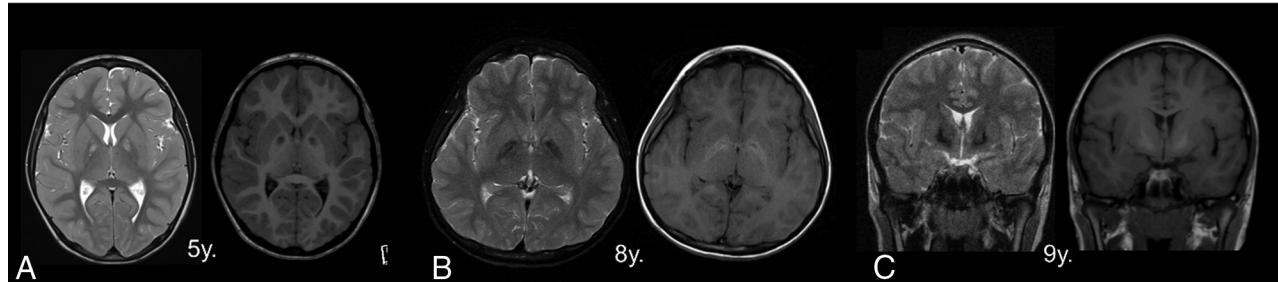
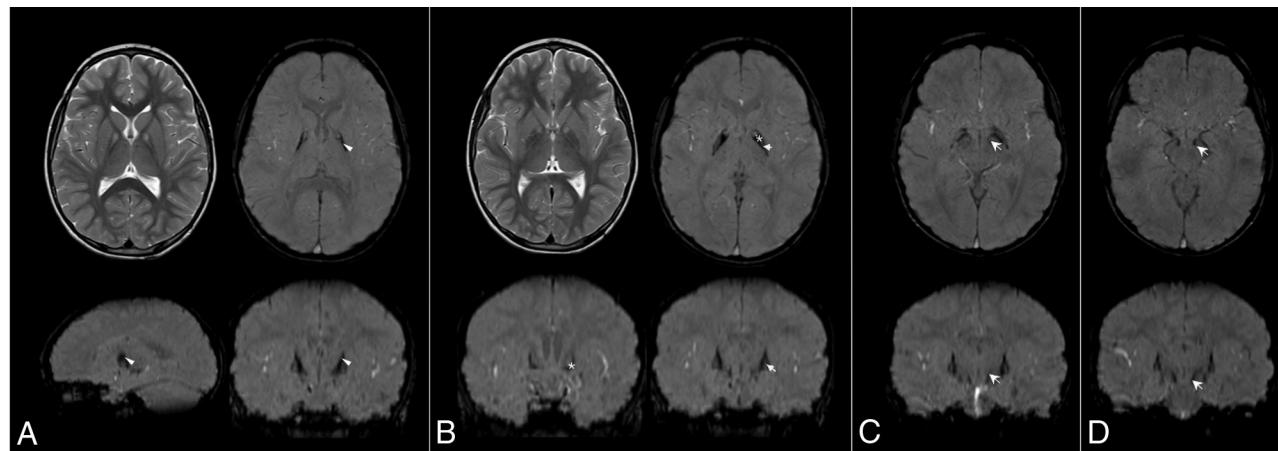


ON-LINE FIG 1. The eye-of-the-tiger sign. Axial T2-weighted images at level I and just above level II of the anterior commissure and coronal images (level III) from 2 patients with PKAN (patient A, 5 years of age; patient B, 9 years of age) and a healthy control (8 years of age) at 3T MR imaging. The isolated T2-hyperintense center in the GP is defined as “hyperintense center” surrounded by isointense signal relative to the adjacent internal capsule (patient A). a indicates the round hyperintense center; b, the surrounding hypointense area.



ON-LINE FIG 2. Signal changes on T1-weighted images. T1 hypointensity is observed isolated in the T2-hyperintense center (A). T1-hyperintensity in the surrounding area is correlated with the T2-hypointensity in the corresponding area on axial and coronal T2-weighted images (B and C).



ON-LINE FIG 3. Patient (5 years of age, 1.5T MR imaging) with isolated globus pallidus hyperintensity on T2-weighted images (A and B). Marked hypointense signals related to iron accumulation are seen in the GP with a marked medial-to-lateral gradient (A, arrowhead; B, arrow and asterisk), the anteromedial aspect of the subthalamic nucleus (C, arrow), and the substantia nigra (D, arrow) on SWI.

On-line Table: Clinical and MRI data of patients with PKAN

Pt.	Sex	Age at MRI (yr)	Duration (yr)	Clinical Features		Subtype	<i>PANK2</i> Mutations	MRI Field Strength	T2WI Hyperintense Center	T2WI Surrounding Intensity	SWI Hypointensity
1	M	1.9	1.25	Developmental delay		Classic	c.1097delC, c.683T>C	1.5T	Linear streak	Isointense	None
2	F	5	2	Developmental delay, dystonia, retinopathy		Classic	c.1231G>A (homozygous)	1.5T	Round	Isointense	M>>L
3	F	5	3	Developmental delay, dystonia, choreoathetosis		Classic	c.1301C>A (homozygous)	1.5T	Round	Isointense	M>>L
4	F	5	3	Dystonia		Classic	c.1561G>A (heterozygous)	1.5T	Round	Isointense	M>>L
5	F	8	5	Developmental delay, dystonia		Classic	c.1257del, c.1319G>C	1.5T	Round	Hypointense	M>L
6	M	9	ND	Dystonia, ND		Classic	c.1231G>A, c.1253C>T	1.5T	Round	Hypointense	M>L
7	M	16	1	Dystonia		Atypical	c.999A>G, c.1270_1272del	1.5T	Round	Hypointense	M = L
8	F	3	1	Developmental delay, dystonia, spasticity, retinopathy		Classic	c.215_216insA (homozygous)	3T	Linear streak	Isointense	Subtle
9-I	F	1.8	1	Developmental delay, OCD, seizure dystonia, spasticity, retinopathy		Classic	c.658G>T, c.981+3A>G	3T	Suspicious streak	Isointense	None
9-II		4	3.2	Developmental delay, dystonia, retinopathy		Classic	c.524delT, c.1319G>C	3T	Round	Isointense	M>>L
10	M	4	1.5	Developmental delay, dystonia		Classic	c.1154_1155insT, c.1319G>C	3T	Round	Isointense	M>>L
11	F	5	2	Developmental delay, dystonia, retinopathy		Classic	c.1273_1275delCTT, c.1676C>G	3T	Round	Isointense	M>>L
12	M	9	6	Developmental delay, dystonia		Atypical	c.999A>G, c.1270_1272del	3T	Round	Hypointense	M>L
13	M	17	2	OCD, dystonia		Atypical	c.1231G>A, c.1255A>G	7T	Round	Hypointense	M = L
14	M	27	16	Learning disorders, dystonia, spasticity, dysarthria		Atypical	c.1231G>A, c.1255A>G	7T	Absent	Hypointense	M = L
15	F	29	15	Learning disorders, depression, dystonia, parkinsonism, dysarthria, dysphagia		Atypical	c.1231G>A, c.1255A>G	7T	Absent	Hypointense	M = L

Note.—Pt. indicates patient number; 9-I, initial MRI in Pt. 9; II, follow-up MRI in Pt. 9; OCD, obsessive compulsive disorders; ND, not determined; M, hypointensity in the medial GP; L, hypointensity in the lateral GP; >, >>, markedly noticeable difference; <, less noticeable difference; =, no difference.