

**Additional table 2** Relationship between surgical resource consumption, sex, age, vital signs and Red Cross Wound Score (RCWS)

Surgical resource consumption	Univariate analysis			Logistic regression analysis			
	Complete cases Total=834		P value	Complete cases Total=834		All cases <sup>a</sup> Total=1555 <sup>b</sup>	
	Low Total=472 n (%)	High <sup>c</sup> Total=362 n (%)		All confounders 1=High <sup>c</sup> Odds ratio (95% CI)	P value	All confounders 1=High <sup>c</sup> Odds ratio (95% CI)	P value
Sex			1.000				
Male	418	320 (88.4)		1		1	
Female	54 (11.4)	42 (11.6)		1.14 (0.68-1.90)	0.626	1.14 (0.79-1.63)	0.491
Age			0.710				
15-49 years	433	329 (90.9)		1		1	
>49	39 (8.3)	33 (9.1)		1.23 (0.70-2.17)	0.466	1.84 (1.26-2.70)	0.002
Time since injury			0.152				
0-6 hours	15 (3.2)	21 (5.8)		1		1	
7-24 hours	203	159 (43.9)		0.68 (0.30-1.54)	0.352	1.03 (0.52-2.06)	0.933
>24 hours	254	182 (50.3)		0.66 (0.29-1.52)	0.327	0.97 (0.49-1.95)	0.938
Systolic blood pressure			0.004				
>89 mmHg	464	341 (94.2)		1		1	
76-89	5 (1.1)	10 (2.8)		1.16 (0.33-4.11)	0.931	1.52 (0.61-3.75)	0.362
0-75	3 (0.6)	11 (3.0)		1.65 (0.44-6.20)	0.821	1.23 (0.51-2.97)	0.640
Respiratory rate			0.446				
10-29/min	458	347 (95.9)		1		1	
≤9	-	-		-	-	-	-
≥30	14 (3.0)	15 (4.1)		0.88 (0.37-2.09)	0.772	0.72 (0.42-1.26)	0.222
Glasgow Coma Scale			0.077				
13-15	465	347 (95.8)		1		1	
9-12	4 (0.9)	10 (2.8)		1.09 (0.31-3.87)	0.896	1.01 (0.19-5.37)	0.811
6-8	2 (0.4)	4 (1.1)		1.60 (0.22-11.65)	0.644	0.85 (0.20-3.59)	0.825
≤5	1 (0.2)	1 (0.3)		0.84 (0.05-15.76)	0.906	0.90 (0.37-2.18)	0.985
RCWSgrade			<0.001				
1 (simple)	266	83 (22.9)		1		1	
2 (medium)	185	178 (49.2)		2.60 (1.81-3.74)	<0.001	2.51 (1.93-3.26)	<0.001
3 (large)	21 (4.4)	101 (27.9)		11.60 (6.61-20.36)	<0.001	10.76 (7.41-15.63)	<0.001
RCWS type			<0.001				
Soft tissue	220	67 (18.5)		1		1	
Fracture	164	180 (49.7)		2.39 (1.62-3.54)	<0.001	2.12 (1.60-2.82)	<0.001
Threatening life	59 (12.5)	45 (12.4)		2.16 (1.27-3.67)	0.005	1.92 (1.31-2.83)	0.001
Threatening life/limb	29 (6.1)	70 (19.4)		4.67 (2.61-8.34)	<0.001	3.05 (2.04-4.54)	<0.001
Additional severe injuries <sup>d</sup>			<0.001				
No	439	288 (79.6)		1		1	
Yes	33 (7.0)	74 (20.4)		2.90 (1.83-4.89)	<0.001	2.43 (1.72-3.44)	<0.001

<sup>a</sup>Using imputed data for incomplete cases; <sup>b</sup>9 patients with unknown surgical resource consumption excluded; <sup>c</sup>Defined as ≥3 surgical procedures under anesthesia or ≥3 blood transfusions or limb amputation; <sup>d</sup>Corresponding to Abbreviated Injury Score ≥2