64 (85)		22 (92)	ns
FiO2	92	0.30 (0.30-0.40)	61	0.30 (0.30-0.35)	25	0.35 (0.30-0.40)	ns	37	0.30 (0.30-0.35)	27	0.30 (0.30-0.40)	ns	69	0.30 (0.30-0.35)	23	0.35 (0.30-0.5)	ns
Volume balance [ml]	98	15 (-64-79)	66	14 (-78-73)	26	19 (-47-82)	ns	38	20 (-64-86)	27	11 (-25-64)	ns	74	14 (-64-82)	24	18 (-82-70)	ns
Clinical Scores																	
RASS**	97	-3 (-5-0)	65	-3 (-5-0)	26	-4 (-5-0)	ns	38	-3 (-5-0)	27	-4 (-5--3)	ns	74	-3 (-5--1)	23	-1 (-5-0)	ns
TISS	98	18 (10-22)	66	15 (10-22)	26	18 (13-23)	ns	38	18 (10-22)	27	22 (15-23)	ns	74	18 (10-22)	24	22 (11.5-25)	ns

*Sepsis-1/2 defined patient groups G₁₂1 and G₁₂2 designate patients without and with progression from SIRS or sepsis to severe sepsis or septic shock (development of septic organ dysfunction). Sepsis-3 defined groups G₃1 and G₃2 designate patients who remain sepsis free or progress to sepsis (development of septic organ dysfunction). Results displayed as median (interquartile range, IQR) or number (%); ** °-mode for RASS calculation; Abbreviations: N=number of patients included; n=number of determinations for respective variable; ns=not significant; PO₂=partial pressure of oxygen; PCO₂=partial pressure of carbon dioxide; ScvO₂=central venous oxygen saturation; HCO₃-stand=standard bicarbonate; BEstand=standard base excess; Na+=sodium; Cl-=chloride; Ca++=calcium; SIDa=strong ion difference apparent; AST=aspartate aminotransaminase; ALT=alanine aminotransaminase; PCT=procalcitonin; Hb=hemoglobin; WBC=white blood cell count; INR=international normalized ratio; Syst=systolic; BP=blood pressure; Diast=diastolic; MAP=mean arterial pressure; FiO₂=fraction of inspired oxygen; RASS=Richmond agitation sedation scale; TISS=therapeutic intervention score scale.