

PART 1 (COUNCIL DECISION 2002/813/EC)

SUMMARY NOTIFICATION INFORMATION FORMAT FOR THE RELEASE OF
GENETICALLY MODIFIED ORGANISMS OTHER THAN HIGHER PLANTS IN
ACCORDANCE WITH ARTICLE 11 OF DIRECTIVE 2001/18/EC

In order to tick one or several possibilities, please use crosses (meaning x or X) into the space provided as (.)

A. General information

1. Details of notification

- (a) Member State of notification The Netherlands
- (a)
- (b) Notification number B/././....
- (c) Date of acknowledgement of notification ././....
- (d) Title of the project
Open-label, single-dose, multi-centre trial investigating an adeno-associated viral vector containing a codon-optimized Padua derivative of human factor IX gene (AAV5-hFIXco-Padua, AMT-061) administered to adult patients with severe or moderately-severe hemophilia B.
- (e) Proposed period of release
From Q4-2018 to Q4-2030

2. Notifier

Name of institution or company:
uniQure Biopharma BV

3. GMO characterisation

(a) Indicate whether the GMO is a:

- viroid (.)
- RNA virus (.)
- DNA virus (X)
- bacterium (.)
- fungus (.)
- animal
- mammals (.)
- insect (.)
- fish (.)
- other animal (.)

specify phylum, class ...

- (b) Identity of the GMO (genus and species)
 Parvoviridae
 Genus: Dependovirus
 Species: AAV-derived replication-deficient viral vector
- (c) Genetic stability – according to Annex IIIa, II, A(10)
 The stability in terms of genetic traits is expected to be equivalent to wild-type AAV. DNA of wild type AAV and of AAV-based vectors persists in transduced cells as circular (extrachromosomal) episomal concatemers in human tissues (Chen et al. 2005, Schnepf et al. 2005, Schnepf et al. 2009).
 However, due to the lack of viral Rep and Cap genes, AMT-061 is expected to remain in the cells as episomes and will not replicate and produce viral particles. The expression cassette will be transcribed and translated by host cell enzymes leading to expression of FIX.
4. Is the same GMO release planned elsewhere in the Community (in conformity with Article 6(1)), by the same notifier?
 Yes No
 If yes, insert the country code(s)
 Belgium, France, Germany, Denmark, Ireland, Italy, Spain, United Kingdom
5. Has the same GMO been notified for release elsewhere in the Community by the same notifier?
 Yes No
 If yes:
 - Member State of notification
 - Notification number B/././...
- Please use the following country codes:**
Austria AT; Belgium BE; Germany DE; Denmark DK; Spain ES; Finland FI; France FR; United Kingdom GB; Greece GR; Ireland IE; Iceland IS; Italy IT; Luxembourg LU; Netherlands NL; Norway NO; Portugal PT; Sweden SE
6. Has the same GMO been notified for release or placing on the market outside the Community by the same or other notifier?
 Yes No
 If yes:
 - Member State of notification ...
 - Notification number B/././...
7. Summary of the potential environmental impact of the release of the GMOs.
 AMT-061 is a recombinant, replication-deficient, adeno-associated virus-based vector that will be administered intravenously by a single dose infusion to severe or moderately severe haemophilia B patients. The intended application of AMT-061 is limited to a few hospital centres and the number of patients to be treated is restricted. In addition, in view of the results obtained in non-human primates, a limited number with AMT-061 confirmed the earlier observations with a highly similar AMT-060 vector and demon-

strated distribution and shedding in plasma urine and tissues, therefore we expect to see a similar shedding profile in humans between AMT-060 & AMT-061. Due to the extremely low numbers of AMT-061 particles potentially released into the environment during the study, either by accident or through shedding, horizontal gene transfer is unlikely. Even if horizontal gene transfer occurred, AMT-061 sequences would not confer a selective advantage to bacteria: AMT-061 does not contain any prokaryotic promoters, any antibiotic- or other types of resistance genes or any genes, which would enhance or constrain their growth. Therefore, it is unlikely that the vector would interfere with the control of pathogenic microorganisms or that it would have an effect on the natural dynamics of microbial populations or the biogeochemical cycles at any given site in the environment.

