Table 1. Patient Characteristics

Characteristic	N = 671 ¹		
Age (years)			
Median (IQR) Gender, n (%)	6.0 (2.0, 13.0)		
Male	431 (64%)		
Female Race & Ethnicity, n (%)	240 (36%)		
Non-Hispanic White	340 (51%)		
Non-Hispanic Black	192 (29%)		
Hispanic	102 (15%)		
Other	37 (6%)		
Height (cm)			
Median (IQR) Weight (kg)	123.0 (92.0, 158.0)		
Median (IQR)	23.0 (14.0, 50.0)		
Head Circumference (cm)	, , ,		
Mean (±SD)	45.4 (±7.4)		

¹Mean (±SD), Median (IQR) or Frequency (%)

Study Population by Race and Ethnicity

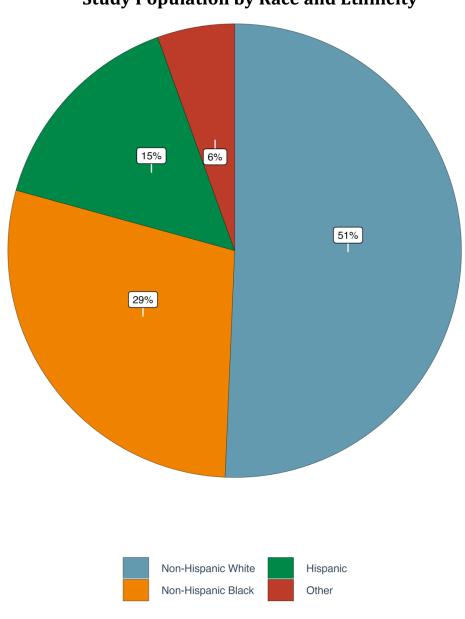


Figure 1. Study Population by Race and Ethnicity. In the United States, the majority of severe TBI patient are of non-Hispanic White race. The "Other" group consists of 14 Asian, 11 multiracial, 9 Alaska Native/Inuit, and 4 Native Hawaiian/Pacific Islander patients.

Table 2. Baseline Characteristics of the Study Cohort Stratified by Race and Ethnicity

