

This patient group direction (PGD) must only be used by registered health professionals who have been named and authorised by their organisation to practice under it. The most recent and in date final signed version of the PGD should be used.

Patient Group Direction (PGD)

For the administration of

Methoxyflurane (Penthrox)

By registered health care professionals for

Emergency relief of moderate to severe pain in conscious adult patients with trauma and associated pain

Throughout the Manx Care and those contracted by the Manx Care where appropriate within practice

PGD NUMBER 20

1. Change history

Version number	Change details	Date
1	Original PGD ratified	25/08/2023

Reference number: 20

Valid from: August 2023. Review date: August 2025

Version: 1 Page 1 of 6

2. Medicines practice guideline 2: Patient group directions

Refer to the relevant sections of NICE medicines practice guideline 2: *Patient group directions* as stated in the blank template notes. For further information about PGD signatories, see the NHS and Manx Care <u>PGD website FAQs</u>

3. PGD development

Refer to the <u>NICE PGD competency framework for people developing PGDs</u>

Job Title & organisation	Name	Signature	Date
Author of the PGD (Senior Paramedic)			
Member of the PGD working group			

4. PGD authorisation

Refer to the <u>NICE PGD competency framework for people authorising PGDs</u>

Job Title	Name	Signature	Date
Medical Director			
Chief Pharmacist/ Pharmaceutical Adviser			
Nurse Consultant			
Director of Nursing			
GP Adviser			
Senior Microbiologist (if PGD contains antimicrobials)	Dr Rizwan Khan	N/A	N/A

Reference number: 20

Valid from: August 2023. Review date: August 2025

5. PGD adoption by the provider

Refer to the <u>NICE PGD competency framework for people authorising PGDs</u>

Job title and organisation	Signature	Date	Applicable or not applicable to area

6. Training and competency of registered healthcare professionals, employed or contracted by the Manx Care, GP practice or Hospice

Refer to the <u>NICE PGD competency framework for health professionals using PGDs</u>

	Requirements of registered Healthcare professionals working under the PGD
Qualifications and professional registration	Registered Nurse or Paramedic, working within or contracted by Manx Care who are permitted staff groups as outlined within the current PGD policy
Initial training	 Knowledge of current guidelines and the administration of the drug specified in this PGD/BNF and of the inclusion and exclusion criteria Training which enables the practitioner to make a clinical assessment to establish the need for the medication covered by this PGD Training in the use of Methoxyflurane (Penthrox) Local training in the use of PGDs
Competency assessment	 Completion of the "Penthrox University for Healthcare Professionals" online training and production of a training completion certificate to the person's line manager Staff will be assessed on their knowledge of drugs and clinical assessment as part the competency framework for registered health professionals using PGD's
Ongoing training and competency	The registered health care professionals should make sure they are aware of any changes to the recommendations for this medication; it is the responsibility of the registered health care professionals to keep up to date with continuing professional development. PGD updates will be held every two years

Reference number: 20

Valid from: August 2023. Review date: August 2025

7. Clinical Conditions

linical condition or Emergency relief of moderate to severe pain in
tuation to which this conscious adult patients with trauma and associated pain.
GD applies
• Adults over 18 years of age
 Patients with moderate to severe pain caused by traumatic
injury
**Clusion criteria • Children under 18 years of age
Unconscious patients
Patients with pain not associated with trauma.
Recent use of Methoxyflurane (more than 15 mL in the
previous week)
 Patients with known allergy or hypersensitivity to
Methoxyflurane or anaesthetic gases
Patients with liver damage/impairment
Chronic kidney disease (stage 4/5)
 Altered level of consciousness due to any cause including
head injury, drugs or alcohol
 Clinically evident cardiovascular instability, eg, hypotensive,
arrhythmia, symptomatic heart failure
Respiratory depression R
Personal or family history of malignant hyperthermia or
severe adverse reaction to inhaled anaesthetic gases
• Administration on consecutive days is not recommended
• Repeated administration more than once in the last three
months (increased risk of hepatic injury)
 Avoid administration in a confined space and ensure adequate ventilation
 Use with caution in older adults – increased risk of hypotension
Use with caution in pregnancy especially the first trimester and
in breastfeeding mothers
rrangements for Patient should be referred to a more experienced clinical
eferral for medical practitioner for further assessment
dvice
ction to be taken if Patient should be referred to a more experienced clinical
atient excluded practitioner for further assessment
ction to be taken if • A verbal explanation should be given to the patient on: the
atient declines need for the medication and any possible effects or potential
reatment risks which may occur as a result of refusing treatment
This information must be documented in the patients' health
records
Any patient who declines care must have demonstrated
capacity to do so
Where appropriate care should be escalated

