

DYSTONIA WITH OPHTHALMOLOGICAL ABNORMALITIES

Supranuclear gaze palsy

Vertical gaze

Kufor-Rakeb syndrome (often upward gaze first)

Niemann-Pick Type C (often downward gaze first)

Progressive supranuclear palsy (often saccadic slowing before restriction)

Tau-gene associated frontotemporal dementia and parkinsonism

SPG7 (paraplegin)

SPG11

Phospholipase A2 associated neurodegeneration (PLAN) (PLA2G6 mutations)

Pantothenate kinase associated neurodegeneration (PKAN) (pantothenate kinase mutations)

FBXO7 mutations

Phosphoglycerate kinase deficiency

Glutaric aciduria

Prion disease

Kernicterus

Multidirectional

Huntington's disease

Spinocerebellar ataxias (especially SCA2 and SCA3)

Neuroacanthocytosis

AFG3L2 homozygous mutations

Oculomotor apraxia

Corticobasal degeneration

Ataxia-telangiectasia

Ataxia-oculomotor apraxia type 1

Ataxia-oculomotor apraxia type 2

Ataxia-telangiectasia like syndrome

GM2 gangliosidosis

Progressive external ophthalmoplegia

Mitochondrial disease

Retinal abnormalities

Cherry red spot

GM1 gangliosidosis

GM2 gangliosidosis

Pigmentary retinopathy

Mitochondrial disease

Pantothenate kinase associated neurological disease

Aceruloplasminemia

Metachromatic leukodystrophy

SCA7

Optic atrophy

Mitochondrial protein associated neurological disease (MPAN)

Mohr-Tranebjærg syndrome (DDP1 gene mutations)

SPG7 (paraplegin)

Metachromatic leukodystrophy

Methylmalonic aciduria

CASK mutations

Retinal telangiectasia/angiomas

Cerebroretinal microangiopathy with calcifications and cysts

Cataracts

Wilson's disease

Homocystinuria

Cerebrotendinous xanthomatosis

Mitochondrial disease

FBXO7 mutations

Corneal abnormalities

Wilson's disease (Kayser-Fleischer rings)

GM1 gangliosidosis (corneal clouding)

Xeroderma pigmentosum (corneal opacification, neoplasms)