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 (.)

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Α.	General	in	farm	ation

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1	Details	at no	titio	otion
1.	Delans	OIIIII	1111167	ашон

- (a) Member State of notification: Belgium
- (b) Notification number:
- (c) Date of acknowledgement of notification
- (d) Title of the project

Phase 3 Randomized, Controlled Study of AAV5-hRKp.RPGR for the Treatment of X-linked Retinitis Pigmentosa Associated with Variants in the RPGR gene

(e)Proposed period of release

It is anticipated that the trial will be open from November 2021 to June 2023 globally. The study is anticipated to start in April 2022 in Belgium.

All subjects treated in this study will enter an additional long-term follow-up period at the end of the trial, under a separate protocol.

2. Notifier

Name of institution or company: MeiraGTx UK II Limited

92 Britannia Walk London, N1 7NQ, United Kingdom

- 3. GMO characterisation
- (a) Indicate whether the GMO is a:

viroid	(.)
RNA virus	(.)
DNA virus	(\mathbf{X})
bacterium	(.)
fungus	(.)
animal	

- mammals (.) - insect (.) - fish (.)

- other animal (.) specify phylum, class

other, specify (kingdom, phylum and class)

(b) Identity of the GMO (genus and species)

Family: Parvoviridae
Genus: Dependovirus

Species: Adeno-associated virus (AAV)

Strain: AAV5

Recombinant AAV that contains the inverted terminal repeats (ITRs) of serotype 2 packaged in a serotype 5 capsid and carries the human retinitis

pigmentosa guanosine triphosphatase regulator (RPGR) gene.

(c) Genetic stability – according to Annex IIIa, II, A(10)

Evolution of AAV viruses (like all viruses) is directed by spontaneous mutations or recombination with other viruses of the same species, when such genetic modification confers a selective advantage. Non-homologous genomic recombination may occur spontaneously in nature between the viral genomes of AAV strains only under circumstances where a cell of the host organism is infected simultaneously by two different strains of AAV, which is permissive in that species (permissive cell line providing helper functions or presence of a helper virus).

AAV5-hRKp.RPGR is expected to be highly genetically stable. AAV5-hRKp.RPGR is generated by transient transfection of a production cell line using fully characterised, sequenced plasmids. Production of the vector in the manufacturing process and second-strand synthesis of the vector genome rely on the host DNA polymerase, characterised by high fidelity DNA polymerisation and additional proofreading exonuclease activity, leading to very low error rate of DNA replication. The genomic integrity of the AAV5-hRKp.RPGR vector genome is tested by DNA sequencing of the vector genome.

Outside the production system, the vector is also to be expected to remain genetically stable as AAV5-hRKp.RPGR is unable to replicate independently, even in the presence of a helper virus, since it lacks the rep and cap genes required for replication and packaging, respectively.

4. Is the same GMO release planned elsewhere in the Community (in conformity with Article 6(1)), by the same notifier?

Yes (X) No (.)

If yes, insert the country code(s)

DE, IE, NL, ES

5. Has the same GMO been notified for release elsewhere in the Community by the same notifier?

Yes (.) No (X)

If yes:

- Member State of notification
- Notification number

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	(\mathbf{X}))
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If yes:

- Member State of notification
- Notification number
- 7. Summary of the potential environmental impact of the release of the GMOs.

Administration of AAV5-hRKp.RPGR will occur only within contained clinical sites by trained medical professionals. It is therefore not anticipated that AAV5-hRKp.RPGR will come into direct contact with the environment. Therefore, environmental impact of AAV5-hRKp.RPGR is negligible.

Moreover, the clinical vector AAV5-hRKp.RPGR is replication incompetent by design and will not contain any replication-competent (helper) virus sequences. Even if accidental release occurs, the GMO will not be able to spread in the environment. In the case of accidental exposure and transfer of vector to an unintended human or non-human recipient, the risks are considered negligible since the vector is not able to replicate, is not known to be pathogenic, and the amount of particles is unlikely to cause significant infections in the exposed individual.

