**Supplementary Table: Comparison of patient characteristics between Hypoperfusion Index groups in overall cohort**

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| **Variables** | **Hypoperfusion Index n=106** | | |
|  | ***HI >0.5 n=29*** | ***HI <0.5 n=77*** | ***p-value*** |
| Age, median (IQR) (years) | 75 (62-83) | 73 (62-85) | 0.90 |
| Gender (Male), n (%) | 20 (68.9) | 48 (62.3) | 0.52 |
| Hypertension, n (%) | 17 (58.6) | 47 (61.0) | 0.73 |
| Diabetes Mellitus, n (%) | 5 (17.2) | 15 (19.4) | 0.76 |
| Coronary Artery Disease, n (%) | 5 (17.2) | 16 (20.7) | 0.65 |
| Previous Stroke, n (%) | 4 (13.7) | 4 (5.1) | 0.14 |
| Previous Transient Ischemic Attack, n (%) | 3 (10.3) | 6 (7.7) | 0.69 |
| Current Smoking, n (%) | 5 (17.2) | 16 (20.7) | 0.73 |
| Atrial Fibrillation, n (%) | 9 (31.0) | 17 (22.0) | 0.44 |
| Hyperlipidemia, n (%) | 11 (37.9) | 25 (32.4) | 0.63 |
| NIHSS score, median (IQR) at admission | 18 (12-21) | 14 (10-18) | 0.02\* |
| CTP core, median (IQR) (mL) | 77 (15-99) | 7 (0-20) | < 0.001\* |
| CTP mismatch, median (IQR) (mL) | 76 (40-110) | 84 (42-114) | 0.33 |
| CTP mismatch ratio, median (IQR) | 2.2 (1.5-2.6) | 6.3 (2.6-12.4) | < 0.001\* |
| Carotid T occlusion, n (%) | 1 (3.4) | 2 (2.5) | 0.81 |
| ICA occlusion, n (%) | 5 (17.2) | 13 (16.8) | 0.95 |
| M1 occlusion, n (%) | 16 (55.1) | 41 (53.2) | 1.00 |
| M2 occlusion, n (%) | 5 (17.2) | 13 (16.8) | 0.96 |
| Distal to M2, n (%) | 3 (10.3) | 7 (9) | 0.84 |
| IV Thrombolysis, n (%) | 9 (31) | 41 (53.2) | 0.03\* |
| Endovascular Thrombectomy with or without thrombolysis, n (%) | 7 (24.1) | 42 (54.5) | 0.003\* |
| Full Recanalization (TICI 3), n (%) | 7 (24.1) | 41 (53.2) | 0.007\* |
| Hemorrhagic Transformation, n (%) | 8 (27.5) | 25 (32.4) | 0.33 |
| Symptom onset to imaging, median (IQR) (minutes) | 357.5 (101-604.5) | 286 (106-652) | 0.92 |
| Rate of core progression (ratio of core to time), mL/ min | 0.28 (0.04-0.66) | 0.02 (0-0.06) | <0.001 |

CTP=Computed Tomography Perfusion; ICA=Internal Carotid Artery; NIHSS=National Institutes of Health Stroke Scale; ASPECTS=Alberta Stroke Program Early CT Score; IQR=Interquartile range; TICI=Thrombolysis In Cerebral Infarction; IV=Intravenous. \*significant