

Table S1 Baseline clinical characteristics after nearest neighbor matching with ratio of 2:1 (control: treated)

Factor	Nearest neighbor matching with ratio 2:1		P value*	SMD
	No (n=70)	Yes (n=35)		
Sex (female), n (%)	12 (17.1)	6 (17.1)	1.00	<0.001
Age, years, mean (SD)	30.97 (17.42)	30.43 (18.47)	0.88	0.03
Road traffic injury, n (%)	62 (88.6)	29 (82.9)	0.61	0.16
Aspirin, n (%)	0 (0)	1 (2.9)	0.72	0.24
Clopidogrel, n (%)	0 (0)	0 (0)	–	<0.001
Warfarin, n (%)	0 (0)	0 (0)	–	<0.001
Thrombocytopenia, n (%)	0 (0)	0 (0)	–	<0.001
Seizure, n (%)	6 (8.6)	3 (8.6)	1.00	<0.001
Hypotension, n (%)	5 (7.1)	1 (2.9)	0.65	0.19
Bradycardia, n (%)	2 (2.9)	0 (0)	0.80	0.24
Pupillary light reflex, n (%)			0.90	0.09
Fixed both eyes	10 (14.3)	4 (11.4)		
React one eyes	24 (34.3)	13 (37.1)		
React both eyes	36 (51.4)	18 (51.4)		
Alcoholic level, mg%, mean (SD)	58.01 (100.34)	56.25 (108.43)	0.93	0.01
Injury Severity Score, mean (SD)	25.73 (13.61)	27.59 (12.25)	0.55	0.14
Abbreviated Injury Scale of head, mean (SD)	3.90 (1.43)	4.37 (0.84)	0.12	0.40
Skull fracture, n (%)	6 (8.6)	2 (5.7)	0.89	0.11
Basilar skull fracture, n (%)	16 (22.9)	10 (28.7)	0.68	0.13
EDH, n (%)	9 (12.9)	8 (22.9)	0.30	0.26
Thickness of EDH, mm, mean (SD)	12.22 (9.22)	8.88 (4.45)	0.36	0.46
SDH, n (%)	37 (52.9)	20 (57.1)	0.72	0.11
Thickness of SDH, mm, mean (SD)	6.29 (5.05)	6.13 (5.00)	0.90	0.03
Contusion/intracerebral hematoma, n (%)	36 (51.4)	20 (57.1)	0.72	0.11
Diameter of contusion, mm, mean (SD)	14.08 (13.10)	15.46 (15.78)	0.72	0.09
SAH, n (%)	34 (48.6)	18 (51.4)	0.94	0.05
IVH, n (%)	15 (21.4)	8 (22.9)	1.00	0.03
Brainstem hematoma, n (%)	6 (8.6)	2 (5.7)	0.89	0.11
DAI, n (%)	33 (47.1)	14 (40.0)	0.62	0.14
Obliterated basal cistern, n (%)	16 (22.9)	6 (17.1)	0.67	0.14
Midline shift, mm, mean (SD)	1.40 (3.12)	1.37 (3.53)	0.96	0.009

*, P value of chi-square test and t-test. DAI, diffuse axonal injury; EDH, epidural hematoma; IVH, intraventricular hemorrhage; SAH, subarachnoid hemorrhage; SD, standard deviation; SDH, subdural hematoma; SMD, standardized mean difference.

Table S2 Baseline clinical characteristics after nearest neighbor matching with propensity score caliper of 0.2

