

Common neurological features of MPS by subtype ¹

Neurologic findings	MPS I-H	MPS I-H/S	MPS I-S	MPS II, severe	MPS II, mild	MPS III	MPS IV	MPS VI	MPS VII
Developmental delay	++	+	—	++	—	++	—	—	++
Behavioral disturbances	—	—	—	++	—	++	—	—	—
Seizures	—	—	—	++	—	++	—	—	+
Hydrocephalus	++	+	—	++	+	++	+	++	—
Brain atrophy	+	—	—	++	—	++	—	—	—
Arachnoid cysts	+	+	+	+	+	+	—	+	—
Cystic lesions	++	+	+	++	+	+	—	++	—
Sensorineural deafness	++	++	++	++	++	++	+	++	+
Papilledema/optic atrophy	++	++	—	++	++	+	—	++	+
C1-C2 sublux./cord comp.	+	—	—	—	—	—	++	+	+
Pachymeningitis cervicalis	+	++	+	—	+	—	—	++	—
Carpal tunnel syndrome	++	++	++	++	++	—	+	++	—

++ common + frequent — rare or unreported

Adapted from Kakkis, *Principles of child neurology*, 1996.

Abbreviations: MPS, mucopolysaccharidosis; MPS I-H, mucopolysaccharidosis Hurler syndrome; MPS I-H/S, mucopolysaccharidosis Hurler Scheie syndrome; MPS I-S, mucopolysaccharidosis Scheie syndrome.

Reference: 1. Kakkis ED, Neufeld EF. The mucopolysaccharidoses. In: Berg BO, ed. *Principles of child neurology*. New York, NY: McGraw-Hill; 1996:1141-1166.