

# GENE THERAPY - IN VIVO GENE THERAPEUTICS — ADMINISTRATION AND HANDLING

## Procedure °

### DOCUMENT SUMMARY/KEY POINTS

- The purpose of this procedure is to ensure that *in vivo* gene therapeutics are handled and administered in clinical care settings in compliance with applicable NSW Health and SCHN policies and national regulatory requirements in order to ensure the safety of patients, staff and the environment.
- *In vivo* gene therapeutics must be securely stored under appropriate conditions at all times and personally couriered to the clinical area post-dispensing.
- Staff involved in the handling and administration of in vivo gene therapeutics must be
  trained on the therapy in use, the relevant physical containment (PC) level requirements
  and be authorised to administer the agent (as applicable). Documented evidence of
  biosafety training must be available to demonstrate competency. Refer to section on
  Staff Training.
- All staff involved in the handling and administration of an *in vivo* gene therapeutic must complete and record any occasions of use on the *In Vivo* Gene Therapeutics Administration Log (Appendix).
- The clinical space to be used for administration must be confirmed as appropriate by the
  treating medical officer in consultation with the responsible Nurse Unit Manager (NUM)
  or Delegate, with consideration of the patient's condition/care needs, risks associated
  with the use of the *in vivo* gene therapeutic, risks to other patients or staff and
  requirements for local storage or reconstitution and access to equipment/supplies.
- Prior to administration, *in vivo* gene therapeutics must be checked in accordance with the SCHN Practice Guideline 2020-043 Medication Administration.

This document reflects what is currently regarded as safe practice. However, as in any clinical situation, there may be factors which cannot be covered by a single set of guidelines. This document does not replace the need for the application of clinical judgement to each individual presentation.

Approved by:	SCHN Policy, Procedure and Guideline Committee	
Date Effective:	1 <sup>st</sup> April 2021	Review Period: 3 years
Team Leader:	Nurse Unit Manager	Area/Dept: Kids Research CHW

Date of Publishing: 8 October 2021 11:47 AM

Date of Printing:

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Procedure: Gene Therapy - In Vivo Gene Therapeutics - Administration and Handling



- Patient and family verbal and/or written education must be delivered by the treating medical officer or delegate prior to administration of the *in vivo* gene therapeutic.
- Personal Protective Equipment (PPE) must be worn as per the requirements for the Therapy.
- A spill kit, appropriate for the therapy in use, must be accessible at all times.
- Two fully qualified staff must remain present until administration of the *in vivo* gene therapeutic has commenced. A medical officer should be present for the first 15 minutes of administration. At least one qualified nursing staff member must remain with the patient during administration for observation of any reaction and vital sign changes.
- In vivo gene therapeutics should be administered within 'normal working hours'
  wherever possible when a full range of specialist expertise, knowledge and support is
  readily accessible. If not possible to administer during these hours, please ensure
  appropriate staff will be available to escalate through should they be needed.
  Administration should take place in a low-foot-traffic area to minimize risk of error and
  interruption.
- All post-administration care, including requirements for PPE, should follow standard clinical care practices, unless the medical officer nominates that additional safeguards are necessary to protect patients, staff and the environment, in accordance with the Product Information (PI) or equivalent.
- In vivo gene therapeutics and all exposed disposable products are to be managed as described in SCHN Procedure – Transport, Waste & Spill Management of Medicinal Products containing GMOs (Document currently in draft), unless otherwise specified.

This document reflects what is currently regarded as safe practice. However, as in any clinical situation, there may be factors which cannot be covered by a single set of guidelines. This document does not replace the need for the application of clinical judgement to each individual presentation.

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#### CHANGE SUMMARY

- N/A New Document
- 8/10/2021 Minor changes:
  - Details added to staff training, product labelling, PPE requirements, and exposure records.
  - Title changed for consistency other Gene Therapy documents and references to related documents added.

#### READ ACKNOWLEDGEMENT

- **Training/Assessment Required** Staff responsible for the direct management and care of patients receiving *in vivo* gene therapeutics must read and acknowledge this Procedure, and be trained in the specific requirements of the therapy.
- All staff handling of in vivo gene therapeutics should read and adhere to OGTR mandated training when required
- All Registered Nurses and Enrolled Nurses employed by SCHN must successfully complete the Mandatory eLearning 'Fundamentals of paediatric medication safety' found in My Health Learning before they can check or administer medications.
- All nursing staff working with in vivo gene therapeutics should read and acknowledge NSW Health Policy – Medication Handling in NSW Public Health Facilities.
- Medical staff and Pharmacists should read this document, SCHN 'Medication Administration' ePolicy and NSW Health Policy – Medication Handling in NSW Public Health Facilities.

