



Clinical trial results:

A phase I/II, open-label, study of intracerebral administration of adeno-associated viral vector containing the human alpha-N-acetylglucosaminidase cDNA in children with Sanfilippo type B syndrome

Summary

EudraCT number	2012-000856-33
Trial protocol	FR
Global end of trial date	27 November 2019

Results information

Result version number	v1 (current)
This version publication date	12 December 2020
First version publication date	12 December 2020

Trial information

Trial identification

Sponsor protocol code	AMT110-CD-001
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Additional study identifiers

ISRCTN number	ISRCTN19853672
ClinicalTrials.gov id (NCT number)	NCT03300453
WHO universal trial number (UTN)	-

Notes:

Sponsors

Sponsor organisation name	uniQure biopharma B.V
Sponsor organisation address	Paasheuvelweg 25A, Amsterdam, Netherlands, 1105BP
Public contact	Elise Destree, Elise Destree, +31 20 240 6000, E.Destree@uniquire.com
Scientific contact	Elise Destree, Elise Destree, +31 20 240 6000, E.Destree@uniquire.com

Notes:

Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

Results analysis stage

Analysis stage	Final
Date of interim/final analysis	27 November 2019
Is this the analysis of the primary completion data?	Yes
Primary completion date	27 November 2019
Global end of trial reached?	Yes
Global end of trial date	27 November 2019
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

To evaluate the clinical, radiological, biological tolerance associated to the proposed treatment

Protection of trial subjects:

Appropriate inclusion and exclusion criteria were applied.

An IDMC was appointed to

- be informed on the research protocol, informed consent documents and data safety reporting plans and monitoring plan;
 - review the study performance and safety data and make recommendation(s) to the Sponsor on further study conduct, including:
 - o inclusion of the next patient in the protocol depending on clinical evolution of the already/previously treated subjects at 1 month after the immediate previous one,
 - o continuation of the trial,
 - o termination of the trial,
 - o modification to the trial;
- by assessing the study progress, safety data and especially SUSARs.

Background therapy:

The following immunosuppressive/anti-inflammatory agents were used:

- Modigraf (tacrolimus) - starting at 10 - 15 ng/mL, reducing progressively over the course of the study.
- Cellcept (mycophenolate mofetil) - 1200 mg/m² for 2 weeks pre-surgery and 6 weeks post surgery.
- Prednisolone - 1mg/kg - for 10 days, starting on the day of surgery.

Evidence for comparator:

n/a

Actual start date of recruitment	17 September 2013
Long term follow-up planned	Yes
Long term follow-up rationale	Safety
Long term follow-up duration	66 Months
Independent data monitoring committee (IDMC) involvement?	Yes

Notes:

Population of trial subjects

Subjects enrolled per country

Country: Number of subjects enrolled	France: 4
Worldwide total number of subjects	4
EEA total number of subjects	4

Notes:

Subjects enrolled per age group

In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	1
Children (2-11 years)	3
Adolescents (12-17 years)	0
Adults (18-64 years)	0
From 65 to 84 years	0
85 years and over	0

Subject disposition

Recruitment

Recruitment details:

The study began on 17 September 2013 and 4 patients were enrolled on the study.

Pre-assignment

Screening details:

Patients were screened against the eligibility criteria.

As the study consisted of a first in human trial, the patient recruitment was sequential.

Period 1

Period 1 title	Initial Phase (Until M12)
Is this the baseline period?	Yes
Allocation method	Not applicable
Blinding used	Not blinded

Blinding implementation details:

n/a

Arms

Arm title	Human NAGLU gene - initial
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Arm description:

Patients received a one-time treatment with human NAGLU gene

Arm type	Experimental
Investigational medicinal product name	rAAV2/5-hNaGlu
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection
Routes of administration	Intracerebral use

Dosage and administration details:

Administration of the investigational product (solution for injection) into the brain parenchyma and cerebellum at 8 image-guided tracks (6 cortical white matter, 2 cerebellum), with 2 deposits per track at different depths, in a single neurosurgical session. Each patient received 960 µL of vector suspension at 16 simultaneous vector deposit each containing 2.4x10¹¹ vg (4x10¹² vg in total) on Day 0 (study initial phase).

