Supplementary Table 2. Patient characteristics in patients with mTICI 2b/3 and 0/1

| Characteristic                  | Patients with mTICI 2b/3 (n=196) | Patients with mTICI 0/1 (n=88) | P    |
|--------------------------------|----------------------------------|--------------------------------|------|
| Age (yr)                       | 73 (62–77)                       | 75 (63–82)                     | 0.53 |
| Male sex                       | 101 (52)                         | 46 (52)                        | 0.51 |
| Baseline NIHSS                 | 14 (7–19)                        | 17 (8–23)                      | 0.11 |
| Baseline ASPECTS               | 9 (8–10)                         | 8 (7–10)                       | 0.16 |
| Onset-to-imaging time (min)    | 134 (95–222)                     | 141 (90–300)                   | 0.25 |
| Imaging-to-reperfusion time (min) | 88 (68–114)                  | 97 (66–127)                    | 0.77 |
| Onset-to-reperfusion time (min) | 237 (170–340)                    | 245 (185–387)                  | 0.61 |
| Follow-up infarct volume (mL)* | 18.2 (9.2–49.4)                  | 46.5 (42.1–70.6)               | 0.02 |
| Site of occlusion              |                                  |                                |      |
| ICA                            | 33 (17)                          | 18 (20)                        | 0.46 |
| MCA:M1                         | 96 (49)                          | 46 (52)                        | 0.44 |
| Distal M2, M3, M4, P2, P3, A2, A3, vertebral artery, basilar artery | 67 (34) | 24 (28) | 0.53 |

Values are presented as median (interquartile range) or number (%).

mTICI, modified thrombolysis in cerebral infarction; NIHSS, National Institutes of Health Stroke Scale; ASPECTS, Alberta Stroke Program Early CT score; ICA, internal carotid artery; MCA, middle cerebral artery.

*P<0.05.

Supplementary Table 3. Predicted volumes of different models compared to follow-up infarct volume between the patients with anterior circulation (ICA, MCA, ACA) and with posterior circulation (vertebral and basilar) occlusions

| Variable                                                  | Patients with AC occlusion (n=136) | Patients with PC occlusion (n=8) |
|-----------------------------------------------------------|-----------------------------------|---------------------------------|
|                                                           | CCC (95% CI)                      | ICC (95% CI)                    | CCC (95% CI) | ICC (95% CI) |
| mCTA core model                                           | 0.44 (0.16–0.58)                  | 0.48 (0.27–0.58)                | 0.43 (0.15–0.57) | 0.46 (0.28–0.61) |
| mCTA penumbra model                                       | 0.45 (0.18–0.60)                  | 0.50 (0.29–0.61)                | 0.45 (0.20–0.61) | 0.45 (0.28–0.59) |
| Time dependent Tmax thresholding prediction               | 0.47 (0.20–0.57)                  | 0.56 (0.31–0.66)                | 0.48 (0.21–0.65) | 0.50 (0.29–0.61) |

ICA, internal carotid artery; MCA, middle cerebral artery; ACA, anterior cerebral artery; AC, anterior circulation; PC, posterior circulation; CCC, concordance correlation coefficient; CI, confidence interval; ICC, intra-class correlation coefficient; mCTA, multiphase computed tomography angiography.