

**Supplementary Table 1.** Univariable predictor of in-hospital neurological deterioration after ICH in the derivation cohort (n=1,309)

Variable	Increment/categories	OR	95% CI	P
<b>Demographics</b>				
Age (yr)	1 Year increase	1.013	1.005–1.021	<0.001
Male sex (yes)	Male vs. Female	1.303	1.016–1.672	0.030
Onset to hospital (hr)	1 Hour increase	1.000	1.000–1.000	0.650
<b>Risk factors</b>				
Hypertension	Yes vs. No	1.258	0.924–1.718	0.140
Diabetes mellitus	Yes vs. No	1.723	1.213–2.447	0.002
Dyslipidemia	Yes vs. No	0.948	0.571–1.572	0.830
Atrial fibrillation	Yes vs. No	2.905	1.387–6.084	0.005
History of stroke/TIA	Yes vs. No	1.428	1.069–1.908	0.020
Myocardial infarction	Yes vs. No	0.962	0.420–2.203	0.920
Heart failure	Yes vs. No	1.424	0.286–7.084	0.660
Current smoker	Yes vs. No	1.042	0.819–1.326	0.730
Alcohol consumption	Yes vs. No	1.120	0.888–1.413	0.330
Pre-admission anticoagulation	Yes vs. No	1.337	0.487–3.674	0.570
Pre-admission antiplatelet	Yes vs. No	1.545	1.146–2.081	0.004
Pre-stroke mRS score	1 Grade increase	1.110	0.975–1.264	0.110
Admission NIHSS score	1 Point increase	1.105	1.092–1.118	<0.001
Admission GCS score	1 Point decrease	1.311	1.272–1.350	<0.001
Admission dysphagia	Yes vs. No	5.009	3.942–6.365	<0.001
Admission SBP	1 mm Hg increase	1.015	1.011–1.019	<0.001
Admission DBP	1 mm Hg increase	1.009	1.003–1.015	0.004
Hematoma location	Infratentorial vs. Supratentorial	1.815	1.314–2.506	<0.001
Hematoma volume	1 mL increase	1.024	1.020–1.028	<0.001
Intraventricular extension	Yes vs. No	1.884	1.496–2.371	<0.001
Subarachnoid extension	Yes vs. No	2.278	1.708–3.040	<0.001
Admission WBC	1×10 <sup>9</sup> /L increase	1.167	1.138–1.196	<0.001
Admission glucose	1×mmol/L increase	1.136	1.100–1.173	<0.001
Admission creatinine	1×μmol/L increase	1.000	1.000–1.001	0.350
<b>Etiology diagnosis</b>				
Primary ICH	Primary ICH vs. IVH	0.969	0.322–2.916	0.950
Secondary ICH	Secondary ICH vs. IVH	0.609	0.186–1.997	0.410
Surgical treatment	Yes vs. No	1.926	1.481–2.505	<0.001

ICH, intracerebral hemorrhage; OR, odds ratio; CI, confidence interval; TIA, transient ischemic attack; mRS, modified Rankin Scale; NIHSS, National Institutes of Health Stroke Scale; GCS, Glasgow Coma Scale; SBP, systolic blood pressure; DBP, diastolic blood pressure; WBC, white cell count; IVH, intraventricular hemorrhage.