**Online supplementary materials S1.** Lesion location of the patients with rapid forgetting (RF) and the patients with accelerated long-term forgetting (ALF).

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| **Participant** | **Lesion volume** | **Hemisphere** | **Location** |
| **RF** |  |  |  |
| AS011 | 409 | left | Internal capsule, occipital lobe |
| AS044 | 7344 | right | Occipital lobe |
| AS051 | 28609 | right | Temporo-frontal lobe, internal capsule |
| AS060 | 78789 | bilateral | Left parietal lobe, right frontal lobe |
| AS074 | 1077 | left | Internal capsule |
| GS076 | 137487 | right | Temporal and medial temporal lobe |
| GS087 | 874 | right | Dorsolateral prefrontal cortex |
| NS004 | 2555 | left | Occipital lobe |
| NS059 | 7885 | right | Arcuate fasciculus and cortico-spinal tract |
| **ALF** |  |  |  |
| AS007 | 49521 | right | Parieto-occipital lobe, including premotor cortex and internal capsule |
| AS008 | 85122 | right | Temporo-frontal lobe, including internal capsule |
| AS018 | 4842 | left | Occipital lobe and premotor cortex |
| AS019 | 1090 | left | Cortico-spinal tract |
| AS047 | 101 | right | Premotor cortex |
| AS075 | 3736 | right | Internal capsule |
| GS093 | 6212 | right | Internal capsule |
| NS020 | 2792 | bilateral | Left premotor cortex, bilateral occipital lobe, bilateral cerebellum |
| NS048 | 170 | left | Inferior parietal lobe |
| NS052 | 6970 | bilateral | Left internal capsule, bilateral medial temporal cortex, right occipital lobe |