BSDS Capstone

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Table 3. ED factors by patient outcome.

	Total (N = 401)	Alive at F/up (n = 151)	Dead (n = 250)	P-value
Time to Arrival at ED (Hours)				
Mean ± SD	11.25 ± 10.20	11.21 ± 10.72	11.32 ± 9.30	0.63
Median (IQR)	8.00 (4.44, 14.36)	7.85 (4.35, 13.40)	9.00 (4.52, 16.00)	
GCS Total Score				
Mean ± SD	5.62 ± 1.72	5.24 ± 1.73	6.25 ± 1.53	<0.001
Median (IQR)	6.00 (4.00, 7.00)	5.00 (3.25, 7.00)	7.00 (5.00, 7.00)	
GCS Total Score - n(%)				
3-5	171 (43)	131 (52)	40 (27)	<0.001
6-8	229 (57)	119 (48)	110 (73)	
GCS Motor Score				
Mean ± SD	3.06 ± 1.42	2.75 ± 1.40	3.57 ± 1.31	<0.001
Median (IQR)	3.00 (2.00, 4.00)	3.00 (1.00, 4.00)	4.00 (3.00, 5.00)	
Advanced Airway Management - n(%)				
ETI	183 (46)	112 (45)	71 (47)	0.002
LMA	29 (7)	11 (4)	18 (12)	
Combitube	17 (4)	7 (3)	10 (7)	
None	171 (43)	120 (48)	51 (34)	
Lowest Recorded Oxygen Saturation (SaO2) %age				
Mean ± SD	93.94 ± 8.77	93.70 ± 9.07	94.36 ± 8.24	0.94
Median (IQR)	97.00 (93.00, 99.00)	97.00 (92.00, 99.75)	97.00 (93.25, 99.00)	
ED Hypoxia - n(%)				
Yes	67 (17)	44 (18)	23 (15)	0.56
No	333 (83)	206 (82)	127 (85)	
Lowest Recorded Systolic BP (mmHG)				
Mean ± SD	122.88 ± 24.69	123.18 ± 26.30	122.37 ± 21.82	0.79
Median (IQR)	124 (110.00, 140.00)	124 (109.00, 140.00)	123.00 (110.00, 139.00)	
ED Hypotension - n(%)				
Yes	38 (10)	27 (11)	11 (7)	0.25
No	357 (90)	220 (89)	137 (93)	
ED IV (Y/N) - n(%)				
Yes	364 (92)	228 (92)	136 (93)	0.89
No	32 (8)	21 (8)	11 (7)	
Abnormal Pupils in ED - n(%)				
Yes	0 (0)	0 (0)	0 (0)	0.43
No	0 (0)	0 (0)	0 (0)	

	Total (N = 401)	Alive at F/up (n = 151)	Dead (n = 250)	P-value
ED Bilateral Fixed & Dilated Pupils (Y/N) - n(%)				
Yes	56 (16)	41 (18)	15 (11)	0.084
No	298 (84)	182 (82)	116 (89)	
ED Pupil Asymmetry > 1mm - n(%)				
Yes	102 (29)	61 (28)	41 (31)	0.46
No	250 (71)	160 (72)	90 (69)	
CT Scan Performed (Y/N) - n(%)				
Yes	244 (61)	129 (52)	115 (77)	<0.001
No	156 (39)	121 (48)	35 (23)	
Time (Injury to CT Scan) (Hours)				
Mean ± SD	15.23 ± 14.67	14.08 ± 14.72	16.52 ± 14.57	0.044
Median (IQR)	11.00 (4.73, 20.78)	9.00 (4.18, 20.00)	12.25 (5.58, 23.29)	
Abnormal CT Scan (Y/N) - n(%)				
Yes	213 (87)	119 (92)	94 (82)	0.039
No	30 (12)	10 (8)	20 (17)	
Midline Shift on CT Scan - n(%)				
<= 0.5 cm	158 (66)	74 (58)	84 (74)	0.007
> 0.5 cm	83 (34)	54 (42)	29 (26)	
Basal Cistern Status on CT Scan - n(%)				
Open	44 (18)	16 (12)	28 (25)	<0.001
Partially Open	108 (44)	49 (38)	59 (52)	
Closed	91 (37)	64 (50)	27 (24)	
Hemorrhage (Intracerebral or Subarachnoid) - n(%)				
Yes	96 (40)	58 (45)	38 (34)	0.081
No	145 (60)	71 (55)	74 (66)	

Table 4. Surgical procedures by outcome.

	Total (N = 401)	Alive at F/up (n = 151)	Dead (n = 250)	P-value
Any Neurological Surgery Performed				
Yes	77 (19)	35 (14)	42 (28)	0.081
No	323 (81)	215 (86)	108 (72)	
Craniotomy - n(%)				
Yes	77 (19)	35 (14)	42 (28)	<0.001
No	321 (81)	213 (86)	108 (72)	
Hematoma Evacuation - n(%)				
Yes	63 (16)	28 (11)	35 (23)	<0.001
No	335 (84)	220 (89)	115 (77)	
Decompressive Craniectomy - n(%)				
Yes	36 (9)	21 (8)	15 (10)	0.61
No	0 (0)	0 (0)	0 (0)	