Number of subjects in period 1	Human NAGLU gene - initial
Started	4
Completed	4

Period 2

Period 2 title	Extension Phase 1 (M12 to M30)
Is this the baseline period?	No
Allocation method	Not applicable
Blinding used	Not blinded
Blinding implementation details: n/a	

Arms

Arm title	Extension Phase 1
Arm description: Follow up -Extension Phase 1	
Arm type	Follow Up
No investigational medicinal product assigned in this arm	

Number of subjects in period 2	Extension Phase 1
Started	4
Completed	4

Period 3

Period 3 title	Extension Phase 2 (M30 to M66)
Is this the baseline period?	No
Allocation method	Not applicable
Blinding used	Not blinded
Blinding implementation details: n/a	

Arms

Arm title	Extension Phase 2
Arm description: Follow-up - Extension Phase 2	
Arm type	Follow Up
No investigational medicinal product assigned in this arm	

Number of subjects in period 3	Extension Phase 2
Started	4
Completed	4

Baseline characteristics

Reporting groups

Reporting group title	Human NAGLU gene - initial
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Reporting group description:

Patients received a one-time treatment with human NAGLU gene

Reporting group values	Human NAGLU gene - initial	Total	
Number of subjects	4	4	
Age categorical			
Units: Subjects			
In utero	0	0	
Preterm newborn infants (gestational age < 37 wks)	0	0	
Newborns (0-27 days)	0	0	
Infants and toddlers (28 days-23 months)	1	1	
Children (2-11 years)	3	3	
Adolescents (12-17 years)	0	0	
Adults (18-64 years)	0	0	
From 65-84 years	0	0	
85 years and over	0	0	
Gender categorical			
Units: Subjects			
Not specified	4	4	

End points

End points reporting groups

Reporting group title	Human NAGLU gene - initial
Reporting group description: Patients received a one-time treatment with human NAGLU gene	
Reporting group title	Extension Phase 1
Reporting group description: Follow up -Extension Phase 1	
Reporting group title	Extension Phase 2
Reporting group description: Follow-up - Extension Phase 2	

Primary: Adverse Events

End point title	Adverse Events ^[1]
End point description: All AEs identified in the period	
End point type	Primary
End point timeframe: As specified by the period	

Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: No statistical tests were performed. All patients received the same treatment. The primary objective was to look at safety.

End point values	Human NAGLU gene - initial	Extension Phase 1	Extension Phase 2	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	4	4	4	
Units: Number of events	63	60	32	

Statistical analyses

No statistical analyses for this end point

Primary: Serious Adverse Events

End point title	Serious Adverse Events ^[2]
End point description:	
End point type	Primary
End point timeframe: As specified by the period	

Notes:

[2] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: No statistical tests were performed. All patients received the same treatment. The primary objective was to look at safety.

End point values	Human NAGLU gene - initial	Extension Phase 1	Extension Phase 2	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	4	4	4	
Units: Number of SAEs	1	6	3	

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Assessed throughout study

Adverse event reporting additional description:

Adverse events were assessed throughout the study. They data was collected in 3 time periods:

- Initial Phase (Until M12)
- Extension Phase 1 (M12 to M30)
- Extension Phase 2 (M30 to M66)

Assessment type	Non-systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	18
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Reporting groups

Reporting group title	Initial Phase
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Reporting group description:

Adverse events collected in the Initial Phase 1

Reporting group title	Extension Period 1
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Reporting group description:

Adverse events collected in Extension Phase 1 (M12 to M30)

Reporting group title	Extension Period 2
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Reporting group description:

Adverse events collected in Extension Phase 2 (M30 to M66)

Serious adverse events	Initial Phase	Extension Period 1	Extension Period 2
Total subjects affected by serious adverse events			
subjects affected / exposed	1 / 4 (25.00%)	2 / 4 (50.00%)	3 / 4 (75.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Nasal polyps			
subjects affected / exposed	0 / 4 (0.00%)	0 / 4 (0.00%)	1 / 4 (25.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Blood and lymphatic system disorders			
Transaminases increased			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			

