

PATIENT GROUP DIRECTION (PGD)

Administration of Furosemide By State Registered non-medical staff in Imaging Facilities at all sites where UHDB Imaging deliver services

Documentation details

Reference no:	UHDB252
Version no:	5.0
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Change history

Version number	Change details	Date
5.0	Reformatting, now applies to all UHDB sites	31/03/2023

Glossary

Abbreviation	Definition
RDH	Royal Derby Hospital
QHB	Queen's Hospital, Burton on Trent
FNCH	Florence Nightingale Community Hospital, Derby
SJCH	Samuel Johnson Community Hospital, Lichfield
SRPCH	Sir Robert Peel Community Hospital, Tamworth
ICH	Ilkeston Community Hospital
RCH	Ripley Community Hospital
LEHC	Long Eaton Health Centre
St. O	St. Oswald's Hospital, Ashbourne
Mob CT	UHDB owned and operated Mobile CT scanner
Mob MRI	UHDB owned and operated Mobile MRI scanner
Mob BS	UHDB owned and operated Mobile Mammography
UHDB	University Hospitals of Derby and Burton NHS Foundation Trust
POM	Prescription only medication

1. PGD template development (PGD Working Group)

PGD Working Group Membership (minimum requirement of consultant, pharmacist and a registered professional who can work under a PGD, or manages the staff who do). If this is a review of existing PGD, <u>replace</u> previous names with the individuals involved for this version

Name	Designation	
Mike Barnard	Clinical Manager: Compliance, Imaging Business Unit	
	(HCPC Registered Diagnostic Radiographer)	
Dr Rathy Kirke	Consultant Radiologist & Imaging Clinical Director	
Dr Rajeev Singh	Consultant Radiologist & Imaging Clinical Director	
James Hooley	Medication Safety Officer, Clinical governance pharmacist	

Where an antimicrobial is included, confirm the name, designation and date of the antimicrobial pharmacist who has reviewed this version

Name of antimicrobial pharmacist	Designation	Date Reviewed
n/a	n/a	n/a

2. Organisational authorisations

The PGD is not legally valid until it has had the relevant organisational authorisation.

University Hospitals of Derby & Burton NHS Foundation Trust authorises this PGD for use by the services or providers listed below:

Authorised for use by the following organisation and/or services

University Hospitals of Derby and Burton NHS Foundation Trust staff at the following sites: RDH, QHB, SRPCH, SJCH, FNCH, ICH, RCH, LEHC, St. O and Mob CT / Mob MRI / Mob BS units at locations in Staffordshire and Derbyshire

Limitations to authorisation

This organisation does not authorise the use of this PGD by staff not employed by UHDB, either directly or via an agency.

Organisational Authorisation (legal requirement).			
Role	Name	Sign	Date
Medicines Safety Officer (Pharmacist)	James Hooley	Signed copy held by Pharmacy	28/04/2023

Additional signatories (required as per legislation and locally agreed policy)			
Role	Name	Sign	Date
Medicines Safety Officer (Pharmacist)	James Hooley	Signed copy held by Pharmacy	28/04/2023
Consultant Radiologist & Imaging Clinical Director	Dr Rathy Kirke	Signed copy held by Pharmacy	02/03/2023
Consultant Radiologist & Imaging Clinical Director	Dr Rajeev Singh	Signed copy held by Pharmacy	02/03/2023
Professional Lead for Radiography	David Tipper	Signed copy held by Pharmacy	02/03/2023

Local enquiries regarding the use of this PGD may be directed to UHDB.PGDgovernance@nhs.net

Section 7 provides a registered health professional authorisation sheet. Individual professionals must be authorised by name to work to this PGD.

3. Characteristics of staff

Qualifications and professional registration	HCPC registered Radiographers and NMC registered Nurses
Initial training	 Completion of all Essential-to-role training as outlined in the UHDB PGD policy. Completion of training to ensure competent in all aspects of IV injection (Trust IV training, SCoR accredited training for IV contrast agent administration, or equivalent) Individual has read and understood full content of this PGD and signed authorisation (section 7)
	The completion of NICE's self-competency check lists available at: <u>https://www.nice.org.uk/guidance/mpg2/resources/competency-</u> <u>framework-for-health-professionals-using-patient-group-directions-</u> <u>msword-13672765</u>
Competency assessment	Competency evidence through core qualifications, recognised IV training or masters level training which will have included assessment for the following: - Surface anatomy and palpation skills - Injection and aseptic techniques - Knowledge of medically screening patients - Knowledge of relevant pharmacology - Contraindications and precautions - Emergency procedures - Safety - A period of supervised clinical practice by a medical practitioner, or an authorised non-medical injector Staff operating under this PGD are encouraged to review their competency using the <u>NICE Competency Framework for health</u> professionals using patient group directions. https://www.nice.org.uk/guidance/mpg2/resources/competency- framework-for-health-professionals-using-patient-group-directions- msword-13672765
	Individuals operating under this PGD are personally responsible for ensuring they remain up to date with the use of all medicines included in the PGD - if any training needs are identified these should be discussed with the either authorising manager (section 7) or the clinical manager for their Imaging modality so that further training can be provided as required.
Ongoing training and competency	Staff working under this PGD must take part in continuing professional development. Staff are encouraged to complete the self- assessment competency tool <u>NICE Competency Framework for</u> <u>health professionals using patient group directions.</u> <u>https://www.nice.org.uk/guidance/mpg2/resources/competency- framework-for-health-professionals-using-patient-group-directions- msword-13672765</u> and present this as part of their evidence of CPD