- 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 v	irus	(.)	
DNA v	rirus	(X)	
bacteri	um	(.)	
fungus		(.)	
animal			
-	mammals		(.)
-	insect		(.)
-	fish		(.)
-	other animal		(.)

other, specify

- 2. Name
 - (i) order and/or higher taxon (for animals) *Parvoviridae*
 - (ii) genus Dependoparvovirus
 - (iii) species Adeno-associated virus (AAV)
 - (iv) subspecies N/A (Not applicable)
 - (v) strain AAV5

(specify phylum, class)

	(vii)	common name				Adeno-associated virus 5					
3.	Geogr	Geographical distribution of the organism									
	(a)	Indige Yes	enous to	o, or oth	erwise No	establis	shed in,	the country wh Not known	nere the notif	fication is mad	е
	(b)	Indige (i)	nous to Yes	o, or oth (X)	erwise	establis No (.)		other EC coun	tries:		
			If yes	, indica	te the t	type of e	ecosyste	m in which it i	s found:		
			Borea Alpin Conti	teranea: ıl		(X) (X) (X) (X) (X) (X)					
		(ii) (iii)	No Not k	nown		(.) (.)					
	(c)		equentl	y used	in the o	country (.)	where th	ne notification	is made?		
	(d)		requent	ly kept	in the o	country (.)	where th	ne notification	is made?		
4.	Natura	al habita	at of the	e organ	ism						
	(a)	If the	organis	sm is a	microo	rganism					
		soil in in asse		ation w n with p		nt-root s af/stem	ystems systems	(.) (.) (.) (.) (X) hosts are primates	humans and	l non-human	
	(b)	If the	organis	sm is an	anima	l: natura	al habita	t or usual agro	ecosystem:	N/A	
5.	(a)			hniques polyme		ain reac	tion (qP	CR)			
	(b)			technic	-	(PCR)					

pathovar (biotype, ecotype, race, etc.) N/A

(vi)

Sodium dodecyl sulphate polyacrylamide gel electrophoresis (SDS PAGE) and Western Blot

6.	Is the recipient organism classified under existing Community rules relating to the protection of human health and/or the environment?							
		Yes	(.)	No	(X)			
	AAVs of the exposi agent	Council of 18 ure to biologica	classified und September 20 al agents at wo	00 on thork. AA	ctive 2000/54/ ne protection of V fulfils the de	EC of the European Parliament and f workers from risks related to efinition of a group 1 biological al agent that is unlikely to cause		
7.		recipient organ sellular product (.)	_	• •	_	nful in any other way (including its (.)		
	If yes:	: N/A						
	(a)	to which of the	ne following o	rganism	ns:			
		humans animals plants other	(.) (.) (.) (.)					
	(b)	give the relev Directive 200		on speci	fied under Anı	nex III A, point II. (A)(11)(d) of		
8.	Inform	Formation concerning reproduction						
	(a)	After entry in two distinct a phase. For en with a helper replication ar	nd interchang try into a lytic virus, includi	Il nucleuseable passes, phase, ng genoof the vi	us, wild-type (\text{\text{'}}\) athways of its latently infection me rescue of the ral genome. Fi	WT) AAV can follow either one of ife cycle: the lytic or the latent eted cell needs to be super-infected ne provirus DNA followed by nally, upon helper virus-induced cell		
	(b)	Generation time in the ecosystem where the release will take place: N/A						
	(c)	Way of repro	duction:	Sexua	al N/A	Asexual (X)		
	(d)	Reproduction	accinia virus,	is deper		Section with helper virus such as cytomegalovirus or human		
9.	Surviv	vability						