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#### Purpose/Scope

The purpose of this procedure is to ensure that *in vivo* gene therapeutics are handled (including transferred/transported) and administered in compliance with applicable NSW Health and SCHN policies and national regulatory requirements in order to ensure the safety of patients, staff and the environment.

The requirements of this Procedure are applicable regardless of whether the *in vivo* gene therapeutic is being used for investigational (e.g. research) or non-investigational (standard of care) purposes and regardless of the regulatory mechanism used to access the therapeutic (e.g. CTA, SAS, CAS, LSDP, Formulary). In all cases, requisite approvals (e.g. HREC/RGO, SCHN Drug Committee/TGA, OGTR) must be obtained prior to the sourcing and use of *in vivo* gene therapeutics in clinical care settings.

Procedures for pharmacy in relation to the receipt, storage, accountability and reconstitution of *in vivo* gene therapeutics (if applicable) are outside the scope of this document. Contact Pharmacy directly for further information if required.

The Procedure must be followed by all staff involved in the handling and administration of *in vivo* gene therapeutics at SCHN. Additionally, staff who are directly involved in handling and administration must acquire and maintain biosafety training appropriate for the therapeutic.

#### **Background**

*In vivo* gene therapeutics are novel, complex and technical products which aim to provide new possibilities for patients with chronic and often fatal conditions. Gene therapy seeks to modify or introduce genes into a patient's body with the goal of durably treating, preventing or potentially even curing disease. *In vivo* gene therapeutics are rapidly developing and may introduce new risks to patients, staff and the environment.

Due diligence must be applied in ensuring that the treating medical officer and care team are aware of the unique profile of the *in vivo* gene therapeutic in use, including any additional safeguards necessary to protect patients, staff and the environment, as defined by the Product Information (PI) or equivalent<sup>1</sup>.

In vivo gene therapeutics generally consist of a vector or delivery formulation/system containing a genetic construct engineered to encode a specific therapeutic sequence or protein responsible for the regulation, repair, addition or deletion of a genetic sequence. The active substance is the nucleic acid sequence(s), or genetically modified microorganism(s) or cells. The active substance may be composed of multiple elements.

<sup>&</sup>lt;sup>1</sup> The type of information available for therapies will vary in accordance with current marketing authorisation/status (e.g. whether it is experimental being administered in the context of clinical research or approved for a given indication). Such information may be in the form of Product Information (PI), Consumer Medicine Information (CMI), Investigator Brochure (IB) and/or Summary of Product Characteristics (SPC).



#### **Staff Training**

- Staff involved in the handling and administration of in vivo gene therapeutics must be trained on the therapeutic product in use, requirements for working with Genetically Modified Organisms (biosafety training) and be authorised to administer the agent (as applicable). Documented evidence of training must be available to demonstrate competency. Specific biosafety training can be arranged through the Kids Advanced Therapeutics Program Manager.
- In addition, all staff involved in the handling and administration must complete and record any occasions of preparing, handling and/or administering the therapy on the SCHN *In Vivo* Gene Therapeutics Administration Log (Appendix).
- All SCHN medication handling and administration policies must be read and acknowledged by any staff members involved in such actions.

#### **Patient and Family Education**

- Patient and family verbal and/or written education must be delivered by the treating medical officer or delegate prior to administration of *in vivo* gene therapy.
- Any education provided to the patient and family must be clearly documented, along with the consent process, in the patient's medical record.
- Education must include:
  - o In vivo gene therapy specific information
  - Concomitant medications and fluids
  - Treatment protocol and cycle of treatment (if applicable)
  - Potential side effects and symptom management (acute and chronic)
  - Potential environmental risks related to the in vivo gene therapy (e.g. shedding)
  - Waste management (if applicable)
  - Who and when to contact post hospital admission if symptoms/concerns arise
- Patients, parents and/or family members should be provided with an in vivo gene
  therapy record, which includes details of product administration, and contact details of
  the treating medical officer should the patient receiving the therapy need care in a
  facility unfamiliar to their medical history.



