

Supplemental Table 1. Definitions and frequencies of comorbidities in the clinical dataset

Comorbidity	Definition	Category	N (%)
Hypertension	History of systolic BP ≥ 130 mmHg, diastolic BP ≥ 80 mmHg, or antihypertensive treatment at admission.	Yes	41.69%
		No	58.31%
Smoking	Active tobacco use at time of admission.	Yes	28.54%
		No	71.46%
Diabetes Mellitus	Known diagnosis of diabetes or treatment with insulin/oral hypoglycemics.	Yes	18.60%
		No	81.40%
Dyslipidemia/Obesity	History of dyslipidemia (e.g., LDL ≥ 130 mg/dL) and/or BMI ≥ 30 kg/m ² .	Yes	17.86%
		No	82.14%
Alcoholism	Documented alcohol use disorder or chronic excessive alcohol intake.	Yes	5.71%
		No	94.29%
Other drugs	Active use of recreational drugs (e.g., cocaine, cannabis, opioids).	Yes	3.22%
		No	96.78%
Family history of SAH	First-degree relative with history of subarachnoid hemorrhage.	Yes	1.49%
		No	98.51%
Associated AVM	Diagnosis of arteriovenous malformation (AVM) associated with aneurysm.	Yes	1.40%
		No	98.60%