Factor	Nearest neighbor matching with propensity score caliper		P value*	SMD
	No (n=33)	Yes (n=33)		
Sex (female), n (%)	5 (15.2)	4 (12.1)	1.00	0.08
Age, year, mean (SD)	31.03 (16.05)	11.12 (4.10)	0.57	0.13
Road traffic injury, n (%)	28 (84.8)	27 (81.8)	1.00	0.08
Aspirin, n (%)	0 (0)	1 (3.0)	1.00	0.25
Clopidogrel, n (%)	0 (0)	0 (0)	-	<0.001
Warfarin, n (%)	0 (0)	0 (0)	-	<0.001
Thrombocytopenia, n (%)	0 (0)	0 (0)	-	<0.001
Seizure, n (%)	6 (18.2)	3 (9.1)	0.47	0.26
Hypotension, n (%)	1 (3.0)	1 (3.0)	1.00	0.25
Bradycardia, n (%)	1 (3.0)	0 (0)	1.00	0.25
Pupillary light reflex, n (%)			0.54	0.27
Fixed both eyes	5 (15.2)	4 (12.1)		
React one eyes	7 (21.2)	11 (33.3)		
React both eyes	21 (63.6)	18 (54.5)		
Mean alcoholic level-mg%(SD)	70.65 (113.81)	51.90 (105.49)	0.49	0.17
Injury Severity Score (SD)	26.95 (9.53)	27.19 (12.32)	0.94	0.02
Abbreviated Injury Scale of head (SD)	3.77 (1.07)	4.35 (0.85)	0.04	0.59
Skull fracture, n (%)	3 (9.1)	2 (6.1)	1.00	0.11
Basilar skull fracture, n (%)	6 (18.2)	9 (27.3)	0.55	0.21
EDH, n (%)	6 (18.2)	8 (24.2)	0.76	0.14
Mean thickness of EDH-mm (SD)	14.00 (10.49)	8.88 (4.45)	0.23	0.63
SDH, n (%)	19 (57.6)	19 (57.6)	1.00	<0.001
Mean thickness of SDH-mm (SD)	5.95 (3.98)	6.34 (5.03)	0.79	0.08
Contusion/intracerebral hematoma, n (%)	17 (51.5)	19 (57.6)	0.80	0.12
Mean diameter of contusion-mm (SD)	15.41 (16.52)	13.65 (13.90)	0.73	0.11
SAH, n (%)	16 (48.5)	16 (48.5)	1.00	0.21
IVH, n (%)	9 (27.3)	6 (18.2)	0.55	0.21
Brainstem hematoma, n (%)	4 (12.1)	2 (6.1)	0.66	0.21
DAI, n (%)	15 (45.5)	12 (36.4)	0.61	0.18
Obliterated basal cistern, n (%)	9 (27.3)	5 (15.2)	0.36	0.30
Mean midline shift-mm (SD)	1.52 (3.17)	13.65 (13.90)	0.73	0.11

*, P value of chi-square test and t-test. DAI, diffuse axonal injury; EDH, epidural hematoma; IVH, intraventricular hemorrhage; SAH, subarachnoid hemorrhage; SD, standard deviation; SDH, subdural hematoma; SMD, standardized mean difference.

Table S3 Baseline clinical characteristics after optimal matching

Factor	Optimal matching		P value*	SMD
	No (n=35)	Yes (n=35)		
Sex (female), n (%)	4 (11.4)	6 (17.1)	0.73	0.16
Age, years, mean (SD)	30.37 (15.86)	30.43 (18.47)	0.98	0.003
Road traffic injury, n (%)	30 (85.7)	29 (82.9)	1.00	0.07
Aspirin, n (%)	0 (0)	1 (2.9)	1.00	0.24
Clopidogrel, n (%)	0 (0)	0 (0)	–	<0.001
Warfarin, n (%)	0 (0)	0 (0)	–	<0.001
Thrombocytopenia, n (%)	0 (0)	0 (0)	–	<0.001
Seizure, n (%)	7 (20.0)	3 (8.6)	0.30	0.33
Hypotension, n (%)	1 (2.9)	1 (2.9)	1.00	<0.001
Bradycardia, n (%)	1 (2.9)	0 (0)	1.00	0.24
Pupillary light reflex, n (%)			0.58	0.24
Fixed both eyes	5 (14.3)	4 (11.4)		
React one eyes	9 (25.7)	13 (37.1)		
React both eyes	21 (60.0)	18 (51.4)		
Alcoholic level, mg%, mean (SD)	51.91 (97.03)	56.25 (108.43)	0.86	0.04
Injury Severity Score, mean (SD)	23.33 (13.08)	27.59 (12.25)	0.23	0.33
Abbreviated Injury Scale of head, mean (SD)	3.75 (1.67)	4.37 (0.84)	0.09	0.46
Skull fracture, n (%)	0 (0)	2 (5.7)	0.47	0.34
Basilar skull fracture, n (%)	3 (8.6)	10 (28.6)	0.06	0.53
EDH, n (%)	5 (14.3)	8 (22.9)	0.53	0.22
Thickness of EDH, mm, mean (SD)	15.00 (11.27)	8.88 (4.45)	0.18	0.71
SDH, n (%)	16 (45.7)	20 (57.1)	0.47	0.23
Thickness of SDH, mm, mean (SD)	6.00 (4.37)	6.13 (5.00)	0.93	0.02
Contusion/intracerebral hematoma	16 (45.7)	20 (57.1)	0.47	0.23
Diameter of contusion, mm, mean (SD)	16.56 (16.52)	15,246 (15.78)	0.84	0.06
SAH, n (%)	14 (40.0)	18 (51.4)	0.47	0.23
IVH, n (%)	9 (25.7)	8 (22.9)	1.00	0.06
Brainstem hematoma, n (%)	4 (11.4)	2 (5.7)	0.66	0.20
DAI, n (%)	17 (48.6)	14 (40.0)	0.63	0.17
Obliterated basal cistern, n (%)	9 (25.7)	6 (17.1)	0.56	0.21
Midline shift, mm, mean (SD)	1.43 (3.10)	1.37 (3.53)	0.94	0.01

