

Administration
PATIENT GROUP DIRECTION (PGD) FOR

ENTONOX GAS

YOU MUST BE AUTHORISED BY NAME, UNDER THE CURRENT VERSION OF THIS PGD BEFORE YOU ATTEMPT TO WORK ACCORDING TO IT

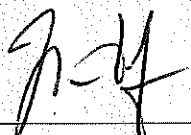


Clinical Condition	
Indication	Inhaled analgesic for rapid pain relief.
Inclusion criteria	Patients presenting to MIU, able to self-administer the gas and who are undergoing painful procedures or suffering pain from acute trauma or have cardiac pain.
Exclusion criteria If any of the following apply the PGD CANNOT be used and the patient must be referred to a prescriber	Unable to obtain a mouth seal or self-administer the gas. Impaired consciousness or sedation or intoxication Suspected pneumothorax. Air embolism / decompression sickness / following recent underwater dive / recent eye surgery using gas Gross abdominal distension First 16 weeks of pregnancy. Prior use within 4 days
Cautions - Seek further advice from doctor before proceeding and document advice	Patients on amiodarone (risk of ARDS) Patients on drugs which may enhance sedation eg morphine, benzodiazepines Use for longer than 24h period (as this requires haematological monitoring)
Further information	Gas separates at temperature below 6 ° C. Use in adequately ventilated area Patients need educating to use equipment correctly. Must be self-administered. Sufficient time must be allowed for adequate circulatory levels of nitrous oxide to develop, analgesic effects commence 30 seconds after inhalation, peak effects last for 2-3 minutes Not be used for more than a total of 24 hours, or more frequently than every 4 days,
Action if patient declines or is excluded	Refer to supervising doctor/A & E as appropriate. Document refusal or action taken in patient's records.

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Drug Details	
Name, form & strength of medicine	A gaseous mixture of 50% oxygen and 50% nitrous oxide
Legal status	Medical gas
Route/Method	Self administered inhalation via demand valve system
Dosage	As required
Frequency	Maximum duration 24h (without haematological monitoring)
Quantity to administer	As required
Side effects	Dizziness, euphoria, headache, nausea, loss of consciousness which are rapidly reversible
Advice to patient/carer	Patients should be advised how to use self-administration system. Do not drive or operate machinery for at least 30 minutes after Entonox analgesia and only then if patient feels competent
Follow up	All patients <u>must</u> be referred for further management

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Staff Characteristics	
Professional qualifications	Nurses on the NMC Register
Specialist competencies or qualifications	A registered nurse, after discussion and agreement with the MIU service/departmental lead. Has undertaken appropriate training for working under PGDs for the supply and administration of medicines and is trained in the management of anaphylaxis. Has undergone training in the safe use of medical gases
Continuing education & training	It is the responsibility of the individual to keep up-to-date with clinical developments as part of their continued professional development.
Referral Arrangements and Audit Trail	
Records/audit trail	Patient's name, address, date of birth. Contact details of GP (if registered). Diagnosis. Advice given to patient (including side effects). Signature/name of staff who administered the medication. Details of any adverse drug reaction and actions taken including documentation in the patient's medical record Referral arrangements (including self-care) Record the use of the PGD in the departmental log.
References/Resources and comments	BNF – British National Formulary Medical Gas Data Sheet (British Oxygen Company)
Clinical Authorisation	
Lead Doctor	Dr John Devapriam, Medical Director Signature:  Date: 5/12/18
Lead Pharmacist	Dr Alex Johnson, Prescribing Support Pharmacist Signature:  Date: 12.12.18
Organisational Authorisation	
On behalf of Worcestershire Health and Care NHS Trust	Michelle Clarke, Director of Nursing & Quality Signature:  Date: 6/12/18
Patient Group Direction Peer Reviewed by	
Senior MIU Nurses	

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Individual Authorisation

PGDs DO NOT REMOVE INHERENT PROFESSIONAL OBLIGATIONS OR ACCOUNTABILITY.

It is the responsibility of each professional to practice only within the bounds of their own competence and in accordance with their own Code of Professional Conduct.

Note to Authorising Managers: authorised staff should be provided with an individual copy of the clinical content of the PGD and a photocopy of the document showing their authorisation. Authorising managers should be sure that staff signed up to use the PGD have the necessary competence, training and knowledge to apply it.

I have read and understood the Patient Group Direction and agree to supply/administer this medicine only in accordance with this PGD. I confirm that I have the necessary competence, training and knowledge to apply it.

Name of Professional	Signature	Authorising Manager	Date