	at their Appraisal at least once every 3 years. Managers and staff must consider the need for any additional local training if staff d not regularly undertake work covered by the PGD, for example career breaks or parental leave, or when gaps in knowledge arise.
	Annual mandatory training updates for Immediate Life Support/ Resus Automatic External Defibrillation AED training *, managing anaphylaxis and aseptic 'non-touch' technique provided by UHDB.
	*Unless exempt from doing life support training due to personal risk assessment
The decision to supply any	medication rests with the individual registered health

The decision to supply any medication rests with the individual registered health professional who must abide by the PGD and any associated organisation policies.

Clinical condition or situation to which this PGD applies Criteria for inclusion	To be administered, intravenously, to patients as an inherent part of a Justified Imaging procedure. Administration must be according to the protocol / agreed scheme of work for the examination. Justified Imaging requests for examinations involving the intravenous administration of Furosemide.
Criteria for exclusion	 Consent not gained. Patients aged 16 years or under. Patients at moderate or high risk of Contrast Induced Kidney Injury using the Trust Matrix. Patients who have experienced a previous significant reaction to Furosemide. Patients who have experienced a previous significant reaction to amiloride and sulphonamide / sulphonamide derivative drugs. Dehydration. Severe Hypokalaemia or hyponatraemia Anuria / Renal Failure Addison's Disease Porphyria Pregnancy Breast Feeding Comatose/pre-comatose states associated with liver cirrhosis. Contraindications (exclusion criteria) are identified via verbal pre- examination checks with the patient. Referrers should indicate a patient's impaired renal function as part of the referral, in accordance with the Trust Clinical Guideline on the Prevention of Contrast Induced Kidney Injury.

4. Clinical condition or situation to which this PGD applies

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Cautions including any relevant action to be taken	 Additional monitoring may be required when patients have: Partial obstruction of urinary flow Hypotension Diabetes Gout Porphyria Electrolyte or fluid variations Professional athletes (may cause positive results in antidoping tests). Discuss with a Consultant Radiologist prior to administration. If in any doubt, advice should be sought and recorded before the drug is administered.
Action to be taken if the patient is excluded	 Discuss alternative imaging options with a Radiologist. Administration may still be indicated or alternative Imaging possible. Record reasons for exclusion and Radiologist advice in the patient record (CRIS) If the examination is no longer Justified, advise the referrer via a report and the patient of the need for alternative Imaging. Where alternative imaging is not appropriate, the referrer should tell the patient this, and what their management plan now is. If identified when the patient has attended for their scan, advise the patient of the need for alternative Imaging and of any additional risks; or that Imaging cannot be performed.
Action to be taken if the patient or carer declines treatment	 Discuss with a Radiologist or the referring clinical team. Document advice given / arrangements made. If the examination cannot proceed, mark the procedure as not done on CRIS and produce a report to inform the referring clinician that the procedure has not been performed, why and the advice given to the patient.
Arrangements for referral for medical advice	Medical advice should be sought from a Radiologist in the first instance. Advice provided, including the need for the patient to discuss their ongoing care with the referrer is documented as a report; available as hardcopy, or on CRIS, PACS, Lorenzo, Meditech and other IT systems.

5. Description of treatment

Name, strength & formulation of drug	Furosemide 20mg / 2ml
Legal category	РОМ
Route / method of administration	IV

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Indicate any off label use (if relevant).	N/A		
Dose and frequency of administration	10mg as a slow intravenous injection, as set out in examination protocols.		
Duration of treatment	Length of examination.		
Quantity to be supplied (leave blank if PGD is administration ONLY)	N/A		
Storage	Stock must be securely stored according to UHDB medicines policy and in conditions in line with the manufacturer's instructions.		
Drug interactions	 The following interactions have been identified and should be considered where it is known a patient is on the following medicines: Lithium Cisplatin chemotherapy Antibiotics Chloral hydrate Drugs for hypertension or cardiac arrythmia. Metformin Non-steroidal Anti-inflammatory drugs A detailed list of drug interactions is available in the SPC, which is available from the electronic Medicines Compendium website: 		
Adverse reactions	www.medicines.org.uk There are no side effects classified as common (affecting more than 1:100 patients). The following side effects are possible:		
	 Hypotension or Hypertension Headache, dizziness, vertigo, paraesthesia, or a sense of pressure in the head. Nausea or vomiting. Allergy or anaphylaxis. A detailed list of adverse reactions is available in the SPC, which is available from the electronic Medicines Compendium website: www.medicines.org.uk 		
Management of and reporting procedure for adverse reactions	 Healthcare professionals and patients/carers are encouraged to report suspected adverse reactions to the Medicines and Healthcare products Regulatory Agency (MHRA) using the Yellow Card reporting scheme on: <u>https://yellowcard.mhra.gov.uk</u> Record all adverse drug reactions (ADRs) in the patient's medical record. Serious adverse reactions (moderate harm or above as per NRLS definition) should be reported via trust incident management system (e.g., Datix) to ensure duty of candour and learning from harm during clinical use. Patients who are exhibiting signs of anaphylaxis will be referred for medical assistance (call Resuscitation Team if at an acute 		

