

Supplementary Material

1 Supplementary Tables

Supplementary table 1 Demographics and Clinical Characteristics of SVDN and SVCI

| Characteristics | SVDN (N = 33) | SVCI (N = 40) | t / χ^2 / Z | P-value |
|--|------------------|-------------------|---------------------|---------|
| Age, y, mean \pm SD | 61.33 \pm 4.47 | 61.03 \pm 5.23 | 0.27 | 0.790 |
| Female, n (%) | 9 (27.2%) | 11 (27.5%) | 0.00 | 1.000 |
| Education, y, mean \pm SD | 12.64 \pm 2.70 | 12.15 \pm 2.53 | 0.79 | 0.430 |
| Hypertension, n (%) | 15 (45.4%) | 29 (72.5%) | 5.52 | 0.019* |
| Hyperlipemia, n (%) | 22 (66.6%) | 16 (40%) | 5.15 | 0.023* |
| Diabetes, n (%) | 10 (30.3%) | 17 (42.5%) | 1.15 | 0.283 |
| History of smoking, n (%) | 14 (42.4%) | 21 (52.5%) | 0.74 | 0.391 |
| FSRP score, mean \pm SD | 7.55 \pm 3.73 | 9.73 \pm 3.73 | -2.48 | 0.015* |
| MoCA, mean \pm SD | 26.30 \pm 1.65 | 17.35 \pm 4.40 | 11.07 | <0.001* |
| Lacune, n, median (interquartile range) | 0 (1-1) | 2 (1-6.75) | -4.75 | <0.001* |
| WMH volume, mL, median | 0.77 (0.27-1.62) | 2.39 (0.78-10.31) | -3.44 | 0.001* |
| Basal ganglia EPVS score, median (interquartile range) | 2 (1-2) | 2 (1-2) | -1.55 | 0.120 |
| Centrum semiovale EPVS score, median (interquartile range) | 1 (0-1) | 1 (0-1) | -0.87 | 0.385 |

SVDN, cerebral small vessel disease with normal cognition; SVCI, cerebral small vessel disease cognitive impairment; FSRP, Framingham Stroke Risk Profile; MoCA, Montreal Cognitive Assessment; WMH, white matter hyperintensities; EPVS, enlarged perivascular spaces; SD, standard deviation; *, the difference is statistically significant.

Supplementary table 2 Demographics and Clinical Characteristics of PSCN and PSCI

| Characteristics | PSCN (N = 14) | PSCI (N = 39) | t / χ^2 / Z | P-value |
|--|------------------|-------------------|---------------------|---------|
| Age, y, mean \pm SD | 61.50 \pm 5.46 | 62.28 \pm 5.46 | -0.46 | 0.648 |
| Female, n (%) | 3 (21.4%) | 9 (23.0%) | 0.02 | 0.899 |
| Education, y, mean \pm SD | 12.64 \pm 2.37 | 12.80 \pm 2.88 | -0.17 | 0.860 |
| Hypertension, n (%) | 7 (50.0%) | 27 (69.2%) | 1.66 | 0.198 |
| Hyperlipemia, n (%) | 4 (28.5%) | 16 (41%) | 0.68 | 0.410 |
| Diabetes, n (%) | 5 (35.7%) | 18 (46.1%) | 0.46 | 0.499 |
| History of smoking, n (%) | 11 (78.5%) | 26 (66.6%) | 0.70 | 0.405 |
| FSRP score, mean \pm SD | 9.50 \pm 2.96 | 11.21 \pm 4.73 | -1.26 | 0.214 |
| MoCA, mean \pm SD | 25.43 \pm 1.40 | 14.82 \pm 5.17 | 7.54 | <0.001* |
| Lacune, n, median (interquartile range) | 3 (1-4.25) | 5 (3-9) | -4.75 | 0.012* |
| WMH volume, mL, median | 3.11 (1.22-6.09) | 6.66 (2.31-16.44) | -3.44 | 0.079 |
| Basal ganglia EPVS score, median (interquartile range) | 1 (1-2) | 2 (2-2) | -1.55 | 0.001* |
| Centrum semiovale EPVS score, median (interquartile range) | 1 (1-1) | 1(0-1) | -0.87 | 0.100 |

PSCN, post-stroke cognitively normal; PSCI, post-stroke cognitive impairment; FSRP, Framingham Stroke Risk Profile; MoCA, Montreal Cognitive Assessment; WMH, white matter hyperintensities; EPVS, enlarged perivascular spaces; SD, standard deviation; *, the difference is statistically significant.