

## Supplemental Material S1.

PWA detailed neuroimaging information.

| #  | # of CVAs | Neuroimaging Information                                                                                                                                                           |
|----|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 1         | L MCA; L frontal                                                                                                                                                                   |
| 2  | 1         | L MCA and segment of ACA ; L basal ganglia aspect, L frontal                                                                                                                       |
| 3  | 1         | L temporal lobe; posterior periventricular region                                                                                                                                  |
| 4  | 1         | L MCA centered at level of basal ganglia                                                                                                                                           |
| 5  | 1         | L                                                                                                                                                                                  |
| 6  | 1         | L MCA; cortical/subcortical territory; inf/posterior L frontal; L parietal; sparing L temporal                                                                                     |
| 7  | 1         | L                                                                                                                                                                                  |
| 8  | 1         | L temporal                                                                                                                                                                         |
| 9  | 2 or 3    | -                                                                                                                                                                                  |
| 10 | 2         | L basal ganglia intraparenchymal hematoma, extending into subarachnoid space                                                                                                       |
| 11 | 1         | L deep motor cortex                                                                                                                                                                |
| 12 | 1         | L                                                                                                                                                                                  |
| 13 | 1         | L MCA; L fronto-temporal, parietal; L basal ganglia; shift of midline to R                                                                                                         |
| 14 | 1         | L MCA; L middle/superior temporal gyri, majority of left insular cortex, posterior aspects of left inferior and middle frontal gyri, large portions of parietal and occipital lobe |
| 15 | 1         | L MCA                                                                                                                                                                              |
| 16 | 1         | deep L internal capsule, adjacent posterior aspect of L basal ganglia                                                                                                              |
| 17 | 1         | L posterior temporal lobe                                                                                                                                                          |
| 18 | 1         | L                                                                                                                                                                                  |
| 19 | 1         | L MCA; L frontal                                                                                                                                                                   |

*Note:* L = left hemisphere; R = right hemisphere; MCA = middle cerebral artery; ACA = anterior cerebral artery. WAB subtests: AC = auditory verbal comprehension; AQ = aphasia quotient.