Supplementary Table 1. Imaging core lab members

Name	Subspecialty	Stroke imaging experience (yr)	Role in the imaging core lab
Mayank Goyal	Neuroradiology (diagnostic and interventional)	24	Head of the imaging core lab Reperfusion assessment (eTICI) Follow-up infarct assessment Decision in case of disagreement between two readers
Johanna Ospel	General radiology	4	Reperfusion assessment (eTICI) Follow-up infarct volume and hemorrhage volume assessment
Manish Joshi	Neuroradiology (diagnostic and interventional)	15	Baseline imaging assessment (NCCT, CTA)
Bijoy Menon	Stroke neurology	15	Baseline imaging assessment (NCCT, CTA)
Mohammed Almekhlafi	Stroke neurology	10	Reperfusion assessment (eTICI)
Charlotte Zerna	Stroke neurology	6	Baseline imaging assessment (NCCT, CTA)
Leon Rinkel	Neurology	3	Follow-up infarct volume segmentations for inter-rater agreement assessment

NCCT, non-contrast computed tomography; eTICI, expanded Treatment in Cerebral Infarction Score; CTA, computed tomography angiography.

Supplementary Table 2. Tissue imaging markers used in this analysis

Imaging marker*	Availability	Methodology
Total infarct volume	Patients with follow-up imaging (n=1,099)	Manual segmentation
Grey matter infarct volume	Patients with follow-up MRI (n=358)	Manual segmentation
White matter infarct volume	Patients with follow-up MRI (n=358)	Calculated (total infarct volume minus grey matter infarct volume)
Hemorrhage volume	Patients with appropriate follow-up imaging† (n=1,054)	Manual segmentation

MRI, magnetic resonance imaging.
*Unit for all variables is milliliters (mL); †Appropriate follow-up imaging: either non-contrast computed tomography or MRI with hemorrhage-sensitive sequences (gradient echo or susceptibility-weighted sequences).

Supplementary Table 3. Variables included in the binary logistic regression models

Quantitative imaging marker of interest*	Dependent variable	Adjustment variables
Total infarct volume	mRS 0–2 at 90 days	Patient age, sex, baseline NIHSS
Grey matter infarct volume	mRS 0–2 at 90 days	Patient age, sex, baseline NIHSS, white matter infarct volume
White matter infarct volume	mRS 0–2 at 90 days	Patient age, sex, baseline NIHSS, grey matter infarct volume
Hemorrhage volume	mRS 0–2 at 90 days	Patient age, sex, baseline NIHSS, total infarct volume

mRS, modified Rankin Scale; NIHSS, National Institutes of Health Stroke Scale.
*Included as an independent variable in the model. Measurement unit for all quantitative imaging markers is milliliters (mL).