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CORRECTION

Correction to: Metachromatic leukodystrophy with late adult-onset: diagnostic clues and differences from other genetic leukoencephalopathies with dementia

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The original version of this article unfortunately contained a mistake. The subtitle of the lower part of the table 1 is "Genetic leukoencephalopathies with dementia as predominant features" and not "Genetic leukoencephalopathies with dementia as prominent features".

The correct version of Table 1 is given in the next page.

The original article has been corrected.

The original article can be found online at https://doi.org/10.1007/s00415-020-10374-9.

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Table 1 Genetic leukoencephalopathies with dementia/cognitive impairment as prominent (upper part) or predominant (lower part) feature. Additional clinical findings and distinctive imaging features useful for the differential diagnosis are reported

Disease	OMIM	Gene	Inheritance	Additional clinical features	Distinctive brain imaging features[a]
Genetic leukoencephalopathies with dementia as *prominent* feature					
Cerebral small vessel diseases				Recurrent strokes, young age at onset, family history, consanguinity	Lacunar infarcts, microbleeds, enlarged perivascular spaces [S1]
Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy 1 (CADASIL 1)	#125310	*NOTCH3*	AD	Migraine, mood disorders, encephalopathy	Anterior temporal pole involvement [S1]
Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy (CARASIL)	#600142	*HTRA1*	AR	Mood disorders, premature alopecia, spondylosis deformans	Linear T2 hyperintense lesion in external capsules, T2 hyperintense arc-shaped lesion from pons to middle cerebellar peduncles, anterior temporal pole involvement [S1, S2]
Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy 2 (CADASIL2)	#616779	*HTRA1*	AD	Migraine, mood disorders, encephalopathy, alopecia, lumbar spine problems	Anterior temporal pole involvement [S1]
Brain small vessel disease 1 with or without ocular anomalies (BSVD1)	#175780	*COL4A1*	AD	Visual defects	Macrobleeds, cystic cavities, aneurisms, CT subtle periventricular calcifications [S1, S3, S4]
Pontine autosomal dominant microangiopathy and leukoencephalopathy (PADMAL)	#618564	*COL4A1*	AD		Predominant pons involvement [S5]
Retinal vasculopathy with cerebral leukodystrophy (RVCL)	#192315	*TREX1*	AD	Seizures, visual defects, Raynaud phenomena, renal disease, muscle cramps	Large contrast-enhanced WM lesions, calcifications [S6]
Leukoencephalopathy with brain calcifications and cysts; LCC	#614561	*SNORD118*	AR	Seizures, ataxia, spasticity, dystonia	Calcifications and cysts [S7]
Cerebroretinal microangiopathy with calcifications and cysts (CRMCC1)	#612199	*CTC1*	AR	Seizures, ataxia, spasticity, dystonia, visual defects, osteopenia, GI bleedings	Calcifications and cysts [S8]
Cathepsin-A-related arteriopathy with strokes and leukoencephalopathy (CARASAL)[b]		*CTSA*	AD	Migraine, mood disorders	Macrobleeds, involvement of brainstem (especially pons), thalami, basal nuclei, internal and external capsules [S9, S10]
Neuronal ceroid lipofuscinosis 1 (CLN1)	#256730	*PPT1*	AR	Ataxia, visual defects	Cerebellar and cerebral atrophy [S11]
Neuronal ceroid lipofuscinosis 4A (CLN4A)	#204300	*CLN6*	AR	Ataxia, myoclonic epilepsy	Cerebellar and cerebral atrophy [S12]
Leukoencephalopathy with vanishing white matter (VWM)	#603896	*EIF2B1-B5*	AR	Ataxia, spasticity, ovarian failure	Rarefaction, cystic cavities, high DWI signal in abnormal noncystic regions [S13, S14]
Frontotemporal dementia, chromosome 3-linked (FTD3)	#600795	*CHMP2B*	AD		Prominent cortical atrophy [S15]
Brain abnormalities, neurodegeneration, and dysosteosclerosis (BANDDOS)	#618476	*CSF1R*	AR	Ataxia, spasticity, bone sclerosis	Calcifications, malformations [S16]
3-Methylglutaconic Aciduria type I (MGCA1)	#250950	*AUH*	AR	Ataxia, spasticity, visual defects	U-fibers involvement, sparing of a WM periventricular rim [S17]

Table 1 (continued)

Genetic leukoencephalopathies with dementia as *predominant* feature					
Disease	OMIM	Gene	Inheritance	Additional clinical features	Additional brain imaging features[a]
Hereditary diffuse leukodystrophy with spheroids (HDLS)	#221820	*CSF1R*	AD	Parkinsonism, spasticity	Asymmetric fronto-parietal involvement, marked corpus callosum thinning, small DWI spots, CT periventricular and subcortical calcifications ("stepping stones" appearance) [S18, S19]
Metachromatic leukodystrophy (MLD)	#249900	*PSAP*	AR	Spasticity, peripheral demyelinating neuropathy[c]	Prominent frontal involvement, sparing of peri-rolandic areas and internal capsules' posterior limbs [1]
	#250100	*ARSA*			
Polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOS) 1 and 2	#221770	*TYROBP*	AR	Bone pain/fractures with cysts at epiphyseal regions of bones extremities	Mild diffuse T2 hyperintensity, marked cerebral atrophy mainly in the frontal lobes, basal ganglia (micro-) calcifications [S20]
	#618193	*TREM2*			
Neuronal intranuclear inclusion disease (NIID)	#603472	*NOTCH2NLC*	AD	Ataxia, peripheral demyelinating-axonal neuropathy; almost exclusively seen in Asian patients	High DWI signal at corticomedullary junction, middle cerebellar peduncles involvement [S21]
Progressive leukoencephalopathy with ovarian failure (LKENP)	#615889	*AARS2*	AR	Ataxia, spasticity, premature ovarian failure	Asymmetric fronto-parietal involvement, focal signal abnormalities in the corpus callosum, small DWI spots [S19, S22]
Frontotemporal lobar degeneration with TDP43 inclusions, GRN-related[b]	#607485	*GRN*	AD		Prominent cortical atrophy [S23]

AD: autosomal dominant; AR: autosomal recessive; DWI: diffusion-weighted imaging; GI: gastrointestinal; Mi: mitochondrial; WM: white matter; XLR: X-linked recessive

[a]References reported in Online Resource 2

[b]Disease not found by OMIM search (see Online Resource 1 for details), but included in the differential diagnosis based on authors' experience

[c]No peripheral neuropathy was found in the present case at electrophysiological studies