*, P value of chi-square test and t-test. DAI, diffuse axonal injury; EDH, epidural hematoma; IVH, intraventricular hemorrhage; SAH, subarachnoid hemorrhage; SD, standard deviation; SDH, subdural hematoma; SMD, standardized mean difference.

Table S4 Baseline clinical characteristics after Mahalanobis metric matching

Factor	Mahalanobis metric matching		P value*	SMD
	No (n=35)	Yes (n=35)		
Sex (female), n (%)	4 (11.4)	6 (17.1)	0.73	0.16
Age, years, mean (SD)	30.37 (15.86)	30.43 (18.47)	0.98	0.003
Road traffic injury, n (%)	30 (85.7)	29 (82.9)	1.00	0.07
Aspirin, n (%)	0 (0)	1 (2.9)	1.00	0.24
Clopidogrel, n (%)	0 (0)	0 (0)	–	<0.001
Warfarin, n (%)	0 (0)	0 (0)	–	<0.001
Thrombocytopenia, n (%)	0 (0)	0 (0)	–	<0.001
Seizure, n (%)	7 (20.0)	3 (8.6)	0.30	0.33
Hypotension, n (%)	1 (2.9)	1 (2.9)	1.00	<0.001
Bradycardia, n (%)	1 (2.9)	0 (0)	1.00	0.24
Pupillary light reflex, n (%)			0.58	0.24
Fixed both eyes	5 (14.3)	4 (11.4)		
React one eyes	9 (25.7)	13 (37.1)		
React both eyes	21 (60.0)	18 (51.4)		
Alcoholic level, mg%, mean (SD)	51.91 (97.03)	56.25 (108.43)	0.86	0.04
Injury Severity Score, mean (SD)	23.33 (13.08)	27.59 (12.25)	0.23	0.33
Abbreviated Injury Scale of head, mean (SD)	3.75 (1.67)	4.37 (0.84)	0.09	0.46
Skull fracture, n (%)	0 (0)	2 (5.7)	0.47	0.34
Basilar skull fracture, n (%)	3 (8.6)	10 (28.6)	0.06	0.53
EDH, n (%)	5 (14.3)	8 (22.9)	0.53	0.22
Thickness of EDH, mm, mean (SD)	15.00 (11.27)	8.88 (4.45)	0.18	0.71
SDH, n (%)	16 (45.7)	20 (57.1)	0.47	0.23
Thickness of SDH, mm, mean (SD)	6.00 (4.37)	6.13 (5.00)	0.93	0.02
Contusion/intracerebral hematoma, n (%)	16 (4.37)	20 (57.1)	0.47	0.23
Mean diameter of contusion, mm, mean (SD)	16.56 (16.52)	15.46 (15.78)	0.84	0.06
SAH, n (%)	14 (40.0)	18 (51.78)	0.47	0.23
IVH, n (%)	9 (25.7)	8 (22.9)	1.00	0.06
Brainstem hematoma, n (%)	4 (11.4)	2 (5.7)	0.66	0.20
DAI, n (%)	17 (48.6)	14 (40.0)	0.63	0.17
Obliterated basal cistern, n (%)	9 (25.7)	6 (17.1)	0.56	0.21
Midline shift, mm, mean (SD)	1.43 (3.10)	1.37 (3.53)	0.94	0.01

*, P value of chi-square test and t-test. DAI, diffuse axonal injury; EDH, epidural hematoma; IVH, intraventricular hemorrhage; SAH, subarachnoid hemorrhage; SD, standard deviation; SDH, subdural hematoma; SMD, standardized mean difference.