

Supplemental Table 4. Univariate regressions and multivariable linear regression models for SOFA scores

SOFA Score	All Trauma Patients						No Major Head Injury ^a						Major Head Injury ^a					
Explanatory variable	Univariate regressions		Multivariable linear regression model				Univariate regressions		Multivariable linear regression model				Univariate regressions		Multivariable linear regression model			
	Est (95% CI)	<i>p</i> / <i>R</i> ²	Est (95% CI)	V.I. (<i>n</i>) ^b	<i>p</i> / <i>R</i> ²		Est (95% CI)	<i>p</i> / <i>R</i> ²	Est (95% CI)	V.I. (<i>n</i>) ^b	<i>p</i> / <i>R</i> ²		Est (95% CI)	<i>p</i> / <i>R</i> ²	Est (95% CI)	V.I. (<i>n</i>) ^b	<i>p</i> / <i>R</i> ²	
Day 0			<i>n</i> =130				<i>n</i> =72						<i>n</i> =58					
Sex (M : F)	-0.38 (-1.22 – 0.45)	.36/.006					-0.62 (-1.55 – 0.31)	.19/.02					-0.12 (-1.21 – 0.97)	.83/.001				
Age	0.04 (-0.002 – 0.08)	.06/.03		(129)			0.06 (0.01 – 0.12)	.03/.07		(71)			-0.01 (-0.06 – 0.03)	.57/.01				
MOI (B : P)	0.22 (-0.87 – 1.30)	.70/.001					-0.06 (-1.21 – 1.10)	.92/.0001					0.01 (-1.55 – 1.58)	.99/.5×10 ⁻⁶				
NISS	0.15 (0.12 – 1.18)	<.0001/.50	0.14 (0.11–0.16)	.730	<.0001		0.13 (0.08 – 0.18)	<.0001/.26	0.08 (0.03– 0.14)	.424	.004		0.13 (0.08 – 0.18)	.0001/.34	0.11 (0.06 –0.16)	.672	<.0001	
Adm. BE	-0.41 (-0.54 – -0.27)	<.0001/.23		(110)			-0.33 (-0.48 – -0.18)	<.0001/.23		(65)			-0.43 (-0.60 – -0.27)	.0001/.34		(56)		
Adm. TCC	0.90 (0.58 – 1.22)	<.0001/.19					0.86 (0.35 – 1.38)	.001/.14					0.67 (0.34 – 1.01)	.0002/.23				
TCC-AUC ₃₋₆	0.35 (0.22 – 0.47)	<.0001/.21	0.22 (0.13–0.31)	.270	<.0001		0.42 (0.26 – 0.57)	<.0001/.33	0.32 (0.16– 0.48)	.576	.0002		0.25 (0.11 – 0.39)	.0009/.20				
Daily TCC (0)	1.24 (0.79 – 1.69)	<.0001/.19					1.13 (0.57 – 1.69)	.0001/.19					0.96 (0.42 – 1.50)	.0007/.19	0.67 (0.20 –1.15)	.328 (53)	.006	
Total model				(116)	<.0001 / .60					(63)	<.0001 / .41					(58)	<.0001 / .42	
Day 4			<i>n</i> =37				<i>n</i> =11						<i>n</i> =26					
Sex (M : F)	-1.21 (-2.59 – 0.18)	.09/.08					-1.86 (-6.69 – 2.96)	.41/.08					-0.75 (-1.92 – 0.41)	.19/./07				
Age	0.03 (-0.04 – 0.10)	.38/.02		(35)			0.01 (-0.34 – 0.36)	.93/.0009		(10)			0.01 (-0.04 – 0.07)	.61/./01		(25)		
MOI (B : P)	0.26 (-2.66 – 3.18)	.86/.0009					–						0.73 (-1.41 – 2.87)	.49/.02				
NISS	0.17 (0.10 – 0.24)	<.0001/.41	0.15 (0.09–0.21)	.740	<.0001		0.37 (0.20 – 0.55)	.001/.72	0.18 (0.02 – 0.35)	0.526	.03		0.10 (0.03 – 0.16)	.005/.29				
Adm. BE	-0.38 (-0.67 – -0.10)	.009/.19					-0.96 (-1.88 – -0.34)	.04/.42					-0.25 (-0.46 – -0.03)	.03/.19				
Adm. TCC	0.87 (0.39 – 1.36)	.0008/.28					1.46 (-0.05 – 2.97)	.06/.35					0.65 (0.26 – 1.04)	.002/.33	0.65 (0.26 – 1.04)		.002	