Reference number: 20

Valid from: August 2023. Review date: August 2025

8. Details of the medicine

Name, form and strength	3 mL vial of Methoxyflurane 99.9% inhalation vapour, liquid		
of medicine Legal category	Proscription Only Modicine (POM)		
Indicate any off-label use	Prescription Only Medicine (POM) None		
(if relevant)	Notice		
Route/method of	Inhalation		
administration	IIIIIaiatioii		
Dose and frequency	Dose as per dose table below:		
	AGE	Adult ≥ 18 years	
	INITIAL DOSE	3 mL (1 bottle) see*	
	REPEAT DOSE	3 mL (1 bottle)	
	DOSE INTERVAL	None	
	VOLUME	3 mL	
	MAX DOSE	6 mL (2 bottles)	
	 analgesia for one hour. for 25 to 30 minutes Ensure activated cark inhaler as per manuf. Patients should be acachieve pain relief If stronger analgesia on the activated carb. Single dose is 3 mL (1 For analgesia, a maxishould not be exceed. 	dvised to take the lowest possible dose to discrequired, patient can cover dilutor hole from chamber with finger during use bottle) mum dose of 6 mL in a 24-hour period ded	
Quantity to be administered	3 to 6 mls (1 to 2 bottles) Dose as per dose table		
Maximum or minimum	Single episode of care		
treatment period			
Storage	Room temperature		
Adverse effects	 Drowsiness 		
	Headache or nausea		
	Feeling of extreme has	appiness	
	Feeling drunk		
	Taste disturbance		
	Coughing		
	Irritation to the eyes		

Reference number: 20

Valid from: August 2023. Review date: August 2025

	Mucous membranes	
	Skin reactions	
Records to be kept	The administration of any medication given under a PGD must be	
	recorded within the patient's medical records	

9. Patient information

Verbal/Written information to be given to patient or carer	 Verbal information must be given to patients and or carers for all medication being administered under a PGD Give the patient the Patient Alert Card https://www.medicines.org.uk/emc/rmm/397/Document Where medication is being supplied under a PGD, written patient information leaflet must also be supplied 	
	 A patient information leaflet is available on request If patients are feeling dizzy/drowsy they should be advised to avoid driving or operating heavy machinery 	
Follow-up advice to be	If symptoms do not improve or worsen or you become unwell, seek	
given to patient or carer	medical advice immediately	

10. Appendix A

References

- 1. British National Formulary (BNF) available online: https://bnf.nice.org.uk
- 2. Nursing and Midwifery "The code" available online: https://www.nmc.org.uk
- 3. Current Health Care Professions Council standards of practice
- 4. General Pharmaceutical Council standards
- 5. Electronic medicines compendium available online: https://www.medicines.org.uk
- 6. Penthrox University for Healthcare Professionals

11. Appendix B

Health professionals agreed to practice

- Each registered healthcare professional will hold their own Competency framework which will be signed and agreed by their mentor
- A mentor is defined within the Manx Care policy as any ward/area managers, sisters, senior nurses, GPs, pharmacists or senior paramedics who has completed the PGD training themselves

Reference number: 20

Valid from: August 2023. Review date: August 2025

Version: 1 Page 6 of 6