	hospital: QHB or RDH) and call 999 and request urgent medical assistance if in a community setting.
Written information to be given to patient or carer	 Patients and/or carers advised to: Monitor for adverse reactions. Read the patient information leaflet covering risks / side- effects provided before giving consent (sensitively ensure patient is able to read and understand, if not then cover verbally)
	Patients are provided with contact details during working hours and are advised what to do outside working hours in case of any adverse reaction.
	Any specific advice for a particular patient will be written down and given to the individual patient. This will also be documented in the healthcare record.
Patient advice / follow up treatment	The patient/carer will be provided with verbal advice on aftercare requirements following their procedure.
	Patients will be monitored for sensitivity reactions before leaving the department.
	Follow up appointments will usually be with the referrer. Imaging staff should ensure that the patient has details of their follow up appointment or has details of how to contact the referrer to make this appointment.
Records	Patient records may be written in the hospital notes, written and scanned or electronic (Lorenzo, Meditech, CRIS, etc.)
	 Either the system holding the record, or the healthcare practitioner working under the PGD, must capture/document all of the following: name of individual, address, date of birth and GP with whom the individual is registered (if relevant) name of registered health professional name of medication supplied/administered. date of supply/administration dose, form, and route of supply/administration quantity supplied/administered. batch number and expiry date (if applicable e.g., injections and implants) advice given, including advice given if excluded or declines treatment. details of any adverse drug reactions and actions taken That the medications used were administered via Patient Group Direction (PGD) Records should be signed and dated (or a password-controlled e-records).
	All records should be clear, legible, and contemporaneous.



If you are not recording using an electronic system (which has ability to generate audit reports) then a record of all individuals receiving treatment under this PGD should also be in the clinical area for audit purposes as per UHDB PGD policy.
State 'administered under PGD' with name and signature of authorised registered Radiographer or Nurse.

6. Key references

Key references	 Electronic Medicines Compendium <u>http://www.medicines.org.uk/</u> Electronic BNF <u>https://bnf.nice.org.uk/</u> NICE Medicines practice guideline "Patient Group Directions" <u>https://www.nice.org.uk/guidance/mpg2</u> <u>https://medusa.wales.nhs.uk</u> Imaging department workflow for examinations involving medications. Imaging scheme of work the supply of laxative or contrast agent to patients for preparation and self-administration at home. Imaging scheme of work the supply of contrast agent to inpatients for self-administration in the Imaging Department. Imaging scheme of work the supply of contrast agent to inpatients for self-administration on the ward. Imaging IV injections policy. Trust Clinical Guideline for the Prevention of Contrast Induced Kidney Injury.
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7. Registered health professional authorisation sheet

PGD Name [version]: Imaging - Furesomide [v5.0] PGD ref: UHDB252

Valid from: 28/04/2023 Expiry date: 27/04/2026

Before signing check that the document you have read is published on Koha or is an in-date hard-copy with all necessary authorisations signed in section 2. The Name/Version/Ref of the document you have read MUST match this authorisation form.

Registered health professional

By signing this patient group direction you are indicating that

a) You agree to and understand all content and commit to only work within this framework.

b) You have completed any core PGD e-Learning or training records on My Learning Passport or within your department.

c) You meet the staff characteristics and have completed any additional learning/competency outlined in Section 3 of this PGD.

Patient group directions do not remove inherent professional obligations or accountability. It is the responsibility of each professional to practise only within the bounds of their own competence and professional code of conduct.

I confirm that I have read and understood the content of this Patient Group Direction and that I am willing and competent to work to it within my professional code of conduct.

Name	Designation	Signature	Date

Authorising manager / Assessor

I confirm that the registered health professionals named above have declared themselves suitably trained and competent to work under this PGD. I give authorisation on behalf of University Hospitals of Derby & Burton NHS Foundation Trust for the above named health care professionals who have signed the PGD to work under it.

Name	Designation	Signature	Date

Note to authorising manager

Score through unused rows in the list of registered health professionals to prevent additions post managerial authorisation.

This authorisation sheet must be retained by a manager in the clinical department where the PGD is in-use to serve as a record of those registered health professionals authorised to work under this PGD.