(a)	ability to form structures enhancing survival or dormancy:
	(i) endospores (.) (ii) cysts (.) (iii) sclerotia (.) (iv) asexual spores (fungi) (.) (v) sexual spores (fungi) (.) (vi) eggs (.) (vii) pupae (.) (viii) larvae (.) (ix) other, specify AAV can persist in the host cells as episomal concatemers or integrated into the host cell DNA (the rep genes are required for site-specific integration into the genome of host cells).
(b)	relevant factors affecting survivability: Outside of the host, non-lipid enveloped viruses such as AAV are resistant to low level disinfectants, survive well outside of the laboratory environment. AAV particles are resistant to a wide pH range (pH 3-9) and can resist heating at 56°C for 1 hour (Berns and Bohenzky, 1987). AAV does not form survival structures but can remain infectious for at least a month at room temperature following simple desiccation or lyophilisation. AAV is readily inactivated by disinfectants such as 0.5% sodium hypochlorite, 0.45% potassium peroxymonosulfate, 0.5% peracetic acid, or 10% bleach. AAV is also inactivated by autoclaving for 30 minutes at 121°C. It is resistant to alcohol-based disinfectants.
(a)	Ways of dissemination AAVs may be transmitted by ingestion, inhalation of aerosols or droplets, or contact with mucous membranes (Baldo et al., 2013).
(b)	Factors affecting dissemination Factors affecting WT AAV dissemination, in general, are exposure dose, formation of aerosols, and closeness of contacts. WT AAVs are not able to replicate unless a co-infection with a helper virus occurs.
relea	ious genetic modifications of the recipient or parental organism already notified for se in the country where the notification is made (give notification numbers). applicable.
Info	rmation relating to the genetic modification
Type	of the genetic modification
(i) (ii) (iii) (iv) (v)	insertion of genetic material (X) deletion of genetic material (X) base substitution (.) cell fusion (.) others, specify

10.

11.

C.

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2.	Intended outcome of the genetic modification The intended outcome of the modifications was to remove the rep and cap genes from the WT AAV genome. The only remaining viral elements are the ITRs which are necessary for production of AAV5-hRKp.RPGR. Between the ITRs, an expression cassette to deliver a functional transgene encoding the human RPGR gene has been inserted. The functional RPGR protein facilitates functional and morphological rescue of photoreceptors in patients with X-linked retinitis pigmentosa (XLRP) caused by mutations in the gene, consequently improving vision.								
3.	(a)	Has a vector been used in the process of modification? Yes (X) No (.)							
	If no,	go straight to question 5.							
	(b)	If yes, is the vector wholly or partially present in the modified organism? Yes (X) 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 (X) bacteriophage (.) virus (.) cosmid (.) transposable element (.) other, specify							
	(b)	Identity of the vector Three plasmids are used to supply all the necessary components to produce AAV5-hRKp.RPGR. These were constructed using synthetic DNA and standard molecular biology techniques to form the final plasmid constructs.							
	(c)	Host range of the vector Plasmids have been propagated in bacteria.							
	(d)	Presence in the vector of sequences giving a selectable or identifiable phenotype $Yes (X) No (.)$							
		antibiotic resistance (X) other, specify							
		Indication of which antibiotic resistance gene is inserted neomycin/kanamycin							
	(e)	Constituent fragments of the vector The necessary components to make AAV5-hRKp.RPGR are provided by plasmids.							

These plasmids contain the transgene cassette flanked by ITRs, the rep genes (for replication and packaging of the transgene cassette), the cap gene (required to make the capsid), and adenoviral helper genes (E4 ORF 6, E2a and VA RNA). The production cell line provides the E1 function in trans.

- (f) Method for introducing the vector into the recipient organism
 - (i) transformation (.)
 - (ii) electroporation (.)
 - (iii) macroinjection (.)
 - (iv) microinjection (.)
 - (v) infection (.)
 - (vi) other, specify Transfection (AAV5-hRKp.RPGR is constructed on a batch-by-batch basis by transfection of the production cell line with plasmids)
- 5. If the answer to question B.3(a) and (b) is no, what was the method used in the process of modification? N/A
 - (i) transformation (.)
 - (ii) microinjection (.)
 - (iii) microencapsulation (.)
 - (iv) macroinjection (.)
 - (v) other, specify (.)
- 6. Composition of the insert
 - (a) Composition of the insert

AAV5-hRKp.RPGR incorporates an expression cassette flanked by the AAV ITRs. The expression cassette includes a photoreceptor-specific promoter, an intron, cDNA encoding the human RPGR gene and a polyadenylation signal. The expression cassette is limited to the required elements designed to optimise expression of functional human RPGR in the eye.

(b) Source of each constituent part of the insert.