#### **Procedure**

#### Transfer/Transit

- On notification of dispensing by Pharmacy, the *in vivo* gene therapeutic must be
  personally couriered by appropriately trained staff to the clinical space to be used for
  administration of the agent. These agents are currently prepared in a biosafety cabinet
  at CHW by CHW Pharmacy.
- In vivo gene therapeutics must be stored under appropriate conditions as indicated by individual providers at all times during transfer/transit. A key condition is maintenance within a defined temperature range.
- A chain of custody that enables the therapy to be tracked from the point of collection to delivery to the clinical care setting must be maintained at all times by the CHW pharmacy personnel.
- Transfer/transit of the therapy must only occur once the timing of administration of the agent has been confirmed by the medical officer or delegate, in order to avoid any prolonged storage in the clinical space being used for administration.
- In vivo gene therapeutics must be packaged and transported in compliance with all requirements of the OGTR - Guidelines for the Transport, Storage and Disposal of GMOs.
- In the event of an incident during transfer/transit, such as the therapy being dropped, crushed, or involved in a collision follow requirements of OGTR and the SCHN Procedure – Transport, Waste & Spill Management of Medicinal Products containing Genetically Modified Organisms.

#### **Clinical Space**

- The clinical space to be used for administration must be confirmed as appropriate by the treating medical officer in consultation with the responsible Nurse Unit Manager (NUM) or delegate.
- Consideration should be given to the patient's condition/care needs, any risks
  associated with the use of the *in vivo* gene therapeutic (including for management of
  adverse events and/or containment), any requirements for storage or reconstitution in
  the clinical care setting and access to the necessarily equipment/supplies.
- Due to the risk of acute systemic reaction including anaphylaxis it is required that appropriate resuscitation equipment and medication is readily available by the bedside throughout the entire administration process and post-administration observation period.
- On receipt, the *in vivo* gene therapeutic must be clearly labelled and stored securely in the medication room of the clinical care space preferably in a secure locked cabinet or fridge (if appropriate) when not immediately being administered. No medication is to be left at the bedside.



- Any preparation for administration of the *in vivo* gene therapeutic in the clinical care setting must occur:
  - on a medication trolley away from distractions, and
  - maintaining an aseptic field when required and
  - o only by the staff administering with the second checker.

#### **Preparation**

- Prior to consent and administration of the gene therapeutic, the specific product must be approved by the appropriate committees including ethics and governance for clinical trial therapeutics, or IPU/formulary approval in a standard of care setting.
- Ensure that the *in vivo* gene therapeutic is checked in accordance with the SCHN Practice Guideline 2020-043 Medication Administration.
- Gene therapy products will be prepared in aseptically in pharmacy and delivered to the ward area in accordance with any OGTR requirements. Ensure pharmacy is contacted at least 48 hours in advance prior to gene therapy administration to allow for preparation.
- Gene therapy products will be labelled as biohazardous with appropriate stickers identifying them as requiring special precautions when handing and administering. Stickers include:



# • Perform hand hygiene and don PPE as per SCHN guidelines and/or specific product requirements. PPE must include, but is not limited to:

- o A long sleeve gown
- o Gloves
- Protective eye wear: This can be goggles or protective eyewear with side shields or visors if available
- Enclosed footwear.



- Ensure long hair is tied back.
- Use a closed system transfer device (CSTD) where possible when administering and handling biohazardous medication. Where it is not advised to use a CSTD by the product manufacturer, a risk assessment should be performed in consultation with the institutional biosafety committee.
- Two qualified staff must check the prescribed in vivo gene therapy in accordance with the SCHN Practice Guideline 2020 043 Medication Administration and remain present until the administration has been commenced. Qualified staff members include accredited registered nurses or medical officers. At least one checker must be an RN (Year 2 8<sup>th</sup> year thereafter). A qualified medical officer must remain present for at least 15 minutes for observation of any reaction and vital sign changes, while a qualified nurse must remain with the patient until the administration is completed, unless otherwise specified.
- If not already present, notify the treating medical officer that the infusion is about to commence and ensure that they will be present for the first 15 minutes of the infusion.
- Ensure emergency drug calculations for resuscitation are readily available and emergency medications are prepared and at the bedside should a reaction occur.
- Where an infusion or a syringe pump is used to administer a medication the settings must be checked by a second person.
- In vivo gene therapies should be administered within 'normal working hours' when a full range of specialist expertise, knowledge and support is readily accessible. If this is not possible, please ensure appropriate staffing is available should you need to escalate care in an emergency.
- Administration should take place in a low-foot-traffic area to minimize risk of error and interruption.
- All equipment used by the bedside for administration should be cleaned, taken away or discarded appropriately at the end of the procedure. Refer to SCHN Procedure – Transport, Waste & Spill Management of Medicinal Products containing Genetically Modified Organisms.
- It is the expectation that all interventions and clinical assessments are documented clearly in the patient's medical record as per SCHN policy 2016-9052 – Clinical Procedure Safety.

