**Supplemental Table 1. Baseline and procedural characteristics of patients with different SVD scores**

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| **Baseline and procedural variable** | **SVD 0****（N=71）** | **SVD 1****（N=35）** | **SVD 2 （N=22）** | **SVD 3****（N=9）** | ***P* value** |
| Male | 45 (63.4) | 25 (71.4) | 19 (86.4) | 7 (77.8) | 0.20 |
| Age; median (IQR) | 58 (50-66) | 67 (61-74) | 66 (53-72) | 67 (60-73) | <0.01 |
| History of hypertension | 39 (54.9) | 24 (68.6) | 16 (72.7) | 6 (66.7) | 0.35 |
| History of diabetes | 13 (18.3) | 8 (22.9) | 8 (36.4) | 1 (11.1) | 0.31 |
| History of dyslipidemia | 8 (11.3) | 7 (20.0) | 5 (22.7) | 1 (11.1) | 0.44 |
| History of coronary heart disease | 3 (4.2) | 4 (11.4) | 2 (9.1) | 0 (0) | 0.39 |
| History of atrial fibrillation | 15 (21.1) | 12 (.34.3) | 5 (22.7) | 1 (11.1) | 0.36 |
| Prior ischemic stroke | 13 (18.3) | 15 (42.9) | 8 (36.4) | 4 (44.4) | 0.03 |
| Cigarette smoking |  |  |  |  |  |
| Never smoker | 34 (47.9) | 16 (45.7) | 12 (54.6) | 5 (55.6) | 0.78 |
| Ex-smoker | 32 (45.1) | 14 (40.0) | 7 (31..8) | 3 (33.3) |
| Current smoker | 5 (7.0) | 5 (14.3) | 3 (13.6) | 1 (11.1) |
| Systolic blood pressure, mmHg; median (IQR) | 150 (130-160) | 153 (140-175) | 142.5 (120-164) | 150 (146-160) | 0.34 |
| Diastolic blood pressure, mmHg; median (IQR) | 85 (79-90) | 87 (76-97) | 89 (80-95) | 90 (80-100) | 0.62 |
| NIHSS score, median (IQR) | 12 (9-18) | 14 (9-19) | 16 (13-26) | 15 (8-18) | 0.39 |
| ASPECTS, median (IQR) | 7 (5-9) | 7 (6-8) | 7 (5-7) | 7 (6-8) | 0.50 |
| SVD features |  |  |  |  |  |
| VSS score of WMH, median (IQR) | 1 (0-2) | 2 (2-3) | 4 (3-4) | 4 (4-4) | <0.01 |
| Severe WMH | 0 (0) | 14 (40.0) | 21 (95.4) | 9 (100.0) | <0.01 |
| Lacune number, median (IQR) | 0 (0-0) | 1 (0-2) | 2 (1-4) | 2 (2-5) | <0.01 |
| Two or more lacunes | 0 (0) | 12 (34.3) | 15 (68.2) | 9 (100.0) | <0.01 |
| Cortical brain atrophy score, median (IQR) | 0 (0-0) | 1 (0-1) | 1 (0-1) | 1 (1-1) | <0.01 |
| Deep brain atrophy score, median (IQR) | 0 (0-0) | 1 (0-2) | 1 (0-1) | 2 (2-2) | <0.01 |
| Total brain atrophy score, median (IQR) | 0 (0-0) | 2 (1-3) | 2 (1-3) | 3 (3-3) | <0.01 |
| Severe brain atrophy | 0 (0) | 9 (25.7) | 8 (36.4) | 9 (100.0) | <0.01 |
| Occlusion site |  |  |  |  |  |
| Internal carotid artery | 19 (26.8) | 5 (14.3) | 1 (4.5) | 1 (11.1) | 0.07 |
| Middle cerebral artery M1 segment | 24 (33.8) | 13 (37.1) | 8 (36.4) | 4 (44.4) |
| Vertebrobasilar artery | 17 (23.9) | 15 (42.9) | 10 (45.4) | 1 (11.1) |
| Other intracranial arteries | 11 (15.5) | 2 (5.7) | 3 (13.6) | 3 (33.3) |
| Stroke subtype by TOAST criteria |  |  |  |  |  |
| Large artery atherosclerosis | 46 (64.8) | 20 (57.1) | 15 (68.2) | 8 (88.9) | 0.60 |
| Cardioembolism | 17 (23.9) | 13 (37.1) | 6 (27.3) | 1 (11.1) |
| Other or unknown etiology | 8 (11.3) | 2 (5.7) | 1 (4.6) | 0 (0) |
| Prior use of antiplatelet agents | 6 (8.4) | 10 (28.6) | 4 (18.2) | 2 (22.2) | 0.04 |
| Prior use of anticoagulants | 3 (4.2) | 2 (5.7) | 1 (4.6) | 0 (0) | 1.00 |
| Prior use of rt-PA | 19 (26.8) | 7 (20.0) | 2 (9.1) | 1 (11.1) | 0.33 |
| Use of heparin during the procedure | 22 (31.0) | 11 (31.4) | 8 (36.4) | 1 (11.1) | 0.58 |
| Use of GP2b3a inhibitor during the procedure | 47 (66.2) | 22 (62.9) | 15 (68.2) | 3 (33.3) | 0.26 |
| No. of EVT modalities used during the whole procedure |  |  |  |  |  |
| Stent retriever thrombectomy, median (IQR) | 1 (1-2) | 1 (1-3) | 1 (1-2) | 0 (0-0) | 0.02 |
| Aspiration thrombectomy, median (IQR) | 0 (0-1) | 0 (0-1) | 0 (0-1) | 0 (0-1) | 0.73 |
| IA thrombolysis, median (IQR) | 0 (0-0) | 0 (0-0) | 0 (0-0) | 0 (0-0) | 0.28 |
| Angioplasty, median (IQR) | 0 (0-1) | 0 (0-1) | 0 (0-1) | 0 (0-2) | 0.60 |
| Stenting, median (IQR) | 0 (0-1) | 0 (0-1) | 0 (0-1) | 0 (0-0) | 0.61 |
| Onset-to-puncture time, min; median (IQR) | 395 (305-618) | 360 (255-510) | 389 (285-620) | 585 (505-895) | 0.06 |
| Onset-to-recanalization time, min; median (IQR) | 501 (406-749) | 468 (357-664) | 539 (449-695) | 750 (575-949) | 0.07 |

ASPECTS, Alberta Stroke Program Early CT Score; GP2b3a, Glycoproteins 2b and 3a; IQR, interquartile range; IA, intra-artery; TOAST, Trial of Org 10172 in Acute Stroke Treatment. Values are numbers with percentages in parentheses, unless indicated otherwise.

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