Due to the lack of viral Rep and Cap genes, the vector will persist as episome and will not replicate or produce viral particles. The expression cassette will be transcribed and translated by host cell enzymes leading to expression of the human PADUA factor IX protein.

Although human infections are common, wild type AAV is not known to be a pathogenic virus in humans and can be classified as a Risk Group 1 biological agent, defined in the EU as 'one that is unlikely to cause human disease' according to Directive 2000/54/EC on the protection of workers from risks related to exposure to biological agents at work. Wild type AAV is not known to be involved in environmental processes and none of the genetic modifications made to wild type AAV during construction of AMT-061 is expected to have any impact on this property. As such, there is no expected impact to the environment following the release of AMT-061.

Nonetheless, the hospital centres are expected to have adequately trained the health care professionals involved in the study in the safe handling of GMOs and to have best biosafety practices implemented in order to minimize any accidental exposure to the product, be it personnel, contact persons or the environment. In view of the low risk AMT-061 presents to people and the environment and in view of the biorisk management measures applied to even further reduce the exposure to the vector, its overall risk for people and the environment can be evaluated as negligible.

B. Information relating to the recipient or parental organism from which the GMO is derived

1. Recipient or parental organism characterisation:

(a) Indicate whether the recipient or parental organism is a:

(select one only)

- | | |
|-----------|-----|
| viroid | (.) |
| RNA virus | (.) |
| DNA virus | (X) |
| bacterium | (.) |
| fungus | (.) |
| animal | |
| - mammals | (.) |
| - insect | (.) |

- fish (.)
 - other animal (.)
- (specify phylum, class) ...

other, specify ...

2. Name

- (i) order and/or higher taxon (for animals) N/A
- (ii) genus Dependovirus
- (iii) species Parvoviridae
- (iv) subspecies Adeno-Associated Virus
- (v) strain N/A
- (vi) pathovar (biotype, ecotype, race, etc.) Serotype 5
- (vii) common name Adeno-associated virus or AAV

3. Geographical distribution of the organism

- (a) Indigenous to, or otherwise established in, the country where the notification is made:
Yes (X) No (.) Not known (.)

- (b) Indigenous to, or otherwise established in, other EC countries:

- (i) Yes (X)

If yes, indicate the type of ecosystem in which it is found:

- Atlantic (X)
- Mediterranean (X)
- Boreal (X)
- Alpine (X)
- Continental (X)
- Macaronesian (X)

- (ii) No (.)

- (iii) Not known (.)

- (c) Is it frequently used in the country where the notification is made?

Yes (.) No (X)

- (d) Is it frequently kept in the country where the notification is made?

Yes (.) No (X)

4. Natural habitat of the organism

- (a) If the organism is a microorganism

water (.)

soil, free-living (.)

soil in association with plant-root systems (.)

in association with plant leaf/stem systems (.)

other, specify Specific hosts are humans and non-human primates

(b) If the organism is an animal: natural habitat or usual agroecosystem:

N/A

5. (a) Detection techniques
Quantitative Polymerase Chain Reaction (QPCR)

(b) Identification techniques
Quantitative Polymerase Chain Reaction (QPCR)

6. Is the recipient organism classified under existing Community rules relating to the protection of human health and/or the environment?

Yes (X) No (.)

If yes, specify

Adeno-associated viruses are not known to be associated with any pathogenic effect and thus are not assigned an Advisory Committee on Dangerous Pathogens (ACDP) category. Recombinant AAV-based vectors are usually classified as Biosafety Class 1 or 2 (depending on the Member State).

7. Is the recipient organism significantly pathogenic or harmful in any other way (including its extracellular products), either living or dead?

Yes (.) No (X) Not known (.)

If yes:

(a) to which of the following organisms:

humans (.)
animals (.)
plants (.)
other (.)

