



**Supplementary Figure 2.** Classification of white matter changes according to acute infarction. In patients with acute left middle cerebral artery territory infarction, the left side white matter changes were not classified as "white matter hyperintensity (WMH)" because this area was overlapped with the acute infarction area. In contrast, the right side white matter changes were regarded as high-grade periventricular WMH and a cavitary lesion on right side were classified as an asymptomatic lacunar infarction (ALI).