

Supplementary file 3 Measurement glossary

Physiological parameters		
Acronyms	Full Names	Definition and Measurement description
SBP	systolic blood pressure	Recorded 10 min before treatment and every 10 min during procedure in case report form (CRF) table, every 5 min in electronic medical record system. Target value:>140 mmHg, <180 mmHg.
DBP	diastolic blood pressure	Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system. Target value:>105 mmHg
FiO ₂	inspired oxygen fraction	Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system.
PaCO ₂	arterial partial pressure of carbon dioxide	Tested through arterial line access. Tested every 1 hour during endovascular therapy (EVT).
ETCO ₂	end-tidal carbon dioxide	Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system.
BIS	bispectral index	Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system.
ECG	electrocardiography	Recorded 5 min in electronic medical record system.
HR	heart rate	Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system.

S _p O ₂	pulse oxygen saturation	Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system.
BP	blood pressure	Non-invasive blood pressure on either arm, measured every 5 min during procedure. Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system.
Glu	serum glucose	Tested before EVT treatment. During EVT, tested every 1 hour. Target value: 70-140 mg/L
MAP	mean artery pressure	Recorded 10 min before treatment and every 10 min during procedure in CRF table, every 5 min in electronic medical record system.
ABG	arterial blood gas	Monitored before treatment and every one hour during treatment, including Na ⁺ , K ⁺ , Cl ⁻ , PaCO ₂ , PaO ₂ , PH, glucose.
Evaluation		
Acronyms	Full Names	Definition and Measurement description
mRS	modified Rankin scale	Measured 30 days and 90 days after treatment
NIHSS	National Institute of Health stroke scale	Measured before treatment, 24hrs, 7 days, 30 days and 90 days after treatment
mTICI	modified Thrombolysis in Cerebral Infarction	Measured before EVT and immediately after recanalization.
GCS	Glasgow coma score	Measured before treatment, 24h and 90 days after treatment
pc-ASPECTS	post-circulation Alberta Stroke Program Early CT Score	Measured before treatment
Work flow		

Name	Definition and description
Onset to door	The duration between patient last know to be well and arriving to radiological suite.
Door to groin puncture	The duration between patient arriving at radiological suite and groin puncture initiating.
Puncture complete	The duration between groin puncture initiating and puncture completing.
Groin puncture to recanalization	The time duration between puncture complete and recanalization.
Recanalization time	The time duration between onset to recanalization success.
Recover time	The time duration between pressing against the puncture site and transferring to NICU.