TCC-AUC ₃₋₆	0.28 (0.11 – 0.44)	.002/.25	0.23 (0.10–0.36)	.260	.0008		0.68 (0.43 – 0.92)	.0001/.81	0.46 (0.18– 0.74)	0.474	.005		0.14 (-0.02 – 0.29)	.08/.13				
Daily TCC (4)	1.35 (0.24 – 2.46)	.02/.16		(34)			2.27 (-0.33 – 4.87)	.08/.30					0.71 (-0.29 – 1.70)	.15/.09		(23)		
Total model				(37)	<.0001 / .58					(11)	.0001 / 0.90					(26)	.002 / .33	
Day 7			<i>n</i> =24				<i>n</i> =6						<i>n</i> =18					
Sex (M : F)	-0.7 (-2.08 – 0.68)	.31/.05					-2 (-10.26 – 6.26)	.54/.10					-0.61 (-1.81 – 0.58)	.29/.07				
Age	-0.01 (-0.08 – 0.06)	.77/.004					0.09 (-0.43 – 0.60)	.66/.05					-0.02 (-0.08 – 0.04)	.48/.03				
MOI (B : P)	1.16 (-1.27 – 3.59)	.33/.04					–						1.09 (-0.78 – 2.96)	.23/.09				
NISS	0.08 (-0.01 – 0.18)	.08/.13					0.28 (-0.03 – 0.59)	.06/.62					0.03 (-0.06 – 0.13)	.45/.04				
Adm. BE	-0.18 (-0.47 – 0.11)	.21/.08		(23)			-0.79 (-2.67 – 1.09)	.28/.37		(5)			-0.08 (-0.32 – 0.16)	.50/.03		(18)		
Adm. TCC	0.25 (-0.24 – 0.74)	.31/.05					0.69 (-1.64 – 3.03)	.46/.15					0.12 (-0.32 – 0.56)	.57/.02				
TCC-AUC ₃₋₆	0.08 (-0.09 – 0.25)	.34/0.4					0.41 (-0.20 – 1.02)	.14/.46					-0.03 (-0.19 – 0.12)	.67/.01				
Daily TCC (7)	0.82 (-0.21 – 1.86)	.11/.11					2.15 (-1.15 – 5.44)	.15/.45					0.07 (-1.01 – 1.14)	.90/.001				
Total model			NF						NF						NF			
Day 9			<i>n</i> =18				<i>n</i> =4						<i>n</i> =14					
Sex (M : F)	-0.20 (-2.37 – 1.98)	.85/.002					–						-0.86 (-2.64 – 0.93)	.32/.08				
Age ²	-0.03 (-0.14 – 0.08)	.59/.02					0.40 (-1.24 – 2.03)	.40/.35					-0.06 (-0.14 – 0.02)	.14/.17				
MOI (B : P)	1.31 (-1.99 – 4.61)	.41/.04					–						1 (-1.59 – 3.59)	.42/.06				
NISS	0.10 (-0.04 – 0.25)	.16/.12					0.41 (-1.05 – 1.88)	.35/.42					0.10 (-0.02 – 0.22)	.09/.23				
Adm. BE	-0.13 (-0.52 – 0.25)	.48/.03		(17)			-0.12 (-15.10–14.85)	.93/.01		(3)			-0.14 (-0.49 – 0.21)	.39/.06		(14)		
Adm. TCC	0.05 (-0.71 – 0.82)	.89/.001					7.43 (-10.2 – 25.1)	.21/.62					0.06 (-0.55 – 0.67)	.83/.004				
TCC-AUC ₃₋₆	-0.03 (-0.29 – 0.23)	.82/.004					0.22 (-2.55 – 3.00)	.76/.06					-0.07 (-0.28 – 0.14)	.48/.04				
Daily TCC (9)	-0.31 (-1.55 – 0.92)	.60/.02					7.20 (1.68 – 12.71)	.03/.94					-0.64 (-1.55 – 0.26)	.15/.17				
Total model			NF						NF						NF			

^a Major head injury was defined as maximum Abbreviated Injury Scale (AIS) severity code ≥3 in Injury Severity Score (ISS) region Head or neck.
^b *n* is given where group size is less than *n* given in heading.
Abbreviations: V.I. = Variable Importance. M : F = Male : Female. MOI = Mechanism of injury. B : P = Blunt : Penetrating. NISS = New Injury Severity Score. Adm. = Admission. BE = Base Excess. SOFA score = Sequential Organ Failure Assessment score.
NF = Not feasible. *p* values represent two-tailed probability.