Patients who received bilateral GPi-DBS for genetically confirmed PKAN between March 2005 and June 2021 at SNUH (n = 9) and AMC (n = 1).

Preoperative BFMDRS-M available?

Yes: SNUH (n = 9) AMC (n = 1)

No: None excluded

Postoperative clinical follow-up ≥ 2 yr

Yes: Included in the final analysis (n = 10) SNUH (n = 9) AMC (n = 1)

No: None excluded

Supplementary Figure 1. Flowchart of the study patients. Patients with genetically confirmed PKAN with a clinical diagnosis of neurodegeneration with brain iron accumulation (NBIA) who received bilateral GPi-DBS for moderate to severe medically intractable dystonia were eligible for the study. Patients who were evaluated for BFMDRS-M score by a movement disorder specialist before surgery and had information available regarding clinical status after DBS implantation for ≥ 2 years postoperatively were included. GPi-DBS, globus pallidus internus deep brain stimulation; PKAN, pantothenate kinase-associated neurodegeneration; SNUH, Seoul National University Hospital; AMC, Asan Medical Center; BFMDRS-M, Burke–Fahn–Marsden Dystonia Rating Scale motor subscale.