Supplemental Digital Content 1: Treatment metrics, hemodynamic management, intraoperative and postoperative complications and outcomes in subgroups STN, Pre-IA and post-I

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|  | **Sedation trained nurses (STN)** (n=188)a | **Pre-intervention anesthesia (Pre-IA)** (n= 45)b | **Post-intervention (Post-I)** (n= 149)c | **p-value** |
| GA n (%) | 9 (4.7) | 27 (60) | 24 (16.1) | STN vs Pre-IA: <0.0001STN vs post-I: 0.001Pre-IA vs post-I:< 0.0001 |
| TICI 2b/3 n (%) | 149 (79.2)(n=187) | 41 (91.1) | 124 (83.2) | STN vs Pre-IA: 0.200STN vs post-I: 0.736Pre-IA vs post-I: 0.121 |
| Door to arterial puncture time in min [median (IQR) | 80 (52, 99) | 86 (58, 131) | 68 (15, 94)(n=148) | STN vs Pre-IA: 0.342STN vs post-I: 0.008Pre-IA vs post-I: 0.015 |
| In room to arterial puncture time [median (IQR)  | 14 (10, 20)(n=147) | 17 (7, 19)(n=36) | 11 (8, 14)(n=143) | STN vs Pre-IA: 0.808STN vs post-I: < 0.0001Pre IA vs post-I: 0.048 |
| Procedure time [median (IQR) | 56 (40, 84)(n=133) | 72 (52, 103)(n=35) | 51 (40, 64)(n=129) | STN vs Pre-IA: 0.146STN vs post-I: 0.155Pre IA vs post-I: 0.001 |
| SpO2 < 94% n (%) | 17 (9.4) | 2 (4.44) | 5 (3.36) | STN vs Pre-IA: 0.5426STN vs post-I: 0.0449Pre IA vs post-I: 0.6642 |
| SBP < 140 mmHg for two consecutive readings n (%) | 96 (51) | 35 (77.7) | 83 (55.7) | STN vs Pre-IA: 0.001STN vs post-I: 0.442Pre IA vs post-I: 0.009 |
| Number of hypotensive episodes [Median (IQR)] | 4 (1, 8) | 12 (4, 17) | 5 (1, 10) | STN vs Pre-IA: <0.0001STN vs post-I: 0.195Pre IA vs post-I: <0.0001 |
| Lowest SBP mmHg [Median (IQR)] | 127 (111, 138) | 103 (90, 119) | 120 (108, 137) | STN vs Pre-IA: <0.0001STN vs post-I: 0.142Pre IA vs post-I: 0.001 |
| Procedural complication n (%) | 7 (3.7) | 1 (2.2) | 8 (5.3) | STN vs Pre-IA: 0.999STN vs post-I: 0.597Pre-IA vs post-I: 0.688 |
| Radiographic hemorrhagic transformation n (%) | 101 (53.7) | 22 (48.8) | 61 (40.9) | STN vs Pre-IA: 0.619STN vs post-I: 0.021Pre IA vs post-I: 0.392 |
| Symptomatic hemorrhagic transformation n (%) | 27 (14.3) | 4 (8.8) | 9 (6.04) | STN vs Pre-IA: 0.465STN vs post-I: 0.020Pre IA vs post-I: 0.503 |
| Hemicraniectomy n (%) | 17 (9.04) | 3 (6.67) | 13 (8.72) | STN vs Pre-IA: 0.772STN vs post-I: 0.999Pre IA vs post-I: 0.999 |
| Aspiration pneumonia n (%) | 12 (6.4) | 3 (6.7) | 6 (4.0) | STN vs Pre-IA: 0.999STN vs post-I: 0.466Pre IA vs post-I: 0.435 |
| Discharge NIHSS [Median (IQR)] | 7 (2.5, 15)(n=184) | 11 (2, 20)(n=42) | 7 (3, 17)(n=146) | STN vs Pre-IA: 0.682STN vs post-I: 0.951Pre IA vs post-I: 0.857 |
| Mortality during admission n (%) | 17 (9.0) | 5 (11.1) | 12 (8.1) | STN vs Pre-IA: 0.776STN vs post-I: 0.846Pre IA vs post-I: 0.550 |
| Hospital length of stay in days [Median (IQR)] | 7 (4, 10) | 8 (5, 12) | 8 (5, 13)(n=148) | STN vs Pre-IA: 0.338STN vs post-I: 0.053Pre IA vs post-I: 0.975 |
| mRS ≤ 2 at 90 days n (%) | 54 (36.7)(n=147) | 13 (33.3)(n=39) | 45 (37.8)(n=120) | STN vs Pre-IA: 0.851STN vs post-I: 0.899Pre IA vs post-I: 0.703 |

(SBP: systolic blood pressure; SD: standard deviation; SpO2: oxygen saturation; TICI: thrombolysis in cerebral infarction; mRS: modified Rankin score; IQR: interquartile range; a: n=188 in STN group unless otherwise indicated; b: n=45 in pre-IA group unless otherwise indicated; c: n=149 in post-I group unless otherwise indicated)