ITRs – AAV2 derived

Promoter - human

Intron – viral (simian virus 40)

Therapeutic transgene – human

Polyadenylation signal – viral (simian virus 40)

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

ITRs - to enable replication and packaging of the transgene cassette into the capsid as well as for second-strand synthesis and episome formation in transduced cells

Promoter - to drive specific gene expression in photoreceptors

Intron - to enhance expression of the therapeutic transgene

Therapeutic transgene - to transfer a functional copy of the defective gene in XLRP

Polyadenylation signal - to enhance gene expression

(d) Location of the insert in the host organism

		 on a free plasmid (.) integrated in the chromosome (.) other, specify With respect to the patient, the GMO is mainly extrachromosomal by formation of episomal concatemers.
	(e)	Does the insert contain parts whose product or function are not known? Yes (.) No (X) If yes, specify
D.	Infor	mation on the organism(s) from which the insert is derived
		ollowing information relates to the organism from which the inserted therapeutic tene (RPGR) is derived.
1.	Indica	ate whether it is a:
	viroid RNA DNA bacter fungus anima	virus (.) virus (.) ium (.) s (.)
2.	Comp	lete name
	(i) ord (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix)	der and/or higher taxon (for animals) Primates family name for plants genus species subspecies strain cultivar/breeding line pathovar common name Human
3.	extrac Yes	organism significantly pathogenic or harmful in any other way (including its ellular products), either living or dead? (.) No (X) Not known (.) specify the following:
	(b)	to which of the following organisms: N/A
		humans (.) animals (.)

	plants other	(.) 			
(b)	are the donate properties of t	<u>-</u>	nvolved in any	way to the pat	hogenic or harmful
	Yes (.)	No	(X)	Not known	(.)
	If yes, give the N/A	e relevant info	ormation under	Annex III A, p	ooint II(A)(11)(d):
huma worke	_	e environment,	such as Direc	tive 90/679/EE	relating to the protection of C on the protection of
Do th	e donor and rec	ipient organisi	m exchange ge	netic material 1	naturally?
Yes	(X)	No (.)	Not k	nown (.)	
by a r		nechanism (Du	theil et al., 20	00). Approxima	ne 19 (a site termed AAVS1) ately 0.1% of infecting WT
In the	absence of rep,	, as is the case	with recombin	ant AAV (rAA	V) vectors, chromosomal
_	ation is rare. Di			-	tly persists as nto host cell genomes.
					ito nost cen genomes.
Infor	mation relating	g to the genet	ically modifie	d organism	
	ic traits and phe changed as a res	• •		• •	arental organism which have
(a)					pility is concerned?
	Yes (.) Specify		(X) ility of the reco		is not expected to be
	different from	the WT virus	•		-
(b)	is the GMO ir reproduction i		erent from the	recipient as far	as mode and/or rate of
	Yes (X)	No	(.)	Unknown	(.)
	Specify replication-de	_		p and cap gene of a helper viru	sequences and is therefore s.
(c)	is the GMO in concerned?	n any way diff	erent from the	recipient as far	as dissemination is
	Yes (X)	No	(.)	Not known	(.)
	Specify replication-de:	_		p and cap gene of a helper viru	sequences and is therefore s.
	Therefore, tho	ough it has the	-	insduce cells, tl	ne lack of replicative

4.

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concerned? Yes (.) No (X) Not known (.) Specify Neither WT AAV nor AAV5-hRKp.RPGR are pathogenic to humar or other organisms in the environment.	1S								
Genetic stability of the genetically modified organism AAV5-hRKp.RPGR is expected to be highly genetically stable. During the production process, AAV5-hRKp.RPGR is generated by transient transfection of a production cell line using fully characterised, sequenced plasmids. Production of the vector in the manufacturing process and second-strand synthesis of the vector genome rely on the host DNA polymerase, characterised by high fidelity DNA polymerisation and additional proofreading exonuclease activity, leading to very low error rate of DNA replication. The genomic integrity of the AAV5-hRKp.RPGR vector genome is tested by DNA sequencing of the vector genome. Once administered to the patient, the formation of replication-competent viral particle transporting the therapeutic cassette is consider highly unlikely mainly because 1) it would require simultaneous co-infection with a helper virus and a WT AAV to obtain a replication-competent viral particle within the same cell, and 2) the packaging efficiency will be profoundly affected during packaging of DNA above 5 kb.									
Is the GMO significantly pathogenic or harmful in any way (including its extracellular products), either living or dead? Yes (.) No (X) Unknown (.)									
(a) to which of the following organisms? N/A									
humans (.) animals (.) plants (.) other (.)									
(b) give the relevant information specified under Annex III A, point II(A)(11)(d) and II(C)(2)(i) N/A									
Description of identification and detection methods									
(a) Techniques used to detect the GMO in the environment (q)PCR with primers specific of the recombinant viral DNA									
(b) Techniques used to identify the GMO Molecular identity: PCR and sequence analysis, qPCR with specific probe Viral protein identity: SDS PAGE and Western Blot									
Information relating to the release									

Purpose of the release (including any significant potential environmental benefits that may be

AAV5-hRKp.RPGR is to be used in a clinical trial to treat a disease.

is the GMO in any way different from the recipient as far as pathogenicity is

(d)

2.

