

## Scoring severity of brain MRI findings<sup>1</sup>

Cervical MRI	Findings
T2-weighted imaging hyperintense areas	0 = No hyperintense lesions P1 = Hyperintense lesions confined to periventricular WM P2 = hyperintense lesions at periventricular and subcortical WM
D = Hyperintense diffuse changes in WM signal perivascular spaces enlargement at the WM, BG+T, and CC	0 = None 1 = PVS number <10 and PVS size <3 mm 2 = PVS number ≥10 and PVS size <3 mm 3 = PVS number ≥10 and PVS size ≥3 mm
Cortical atrophy	0 = None 1 = Mild widening of the sylvian fissure and/or the interhemispheric fissure ≤3 mm 2 = Moderate widening of the sylvian fissure and/or the interhemispheric fissure >3 to >5 mm 3 = Severe widening of the sylvian fissure and/or the interhemispheric fissure ≥5 mm
Supratentorial ventricles enlargement	0 = None 1 = Width of III ventricle <5 mm, without temporal horn dilatation 2 = Width of the III ventricle between 5 and 10 mm and temporal horn dilatation 3 = Width of the III ventricle >10 mm
Sella Turcica enlargement	Not present Present
Optic nerve sheath enlargement	0 = Nerve sheath diameter ≤5.7 mm 1 = Unilateral nerve sheath diameter >5.7 mm 2 = Bilateral nerve sheath diameter >5.7 mm

Adapted from Lachman, *J Pediatr Rehabil Med*, 2010.

Abbreviations: BG+T, basal ganglia/thalamus; CC, corpus callosum; MRI, magnetic resonance imaging; PVS, perivascular space; WM, white matter.

**Reference:** 1. Lachman R, Martin KW, Castro S, Basto MA, Adams A, Teles EL. Radiologic and neuroradiologic findings in the mucopolysaccharidoses. *J Pediatr Rehabil Med*.

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