

## **Supplementary materials**

File S1. Lesion sites, number of subjects and percentage in the sample:

- 1 (2.7%) frontal+parietal+temporal+basal ganglia
- 1 (2.7%) frontal+parietal+thalamus+basal ganglia
- 1 (2.7%) frontal+temporal+thalamus
- 1 (2.7%) parietal+temporal+insula
- 1 (2.7%) frontal+temporal+insula
- 1 (2.7%) temporal+basal ganglia+corona radiata
- 1 (2.7%) frontal+ temporal+occipital
- 1 (2.7%) frontal+parietal+thalamus
- 1 (2.7%) frontal+temporal+thalamus
- 1 (2.7%) frontal+posterior mesial frontal
- 1 (2.7%) frontal+basal ganglia
- 1 (2.7%) parietal+temporal
- 2 (5.4%) basal ganglia+capsula
- 2 (5.4%) thalamus+basal ganglia
- 1 (2.7%) thalamus+pyramidal tracts
- 1 (2.7%) basal ganglia+internal capsule
- 1 (2.7%) subcortical-mid-brain
- 1(2.7%) pons+mid-brain right
- 1 (2.7%) temporal
- 3 (8.1%) frontal
- 2 (5.4%) parietal
- 6 (16.2%) basal ganglia
- 1 (2.7%) subtentorial lacunar ischemic stroke
- 1 (2.7%) brain stem

1 (2.7%) right posteriore limb of the internal capsule

2 (5.4%) cerebellum

Table S1. Token Test (TT) errors (subparts I to V) by age groups. Data are reported as median [interquartile range].

	Age <71 years (N=12)	Age 71-81 years (N=12)	Age>81 years (N=13)
TT subpart I	0 [0]	0 [0]	0 [1]
TT subpart II	0 [0]	0.5 [1]	0 [3]
TT subpart III	0 [0]	0 [0]	2 [2]
TT subpart IV	0 [0]	1.5 [3]	3 [5]
TT subpart V	1 [2]	1 [5]	5 [4]