



**Supplementary Figure 1.** The clinical procedure of this case. A: The preoperative time course of dyskinesia and theoretical plasma L-Dopa concentration. B: The axial T2-weighted MRI suggested a localized signal abnormality in the left STN sensorimotor area. C: Deep brain stimulation electrode's location implanted in the left GPi and the right STN. D: Parameters of chronic interleaved stimulation at the 6-month follow-up. E: Parameters of chronic interleaved stimulation at the 12-month follow-up. STN, subthalamic nucleus; GPi, globus pallidus interna.