

# **Pharmacy Purchasing for Safety Policy**

(For licensed and unlicensed medicines)

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#### Review

# 2019:

- 4.3 Change in titles of staff responsible for policy
- Supporting references and monitoring table updated
- Updated appendix 1

# **KEY WORDS**

Purchasing, medicines, safety, unlicensed medicines, procurement, drugs

#### 1 Introduction

- 1.1 This document sets out the Policy of the Pharmacy Department within University Hospitals of Leicester (UHL) NHS Trust for the safe purchase of medicines
- 1.2 The use of all medicines carries the risk of a patient safety incident (such as inappropriate reconstitution or administration) as well as the more usually considered adverse events such as side effects. These risks can and should be minimised.
- 1.3 To enable this it is essential that all risks are identified and assessed and action taken to minimise the possibility of a patient safety incident.
- 1.4 Part of this process is to ensure that the procurement of medicines provides so far as is possible medicines which are of suitable quality, and are safe in use i.e. prescribing, dispensing, preparation, administration and disposal.
- 1.5 Moreover it is essential that the procurement process assesses the capabilities of the upstream supply chain to ensure products are genuine, stored correctly and available when required.
- 1.6 Risk assessment is at the core of any safety policy. A risk assessment should be undertaken by staff with a full understanding of the purpose and end use of the product being procured.
- 1.7 Risks should be identified and minimised, reporting systems should be available and acted upon, and if normal sources are not available (e.g. in a shortage situation) then alternatives need to be assessed in the light of the increased risk they may present to patients. Please refer to Pharmacy SOP 503 Process for Handling Drug Shortages available on INsite.
- 1.8 If a product is assessed locally as a high risk of causing a patient safety incident this should be reported to regional quality assurance, (QA) and procurement specialists. These products can then form the basis of discussion with the manufacturers about possible changes in presentation.

#### 2 POLICY SCOPE

- 2.1 The policy applies to all pharmacy staff involved in purchasing or assessing the use of medicines.
- 2.2 This policy covers the procurement of licensed and unlicensed medicines and any medical devices which are purchased via the Pharmacy Purchasing Office for UHL Pharmacy & TrustMed Pharmacy.

#### 3 DEFINITIONS

#### 3.1 Licensed Medicine

A medicinal product which has been issued with a Marketing Authorisation (formerly known as a Product License) by the Medicines and Healthcare Products Regulatory Agency (MHRA).

# 3.2 NHS Commercial Medicines Unit (CMU)

The CMU sits within the Specialised Commissioning Directorate of NHS England and works on behalf of the NHS to look at the supply and procurement of medicines in hospitals. In particular it works with pharmacists and suppliers to gather and analyse the money spent on secondary care medicines.

#### 3.3 Pharmaceutical Quality Assessment (PQA)

This assessment is aimed at ensuring the medicine meets the technical specification and is of appropriate quality. The assessment also incorporates a PQA score. This element of the assessment process is designed to identify the areas of risk associated with the

medicines' labelling and packaging, including user information e.g. Patient information leaflets (PIL) and technical data.

#### 3.4 Unlicensed Medicine

A medicinal product which has not been given a Marketing Authorisation but is available for clinical use, and which may not be subject to the same stringent controls, quality and safety assessments as those products with a licence.

#### 4 ROLES AND RESPONSIBILITIES

- 4.1 The executive lead responsible for this policy is the **Medical Director**
- 4.2 **The Chief Pharmacist** is designated as having overall responsibility for controlling the procurement and supply of medicines throughout the Trust ensuring that
  - a) all relevant staff are aware of this policy
  - b) there are mechanisms in place for providing assurance that the policy is followed.
- 4.3 The Deputy Chief Pharmacist Medicines Optimisation and the Principal Pharmacy Technician Business Services are responsible for ensuring that the policy is followed when purchasing medicines and that all necessary risk assessments have been completed.
- 4.4 Clinical Management Group (CMG) lead pharmacists and other advanced specialist pharmacists working with Medicines Information staff will support the safe introduction of a new medicine within their CMG.

#### 4.5 **Pharmacy staff**

All staff have a duty to follow this policy and report any concerns which may impact on the safety of patients.

#### 5 Policy Implementation and Associated Documents

#### 5.1 Components of safety

Risk assessments should take account of the following factors

- Quality of Products
- Design and Use of Products (e.g. ready-to-use and ready-to-administer products)
- Labelling and Packaging of Products
- Source of Products and Materials
- Treatment of Product within Supply Chain
- Product delivery into the pharmacy
- Product storage within the hospital
- Product distribution.