(b) give the relevant information specified under Annex III A, point II. (A)(11)(d) of Directive 2001/18/EC

AAVs are frequently found in humans and animals, but they are not pathogenic, virulent, allergenic, or a carrier (vector) of a pathogen. The known host range includes humans and non-human primates. In natural conditions, wild type AAV is found to transmit to humans in the presence of a helper virus. It does not activate latent virus and is not able to colonise other organisms.

8. Information concerning reproduction

(a) Generation time in natural ecosystems:

Not applicable since the vector is not capable of replication.

(b) Generation time in the ecosystem where the release will take place:

Not applicable since the vector is not capable of replication.

(c) Way of reproduction: Sexual N/A Asexual N/A

- (c) Factors affecting reproduction:
Reproduction of wild-type AAV is dependent on co-infection with helper virus (Adenovirus or Herpesvirus)

9. Survivability

- (a) ability to form structures enhancing survival or dormancy:

- (i) endospores (.)
- (ii) cysts (.)
- (iii) sclerotia (.)
- (iv) asexual spores (fungi) (.)
- (v) sexual spores (funghi) (.)
- (vi) eggs (.)
- (vii) pupae (.)
- (viii) larvae (.)
- (ix) other, specify

AAVs have the ability to form extrachromosomal concatemers that remain episomal for extended periods of time.

- (b) relevant factors affecting survivability:

10. (a) Ways of dissemination

Mainly through airway, although sexual transmission has been hypothesised.

- (b) Factors affecting dissemination

Co-infection with a helper virus.

11. Previous genetic modifications of the recipient or parental organism already notified for release in the country where the notification is made (give notification numbers)

Netherlands, B/NL/14/008

C. **Information relating to the genetic modification**

1. Type of the genetic modification

- (i) insertion of genetic material (X)
- (ii) deletion of genetic material (X)
- (iii) base substitution (.)
- (iv) cell fusion (.)
- (v) others, specify ...

2. Intended outcome of the genetic modification

The outcome of the genetic modifications is the deletion of the Rep and Cap viral sequences, leading to the loss of replication ability, and the insertion of the human PADUA factor XI transgene

expression cassette leading to the expression of hFIX in the transduced cells.

3. (a) Has a vector been used in the process of modification?
Yes Baculovirus No

If no, go straight to question 5.

- (b) If yes, is the vector wholly or partially present in the modified organism?
Yes No

If no, go straight to question 5.

4. If the answer to 3(b) is yes, supply the following information

- (a) Type of vector

plasmid
bacteriophage
virus
cosmid
transposable element
other, specify ...

- (b) Identity of the vector

...

- (c) Host range of the vector

...

- (d) Presence in the vector of sequences giving a selectable or identifiable phenotype

Yes No

antibiotic resistance
other, specify ...

Indication of which antibiotic resistance gene is inserted

...

- (e) Constituent fragments of the vector

...

- (f) Method for introducing the vector into the recipient organism

- (i) transformation
(ii) electroporation
(iii) macroinjection
(iv) microinjection
(v) infection
(vi) other, specify ...

5. If the answer to question B.3(a) and (b) is no, what was the method used in the process of modification?

- (i) transformation
- (ii) microinjection
- (iii) microencapsulation
- (iv) macroinjection
- (i) other, specify Triple infection of expresSF+ insect cells with baculovirus containing respectively the Rep, Cap or PADUA hFIX expression cassette sequences. Any remaining baculovirus are then removed by downstream processing.