Characteristic	Overall, N = 671 ¹	Non-Hispanic White, N = 340 ¹	Non-Hispanic Black, N = 1921	Hispanic, N = 102 ¹	Other , N = 37 ¹	p- value ²
Age (years)	0/1	= 540	= 192.	102		<0.001
Median (IQR)	6.0 (2.0, 13.0)	8.5 (3.0, 14.0)	4.0 (1.0, 9.0)	5.5 (2.0, 12.0)	4.0 (2.0, 11.0)	
Gender, n (%)						0.452
Male	431 (64%)	223 (66%)	126 (66%)	62 (61%)	20 (54%)	
Female	240 (36%)	117 (34%)	66 (34%)	40 (39%)	17 (46%)	
Height (cm)		, ,	, ,	, ,	, ,	<0.001
Median (IQR)	123.0 (92.0, 158.0)	133.0 (100.0, 163.0)	112.0 (85.0, 144.0)	118.0 (91.5, 156.0)	112.8 (94.2, 152.3)	
Weight (kg)	100.07			100.07	102.0)	<0.001
Median (IQR)	23.0 (14.0, 50.0)	30.0 (15.5, 56.5)	19.0 (13.0, 36.2)	21.0 (13.8, 45.4)	19.2 (14.8, 47.0)	
Head Circumference (cm)	,				,	0.392
Mean (±SD)	45.4 (±7.4)	46.4 (±7.2)	45.6 (±5.9)	41.8 (±9.9)	46.0 (±7.0)	
Cause, n (%)						0.088
MVA	357 (53%)	187 (55%)	107 (56%)	49 (48%)	14 (38%)	
Inflicted	140 (21%)	59 (17%)	46 (24%)	26 (25%)	9 (24%)	
Fall	102 (15%)	53 (16%)	22 (11%)	16 (16%)	11 (30%)	
Other Accidental	72 (11%)	41 (12%)	17 (9%)	11 (11%)	3 (8%)	
Type of TBI, n (%)						0.403
Closed	589 (88%)	294 (86%)	173 (90%)	90 (88%)	32 (86%)	
Penetrating	60 (9%)	33 (10%)	17 (9%)	8 (8%)	2 (5%)	
Crush	20 (3%)	12 (4%)	2 (1%)	3 (3%)	3 (8%)	
Blast	2 (0%)	1 (0%)	0 (0%)	1 (1%)	0 (0%)	
Mechanism, n (%)						0.003
Impact	431 (64%)	213 (63%)	140 (73%)	61 (60%)	17 (46%)	
Fall	99 (15%)	54 (16%)	18 (9%)	14 (14%)	13 (35%)	
Accel/Decel	66 (10%)	35 (10%)	17 (9%)	12 (12%)	2 (5%)	
Gunshot	45 (7%)	21 (6%)	15 (8%)	7 (7%)	2 (5%)	
Crush	15 (2%)	8 (2%)	0 (0%)	4 (4%)	3 (8%)	
Unknown	9 (1%)	4 (1%)	2 (1%)	3 (3%)	0 (0%)	
Other	6 (1%)	5 (1%)	0 (0%)	1 (1%)	0 (0%)	
Concerns for AHT, n (%) Admission GCS Score, Median	111 (17%) 5.0 (3.0, 7.0)	46 (14%) 5.0 (3.0, 7.0)	36 (19%) 5.0 (3.0, 7.0)	23 (23%) 5.5 (3.0, 7.0)	6 (16%) 6.0 (3.0, 7.0)	0.134 0.505
(IQR) Abbreviated Injury Score						0.195
Median (IQR)	8.0 (6.0, 12.0)	8.0 (6.0, 12.0)	8.0 (6.0, 11.0)	7.0 (5.0, 10.0)	8.0 (6.0, 10.0)	01.00
PRISM III	0.0 (0.0, 12.0)	0.0 (0.0, 12.0)	0.0 (0.0, 11.0)	7.0 (0.0, 10.0)	0.0 (0.0, 10.0)	0.489
Median (IQR)	14.0 (8.0, 21.0)	13.0 (8.0, 20.2)	15.0 (9.8, 21.0)	13.0 (7.2, 21.0)	11.0 (7.0, 21.0)	000
Monitor placed after 24hrs, n	35 (14%)	18 (14%)	11 (13%)	5 (16%)	1 (9%)	0.954
(%) Surgical Evacuation, n (%)	184 (27%)	82 (24%)	44 (23%)	40 (39%)	18 (49%)	<0.001
Surgical Decompression, n (%)	216 (32%)	104 (31%)	58 (30%)	38 (37%)	16 (43%)	0.260
ICU Length of Stay						0.228
Median (IQR)	12.0 (6.0, 18.0)	11.5 (6.0, 17.0)	12.0 (7.0, 19.0)	12.0 (7.2, 21.0)	13.0 (6.0, 21.0)	
Hospital Length of Stay						0.293
Median (IQR)	18.0 (10.0, 30.0)	16.5 (8.0, 30.0)	19.0 (11.0, 29.0)	20.0 (14.0, 30.8)	21.0 (8.0, 28.0)	
GOS-E Peds Available, n (%) GOS-E Peds, Median (IQR) Died, n (%) Discharge Location, n (%)	519 (77%) 5.0 (3.0, 8.0) 134 (20%)	278 (82%) 5.0 (3.0, 8.0) 79 (23%)	133 (69%) 6.0 (3.0, 8.0) 35 (18%)	80 (78%) 5.0 (3.0, 6.0) 12 (12%)	28 (76%) 5.0 (2.0, 8.0) 8 (22%)	0.011 0.527 0.072 0.040
Rehabilitation Facility	381 (57%)	188 (55%)	111 (58%)	65 (64%)	17 (46%)	
Home	147 (22%)	70 (21%)	42 (22%)	25 (25%)	10 (27%)	
N/A - Patient Died	130 (19%)	77 (23%)	35 (18%)	11 (11%)	7 (19%)	
I anom Dioa	.55 (15/6)	(20/0)	33 (13/3)	(/0)	. (10/0)	

¹Mean (±SD), Median (IQR) or Frequency (%)

²Kruskal-Wallis rank sum test; Pearson's Chi-squared test; One-way ANOVA,
Motor vehicle accident (MVA), traumatic brain injury (TBI), acceleration/deceleration injury (Accel/Decel), abusive head trauma (AHT), Glasgow coma scale (GCS), pediatric risk of mortality III score (PRISM III), Glasgow outcome scale – extended pediatric (GOS-E Peds)

Table 2.1. Baseline Characteristics of the Study Cohort Stratified by Race and Ethnicity in 'Other'

