

Common brain and spinal MRI abnormalities seen in patients with MPS¹

	MPS I-H	MPS I-H/S	MPS I-S	MPS II	MPS IIIA	MPS IIIB	MPS IIIC	MPS IIID	MPS IVA	MPS IVB	MPS VI	MPS VII	MPS VII
Signal alterations	+++	++	++	+++	++	++	—	+	±	±	+	++	—
Enlarged PVS	+++	++	++	+++	++	++	—		—	—	++	—	—
Hydrocephalus/ ventriculomegaly	+++	++	++	+++	++	+	—	±	±	—	+	—	—
Atrophy	++	+	+	+++	+	+++	—	+	—	—	+	—	—
Spinal stenosis	++	++	++	+	+	—	—	—	+++	+++	+++	+	—

+++ Constant ++ Frequent + Less frequent ± Rare — Not described in the literature to our knowledge

Adapted from Zafeiriou, *Am J Neuroradiol*, 2013.

Abbreviations: MPS, mucopolysaccharidoses; MPS I-H, Hurler syndrome; MPS I-H/S, Hurler-Scheie syndrome; MPS I-S, Scheie syndrome; MRI, magnetic resonance imaging; PVS, perivascular space.

Reference: 1. Zafeiriou DI, Batziou SP. Brain and spinal MR imaging findings in mucopolysaccharidoses: a review. *AJNR Am J Neuroradiol*. 2013;34(1):5-13. doi:10.3174/ajnr.A2832.