

Overview of MPS types and key respiratory manifestations¹

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.

Abbreviation: MPS, mucopolysaccharidoses.

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

Reference: 1. Muhlebach MS, Wooten W, Muenzer J. Respiratory manifestations in mucopolysaccharidoses. *Paediatr Respir Rev*. 2011;12(2):133-138. doi:10.1016/j.prrv.2010.10.005.