Characteristic	Overall , N = 37 ¹	Alaska Native or Inuit, N = 91	Asian, N = 14 ¹	Multi-racial, N = 10 ¹	Native Hawaiian or Pacific Islander, N = 41
Age (years)					,
Median (IQR) Gender, n (%)	4.0 (2.0, 11.0)	4.0 (2.0, 9.0)	7.0 (2.8, 14.8)	3.0 (2.0, 3.8)	10.5 (6.2, 14.0)
Male Female Height (cm)	20 (54%) 17 (46%)	4 (44%) 5 (56%)	6 (43%) 8 (57%)	6 (60%) 4 (40%)	4 (100%) 0 (0%)
Median (IQR)	112.8 (94.2, 152.3)	123.6 (106.2, 144.5)	122.4 (104.0, 154.9)	101.0 (92.5, 107.9)	151.5 (122.5, 166.5)
Veight (kg)	,		,	,	
Median (IQR)	19.2 (14.8, 47.0)	20.0 (14.9, 47.0)	26.0 (15.9, 47.5)	15.9 (12.8, 18.6)	42.5 (25.0, 58.8)
Head Circumference (cm), Mean ±SD)	46.0 (±7.0)	NA (±NA)	NA (±NA)	46.0 (±7.0)	NA (±NA)
Cause, n (%)					
MVA	14 (38%)	4 (44%)	6 (43%)	2 (20%)	2 (50%)
Fall	11 (30%)	5 (56%)	5 (36%)	1 (10%)	0 (0%)
Inflicted Other Assidents!	9 (24%)	0 (0%)	2 (14%)	6 (60%)	1 (25%)
Other Accidental Type of TBI, n (%)	3 (8%)	0 (0%)	1 (7%)	1 (10%)	1 (25%)
Closed	32 (86%)	9 (100%)	12 (86%)	8 (80%)	3 (75%)
Crush	3 (8%)	0 (0%)	2 (14%)	0 (0%)	1 (25%)
Penetrating	2 (5%)	0 (0%)	0 (0%)	2 (20%)	0 (0%)
Blast	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
lechanism, n (%)					
Impact	17 (46%)	2 (22%)	5 (36%)	7 (70%)	3 (75%)
Fall	13 (35%)	6 (67%)	6 (43%)	1 (10%)	0 (0%)
Crush	3 (8%)	0 (0%)	2 (14%)	0 (0%)	1 (25%)
Accel/Decel	2 (5%)	1 (11%)	1 (7%)	0 (0%)	0 (0%)
Gunshot	2 (5%)	0 (0%)	0 (0%)	2 (20%)	0 (0%)
concerns for AHT, n (%) dmission GCS Score, Median QR)	6 (16%) 6.0 (3.0, 7.0)	0 (0%) 6.0 (6.0, 7.0)	1 (7%) 6.0 (3.0, 6.8)	4 (40%) 6.5 (3.8, 7.0)	1 (25%) 3.0 (3.0, 3.8)
Abbreviated Injury Score					
Median (IQR) PRISM III	8.0 (6.0, 10.0)	8.0 (7.0, 10.0)	8.0 (5.0, 10.0)	7.5 (6.2, 9.5)	8.0 (5.0, 12.0)
Median (IQR)	11.0 (7.0, 21.0)	10.0 (7.0, 12.0)	10.0 (7.0, 19.8)	13.5 (9.2, 17.8)	26.5 (24.2, 30.8)
lonitor placed after 24hrs, n	1 (9%)	1 (20%)	0 (0%)	0 (0%)	0 (0%)
%) Surgical Evacuation, n (%)	18 (49%)	2 (22%)	7 (50%)	7 (70%)	2 (50%)
Surgical Decompression, n (%) CU Length of Stay	16 (43%)	2 (22%)	5 (36%)	7 (70%)	2 (50%)
Median (IQR) lospital Length of Stay	13.0 (6.0, 21.0)	10.0 (9.0, 17.0)	7.5 (3.2, 20.5)	17.5 (9.5, 23.8)	11.0 (2.5, 19.2)
Median (IQR)	21.0 (8.0, 28.0)	17.0 (14.0, 33.0)	17.0 (5.0, 23.5)	23.0 (21.2, 31.0)	11.0 (2.5, 26.8)
GOS-E Peds Available, n (%)	28 (76%)	8 (89%)	8 (57%)	9 (90%)	3 (75%)
GOS-E Peds, Median (IQR)	5.0 (2.0, 8.0)	2.5 (2.0, 6.5)	5.0 (1.8, 8.0)	5.0 (2.0, 6.0)	8.0 (7.5, 8.0)
Died, n (%) Discharge Location, n (%)	8 (22%)	2 (22%)	3 (21%)	1 (10%)	2 (50%)
Rehab	17 (46%)	2 (22%)	7 (50%)	7 (70%)	1 (25%)
Home	10 (27%)	4 (44%)	3 (21%)	2 (20%)	1 (25%)
N/A - Patient Died	7 (19%)	1 (11%)	3 (21%)	1 (10%)	2 (50%)
Other Hospital	3 (8%)	2 (22%)	1 (7%)	0 (0%)	0 (0%)

¹Mean (±SD), Median (IQR) or Frequency (%)
Motor vehicle accident (MVA), traumatic brain injury (TBI), acceleration/deceleration injury (Accel/Decel), abusive head trauma (AHT), Glasgow coma scale (GCS), pediatric risk of mortality III score (PRISM III), Glasgow outcome scale – extended pediatric (GOS-E Peds)