(v)

6. Composition of the insert

(a) Composition of the insert

- i) Inverted Terminal Repeats (ITRs) from AAV2
- ii) LP1 promoter/enhancer element from the human apolipoprotein hepatic control region and the human alpha-1-antitrypsin promoter.
- iii) Codon-optimised human PADUA factor IX expression cassette
- iv) Bovine Growth Hormone polyA unit (pA bGH)

(b) Source of each constituent part of the insert

- i) Inverted Terminal Repeats (ITRs): AAV2
- ii) LP1 promoter/enhancer element: human
- iii) Codon-optimised human PADUA factor IX expression cassette: human
- iv) polyA unit (pA bGH): bovine

(c) Intended function of each constituent part of the insert in the GMO

- i) Inverted Terminal Repeats (ITRs): Elements necessary for the packaging of the vector genome into the capsid and the formation of the episomal concatemers in the transduced cells.
- ii) LP1 promoter/enhancer element: Enhance the expression of the transgene
- iii) Codon-optimised human PADUA factor IX expression cassette: Active part of the vector needed for the expression of the human PADUA coagulation factor IX protein.
- iv) polyA unit (pA bGH): mRNA translation

(a) Location of the insert in the host organism

- on a free plasmid
- integrated in the chromosome
- other, specify

Mainly extrachromosomal by formation of episomal concatemers

(b) Does the insert contain parts whose product or function are not known?

- Yes No
- If yes, specify ...

D. Information on the organism(s) from which the insert is derived

1. Indicate whether it is a:

- viroid
- RNA virus

- DNA virus
 - bacterium
 - fungus
 - animal
 - mammals
 - insect
 - fish
 - other animal
- (specify phylum, class) ...
- other, specify [Human \(coagulation PADUA factor IX cDNA\)](#)

2. Complete name

- (i) order and/or higher taxon (for animals) ...
- (ii) family name for plants [Primates](#)
- (iii) genus [N/A](#)
- iv) species [Homo](#)
- (v) subspecies [Sapiens](#)
- (vi) strain [Sapiens](#)
- (vii) cultivar/breeding line [N/A](#)
- (viii) pathovar [N/A](#)
- (ix) common name [Human](#)

3. Is the organism significantly pathogenic or harmful in any other way (including its extracellular products), either living or dead?

Yes No Not known

If yes, specify the following:

(a) to which of the following organisms:

- humans
- animals
- plants
- other ..

(b) are the donated sequences involved in any way to the pathogenic or harmful properties of the organism

Yes No Not known

If yes, give the relevant information under Annex III A, point II(A)(11)(d):

...

4. Is the donor organism classified under existing Community rules relating to the protection of human health and the environment, such as Directive 90/679/EEC on the protection of workers from risks to exposure to biological agents at work?

Yes No

If yes, specify ...

5. Do the donor and recipient organism exchange genetic material naturally?

Yes No Not known

Although following naturally acquired infection, AAV DNA mainly persists as circular double stranded episomes in human tissues (Schnepp *et al.*, 2005) it has been shown that some level of integration may occur in the host DNA (Kaepfel et al, 2013).

E. Information relating to the genetically modified organism

1. Genetic traits and phenotypic characteristics of the recipient or parental organism which have been changed as a result of the genetic modification

(a) is the GMO different from the recipient as far as survivability is concerned?

Yes No Not known

Due to the removal of the Rep and Cap genes, AMT-061 is replication incompetent even in the presence of wild-type AAV.

(b) is the GMO in any way different from the recipient as far as mode and/or rate of reproduction is concerned?

Yes No Unknown

Due to the removal of the Rep and Cap genes, AMT-061 is replication incompetent even in the presence of wild-type AAV.

(b) is the GMO in any way different from the recipient as far as dissemination is concerned?

Yes No Not known

The GMO cannot enter an infectious cycle even in the presence of helper function.

(c) is the GMO in any way different from the recipient as far as pathogenicity is concerned?

Yes No Not known

Neither wild type AAV nor AAV5-hFIX are pathogenic to humans or the environment.

2. Genetic stability of the genetically modified organism

AMT-061 is replication incompetent. In absence of an intrinsic mechanism for genetic variation or instability and based on the known genetic stability of wild type AAV, the genetic traits of the organism are expected to be stable.

3. Is the GMO significantly pathogenic or harmful in any way (including its extracellular products), either living or dead?

