A 78-year-old woman developed sudden-onset confusion and memory impairment. Examination demonstrated both retrograde and anterograde amnesia. Mini-Mental State Examination score of 17 exhibited poor performance in delayed recall and orientation function. Brain diffusion-weighted imaging revealed an acute infarction of the anterior fornix. Repeat T1-weighted images at 17 days after onset showed hypointense lesions in the same region. Meanwhile, diffusion tensor tracking was performed and demonstrated that few fibers were followed (figure), using Siemens (Munich, Germany) Syngo software with the measures of fractional anisotropy threshold 0.15 and angle 30. The fornix constitutes a core element of the Papez circuit¹² and acute amnesia was the result of damaged fiber tracts following anterior fornix infarction in this patient.
Author contributions
Dr. Qing Yong Zhu: study concept and design, drafting the manuscript. Dr. Hong Can Zhu: revising the manuscript, interpretation of data. Dr. Cheng Ru Song: analysis and acquisition of radiologic data.

Study funding
No targeted funding reported.

Disclosure
The authors report no disclosures relevant to the manuscript. Go to Neurology.org/N for full disclosures.

References

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Qing Yong Zhu, Hong Can Zhu and Cheng Ru Song

*Neurology* 2018;90;706-707
DOI 10.1212/WNL.0000000000005306

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