

## Underrepresentation of Right Middle Cerebral Infarct: A Statistical Parametric Mapping

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**Abstract :** Prior studies have shown that patients with right hemispheric stroke are likely to seek medical service compared with those with left hemispheric stroke. However, the underlying mechanism for this phenomenon is unknown. In the present study, we generated lesion probability maps in a patient with right and left middle cerebral artery infarct and statistically compared. We found that precentral gyrus-Brodmann area 44, a language area in the left hemisphere - involvement was significantly higher in patients with left hemispheric stroke. This finding suggests that a language dysfunction was more noticeable, thereby taking more patients to hospitals.

**Keywords :** cerebral infarct, brain MRI, statistical parametric mapping, middle cerebral infarct

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