Yes No Unknown

(a) to which of the following organisms?

humans
animals
plants
other N/A

- (c) give the relevant information specified under Annex III A, point II(A)(11)(d) and II(C)(2)(i)
- Humans are likely infected by wild type AAV through the respiratory tract, sexual and gastrointestinal route. AAV is capable of infecting either non-dividing or dividing cells.
- In the presence of helper virus (adenovirus or herpes virus), AAV undergoes productive infection characterized by genome replication, viral gene expression and virion production.
- In the absence of a helper virus co-infection, AAV DNA remains extrachromosomal or may integrate in the host DNA. In both situations the virus remains latent.
- Wild type AAV is weakly immunogenic. AAV-induced immune reaction is seemingly restricted to the generation of neutralizing antibodies.
- AAV has never been associated with any disease or pathological conditions in humans. AAV is not known to be associated to plants. AMT-061 is not expected to be pathogenic and does not interfere with any prophylactic or therapeutic treatments since it does not contain any sequences (no antibiotic-resistance genes) that could affect prophylaxis or treatment of pathogenic microorganism infection.
- The PADUA hFIX cDNA present in the vector is a naturally occurring sequence in humans. Expression of this protein by infected cells does not induce cytopathic effects.

4. Description of identification and detection methods

- (a) Techniques used to detect the GMO in the environment
- The number of vector genomes can be determined by quantitative PCR with primers specific for vector sequences. This technique however is only applicable where sufficient DNA can be recovered for analysis.
- (b) Techniques used to identify the GMO
- The vector is identified by quantitative PCR with primers specific for vector sequences.

F. Information relating to the release

1. Purpose of the release (including any significant potential environmental benefits that may be expected)
- The general purpose of the work is to further establish an AAV-based, liver directed gene therapy approach for treatment of haemophilia B. In general terms the primary objective will be to assess safety and efficacy of a single intravenous infusion of AMT-061 in adult patients with severe (Factor IX (FIX) activity $\leq 1\%$ of normal) or moderately severe ($1 < \text{FIX activity} \leq 2\%$ of normal) haemophilia B.
2. Is the site of the release different from the natural habitat or from the ecosystem in which the recipient or parental organism is regularly used, kept or found?
- Yes (X) No (.)
- If yes, specify

The GMO will be administered intravenously to Haemophilia B patients in a few hospital centres. It should be noted that humans are natural hosts for AAV, infections are asymptomatic and AAV is not known to cause any noticeable pathology. Similarly, dose-dependent administration of AAV-based GMO's to humans has been shown to be safe. As noted above, a dose-dependent immune response does occur in a recipient and is without clinical consequence.

3. Information concerning the release and the surrounding area

- (a) Geographical location (administrative region and where appropriate grid reference):

Erasmus MC
Wyntemaweg 80
3015 CN Rotterdam
The Netherlands

- (b) Size of the site (m²): N/A m²
(i) actual release site (m²): ... m²
(ii) wider release site (m²): ... m²

- (a) Proximity to internationally recognised biotopes or protected areas (including drinking water reservoirs), which could be affected:

Not applicable considering that shed material, if any at all, is non-infectious.

- (b) Flora and fauna including crops, livestock and migratory species which may potentially interact with the GMO

None

4. Method and amount of release

- (a) Quantities of GMOs to be released:

Some shedding of vector DNA is expected to occur in body fluids/excreta for several days after administration. However, shed AAV-based vectors have been shown to be non-infectious.

- (b) Duration of the operation:

The complete administration procedure including preparation of the infusion system is expected to take less than 24h.

- (c) Methods and procedures to avoid and/or minimise the spread of the GMOs beyond the site of the release

The investigational medicinal product will be supplied to the selected hospital centres on a subject-to-subject basis following confirmation of subject's eligibility, in order to avoid any long time storage.

All involved personnel on the site will be trained in best biosafety practices to be

applied during preparation in the pharmacy, transport to the administration room, precautions during administration and disposal of any biological waste. Such training involves, among others, wearing adapted protective clothing and gloves, the constant presence of a spill kit and the decontamination of waste prior to disposal.