#### **Post-Administration**

- All post-administration care, including requirements for PPE, should follow standard clinical care practices, unless the treating medical officer nominates that additional safeguards are necessary to protect patients, staff and the environment, in accordance with the PI or equivalent.
- All staff involved in post-administration care must to be aware of potential risks associated with the *in vivo* gene therapy including side effects and any



notification/escalation pathways applicable. Education resources should be provided prior to assuming care of the patient.

- Any educational resources available should be uploaded to the patient's medical record for easy reference.
- Gene therapy contains GMOs which are used to deliver the therapeutic gene to the
  patient. The GMO is a viral vector which can be found in bodily fluids for up to 30 days
  after treatment. This includes vomiting, saliva, urine and faces. Exposure may occur
  through;
  - removing or inserting catheters
  - o handling vomitus, blood, excreta, or fluid drained from body cavities
  - o handling bedpans, urinals, emptying urinary catheter bags, colostomy or urostomy
  - o vomit bags, wet nappies and incontinence pads, and wet dressing materials
  - handling bed linen or clothing soiled with a patient's waste, or potentially contaminated with the medication
- Staff should wear gloves and follow hand hygiene procedures when handling bodily fluids until 30 days post the gene therapy administration. Appliances that may be contaminated with patient bodily fluids, such as disposable nappies, should be placed into biohazard waste bags which are then tied and discarded of in a clinical waste bin.

#### **Waste Management**

- Refer to SCHN Procedure Transport, Waste & Spill Management of Medicinal Products containing Genetically Modified Organisms.
- Waste should be managed in accordance with the SCHN Policy, unless the treating
  physician nominates that additional safeguards are necessary to protect patients, staff
  and the environment, or in accordance with any licencing requirements, the PI or
  Protocol (for therapies used as part of clinical research).

#### **Spill Management**

- A biological spill requires immediate management and must be effectively controlled so as to avoid unnecessary contamination of the environment.
- Ensure that a spill kit, appropriate for the *in vivo* gene therapeutic in use, is accessible in the clinical space at all times.
- Biological spill kits should accompany the product from the point of pharmacy dispensing through to treatment administration in the clinical area.
- In the event of a spill or other incident, pre-, during or post-administration, ensure that the appropriate spill kit is immediately accessed and used.



- Follow the SCHN Procedure Transport, Waste & Spill Management of Medicinal Products containing Genetically Modified Organisms for detailed information on how to manage spills.
- Ensure that the SCHN Practice Guideline 2006-8324 Incident Management requirements are followed.

#### **Records of Staff Exposure**

- Exposure Records are to be maintained by individual staff members at the time of administration of a hazardous medication. This is done by manual data entry (see appendix 1) using a paper based form.
- On resignation, a copy of the exposure records is available to the exiting staff member on request.
- Biohazardous therapeutic spills or spill equivalents must be reported in IMS+. A spill
  equivalent event is generally defined as a spill of a substance (i.e. patient waste (vomit,
  urine, blood, faeces)) that may be contaminated with hazardous medication, and should
  be managed with a spill kit and full PPE.
- Exposure incidents to hazardous medications must be reported in ims+ and a copy saved in the staff members' personnel file.

#### **Appendices**

SCHN In Vivo Gene Therapy Administration Log

#### **Abbreviations**

CAS (	Compassionate /	Access Scheme

CHW The Children's Hospital at Westmead

CMI Consumer Medicine Information
CSTD Closed System Transfer Device

CTN Clinical Trial Notification
CTA Clinical Trial Approval

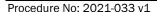
EMA European Medicines Agency

GMO Genetically Modified Organism

HREC Human Research Ethics Committee

IB Investigators Brochure

IBC Institutional Biosafety Committee





IPU Individual Patient Use

LSDP Life Saving Drugs Program

NSW New South Wales

OGTR Office of the Gene Technology Regulator

PC Physical Containment

PI Product Information

RGO Research Governance Office

SAS Special Access Scheme

SCH Sydney Children's Hospital

SCHN Sydney Children's Hospitals Network
SmPC Summary of Product Characteristics
TGA Therapeutic Goods Administration

