

Supplementary Table S1: Baseline characteristics of both groups after propensity score matching for age and GCS at presentation

Drain group	Passive	Active	p-value
n	192	192	
Age (mean (SD))	76.70 (9.67)	76.02 (10.29)	0.5
Sex = male (%)	131 (68.2)	119 (62.0)	0.239
Drain type = subperiosteal (%)	104 (54.2)	102 (53.1)	0.918
Drain duration (mean (\pm SD)), hours	48.00 (0.00)	34.85 (11.47)	<0.001
Mobilization for 48 hours (%)			<0.001
Bed rest, flat	192 (100.0)	4 (2.1)	
Bed rest, 30°	0 (0.0)	38 (20.3)	
Partial mobilization	0 (0.0)	66 (34.4)	
Full mobilization	0 (0.0)	89 (46.4)	
GCS at presentation (median [IQR])	15.00 [14.00, 15.00]	15.00 [14.00, 15.00]	0.152
mRS at presentation (median [IQR])	2.00 [1.00, 3.00]	2.00 [1.00, 2.00]	0.007
Aphasia = yes (%)	38 (19.8)	51 (26.6)	0.147
Motor deficit = yes (%)	92 (47.9)	62 (32.3)	0.003
Headache = yes (%)	63 (33.0)	111 (57.8)	<0.001
Incontinence = yes (%)	4 (2.1)	6 (3.1)	0.749
Seizure = yes (%)	12 (6.2)	7 (3.6)	0.347
Hypertension = yes (%)	27 (14.1)	29 (15.1)	0.885
CAD = yes (%)	54 (28.1)	56 (29.2)	0.91
Atrial fibrillation = yes (%)	42 (21.9)	53 (27.6)	0.237
Stroke = yes (%)	24 (12.5)	19 (9.9)	0.517
COPD = yes (%)	5 (2.6)	6 (3.1)	1
Smoker = yes (%)	8 (4.2)	8 (4.2)	1
Alcohol = yes (%)	12 (6.2)	4 (2.1)	0.074
CAD = yes (%)	54 (28.1)	56 (29.2)	0.91
Blood thinner = yes (%)	115 (59.9)	111 (57.8)	0.756
MLS preoperative cm (mean (\pm SD))	0.72 (0.51)	0.75 (0.52)	0.509

mRS = modified Rankin Scale, MLS = midline shift, CAD = coronary artery disease, COPD = chronic obstructive pulmonary disease, GCS = Glasgow Coma Scale

Supplementary Table S2: Outcome parameters of both groups after propensity score matching

Drain group	Passive	Active	p-value
n	192	192	
Recurrence = yes (%)	30 (15.6)	51 (26.6)	0.012
Time to 1 st recurrence (days) (mean (\pm SD))	3.43 (12.82)	6.40 (17.17)	0.056
Mortality = yes (%)	8 (4.3)	15 (7.8)	0.844
GCS after 24–48 hours (median [IQR])	15.00 [14.00, 15.00]	15.00 [15.00, 15.00]	<0.001
GCS after 4–6 weeks (median [IQR])	15.00 [15.00, 15.00]	15.00 [15.00, 15.00]	<0.001
GCS after 6–12 months (median [IQR])	15.00 [15.00, 15.00]	15.00 [15.00, 15.00]	0.21
mRS after 4–6 weeks (median [IQR])	1.00 [0.00, 1.75]	1.00 [1.00, 2.00]	0.002
mRS after 6–12 months (median [IQR])	0.00 [0.00, 2.00]	1.00 [0.00, 2.00]	0.431
MLS 24–48 hours postoperative (mean (\pm SD)), cm	0.34 (0.27)	0.34 (0.34)	0.832
MLS 4–6 weeks postoperative (mean (\pm SD)), cm	0.08 (0.18)	0.16 (0.27)	0.006
Diameter of remaining hematoma after 24–48 hours (mean (\pm SD)), cm	1.05 (0.54)	1.24 (0.59)	0.007
Diameter of remaining hematoma after 4–6 weeks (mean (\pm SD)), cm	0.55 (0.55)	0.72 (0.60)	0.020
Hemorrhagic complications = yes (%)	4 (2.1)	5 (2.6)	1
Hemorrhage type (%)			0.472
EDH	1 (0.5)	0 (0.0)	
ICB	3 (1.6)	5 (2.6)	
Surgical Infection = yes (%)	9 (4.7)	3 (1.6)	0.143
Medical complication (%)			0.143
Deep vein thrombosis	2 (1.0)	1 (0.5)	
Pulmonary embolism	2 (1.0)	0 (0.0)	
Pneumonia	3 (1.6)	0 (0.0)	

mRS = modified Rankin Scale, MLS = midline shift, cm = centimeter, W = weeks, M = months, EDH = Epidural hematoma, ICB = Intracerebral bleed, CSDH = chronic subdural hematoma, GCS = Glasgow Coma Scale

Supplementary Table S3: Outcome parameters of both groups after excluding patients not on bed rest

Drain group	Passive	Active	p-value
n	220	60	
Recurrence = yes (%)	31 (14.1)	19 (31.7)	0.004
Time to 1 st recurrence, days (mean (\pm SD))	3.01 (12.02)	9.52 (20.54)	0.002
Mortality = yes (%)	12 (5.7)	5 (8.3)	0.709
GCS after 24–48 hours (median [IQR])	15.00 [14.00, 15.00]	15.00 [15.00, 15.00]	<0.001
GCS after 4–6 weeks (median [IQR])	15.00 [15.00, 15.00]	15.00 [15.00, 15.00]	0.002
GCS after 6–12 months (median [IQR])	15.00 [15.00, 15.00]	15.00 [15.00, 15.00]	0.017
mRS after 4–6 weeks (median [IQR])	1.00 [0.00, 2.00]	1.00 [0.00, 2.00]	0.184
mRS after 6–12 months (median [IQR])	1.00 [0.00, 3.00]	1.00 [0.00, 2.00]	0.659
MLS 24–48 hours postoperative (mean (\pm SD)), cm	0.34 (0.28)	0.30 (0.35)	0.457
MLS 4–6 weeks postoperative (mean (\pm SD)), cm	0.09 (0.19)	0.18 (0.23)	0.022
Diameter of remaining hematoma after 24–48 hours (mean (\pm SD)) cm	1.05 (0.54)	1.15 (0.51)	0.336
Diameter of remaining hematoma after 4–6 weeks (mean (\pm SD)), cm	0.56 (0.57)	0.73 (0.64)	0.121
Hemorrhagic complications = yes (%)	4 (1.8)	1 (1.7)	1
Type of hemorrhage, postoperative (%)			0.859
EDH	1 (0.5)	0 (0.0)	
ICB	3 (1.4)	1 (1.7)	
Surgical Infection = yes (%)	11 (5.0)	2 (3.3)	0.843
Medical complication (%)			0.347
Deep vein thrombosis	2 (0.9)	2 (3.3)	
Pulmonary embolism	2 (0.9)	0 (0.0)	
Pneumonia	3 (1.64)	0 (0.0)	

mRS = modified Rankin Scale, MLS = midline shift, cm = centimeter, W = weeks, M = months, EDH = Epidural hematoma, ICB= Intracerebral bleed, CSDH = chronic subdural hematoma, GCS = Glasgow Coma Scale