

**Appendix – This appendix was part of the submitted manuscript and has been peer reviewed. It is posted as supplied by the authors**

**Table S1: Demographic data for the subgroup of patients receiving combined FBT.**

		Both Groups	Patients admitted to ward n=31	Patients admitted to ICU n=17	p-value Admitted to ward vs ICU
<b>Sex</b>	Male	29 (60)	19 (61)	10 (59)	n.s.
<b>Age (yr) Median (IQR)</b>		68 (52-79)	62 (52-81)	73 (62-78)	n.s.
<b>Alive at 28 days</b>		36 (73)	25 (81)	11 (65)	n.s.
<b>Diagnoses at discharge</b>	Sepsis with no focus	38 (79)	23 (74)	15 (88)	n.s.
	Pneumonia	6 (12)	6 (18)	0 (0)	n.s.
	Abdominal sepsis	1 (2)	1 (3)	0 (0)	n.s.
	Urosepsis	4 (8)	2 (6)	2 (17)	n.s.
<b>Co-morbidities</b>					
	<i>Congestive heart failure</i>	6 (13)	5 (16)	1 (6)	n.s.
	<i>Coronary artery disease</i>	10 (21)	6 (19)	4 (24)	n.s.
	<i>Chronic obstructive pulmonary disease</i>	8 (17)	4 (13)	4 (24)	n.s.
	<i>Diabetes mellitus</i>	8 (17)	7 (23)	1 (6)	n.s.
	<i>HIV</i>	0	0 (0)	0 (0)	n.s.
	<i>Hypertension</i>	12 (25)	9 (29)	3 (18)	n.s.
	<i>Cirrhosis</i>	1 (2)	0 (0)	1 (6)	n.s.
	<i>History of cancer</i>	8 (17)	6 (19)	2 (12)	n.s.
	<i>Neurologic disease</i>	9 (19)	8 (26)	1 (6)	n.s.
	<i>Chronic renal failure</i>	17 (35)	8 (26)	9 (53)	n.s.
	<i>History of smoking</i>	21 (44)	15 (48)	5 (29)	n.s.
<b>Sepsis details</b>					
	<i>Pneumonia</i>	21 (44)	16 (52)	5 (29)	n.s.
	<i>Urosepsis</i>	5 (10)	3 (10)	2 (12)	n.s.
	<i>Peritonitis</i>	1 (2)	0 (0)	1 (6)	n.s.
	<i>Intra-abdominal process</i>	8 (17)	1 (3)	7 (41)	p=0.0007
	<i>Abscess of arm or leg</i>	1 (2)	1 (3)	0 (0)	n.s.
	<i>Other infection</i>	14 (29)	11 (35)	3 (18)	n.s.
	<i>Severe sepsis</i>	22 (46)	20 (65)	2 (12)	p=0.0004
	<i>Septic shock</i>	26 (54)	11 (35)	15 (88)	p=0.0004
	<i>Positive blood culture</i>	5 (10)	2 (6)	3 (18)	n.s.
	<i>Antibiotics within 6 hours</i>	41 (85)	25 (80)	15 (88)	n.s.

Data presented as absolute value (% of the whole cohort) unless stated otherwise. yr: years, IQR: interquartile range, ED: emergency department, ICU: intensive care unit.

**Table S2: Total fluid administration for patients receiving secondary resuscitation admitted to the wards vs. those admitted to ICU**

Time interval after arrival to the ED		Patients admitted to the ward	Patients admitted to the ICU
0-6 hours	Total amount of fluids given (ml)	1210 (1000-2000)	2250 (1600-2950)*
	Amount of fluids given as bolus	1000 (250-1500)	2000 (1000-2620)**
	Ratio of FBT fluid to total amount of fluid given at 0-6 hours	89 (56-100)	89 (63-97)
6-12 hours	Total amount of fluids given (ml)	1750 (1000-2230)	900 (700-1350)
	Amount of fluids given as bolus	500 (0-1500)	430 (0-1000)
	Ratio of FBT fluid to total amount of fluid given at 6-12 hours	49 (0-84)	40 (0-81)
12-18 hours	Total amount of fluids given (ml)	850 (470-2000)	730 (310-1100)
	Amount of fluids given as bolus	0 (0-0)	0 (0-250)*
	Ratio of FBT fluid to total amount of fluid given at 12-18 hours	0 (0-0)	0 (0-26)*
18-24 hours	Total amount of fluids given (ml)	500 (230-2600)	500 (200-860)
	Amount of fluids given as bolus	0 (0-0)	0 (0-0)
	Ratio of FBT fluid to total amount of fluid given at 18-24 hours	0 (0-14)	0 (0-14)
6-24 hours	Total amount of fluid given (ml)	3240 (2300-5570)	2530 (1360-3210)
	Amount of fluids given as bolus	830 (250-2000)	1250 (500-1800)
	Ratio of FBT fluid to total amount of fluid given at 6-24 hours	33 (11-57)	43 (29-57)
0-24 hours	Total amount of fluid given (ml)	4720 (4000-7200)	5050 (3900-5550)
	Amount of fluids given as bolus	2000 (1000-3000)	3250 (2250-4000)**
	Ratio of FBT fluid to total amount of fluid given at 0-24 hours	51 (18-69)	64 (58-76)*
	Ratio of total 0-6/6-24 hours fluid amount	0.50 (0.22-0.84)	1.04 (0.62-1.69)**

\* p<0.05, \*\*p<0.01, \*\*\*p<0.001 Difference between patients admitted to the ward vs ICU. Values expressed as medians (IQR).

