

## Figure legend

Figure1 Serial magnetic resonance imaging of the patient with teratoma at different disease stage.

A-D was taken 1 month after cognitive impairment onset. Bilateral hippocampal hyperintensity was shown obviously on T2 (A) and T2-FLAIR (B), without restricted diffusion (C) and enhancement (D). E and F were repeated images 3 months after cognitive impairment onset, which presented reduced swelling of the bilateral hippocampus on T2 (E) and T2-FLAIR (F) sequence, slightly better than the initial one. G-J were taken 5 months after cognitive impairment onset. T2 (G) and T2-FLAIR (axial (H) and coronal (I)) only presented slightly right hippocampal hyperintensity without swelling and no progressive cerebral atrophy was observed comparing with the former two reviews. Arterial spin labeling (J) showed slightly decreased blood flow on the left temporal lobe.

Figure 2 Immunohistochemistry staining of LGI1 in teratoma tissue of the patient with teratoma. A ( $\times 100$ ) and B ( $\times 200$ ) shows abundant thyroid gland structure in teratoma tissue and the thyroid cells were positively stained. C ( $\times 40$ ) and D ( $\times 200$ ) shows widespread of teratoma tissue was positively stained.