3.

4.

F.

1.

expected)

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 (.) No (X) If yes, specify

- 3. Information concerning the release and the surrounding area
 - (a) Geographical location (administrative region and where appropriate grid reference): Site 1:

UZ Gent, C. Heymanslaan, 10, 9000, Belgium

- (b) Size of the site (m^2) :
 - (i) actual release site (m²): N/A
 - (ii) wider release site (m^2) : N/A
- (c) Proximity to internationally recognised biotopes or protected areas (including drinking water reservoirs), which could be affected:
 N/A as AAV5-hRKp.RPGR will be administered in a controlled hospital setting.
- (d) Flora and fauna including crops, livestock and migratory species which may potentially interact with the GMO.
 N/A as AAV5-hRKp.RPGR will be administered in a controlled hospital setting.
- 4. Method and amount of release
 - (a) Quantities of GMOs to be released:

The GMO is administered to humans enrolled in a clinical trial in a controlled hospital setting and is not intended to be released. Based on the intraocular route of administration, none to minimal release in the form of shedding (e.g. in tears) in quantities unable to cause significant infection is expected (EC, Good Practice on the assessment of GMO related aspects in the context of clinical trials with AAV clinical vectors).

- (b) Duration of the operation:

 AAV5-hRKp.RPGR will be given as a subretinal injection, in the timeframe of hours.
- (c) Methods and procedures to avoid and/or minimise the spread of the GMOs beyond the site of the release.

The GMO is introduced into the human body and is not expected to be released (see Section 4(a)).

AAV5-hRKp.RPGR will be prepared and administered by trained medical professionals to patients that have met the study entry criteria and have been enrolled into the study. In-house transport (i.e. at the clinical site) takes place according to local guidelines. All clinical waste from the procedure will be disposed according to the local policy. Standard operating procedures for disposal within the medical facility will be consistent with the guidance given in the WHO Laboratory Biosafety Manual, 3rd Ed (2004) for BSL1/2. In the medical facility, this will involve temporary containment in sharps bins or clearly marked bags (e.g. biohazard, medical

waste) prior to autoclaving and/or incineration either on- or off-site as per local institutional guidelines for handling potentially biohazardous materials.

- 5. Short description of average environmental conditions (weather, temperature, etc.)
 Not applicable: given that AAV5-hRKp.RPGR is prepared for administration and given to subjects in a clinical environment, it is not anticipated that AAV5-hRKp.RPGR will be released into the environment.
- 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
- 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	Name of target organism (if applicable)					
	(i) or	der and/or higher taxon (for animals)	Primates				
	(ii)	family name for plants	•••				
	(iii)	genus	Homo				
	(iv)	species	Homo Sapiens				
	(v)	subspecies	•••				
	(vi)	strain	•••				
	(vii)	cultivar/breeding line	•••				
	(viii)	pathovar	•••				
	(ix)	common name	Human				

2. Anticipated mechanism and result of interaction between the released GMOs and the target organism (if applicable)
In XLRP-patients treated as part of the proposed clinical trial (EudraCT 2020-002873-88), AAV5-hRKp.RPGR is administered to the subretinal space to deliver a functional transgene encoding the human RPGR gene to the target tissue to provide functional RPGR protein facilitating functional and morphological rescue of photoreceptors and consequently improving vision.