5. Short description of average environmental conditions (weather, temperature, etc.)
Hospital treatment room, ambient indoor conditions for administration to clinical trial subjects. Receiving environment for the shed vector particles is most likely waste water and ambient temperature. The investigational medicinal product should be stored at $\leq -65^{\circ}\text{C}$, vials should thaw at room temperature, prepared infusion bag will be kept at room temperature until administration.
6. Relevant data regarding previous releases carried out with the same GMO, if any, specially related to the potential environmental and human health impacts from the release.
None available

G. Interactions of the GMO with the environment and potential impact on the environment, if significantly different from the recipient or parent organism

1. Name of target organism (if applicable)

(i)	order and/or higher taxon (for animals)	Primates
(ii)	family name for plants	N/A
(iii)	genus	Homo
(iv)	species	Sapiens
(vi)	subspecies	Sapiens
(vii)	strain	N/A
(viii)	cultivar/breeding line	N/A
(ix)	pathovar	N/A
(x)	common name	Human
2. Anticipated mechanism and result of interaction between the released GMOs and the target organism (if applicable)
In treated subjects, AMT-061 is expected to preferentially localise to the liver. Hepatocytes transduction will enable a functional human coagulation factor IX to be expressed. The excretion of functional PADUA factor IX into the circulation at levels resulting in a clinically meaningful improvement in the clotting function will improve the haemophilia phenotype of the patients. The vector DNA is expected to persist in transduced cell by the formation of episomal concatemers.
3. Any other potentially significant interactions with other organisms in the environment
None expected
4. Is post-release selection such as increased competitiveness, increased invasiveness for the GMO likely to occur?
Yes (.) No (X) Not known (.)

Give details

...

5. Types of ecosystems to which the GMO could be disseminated from the site of release and in which it could become established

Even in the event of shedding of DNA in waste water no establishment in such a system can be expected.

6. Complete name of non-target organisms which (taking into account the nature of the receiving environment) may be unintentionally significantly harmed by the release of the GMO

None

- | | | |
|--------|---|-----|
| (i) | order and/or higher taxon (for animals) | ... |
| (ii) | family name for plants | ... |
| (iii) | genus | ... |
| (iv) | species | ... |
| (v) | subspecies | ... |
| (vi) | strain | ... |
| (vii) | cultivar/breeding line | ... |
| (viii) | pathovar | ... |
| (ix) | common name | ... |

7. Likelihood of genetic exchange in vivo

- (a) from the GMO to other organisms in the release ecosystem:

Highly unlikely. Due to the low numbers of vector DNA copies potentially released into the environment through shedding, horizontal gene transfer is highly unlikely. Even if horizontal gene transfer occurred, the sequences would not confer a selective advantage to other organisms such as bacteria since AMT-061 does not contain any prokaryotic promoters, any antibiotic or other types of resistance genes or any genes, which would enhance or constrain their growth. Therefore, it is unlikely that AMT-061 would interfere with the control of pathogenic microorganisms or that it would have an effect on the natural dynamics of microbial populations or the biogeochemical cycles at any given site in the environment.

- (b) from other organisms to the GMO:

Highly unlikely. Since AMT-061 contains the ITR-sequences of AAV2, there is a (remote) possibility of homologous recombination of the vector with wild type AAV2 in case of a co-infection in exposed persons. The result of such a recombination would be that AMT-061 would gain functional genes of the AAV2 required for replication and encapsidation, but, in turn, would lose the transgene. Hence, recombination would lead to the formation of viruses that are identical to the starting material and replication incompetent.

- (c) likely consequences of gene transfer:

The genetic material from the Rep and Cap genes together with the transgene would be too large in size to be packed in an AAV capsid. Thus it is highly unlikely that the

recombination would result in a replication-competent vector containing transgenes. Any recombination would result in the expression of PADUA hFIX by infected cells.

8. Give references to relevant results (if available) from studies of the behaviour and characteristics of the GMO and its ecological impact carried out in stimulated natural environments (e.g. microcosms, etc.):
No references available
9. Possible environmentally significant interactions with biogeochemical processes (if different from the recipient or parental organism)
None known or predictable since wild type AAV is not known to be involved in any biogeochemical process.