#### References

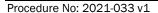
- CHW Practice Guideline Medication Management and Handling http://webapps.schn.health.nsw.gov.au/epolicy/policy/603
- 2. EMA Guideline on the Quality, Non-Clinical and Clinical Aspects of Gene Therapy Medicinal Products [EMA/CAT/80183/2014] <a href="https://www.ema.europa.eu/en/documents/scientific-guideline/draft-guideline-guality-non-clinical-clinical-aspects-gene-therapy-medicinal-products">https://www.ema.europa.eu/en/documents/scientific-guideline/draft-guideline-guality-non-clinical-clinical-aspects-gene-therapy-medicinal-products</a> en.pdf
- EMA Guideline on Safety and Efficacy Follow-Up and Risk Management of Advanced Therapy Medicinal Products [EMEA/149995/2008] - <a href="https://www.ema.europa.eu/en/guideline-safety-efficacy-follow-risk-management-advanced-therapy-medicinal-products">https://www.ema.europa.eu/en/guideline-safety-efficacy-follow-risk-management-advanced-therapy-medicinal-products</a>
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- 6. <a href="http://webapps.schn.health.nsw.gov.au/epolicy/policy/5134">http://webapps.schn.health.nsw.gov.au/epolicy/policy/5134</a>
- SCHN Policy 2018-180 Environmental Cleaning http://webapps.schn.health.nsw.gov.au/epolicy/policy/4606
- SCHN Policy 2013-9044 Incident Management Policy http://webapps.schn.health.nsw.gov.au/epolicy/policy/4936
- SCHN Policy 2017-157 Infection Prevention and Control Isolation and Transmission Based Precautions - <a href="http://webapps.schn.health.nsw.gov.au/epolicy/policy/3730">http://webapps.schn.health.nsw.gov.au/epolicy/policy/3730</a>
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- 11. SCHN Policy 2014-9027 Medication Handling in NSW Public Health Facilities http://webapps.schn.health.nsw.gov.au/epolicy/policy/3263
- SCHN Policy 2016-9029 Personal Protective Equipment for Infection Control http://webapps.schn.health.nsw.gov.au/epolicy/policy/2609
- SCHN Policy 2015-9070 Waste Management http://webapps.schn.health.nsw.gov.au/epolicy/policy/4701
- 14. SCHN Practice Guideline 2013-9031 Hand Hygiene http://webapps.schn.health.nsw.gov.au/epolicy/policy/4806
- SCHN Practice Guideline 2006-8324 Incident Management -http://webapps.schn.health.nsw.gov.au/epolicy/policy/3795
- SCHN Practice Guideline 2020-043 Medication Administration http://webapps.schn.health.nsw.gov.au/epolicy/policy/5024



- 17. SCHN Procedure 2018-183 Accountable Medicines Lost or Stolen Report Procedure http://webapps.schn.health.nsw.gov.au/epolicy/policy/4269
- SCHN Procedure 2017-226 Accountable Medicines Audits http://webapps.schn.health.nsw.gov.au/epolicy/policy/4167/
- 19. SCHN Procedure 2019-139 Clinical Research Investigational Medicinal Product Accountability <a href="http://webapps.schn.health.nsw.gov.au/epolicy/policy/4631">http://webapps.schn.health.nsw.gov.au/epolicy/policy/4631</a>
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- 24. SCHN Procedure 2019-028 Clinical Research Staff Roles and Responsibilities http://webapps.schn.health.nsw.gov.au/epolicy/policy/4624
- 25. SCHN Procedure 2019-027 Clinical Research Staff Qualifications and Training Records <a href="http://webapps.schn.health.nsw.gov.au/epolicy/4623">http://webapps.schn.health.nsw.gov.au/epolicy/4623</a>
- 26. SCHN Procedure Transport, Waste & Spill Management of Medicinal Products containing Genetically Modified Organisms (Document currently in draft)
- 27. TGA The Australian Regulatory Guidelines for Biologicals (ARGB) https://www.tga.gov.au/publication/australian-regulatory-guidelines-biologicals-argb

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# **Appendices**

IN VIVO GENE THERAPEUTIC ADMINISTRATION LOG*									
Name	Employee Number								
Department				_					
	EXPOSURE LOG					CHEC	CHECKED BY		
Date (DD-MMM-YY)	Product	Dosage (Strength/Form)	Route of Administration	Exposure Time (24HR)	Activity	PPE Used	Signature	Signature	Date (DD-MMM- YY)

<sup>\*</sup>All staff involved in the handling and administration must complete and record any occasions of preparation and administration on the SCHN *In Vivo* Gene Therapeutic Administration Log