

Supplementary Data

Table S1. Characterization of deceased patients

MPS	Age of Diagnosis	Age of onset of ERT	Period or ERT (weeks)	Age at death	Cause
MPS I – Hurler	2y	2y4m	148	5y6m	Anesthesia complication
MPS I – Hurler-Scheie	4y	10y	136	13y10m	Sepsis, hernia rupture
MPS I – Hurler- Scheie	2y 6m	10y	289	18y5m	Pneumonia, Pulmonary hypertension
MPS II – Hunter	5y	7y4m	230	13y9m	Anesthesia complication
MPS II – Hunter	10y	19y	139	23y	Pneumonia, cachexia
MPS VI – Marateaux Lamy	3y 8m	6y7m	317	13y5m	Pulmonary hypertension

y: year; m: month

Supplementary Data

Table S2. Mutations for all MPS patients

MPS	Gene	Patient	Mutation
MPS I – Hurler	<i>IDUA</i>	1	p.W402X in heterozygous
		2	p.W402X in homozygous
		3	NP
		4	p.H20140R / p.A79T
		5	NP
MPS I – Hurler-Scheie	<i>IDUA</i>	6	p.W402X in homozygous
		7	p.533R in homozygous
		8	p.W402X in homozygous
		9	NP
		10	NP
MPS I – Scheie	<i>IDUA</i>	11	} p.W402X/deltaD445
		12	
		13	
		14	p.P156Q
		15	p.P86L
MPS II – Hunter	<i>IDS</i>	16	NP
		17	R443X
		18	Inconclusive
		19	c.153delG
		20	p.S305P
		21	p.S333L
		22	<i>ARSB</i> IVS5-8T>G
23	<i>ARSB</i> IVS5-8T>G		
MPS VI – Marateaux	<i>ARSB</i>	24	p.R197X
Lamy	<i>ARSB</i>	25	NP
		26	NP
		27	NP

NP- not performed