Patient n.	1	2	3
Sex	Male	Male	Female
Ethnic origin	Italian	Italian	Turkish
Parental consanguinity	No	No	Yes (second grade cousins)
Unaffected sibs	No	No	No
Affected sibs	Yes (patient 2 and	Yes (patient 1 and spontaneous	No
	spontaneous abortion)	abortion)	
Family history	Positive for Gaucher disease	Positive for Gaucher disease in	Negative
	in paternal line	paternal line	
Age at evaluation	14 years	8 years	11 years
Psychomotor development	Delayed: walk unaided at 6	Delayed: walk unaided at 3 years of	Delayed
	years of age; no acquisition	age, no acquisition of expressive	
	of expressive language	language	
Intelligence Quotient (WISC	Moderate intellectual	Moderate intellectual disability	Severe intellectual disability
III-R)	disability (PIQ= 46).	(PIQ= 41).	
	Only performance skills	Only performance skills could be	

Supplementary Table. Clinical and instrumental features of the three patients.

	could be evaluated	evaluated	
Behavior, social kills	Good social skills	Good social skills	Poor social skills
Learning	Able to read and write words	None acquisition	None acquisition
	in capital letters printed		
Language	Absent expressive language.	Absent expressive language.	Poor expressive language and
	Learning sign language.	Learning sign language. Oro-motor	social skills
	Oro-motor dyspraxia	dyspraxia	
Neurological findings	Diffuse hypotonia, hand	Diffuse hypotonia, hand dysmetria,	Diffuse hypotonia and clumsiness.
	dysmetria, and gait ataxia	and gait ataxia	
Neuro-ophthalmological	Reduced visual acuity,	Oculomotor apraxia, nystagmus	Severe visual impairment and
findings	nystagmus, oculomotor	Fundus oculi: coloboma in left eye	roving nystagmus (Leber
	apraxia.		amaurosis)
	Fundus oculi: bilateral optic		
	nerve coloboma		
Electroretinogram	amplitude reduction (early	Normal	Response was absent
	stage)		
Brainstem auditory evoked	Normal	Normal	Normal

potentials			
EEG	Normal	Normal	/
Dimorphisms and extra-brain	No	No	Facial dysmorphisms
malformations			
Liver	Mild hepato-splenomegaly;	Hepatosplenomegaly; congenital	Normal
	congenital hepatic fibrosis;	hepatic fibrosis and portal	
	mild portal hypertension	hypertension, treated with specific	
		drugs	
Kidney	Congenital unilateral	Normal	Normal
	polycystic kidney (right)		
	with progressive atrophy and		
	hypertrophy of contralateral		
	kidney		

Abbreviations: PIQ= performance Intellectual Quotient; WISC-III= ; Wechsler Intelligence Scale III-Revised.