

Overview of MPS types and key respiratory manifestations^a

Type	Eponym	Upper airway obstruction	Lower airway obstruction	Restrictive lung disease
I	A: Hurler B: Hurler-Scheie C: Scheie	+++	+++	+++
II	Hunter	+++	+++	++
III	Sanfilippo (A-D)	minimal	minimal	minimal
IV	Morquio (A and B)	++	+	+++
VI	Maroteaux-Lamy	+++	+++	++
VII	Sly	+++	+++	++
IX ^a	Natowicz			

Adapted from Muhlebach, *Paediatr Respir Rev*, 2011.

^aMPS IX has been reported in a single patient who presented with severe joint abnormalities and ENT manifestations.