**Supplementary Table 2.** Comparison of baseline characteristics between patients with and without delayed neurological improvement (DNI) after ischemic stroke

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| --- | --- | --- | --- |
|  | **Patients with DNI (n=150)** | **Patients without DNI (n=157)** | ***P-*value** |
| **Demographics** |  |  |  |
| Age [years]; median (IQR) | 71 (65-81) | 71 (62-81) | 0.837 |
| Females, *n* (%) | 77 (51.3) | 84 (53.5) | 0.704 |
| **Stroke risk factors** |  |  |  |
| Hypertension, *n* (%) | 109 (72.7) | 112 (71.3) | 0.795 |
| Diabetes mellitus, *n* (%) | 28 (18.7) | 34 (21.7) | 0.491 |
| Ischemic heart disease, *n* (%) | 25 (16.7) | 15 (9.6) | 0.064 |
| Atrial fibrillation, *n* (%) | 46 (30.7) | 42 (26.8) | 0.448 |
| Hypercholesterolemia, *n* (%) | 26 (17.3) | 26 (16.6) | 0.857 |
| Smoking, *n* (%) | 34 (22.7) | 34 (21.7) | 0.831 |
| History of stroke or TIA, *n* (%) | 18 (12) | 21 (13.4) | 0.717 |
| **Clinical characteristics** |  |  |  |
| Baseline NIHSS score, median (IQR) | 17 (12.8-20) | 16 (11-19) | 0.133 |
| Time from onset to puncture [minutes], median (IQR) | 270 (199-340) | 313 (239-380) | 0.002 |
| Intravenous thrombolysis, *n* (%) | 97 (64.7) | 83 (52.9) | 0.036 |
| Successful recanalization, (mTICI ≥2b), *n* (%) | 142 (94.7%) | 128 (81.5%) | <0.001 |
| Occlusion of ICA or tandem occlusion, *n* (%) | 23 (15.3) | 43 (27.4) | 0.010 |
| Blood glucose concentration [mmol/L], median (IQR) | 5.87 (4.98-7.13) | 6.3 (5.34-7.7) | 0.015 |
| WBC count [109/L], median (IQR) | 8,65 (7.27-11.08) | 9.34 (7.45-12.25) | 0.047 |
| NIHSS score on day 7, median (IQR) | 2 (1-5) | 12 (7-17) | <0.001 |
| Use of antiplatelets, *n* (%) | 41 (27.3) | 36 (22.9) | 0.374 |
| Use of anticoagulants, *n* (%) | 37 (24.7%) | 40 (25.5%) | 0.870 |
| **Radiological examination** |  |  |  |
| Baseline ASPECT score, median (IQR) | 8 (7-9) | 8 (6-9) | 0.479 |
| Penumbra volume [mL], median (IQR) | 99 (67.3-132.3) | 96 (56-128) | 0.469 |
| Infarct volume (CBF<30%) [mL] , median (IQR) | 8 (0-22) | 13 (0-32.5) | 0.019 |
| **Stroke-related complications** |  |  |  |
| Pneumonia, *n* (%) | 21 (14) | 48 (30.6) | <0.001 |
| Urinary tract infection, *n* (%) | 16 (10.7) | 42 (26.8) | <0.001 |
| Hemorrhagic transformation, *n* (%) | 25 (16.7) | 41 (26.1) | 0.044 |
| **Stroke etiology** |  |  |  |
| Cardioembolic, *n* (%) | 71 (47.3) | 62 (39.5) | 0.256 |
| Large vessel disease, *n* (%) | 28 (18.7) | 24 (15.3%) |
| Rare, *n* (%) | 4 (2.7) | 6 (3.8) |
| Undetermined, *n* (%) | 47 (31.3) | 65 (41.4) |
| **Outcomes** |  |  |  |
| Hospitalization time [days], median (IQR) | 9 (8-11) | 11 (9-15) | <0.001 |
| 90-day good functional outcome (mRS≤2), *n* (%) | 127 (84.7) | 65 (41.4) | <0.001 |
| 90-day case-fatality, *n* (%) | 8 (5.3) | 39 (24.8) | <0.001 |

Abbreviations: ASPECT - Alberta Stroke Programme Early CT Score; CBF - cerebral blood flow; ICA – internal carotid artery; IQR – interquartile range; mTICI - modified Thrombolysis in Cerebral Infarction; mRS – modified Rankin scale; NIHSS - National Institutes of Health Stroke Scale, TIA – transient ischemic attack; WBC – white blood cells