**Table S3a: Change in physiologic variables during the first 24 hours by 6 hour intervals, for patients receiving primary only vs primary and secondary fluid bolus resuscitation\***

	Admission		6-12 hours		12-18 hours		18-24 hours		Change over time	
	Primary only	Primary & Secondary	Primary only	Primary & secondary	Primary only	Primary & secondary	Primary only	Primary & secondary	Primary only	Primary & secondary
Temp. (°C)	37.4 (35.8-38.2)	37.7 (36.9-38.4)	36.5 (36.2-37.2)	36.5 (36.9-37.1)	36.5 (36.1-37.2)	36.0 (36.0-37.5)	36.6 (36.2-37.2)	36.5 (36.0-37.4)	n.s.	p = 0.009
HR (beats/min)	107 (88-122)	102 (88-126)	86 (80-96) 106 (100-119)	85 (72-95)	85 (80-95) 110 (100-120)	80 (75-98)	83 (75-94) 110 (103-123)	85 (74-100) 110 (100-120)	p = 0.0008	p = 0.001
SBP (mm Hg)	100 (89-111)	101 (90-120)	119	105 (98-118)	120	105 (95-115)	123	120	p = 0.0016	n.s.
DBP	60 (51-70)	66 (58-71)	60 (53-68)	60 (50-65)	61 (55-68)	60 (54-64)	65 (53-72)	60 (50-65)	n.s.	n.s.
RR	20 (16-28)	18 (16-24)	20 (18-20)	18 (18-22)	20 (18-22)	18 (17-20)	20 (16-22)	18 (15-20)	n.s.	p = 0.0142
SaO <sub>2</sub> (%)	97 (94-99)	98 (94-99)	96 (94-98)	98 (96-99)*	96 (96-99)	98 (95-99)	96 (95-98)	97 (95-99)	n.s.	n.s.

Tem=temperature; HR=heart rate; SBP=systolic blood pressure; DBP=diastolic blood pressure; RR=respiratory rate; SaO<sub>2</sub>=arterial oxygen saturation; \* p<0.05. Difference between fluid bolus during primary only vs primary and secondary resuscitation. Values expressed as medians (IQR).

**Table S3b: Physiologic data during the first 24 hours in 6 hour intervals, for patients admitted to the ward vs. ICU**

	Admission		6-12 hours		12-18 hours		18-24 hours	
	Ward patients	ICU patients	Ward patients	ICU patients	Ward patients	ICU patients	Ward patients	ICU patients
Temp (°C)	37.8 (36.3-38.3)	37.4 (36.0-38.5)	36.5 (36.1-37.1)	36.6 (36.2-37.3)	36.5 (36.0-37.3)	37.7 (36.2-37.3)	36.5 (36.0-37.3)	36.8 (36.2-37.3)
HR (beats/min)	111 (93-124)	98 (84-128)	85 (79-97)	90 (79-95)	82 (76-97)	90 (78-95)	84 (75-95)	83 (74-102)
SBP (mm Hg)	103 (94-119)	93 (87-112)	107 (99-120)	105 (98-114)	107 (96-118)	110 (100-115)	110 (102-120)	110 (102-128)
DBP (mm Hg)	66 (56-71)	60 (51-70)	60 (50-67)	55 (55-62)	60 (55-65)	55 (50-60)*	60 (53-70)	60 (50-66)
RR (breaths/min)	20 (17-26)	18 (16-21)	20 (18-22)	18 (17-22)	18 (17-22)	19 (18-22)	18 (16-22)	18 (15-25)
SaO <sub>2</sub> (%)	97 (94-99)	98 (96-100)	96 (95-98)	99 (97-100)***	97 (94-98)	100 (98-100)***	96 (95-98)	98 (97-100)*
FiO <sub>2</sub>	0.21 (0.21-0.36)	0.21 (0.21-0.28)	0.24 (0.21-0.28)	0.32 (0.28-0.48)***	0.21 (0.21-0.32)	0.32 (0.28-0.42)***	0.24 (0.21-0.31)	0.28 (0.25-0.40)*

Temp=temperature; HR=heart rate; SBP=systolic blood pressure; DBP=diastolic blood pressure; RR=respiratory rate; SaO<sub>2</sub>=arterial oxygen saturation; \* p<0.05, \*\*p<0.01, \*\*\*p<0.001 Difference between patients admitted to the ward vs ICU. Data presented as medians (IQR).