H. Information relating to monitoring

1. Methods for monitoring the GMOs
Collection of body fluids according to clinical protocol and risk management plan and quantification using a specific DNA QPCR method.
2. Methods for monitoring ecosystem effects
No monitoring is considered necessary.
3. Methods for detecting transfer of the donated genetic material from the GMO to other organisms
The method for detecting transfer of the donated genetic material to other organisms will be QPCR. The presence of vector DNA sequences will be determined in serum and semen from the treated patients. However, it has been shown that the material found in excreta is not infectious and thus transfer of donated genetic material from the patient to other organisms is not envisaged.
4. Size of the monitoring area (m²)
Not applicable. Only subject's body fluids will be monitored after administration.
5. Duration of the monitoring
The body fluids of the treated subjects will be monitored until found negative (three consecutive negative samples) for the presence of vector DNA.
6. Frequency of the monitoring
At regular intervals according to clinical protocol (e.g. once weekly for the first three months depending on the nature of the sample) for five years after administration.

I. Information on post-release and waste treatment

1. Post-release treatment of the site
Decontamination of the IMP administration room by standard procedures will be used after administration. Any material or surface in contact with the product will be decontaminated with hypochlorite solution or autoclaved. Any other disposable instruments or other materials used during the dose preparation procedure will be disposed of in a

manner consistent with the standard practice of the institution for potentially biohazardous materials.

2. Post-release treatment of the GMOs
Since the product will be supplied by the manufacturer to the hospital pharmacy in a subject-to-subject manner, no unused product should remain at the hospital centre after administration of the patients. Any open vials or unused material will be destroyed by decontamination according to local biosafety guidelines.
3. (a) Type and amount of waste generated
Empty vials and used vials and the used delivery system components (guide tube, cannula, injection needles and syringes), gauzes, personal protective equipment (e.g. gloves etc) and components used for collecting body fluids samples after administration.
3. (b) Treatment of waste
Sharps such as needles will be disposed of in adequate sharp containers and incinerated. Disposables such as syringes, tubing and catheters will be decontaminated by immersion in a chemical disinfectant with virucidal activity before incineration. All the surgical materials (surgery tools, linens) and surgery waste (gloves, compresses) will be collected and autoclaved before washing and sterilization or incineration. All non-disposable surgical equipment will be cleaned using a chemical disinfectant with proven virucidal activity (e.g. hypochlorite solution) and then sterilized by autoclaving according to standard practice of the institution.

J. Information on emergency response plans

1. Methods and procedures for controlling the dissemination of the GMO(s) in case of unexpected spread
The solution of AMT-061 for intravenous infusion will be prepared by the hospital pharmacist or designee in a contained area inside a flow cabinet in the hospital centres. In case of spillage the affected area, lined with absorbing material, will be decontaminated using appropriate disinfectants with virucidal activity. A spill kit will be available at all times during the administration procedure. Details are given in the IMP Handling Manual, describing the handling of the IMP in the pharmacy and the administration procedures) that will be handed over to the sites during the site initiation visit (prior to starting the study).
2. Methods for removal of the GMO(s) of the areas potentially affected
Should persons working with the GMO come into direct contact with the GMO (through inhalation or accidental injection during administration, or via blood samples taken shortly after administration), no immediate and/or delayed effects different from those expected for the recipients (test subjects) are expected: a (dose-dependent) immune response to the GMO could occur that will not affect subjects' general well-being.
For splashes to the eye of the GMO, rinse eye with eyewash for 15 minutes then report to hospital emergency room for evaluation. In case of accidental injection of material containing the GMO, encourage bleeding of the wound wash area well with

soap and water and report to hospital emergency room for evaluation.

3. Methods for disposal or sanitation of plants, animals, soils, etc. that could be exposed during or after the spread
Not applicable since exposure of plants or animals is not expected.
4. Plans for protecting human health and the environment in the event of an undesirable effect
No undesirable effects are expected.