Reviewer's report

Title: Acute infarct of the corpus callosum presenting as alien hand syndrome: evidence of diffusion weighted imaging and magnetic resonance angiography

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Reviewer: Shinichiro Maeshima

Reviewer's report:

This case report described a patient with alien hand syndrome (AHS) with infarcts of the corpus callosum. There has been reported but not so many, therefore we think this report is important. The author should describe a more detailed symptom. If there is few data in the medical records, the author should describe it accurately.

# Case description

Especially, the author should describe......

- Educational history (or years) of the patient
- Presence or absence of amnesia, disorientation, callosal symptom (agraphia in left hand, ideomotor/ideational apraxia in left hand, tactile naming in left hand, alexia in left visual field, constructional apraxia and/or neglect in right hand,....).
- Results of standard neurological tests such as Wechsler adult intelligence scale (IIIrd?), Wechsler Memory Scale (revised?), or otherwise Mini-mental state (Folstein, 1974).

These findings help locate the damaged cortex.

Left hemiparesis, clumsiness, hemianesthesia and Babinski's sign are not neuropsychological sign but neurological sign.

"Activities of daily living (ADLs) were severely impaired." The author should describe the point where the patient becomes a problem in daily life in detail.

# Figure and table

MRI lesions in this patient

Are not there any lesion in other slice of MRI? If so, please add them. Furthermore, add to figure if there is MRI of the sagittal slice which can be easily found lesion in corpus callosum.

# Discussion

I think it wonderful that the point of alien hand is put in order on this paper. Please explain the mechanism caused by this lesion.

Level of interest: An article whose findings are important to those with closely
related research interests

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests’ below.