Stroke induced the transient cognitive impairment alongside the slowing of EEG alpha.

Stroke highly synchronized EEG alpha above the overall ipsi-lesional hemisphere.

Stroke highly synchronized EEG alpha inter-hemispherically above the frontal cortex.

Post-stroke frontal inter-hemispheric “alpha flow” presents a compensatory phenomenon.

EEG alpha slowing, alpha synchronization and “flow” are possible biomarkers of stroke.