- 3. Any other potentially significant interactions with other organisms in the environment. AAV5-hRKp.RPGR will be administered in a clinical site setting and is replication-deficient, therefore it is highly unlikely that the GMO will come in contact with other organisms or the environment. As AAV5-hRKp.RPGR cannot replicate, the inserted genetic trait cannot be transferred to the environment at large.
- Is post-release selection such as increased competitiveness, increased invasiveness for the GMO likely to occur?
 Yes (.) No (X) Not known (.)
 Give details: AAV5-hRKp.RPGR is a replication-deficient viral vector and is therefore at a competitive disadvantage when compared to WT AAV strains.
- 5. Types of ecosystems to which the GMO could be disseminated from the site of release and in which it could become established

AAV5-hRKp.RPGR is a replication-deficient AAV vector and is not expected to spread to the environment in any significant quantities.

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)	(i)	order and/or	higher	taxon (for	animals)	
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(-)		
(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:

 Negligible
 - (b) from other organisms to the GMO: Negligible
 - (c) likely consequences of gene transfer:
 Negliglible
- 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 specific studies on the potential ecological impact of AAV5-hRKp.RPGR have been conducted or are considered necessary.
- 9. Possible environmentally significant interactions with biogeochemical processes (if different from the recipient or parental organism)

AAV5-hRKp.RPGR is not known to have any impact on biogeochemical processes.

H. Information relating to monitoring

1. Methods for monitoring the GMOs
Viral shedding from patients who receive AAV5-hRKp.RPGR as part of the clinical trial will
be closely monitored using qPCR.

2. Methods for monitoring ecosystem effects

There are no specific plans for monitoring the environment during the release, other than monitoring viral shedding from clinical trial participants as AAV5-hRKp.RPGR is not expected to be released into the environment.

3. Methods for detecting transfer of the donated genetic material from the GMO to other organisms.

N/A

4. Size of the monitoring area (m²)

N/A

There are no specific plans for monitoring the environment during the release, other than monitoring viral shedding from clinical trial participants as AAV5-hRKp.RPGR is not expected to be released into the environment.

5. Duration of the monitoring

Viral shedding from patients who receive AAV5-hRKp.RPGR as part of the clinical trial will be assessed up to 4 weeks post administration.

6. Frequency of the monitoring

Samples will be taken as per the clinical study protocol, bi-weekly in the first week post administration and at week 4.

I. Information on post-release and waste treatment

1. Post-release treatment of the site

Any surface contaminated with AAV5-hRKp.RPGR will be decontaminated according to applicable site-specific policies and procedures, using a disinfectant with validated efficacy against AAV.

2. Post-release treatment of the GMOs

Elimination or inactivation of left-overs of AAV5-hRKp.RPGR is performed in a manner consistent with the local policy and standard practice of the institution for potentially biohazardous materials.

3. (a) Type and amount of waste generated

GMO waste may consist of vials, administration sets (tubing, syringes, needles, and related accessories), and personal protective equipment as worn by the clinical staff (e.g. gloves, gowns).

3. (b) Treatment of waste

All waste generated (material in contact with the GMO during the preparation and administration of AAV5-hRKp.RPGR) will be disposed of according to the local policy. Standard operating procedures for disposal within the medical facility will be consistent with the guidance given in the WHO Laboratory Biosafety Manual, 3rd Ed (2004) for BSL1/2. In the medical facility, this will involve temporary containment in sharps bins or clearly marked bags (e.g. biohazard, medical waste) prior to autoclaving and/or incineration either on- or off-site as per local institutional guidelines for handling potentially biohazardous materials.

J. Information on emergency response plans

1. Methods and procedures for controlling the dissemination of the GMO(s) in case of unexpected spread.

In the event of an accidental spillage of AAV5-hRKp.RPGR, any surface contaminated with AAV5-hRKp.RPGR will be decontaminated according to applicable site-specific policies and procedures with a disinfectant with validated efficacy against AAV.

- 2. Methods for removal of the GMO(s) of the areas potentially affected. See Section J.1.
- 3. Methods for disposal or sanitation of plants, animals, soils, etc. that could be exposed during or after the spread

N/A - administration of AAV5-hRKp.RPGR will occur in a controlled hospital setting with trained staff. Decontamination of plants, (non-human) animals and soils will not be required.

4. Plans for protecting human health and the environment in the event of an undesirable effect AAV5-hRKp.RPGR will be administered at clinical trial sites by trained healthcare professionals following local rules for handling and disposal of genetically modified organisms and biological hazards. All patients will be monitored for adverse events as detailed in the clinical trial protocol.

Considering the negligible risk for the environment, no specific plans for protecting the environment are deemed necessary.

References

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