## Anesthetic risk: levels and causes9

MPS	Risk level	Multisystem impairment
I-H (Hurler) II (Hunter)	Very high High	<ul> <li>Potential obstruction of the upper airway</li> <li>Difficult intubation</li> <li>Presence of thick secretion in the airway</li> <li>Possible cardiac impairment</li> <li>Possible odontoid hypoplasia</li> </ul>
I-S (Scheie) I-H/S (Hurler–Scheie)	Mildly high High	Typical problems of I-H (I-H/S) Risk of postoperative apnea Heart disease (in particular aortic insufficiency)
III (Sanfilippo)	Generally not increased	
IV (Morquio) VII (Sly)	Very high	<ul> <li>Odontoid hypoplasia</li> <li>Difficult intubation</li> <li>Possible alteration of the rib cage</li> <li>Possible aortic insufficiency</li> </ul>
VI (Maroteaux-Lamy)	High	<ul> <li>Cardiomyopathy</li> <li>Severe kyphoscoliosis</li> <li>Thrombocytopenia</li> <li>Possible odontoid hypoplasia</li> <li>Delayed awakening</li> </ul>

Adapted from Spinello, ISRN Anesthesiol, 2013.