

## PATIENT GROUP DIRECTION (PGD)

### Administration of Heparin Sodium 50units/5ml injection By Registered Nurses in Cancer at UHDB

#### Documentation details

Reference no:	UHDB232
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Valid from:	15/12/2022
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Expiry date:	14/12/2022

#### Change history

Version number	Change details	Date
1	New Template	December 2022

#### Glossary

Abbreviation	Definition
CDU	Chemotherapy Day Units
CTAU	Combined Triage Assessment Unit
CDCS	Cancer Diagnostics & Clinical Support Division
EPR	Electronic Patient Record
ePMA	Electronic prescribing and medicines administration
SPC	Summary of product characteristics

## 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, replace previous names with the individuals involved for this version**

Name	Designation
Maja Moldawa	Divisional Lead Pharmacist
Prantik Das	Associate Clinical Director Oncology
Ian Amott	Associate Clinical Director Haematology
Joanna Beeney	Lead Chemotherapy nurse

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
Registered nurses who work with cancer & haematology wards and chemotherapy day units across University Hospitals Derby & Burton.
Limitations to authorisation
This organisation does not authorise the use of this PGD by any registered nurse outside of the CDCS division

Organisational Authorisation (legal requirement).			
Role	Name	Sign	Date
Medicines Safety Officer  <i>Pharmacist: Medicines Safety Officer, Chief Pharmacist or assigned deputies)</i>	James Hooley	<b>Signed copy held by Pharmacy</b>	<b>15/12/2022</b>

Additional signatories (required as per legislation and locally agreed policy)			
Role	Name	Sign	Date
Divisional Lead Pharmacist	Maja Moldawa	<b>Signed copy held by Pharmacy</b>	<b>14/12/2022</b>
Associate Clinical Director Oncology	Prantik Das	<b>Signed copy held by Pharmacy</b>	<b>14/12/2022</b>
Associate Clinical Director Haematology	Ian Amott	<b>Not required</b>	
Lead Chemotherapy nurse	Joanna Beeney	<b>Signed copy held by Pharmacy</b>	<b>14/12/2022</b>

Local enquiries regarding the use of this PGD may be directed to [UHDB.PGDgovernance@nhs.net](mailto: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

<b>Qualifications and professional registration</b>	- NMC registered nurse
<b>Initial training</b>	<ul style="list-style-type: none"> <li>- Completion of all Essential-to-role training as outlined in the UHDB PGD policy.</li> <li>- Individual has read and understood full content of this PGD and signed authorisation (section 7) .</li> <li>- Completion of Medicines Management Drug Assessment.</li> <li>- Training which enables the practitioner to make a clinical assessment in order to establish the need and supply the medicine according to the PGD.</li> <li>-Infusion Therapy Study Day if administering any IV medicines.</li> <li>- Training to administer via central venous access devices</li> <li>-Has undertaken appropriate training to carry out clinical assessment of patient leading to diagnosis that requires treatment according to the indications listed in the PGD.</li> <li>- Has undertaken appropriate training for working under Patient Group directive</li> </ul>
<b>Competency assessment</b>	<p>Staff operating under this PGD are encouraged to review their competency using the <a href="#">NICE Competency Framework for health professionals using patient group directions</a></p> <p>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 either authorising manager (section 7) or the manager within the PGD working group (section 1) so that further training can be provided as required.</p>
<b>Ongoing training and competency</b>	<p>Annual Medicines Safety Training (essential to role)</p> <p>Review/repeat initial training above when this PGD is revised</p>

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

#### 4. Clinical condition or situation to which this PGD applies

<b>Clinical condition or situation to which this PGD applies</b>	Maintenance of patency of central venous catheters (e.g. Hickman lines) and open-ended PICC lines
<b>Criteria for inclusion</b>	Patients over 16 years presenting with the above symptoms
<b>Criteria for exclusion</b>	<ul style="list-style-type: none"> <li>• Previous sensitivity or intolerance to the drug or any ingredient</li> <li>• Patients with abnormal clotting.</li> <li>• Patients under 16 years old</li> </ul>
<b>Cautions including any relevant action to be taken</b>	<ul style="list-style-type: none"> <li>• Caution should be exercised in patients with known hypersensitivity to low molecular weight heparins.</li> <li>• Rigorous aseptic technique should be observed at all times in its use.</li> <li>• Platelet counts should be measured in patients receiving heparin flushes for longer than five days (or earlier in patients with previous exposure to heparin). In those who develop thrombocytopenia or paradoxical thrombosis, heparin should immediately be eliminated from all flushes and ports.</li> <li>• Repeated flushing of a catheter device with heparin may result in a systemic anticoagulant effect.</li> </ul>
<b>Action to be taken if the patient is excluded</b>	<ul style="list-style-type: none"> <li>• Refer to medical staff for review and prescribing of alternative agent if appropriate.</li> <li>• Document reason for exclusion.</li> <li>• Record reasons for exclusion in patient notes</li> <li>• Advise patient on alternative treatment</li> </ul>
<b>Action to be taken if the patient or carer declines treatment</b>	<p>Document refusal, action taken and advice given in nursing documentation and refer to medical staff if appropriate</p> <ul style="list-style-type: none"> <li>• Document advice given</li> <li>• Advise patient on alternative treatment</li> </ul>
<b>Arrangements for referral for medical advice</b>	<ul style="list-style-type: none"> <li>• To contact combined triage assessment unit (CTAU) for assessment by advanced clinical practitioner (ACP) Or call on-call Oncologist.</li> <li>• - Alert the crash team (cardiac arrest team 2222)</li> </ul>

#### 5. Description of treatment

<b>Name, strength &amp; formulation of drug</b>	HEPARIN SODIUM 50UNITS/5ML INJECTION
<b>Legal category</b>	POM
<b>Route / method of administration</b>	Intravenous Maintenance of patency of central venous catheters (e.g. Hickman lines) and open-ended PICC lines
<b>Indicate any off-label use (if relevant)</b>	N/A

<b>Dose and frequency of administration</b>	<p>- 5ml weekly when line not in use</p> <p>- 5ml if line used every 8 hours or less often (otherwise use Sodium Chloride 0.9% if used more than every 8 hours).</p> <p>- Maximum of THREE doses in 24 hours to be administered without a prescription</p>
<b>Duration of treatment</b>	3 Doses
<b>Quantity to be supplied (leave blank if PGD is administration ONLY)</b>	N/A
<b>Storage</b>	<p>Stock must be securely stored according to UHDB medicines policy and in conditions in line with SPC as detailed below:</p> <p>Do not store above 25°C</p> <p>Store in the original package</p>
<b>Drug interactions</b>	<p>There are no drug specific interactions when heparin is used as a line lock. However, when an indwelling device is used for repeated withdrawal of blood samples for laboratory analyses and the presence of heparin or saline is likely to interfere with or alter results of the desired blood tests, the in situ heparin flush solution should be cleared from the device by aspirating and discarding a volume of solution equivalent to that of the indwelling venipuncture device before the desired blood sample is taken.</p> <p>Drug interactions are available in the SPC, which is available from the electronic Medicines Compendium website: <a href="http://www.medicines.org.uk">www.medicines.org.uk</a></p>
<b>Adverse reactions</b>	<p>Monitor for sensitivity reactions, alteration in clotting times.</p> <ul style="list-style-type: none"> <li>• Thrombocytopenia; haemorrhage; sensitivity reactions.</li> <li>• See also cautions in relation             <ul style="list-style-type: none"> <li>- Platelet counts</li> <li>- Repeated flushing using heparin</li> </ul> </li> <li>• A detailed list of adverse reactions is available in the SPC, which is available from the electronic Medicines Compendium website: <a href="http://www.medicines.org.uk">www.medicines.org.uk</a></li> </ul>
<b>Management of and reporting procedure for adverse reactions</b>	<ul style="list-style-type: none"> <li>• 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: <a href="https://yellowcard.mhra.gov.uk">https://yellowcard.mhra.gov.uk</a></li> <li>• Record all adverse drug reactions (ADRs) in the patient's medical record.</li> <li>• 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.</li> <li>•</li> </ul>

<b>Written information to be given to patient or carer</b>	Drug information leaflet can be provided
<b>Patient advice / follow up treatment</b>	<ul style="list-style-type: none"> <li>• Verbal advice on why drug administered, action of the drug and subsequent management of condition.</li> <li>• Inform the individual/carer of possible side effects and their management.</li> <li>• The individual/carer should be advised to seek medical advice in the event of an adverse reaction.</li> </ul>
<b>Records</b>	<p>For ePMA: Document the utilisation of the medicine under PGD on Chemocare or by ordering the appropriate drug order item on ePMA. Document the administration of the medicine.</p> <p>Either the system holding the record, or the healthcare practitioner working under the PGD, must capture/document all of the following:</p> <ul style="list-style-type: none"> <li>• name of individual, address, date of birth and GP with whom the individual is registered (if relevant)</li> <li>• name of registered health professional</li> <li>• name of medication supplied/administered</li> <li>• date of supply/administration</li> <li>• dose, form and route of supply/administration</li> <li>• quantity supplied/administered</li> <li>• batch number and expiry date (if applicable e.g. injections and implants)</li> <li>• advice given, including advice given if excluded or declines treatment</li> <li>• details of any adverse drug reactions and actions taken</li> <li>• Confirm whether <u>supplied and/or administered</u> and that this was done via Patient Group Direction (PGD)</li> </ul> <p>Records should be signed and dated (or a password controlled e-records). All records should be clear, legible and contemporaneous.</p> <ul style="list-style-type: none"> <li>• If you are not recording in ePMA (or other 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.</li> </ul>

## 6. Key references

<b>Key references</b>	<ul style="list-style-type: none"> <li>- Electronic Medicines Compendium <a href="http://www.medicines.org.uk/">http://www.medicines.org.uk/</a></li> <li>- Electronic BNF <a href="https://bnf.nice.org.uk/">https://bnf.nice.org.uk/</a></li> <li>- NICE Medicines practice guideline "Patient Group Directions" <a href="https://www.nice.org.uk/guidance/mpg2">https://www.nice.org.uk/guidance/mpg2</a></li> <li>• - <a href="https://medusa.wales.nhs.uk">https://medusa.wales.nhs.uk</a></li> </ul>
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## 7. Registered health professional authorisation sheet

**PGD Name [version]:** Cancer Heparin Sodium 50units/5ml injection [v1]  
**PGD ref:** UHDB232

**Valid from:** 15/12/2022

**Expiry date:** 14/12/2025

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.