**Supplementary Table 1. Demographic data and perioperative variables of the study population**

| | NC cases (n = 161) | Non-NC cases (n = 2686) | *P* |
|---|---|---|---|
| **Demographic variables** | | | |
| Age, years | 60.6 ± 9.6 | 60.6 ± 8.8 | 0.985 |
| Sex, male | 54 (33.5%) | 789 (29.4%) | 0.300 |
| Weight, kg | 64.0 ± 11.4 | 63.8 ± 11.3 | 0.873 |
| Height, cm | 159.3 ± 8.9 | 159.2 ± 8.7 | 0.952 |
| BMI, $kg/m^2$ | 25.1 ± 3.4 | 25.1 ± 3.4 | 0.870 |
| Previous neurological disease | 33 (20.5%) | 224 (8.3%) | <0.001 |
| HTN | 92 (57.1%) | 1251 (46.6%) | 0.011 |
| DM | 26 (16.1%) | 321 (12.0%) | 0.145 |
| Cardiovascular disease | 6 (6.5%) | 84 (5.7%) | 0.931 |
| Renal disease | 2 (1.2%) | 17 (0.6) | 0.672 |
| **Intraoperative data** | | | |
| Operation time, min | 174.1 ± 70.6 | 141.1 ± 52.0 | <0.001 |
| Total crystalloids, mL | 1479.2 ± 552.0 | 1311.2 ± 458.5 | <0.001 |
| Transfusion | 27 (16.8%) | 145 (5.4%) | < 0.001 |
| Total mannitol, mL | 0.6 ± 7.9 | 2.8 ± 46.8 | 0.045 |
| Urine output, mL | 568.3 ± 487.1 | 532.0 ± 420.9 | 0.356 |
| **Laboratory variables** | | | |
| WBC, count | 6.4 ± 1.9 | 6.2 ± 1.6 | 0.134 |
| Hemoglobin, g/dL | 13.1 ± 1.6 | 13.1 ± 1.3 | 0.978 |
| PT, INR | 1.0 ± 0.1 | 1.0 ± 0.1 | 0.424 |
| Platelet, count | 238.7 ± 59.8 | 236.7 ±55.6 | 0.663 |
| Neutrophil, % | 55.7 ± 10.0 | 54.3 ± 9.1 | 0.049 |
| Lymphocyte, % | 34.4 ± 9.1 | 35.4 ± 8.3 | 0.109 |

| | | | |
|---|---|---|---|
| Sodium, mEq/L | 141.3 ± 2.2 | 141.2 ± 2.0 | 0.493 |
| Potassium, mEq/L | 4.3 ± 0.4 | 4.2 ± 0.3 | 0.433 |
| AST, U/L | 22.3 ± 6.8 | 23.0 ± 8.3 | 0.214 |
| ALT, U/L | 21.5 ± 11.1 | 21.6 ± 12.5 | 0.960 |
| Albumin, g/dL | 4.1 ± 0.4 | 4.1 ± 0.4 | 0.122 |
| Creatinine, mg/dL | 0.8 ± 0.5 | 0.8 ± 0.3 | 0.209 |
| CRP, mg/dL | 0.1 ± 0.1 | 0.2 ± 0.3 | 0.010 |
| **Aneurysm-related variables** | | | |
| Location | | | 0.006 |
| MCA | 49 (30.4%) | 1134 (42.2%) | |
| ACA, ACoA | 87 (54.0%) | 1127 (42.0%) | |
| PCoA, AChA, others | 25 (15.5%) | 425 (15.8%) | |
| Size, mm | 5.9 ± 4.2 | 4.8 ± 2.7 | 0.001 |
| Size classification | | | <0.001 |
| < 5 mm | 78 (48.4%) | 1654 (61.6%) | |
| 5–10 mm | 66 (41.0%) | 930 (34.6%) | |
| 10–25 mm | 14 (8.7%) | 97 (3.6%) | |
| >25 mm | 3 (1.9%) | 5 (0.2%) | |
| Multiplicity | 552 (20.6%) | 47 (29.2%) | 0.012 |

Results are expressed as mean ± SD, n (%).

NC, neurological complication; DM, diabetes mellitus; HTN, hypertension; MCA, middle cerebral artery; ACA, anterior cerebral artery; ACoA, anterior communicating artery; PCoA, posterior communicating artery; AChA, anterior choroidal artery; WBC, white blood count; PT, prothrombin time; INR, international normalized ratio; AST, aspartate transaminase; ALT, alanine transaminase; CRP, C-reactive protein.