#### 5.2 Licensing

- a) The default position should always be that a ready-to-use or ready-to-administer medicine with a product licence (or a devices licence) issued by the MHRA should be used in preference to an unlicensed product
- b) Exceptions may occur for some high risk products, for example licensed 'concentrate' products requiring complex calculations or manipulations prior to dilution or reconstitution in clinical areas before they can be administered to patients may not be safer in use than unlicensed ready-to-use or ready-to-administer formulations of the same medicine.
- c) If an unlicensed formulation has to be used then it should be procured under a bespoke procedure for unlicensed medicines that takes into account the increased risks with

these types of products and that responsibility for their use lies with the Trust (see Unlicensed Medicines Policy B29/2004)

#### 5.3 Products on NHS contracts

- a) All medicines on contract have a product licence and all medical devices on contract are CE marked, unless the contract is specifically for unlicensed medicines. Generic medicines that are tendered for NHS contracts are assessed by NHS Pharmacy QA staff according to an assessment tool developed by the National NHS QA Committee and given a PQA score which reflects suitability for use and potential for medication error. (For example the clarity of the labelling, the suitability for use, the availability of patient information etc.) Branded medicines are not currently assessed unless offered on a generics contract.
- b) The assessment tool can be obtained from the regional QA pharmacist. The assessments are available on the PharmaQC database.
- c) Assessed products present a known risk and should be used in preference to those not assessed (and consequently presenting an unknown risk).
- d) Purchasing "off contract" should only be undertaken with caution and risk assessment. The PharmaQC database contains details of assessments and should be used to decide on suitable alternatives to contract lines, should these be unavailable.

# 5.4 Reporting Systems

- a) Systems for reporting patient safety incidents and defects in medicine and medical devices exist both within the trust and external to it.
- b) Internal incidents must be reported using the Trust Incident reporting systems, Datix web.
- c) See appendix 1 for external reporting schemes.

#### 5.5 Source of Products

- Trusted and appropriate sources of supply should be used by procurement to ensure the suitability of products purchased can be assured and the possibility of counterfeit or damaged medicines being purchased minimised
- b) Suppliers and wholesalers are required to hold an appropriate licence from the MHRA and this should be checked for authenticity. NHS CMU holds a list of suppliers who hold or have successfully held a CMU contract.
- c) The database (NHS SID) is held on the CMU website. Pharmacy QA and procurement staff are able to inspect potential pharmaceutical suppliers and these reports can be used to assess new suppliers.
- d) Pharmacy procurement specialists can give advice about potential new suppliers. The entire upstream supply chain should be included in these assessment processes as several links may be involved in obtaining the medicine.

#### 5.6 "Ready-to-Use"/ "Ready to Administer"

- a) Although many medicines are licensed and come from a suitable supplier there may be differences in the presentation.
- b) Risk assessment should involve the complete use of the medicine. That is the identification, reconstitution, administration and disposal in the clinical settings in which it is used. This is important for all medicines but particularly those that have been identified as representing a high risk under the NPSA (National Patient Safety Agency now part of NHS Improvement) assessment guidance.

- Medicines which represent the minimum risk throughout the whole of this process should be preferred.
- d) Where possible higher risk products should be prepared (e.g. reconstituted) either in house by the Pharmacy Manufacturing Unit or by commissioning a (licensed and suitable) manufacturer to prepare the medicine in a suitable format to minimise the risk.
- e) If gaps in this risk process are identified the products involved should be reported to the regional procurement specialist who can compile lists of these products and engage industrial solutions where possible.

#### 5.7 Delivery and Storage Arrangements

- a) All the above points concentrate on the "external" supply chain. That is the part of the supply chain outside the Trust.
- b) It is equally important though to ensure that the "internal" supply chain is robust and fit for purpose; that is the arrangements ensure products are available, fit for purpose when they are required for patients.
- c) The Safe and Secure Handling of Medicines (revised Duthie report, published by the Royal Pharmaceutical Society of Great Britain and available on their website at www.rpharms.com) covers the requirements of the internal supply chain and storage and distribution arrangements should comply with this document.

#### 5.8 Procedure

a) All new medicines to the Trust must go through the process of a risk assessment alongside the submission to the Therapeutic Advisory Service (TAS) and at the time of completion of the New Product Request Form. The risk assessment form to be used is included as Appendix 2.

Additional risk assessments are required as follows:

- All new unlicensed preparations must be assessed following the Policy for Unlicensed Medicines (Trust ref B29/2004). Refer to the Chief Pharmacy Technician for Unlicensed Medicines and Senior Pharmacy Technician for Unlicensed Medicines.
- All new injectable products must have a NPSA risk assessment carried out by the CMG lead pharmacist from the main directorate requesting the product. (Appendix 3)
- b) The results of all risk assessments to be recorded on a central database (register) held by the Pharmacy Department. Products assessed as High Risk to be referred to the monthly Pharmacy Quality & Safety Board for approval of mitigating actions.
- c) Alternative products/ presentations must be sourced, if available, for high risk products or risk reduction management strategies identified and ready for implementation prior to procurement and approval from Therapeutic Advisory Service (TAS).
- d) Decisions made by the Pharmacy Quality & Safety Board about purchasing and risk reduction strategies must be documented on the risk assessment documented and filed in the central database (see 5.8b)

#### 5.9. Suggested Actions for High Risk Rated Products

- Purchase a safer alternative where possible.
- Identify any risk reduction measures e.g. issue "caution in use".
- Advise end users to perform a local risk assessment on the product.
- Change local practice if necessary (e.g. storage in different locations, ward briefings etc)

 Monitor effectiveness of risk management measures using local error reporting mechanisms.

#### 6 EDUCATION AND TRAINING REQUIREMENTS

6.1 All relevant staff must have read and understood this policy and the procedures therein.

#### 7 PROCESS FOR MONITORING COMPLIANCE

The following table lists the monitoring arrangements for this policy:

Element to be monitored	Lead	Tool	Frequency	Reporting arrangements
Datix Incidents relating to medication errors due to procurement	Chief Pharmacy Technician Quality & Safety	Datix	Monthly	Pharmacy Quality & Safety Board & Medicines Optimisation Committee

#### 8 EQUALITY IMPACT ASSESSMENT

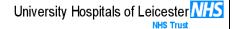
- 8.1 The Trust recognises the diversity of the local community it serves. Our aim therefore is to provide a safe environment free from discrimination and treat all individuals fairly with dignity and appropriately according to their needs.
- 8.2 As part of its development, this policy and its impact on equality have been reviewed and no detriment was identified.

#### 9 SUPPORTING REFERENCES, EVIDENCE BASE AND RELATED POLICIES

- Unlicensed Medicines Policy B29/2004
- Leicestershire Medicines Code
- Pharmacy SOP 501 Procedure for Requesting Any New Product (Licensed & Unlicensed) to be Set Up on All Pharmacy Electronic Computer Systems
- Pharmacy SOP 503 Process for Handling Drug Shortages
- The Royal Pharmaceutical Society's Professional Guidance on the Safe & Secure Handling of Medicines

# 10 PROCESS FOR VERSION CONTROL, DOCUMENT ARCHIVING AND REVIEW

- 10.1 The updated version of the Policy will be uploaded and available through INsite Documents and the Trust's externally-accessible Freedom of Information publication scheme. It will be archived through the Trusts PAGL system
- 10.2 This Policy will be reviewed every three years or sooner in response to clinical or risk issues.



# **Error, Incident and Defect Reporting in Pharmaceuticals**

**Appendix One** 

Error reporting systems available and when to use them:

REPORTING SYSTEM	When to Use	Examples (not exhaustive list)	Report Sent To	Contact Information
MHRA Defective Medicines Reporting Centre	Suspected or actual product defect where patient safety clearly at risk	Serious unexpected reaction. Severe, visible microbial or particulate contamination. Suspected counterfeit product.	MHRA Defective Medicines Reporting Centre	Office Hours 020 7084 2574 020 7084 2676 (Fax) Weekends, Public Holidays, Night 020 7210 5371 (to contact duty officer)
Minor Defect Reporting Scheme	Minor product defects which are batch specific, with no immediate severe risk to patient safety	Empty blister in strip. Missing batch number or expiry date.	Inform manufacturer. Complete minor defect reporting form and send to regional Quality Assurance service.	London, Eastern & South East, Specialist Pharmacy Services, Quality Assurance, Guys Hospital, SE1 9RT, Fax: 0207 1885 041 OR Rob Lowe, QA Specialist Pharmacist, University of East Anglia, Robert.lowe@uea.ac.uk
CMU	Issues relating to supply of medications purchased through CMU contracts.	Change in manufacturer of product supplied. Financial and contractual issues. Product acceptability issues.	Relevant CMU buyer for Trust concerned.	pharmacyqueries@dh.gsi.gov.uk See contact details for individual buyers.
Datix Incident Report	All adverse patient incidents and near misses involving medicines	Administration error, dispensing error, reconstitution error. Wrong drug, wrong dose, wrong route.	NRLS	