Gastroenteritis			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	2 / 4 (50.00%)
occurrences causally related to treatment / all	0 / 0	0 / 2	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
Pneumonia respiratory syncytial viral			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pneumonia adenoviral			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infections and infestations			
Escherichia pyelonephritis			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Electrolyte imbalance	Additional description: Hydroelectrolytic disorders linked to the bacterial infection		
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Frequency threshold for reporting non-serious adverse events: 0 %

Non-serious adverse events	Initial Phase	Extension Period 1	Extension Period 2
Total subjects affected by non-serious adverse events			
subjects affected / exposed	4 / 4 (100.00%)	4 / 4 (100.00%)	4 / 4 (100.00%)
Surgical and medical procedures			
Central venous catheterisation			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences (all)	1	0	0
Adenoidectomy			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences (all)	0	1	0

Ear tube insertion subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
General disorders and administration site conditions			
Pyrexia subjects affected / exposed occurrences (all)	3 / 4 (75.00%) 5	3 / 4 (75.00%) 7	2 / 4 (50.00%) 2
Gait disturbance subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Hyperthermia subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Inflammation subjects affected / exposed occurrences (all)	2 / 4 (50.00%) 2	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Influenza like illness subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 3	0 / 4 (0.00%) 0
Reproductive system and breast disorders			
Balanoposthitis subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Respiratory, thoracic and mediastinal disorders			
Rhinitis subjects affected / exposed occurrences (all)	4 / 4 (100.00%) 9	1 / 4 (25.00%) 1	1 / 4 (25.00%) 2
Bronchitis subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	2 / 4 (50.00%) 3	2 / 4 (50.00%) 4
Bronchitis chronic subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Cough			

subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	2 / 4 (50.00%) 3	1 / 4 (25.00%) 1
Rhinorrhoea subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1
Psychiatric disorders Abnormal behaviour subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1
Agitation subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0	2 / 4 (50.00%) 2
Sleep disorder subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	1 / 4 (25.00%) 1
Investigations Carbon dioxide decreased subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Haematocrit decreased subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Haemoglobin decreased subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Protein total decreased subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Red blood cell count decreased subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Transaminases increased subjects affected / exposed occurrences (all)	2 / 4 (50.00%) 2	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Alanine aminotransferase increased			

subjects affected / exposed	0 / 4 (0.00%)	0 / 4 (0.00%)	2 / 4 (50.00%)
occurrences (all)	0	0	2
Blood alkaline phosphatase increased			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences (all)	1	0	0
Epstein-Barr virus test positive			
subjects affected / exposed	0 / 4 (0.00%)	0 / 4 (0.00%)	1 / 4 (25.00%)
occurrences (all)	0	0	1
Carbon dioxide increased			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences (all)	1	0	0
Gamma-glutamyltransferase increased			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences (all)	1	0	0
Immunosuppressant drug level increased			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences (all)	1	0	0
Magnetic resonance imaging brain abnormal			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences (all)	1	0	0
Varicella virus test positive			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences (all)	0	1	0
Vitamin D decreased			
subjects affected / exposed	1 / 4 (25.00%)	0 / 4 (0.00%)	0 / 4 (0.00%)
occurrences (all)	1	0	0
Cardiac disorders			
Left ventricular dysfunction			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences (all)	0	1	0
Mitral valve incompetence			
subjects affected / exposed	0 / 4 (0.00%)	1 / 4 (25.00%)	0 / 4 (0.00%)
occurrences (all)	0	1	0
Nervous system disorders			

Cerebellar atrophy subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1
Cerebral haemosiderin deposition subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Psychomotor hyperactivity subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	2 / 4 (50.00%) 2	0 / 4 (0.00%) 0
Presyncope subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Blood and lymphatic system disorders			
Anaemia subjects affected / exposed occurrences (all)	2 / 4 (50.00%) 2	1 / 4 (25.00%) 1	1 / 4 (25.00%) 1
Iron deficiency anaemia subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Splenomegaly subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1
Ear and labyrinth disorders			
Otitis media subjects affected / exposed occurrences (all)	2 / 4 (50.00%) 3	2 / 4 (50.00%) 3	1 / 4 (25.00%) 1
Nasopharyngitis subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	2 / 4 (50.00%) 4	1 / 4 (25.00%) 1
Tonsillectomy subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Gastrointestinal disorders			
Diarrhoea subjects affected / exposed occurrences (all)	3 / 4 (75.00%) 6	3 / 4 (75.00%) 6	2 / 4 (50.00%) 2
Vomiting			

subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Gastroenteritis subjects affected / exposed occurrences (all)	2 / 4 (50.00%) 3	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Hepatobiliary disorders Hepatotoxicity subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Hypertransaminasaemia subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 2	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Skin and subcutaneous tissue disorders Dermatitis allergic subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Dermatitis atopic subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1
Infections and infestations Conjunctivitis subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1
Ear infection subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	2 / 4 (50.00%) 3	3 / 4 (75.00%) 3
Gastroenteritis viral subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Infectious mononucleosis subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Otitis externa subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0	0 / 4 (0.00%) 0
Viral infection			

subjects affected / exposed occurrences (all)	3 / 4 (75.00%) 3	2 / 4 (50.00%) 2	0 / 4 (0.00%) 0
Lung disorder	Additional description: Lung infection		
subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Varicella			
subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Pharyngitis			
subjects affected / exposed occurrences (all)	1 / 4 (25.00%) 1	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0
Metabolism and nutrition disorders			
Decreased appetite			
subjects affected / exposed occurrences (all)	0 / 4 (0.00%) 0	1 / 4 (25.00%) 1	0 / 4 (0.00%) 0

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
05 November 2013	Amendment 1: At the request of HCB and transmitted by the ANSM during the clinical and pharmaceutical evaluation of the AEC file, it was asked to specify the procedures for the transfer of the material (catheters) under a PSMII for purging.
22 May 2014	Amendment 2: In order to follow up on the 4 patients included in the clinical trial, the period of observation and follow-up of the safety of the test treatment is prolonged until 30 months post-surgery with the continuation of the treatment. immunosuppressive therapy (tacrolimus Modigraf®). This will track the progress of patients' health status and collect additional safety data and samples to meet protocol objectives.
07 January 2016	Amendment 3: 1) Change of the Promoter of the study. The Institut Pasteur transfers the legal and operational responsibility of this trial to a Dutch biotech company, uniQure biopharma B.V. (Tafelbergweg 51, 1105 BD Amsterdam, the Netherlands). 2) Extension of follow-up of 4 patients included in the 36-month clinical trial. Version 5 of protocol consisted in extending the follow-up of the 4 patients to 18 months post-surgery. With this second phase of extension, the total follow-up of the children will be 5 years, in accordance with the recommendations of the European Medicines Agency on the follow-up of patients administered with a gene therapy (EMA / CHMP / GTWP / 60436 / 2007). It should be noted that during this second phase of extension, the dose of tacrolimus will continue to be reduced and potentially stopped from month 48 post-surgery, depending on the results of available immunological data. 3) Addition of serologies to Cytomegalovirus (CMV) and Varicella-Zoster Virus (VZV) at visits V23-M12 and V41-M30 when previous serologies are negative (note that these serologies are performed by the center at the same time as the Epstein-Barr virus serology (EBV), the results will be retrospectively collected for the V23-M12 visit that has already been performed for the 4 patients included). 4) Addition of a blood sample (volume = 3 ml) at visit V41-M30 for the analysis of total and neutralizing antibodies against transgene 5) Clarification that any adverse event spontaneously reported by the patient / parents, observed by the investigator as well as any laboratory or radiological abnormalities that occurred during the extension phase should be documented in the CRF and added a section describing the monitoring and reporting of adverse events qualified for special notification (in agreement with EMA / CHMP / GTWP / 60436/2007)
09 January 2018	Amendment 4: The purpose of the amendment is to incorporate the tacrolimus tapering and discontinuation plan into the current protocol. This includes addition of a new Appendix which outlines the process, as well as adaptation of the protocol itself to include a new M51 (V48) sample and associated updates. In addition, administrative updates related to personnel and address changes were made, as well as correction of some typographical errors identified in the previous version.

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported