

Supplemental Table 2. Bivariable analyses – Non-parametric Spearman correlation

Characteristics	All Trauma Patients		No Major Head Injury ^a		Major Head Injury ^a	
	ρ (n) ^b	p-value	ρ (n) ^b	p-value	ρ (n) ^b	p-value
Admission TCC (AU/mL)	n=133		n=75		n=58	
	0.14 (132)	0.11	0.17 (74)	0.16	0.07	0.62
Age (years)						
Admission BE (mmol/L)	-0.21 (124)	0.02	-0.13 (68)	0.31	-0.28 (56)	0.04
NISS	0.31	0.0003	0.18	0.12	0.31	0.02
TCC-AUC₃₋₆ (AU/mL×h)	n=118		n=65		n=53	
Age (years)	0.07 (117)	0.46	0.07 (64)	0.59	0.06	0.67
Admission BE (mmol/L)	-0.30 (110)	0.001	-0.17 (59)	0.21	-0.42 (51)	0.002
NISS	0.21	0.02	0.13	0.31	0.23	0.10
Admission TCC (AU/mL)	0.72	<0.0001	0.67	<0.0001	0.80	<0.0001
Ventilator Free Days	n=133		n=75		n=58	
Age (years)	-0.14 (132)	0.12	-0.05 (74)	0.65	-0.05	0.72
Admission BE (mmol/L)	0.44 (124)	<0.0001	0.39 (68)	0.001	0.46 (56)	0.0003
NISS	-0.75	<0.0001	-0.43	0.0001	-0.72	<0.0001
Admission TCC (AU/mL)	-0.28	0.001	-0.12	0.29	-0.29	0.03
TCC-AUC ₃₋₆ (AU/mL×h)	-0.28 (118)	0.002	-0.35 (65)	0.005	-0.20 (53)	0.15
SOFA score Day 0	n=130		n=72		n=58	
Age (years)	0.13 (129)	0.13	0.19 (71)	0.11	-0.09	0.51
Admission BE (mmol/L)	-0.47 (121)	<0.0001	-0.40 (65)	0.0009	-0.56 (56)	<0.0001
NISS	0.70	<0.0001	0.49	<0.0001	0.59	<0.0001
Admission TCC (AU/mL)	0.27	0.002	0.15	0.21	0.33	0.01
TCC-AUC ₃₋₆ (AU/mL×h)	0.34 (118)	0.0002	0.27 (63)	0.03	0.43 (53)	0.001
Daily TCC Day 0 (AU/mL)	0.35	<0.0001	0.32	0.007	0.34	0.008
SOFA score Day 4	n=37		n=11		n=26	
Age (years)	0.11	0.54	-0.24	0.48	0.04	0.86
Admission BE (mmol/L)	-0.30 (35)	0.08	-0.34 (10)	0.34	-0.17 (25)	0.43
NISS	0.64	<0.0001	0.63	0.04	0.51	0.008
Admission TCC (AU/mL)	0.44	0.007	0.63	0.04	0.37	0.06
TCC-AUC ₃₋₆ (AU/mL×h)	0.44	0.006	0.69	0.02	0.23	0.26
Daily TCC Day 4 (AU/mL)	0.35 (34)	0.04	0.48	0.14	0.27 (23)	0.21
SOFA score Day 7	n=24		n=6		n=18	
Age (years)	-0.03	0.89	-0.09	0.87	-0.25	0.32
Admission BE (mmol/L)	-0.15 (23)	0.50	-0.56 (5)	0.32	0.005 (18)	0.98
NISS	0.30	0.16	0.75	0.08	0.20	0.43
Admission TCC (AU/mL)	0.16	0.47	0.55	0.26	-0.02	0.95
TCC-AUC ₃₋₆ (AU/mL×h)	0.11	0.62	0.75	0.08	-0.31	0.21
Daily TCC Day 7 (AU/mL)	0.28	0.19	0.73	0.10	0.02	0.93
SOFA score Day 9	n=18		n=4		n=14	
Age (years)	-0.03	0.90	0.80	0.20	-0.31	0.28
Admission BE (mmol/L)	-0.09 (17)	0.73	0.50 (3)	0.67	-0.15 (14)	0.61
NISS	0.22	0.38	0.40	0.60	0.30	0.30
Admission TCC (AU/mL)	0.10	0.71	Too few data		-0.002	0.99
TCC-AUC ₃₋₆ (AU/mL×h)	-0.08	0.75	0.40	0.60	-0.37	0.19
Daily TCC Day 9 (AU/mL)	0.17	0.50	Too few data		-0.02	0.93

^a Major head injury was defined as maximum Abbreviated Injury Scale (AIS) severity code ≥ 3 in ISS region Head or neck.

^b n is given where group size is less than given in each category heading.

ρ represent Spearman's rho and p-values represent two-tailed probability. Abbreviations: AU = Arbitrary units. SOFA score = Sequential Organ Failure Assessment score. BE = Base Excess. NISS = New Injury Severity Score.