# Appendix 2 - Risk assessment tool

# Tool for assessing the in-use patient safety characteristics of medicines and medicinal products

Prod	ict .	Assessment completed by	Date	
Nie	Th		Accessment	Deteile/ netee
No	Themes Licensing status		Assessment	Details/ notes
A1	Does the product have a UK marketing authorisation?	Yes □→A2 No		
A2	Is it only going to be used within that marketing authorisation?	Yes □→B No		
A3	Is there a suitable product available with a marketing authorisation for the intended		Yes No	
A4	Is the anticipated use supported by a reasonable evidence base?	400:	Yes No	
A5	Is technical and patient information available in English to support the anticipated us	se?	Yes No	
A6	Do you have assurance of pharmaceutical quality? For example,		Yes No	
	<ul> <li>If the medicine is unlicensed, is the supplier of the medicine suitably licensed?</li> </ul>			
	What type of assurance process does the manufacturer have in place?			
_	Name, packaging and labelling, and other pharmaceutical issues			1
B1	Could the medicine's names be confused with those currently in existence? [Is there risk of sound alike/look-alike errors?]		Yes No	
	Is the medicine's generic name clearly identifiable in English on the packaging?		Yes No	
В3	Is other critical information also clearly identifiable in English on the packaging? (e.g product specific warnings)	g. strength, form, any	Yes No	
B4	Is the critical information above clear on all sides of the packaging as well as on the ampoule) and secondary (e.g. carton) packaging	primary (e.g.	Yes No	
B4	For branded medicines, is the generic name also suitably prominent?		Yes No	
B5	Is pharmaceutical information such as the batch number, expiry date, and storage of unambiguous on the packaging?	conditions clear and	Yes No No	
B6	Where medicines contain more than one active ingredient, are all generic constituenthe packaging?	nts clearly stated on	Yes No	
B7	Is the expression of strength on the packaging consistent with prescribing practice?	)	Yes No	
B8	Does the packaging encourage (or at the least not hinder) differentiation between a from a single supplier, or between different products from different suppliers? [Is there risk of selection errors?]	Yes No		
С	Information provided with the product			•
C1	Is an English language patient information leaflet available with the product?		Yes No	
C2	Is English language prescribing information available for the product?		Yes No	
C3	Is appropriate technical information available in English at the point of care to guide preparation, and administration?	calculations,	Yes No	
C4	Does the product information only contain positive statements about use? For examuse only" as opposed to "not for intrathecal use"	Yes No		
D	Prescribing risks			
D1	Is the product an additional treatment option, or is it replacing another product or dr	-		
D2	Are there issues associated with non-familiarity or confusion with existing treatment	s?	Yes No	
D3	Is the dosing and prescribing complex?		Yes No	
D4	Who will prescribe the item? [consider prescriber's scope of practice and processes	s involved]		
D5	Is the prescribed dose consistent with the way the strength, form, and (where applic presented?	cable) base salt are	Yes No	
E	Known risks and management			
E1	Has the item (or any similar product) been the subject of any medicines safety alert description as a never event, or inclusion in a MHRA drug safety bulletin]	s? [e.g. NPSA report,	Yes No	
E2	Is the medicine under intensive regulatory surveillance?		Yes No	
E3	Are new or amended clinical or laboratory monitoring requirements associated with the medicinal product?	the introduction of	Yes No	
E4	Is there potential for significant harm in deliberate or inadvertent overdose? If yes,		Yes No	
	Are suitable reversibility and antidote strategies available?  Are dipical management strategies in such circumstances defined?		Yes No	
E5	<ul> <li>Are clinical management strategies in such circumstances defined?</li> <li>Where necessary, is additional patient information available to support safe use of t</li> </ul>	the medicine? For	Yes No	
	example, are steroid or lithium cards present if necessary?	uie meuluile? FUi	NA 🗌	

F	Preparation, Calculation, Labelling & Information	
F1	Are there current known operator safety issues with the drug?	Yes No
	Is the medicine of a class where operator safety issues might be a concern?	Yes No
	Is the medicine subject to COSHH regulations, for example?	Yes No
F2	Is the medicine supplied to the end user in a presentation that is	
	ready-to-use (i.e. correct volume and correct strength and is ready to draw up) or	Yes No
	• ready-to-administer (i.e. in a final container ready for administration to the patient)?	Yes No
F3	In the form presented, are commonly used doses easy to measure?	Yes No
F4	If manipulation is required prior to administration,	
	• is it complex (i.e. does it have 5 or more defined steps)?	Yes No No
	does it involve any special or unusual complexities (using the contents of part ampoules or vials,	Yes No
	complex dilution or mixing with other drugs, or need to crush preparations or make other	
	extemporaneous products prior to administration)?	
F5	Is a complex calculation (i.e. has more than one step) necessary prior to preparation and/or	Yes No No
ГС	administration?	V □ N- □
F6	Does the product easily enable essential labelling to be in place at point of administration?	Yes No
G C4	Administration	V DN D
G1	Is administration of the product in any way complex?	Yes No
G2	Is the route of administration of the product intrinsically high risk (such as intrathecal)?	Yes No
G3	Does administration require the use of a device and/or disposables?	Yes No No
	If yes, are there any issues related to their use?	Yes No No
G4	For injectable medicines,	
	• is the rate of administration safety critical? If yes, what mechanisms are in place to ensure the rate is	Yes No No
	<ul> <li>correct?</li> <li>is any specific monitoring required during administration? If yes, is it practical &amp; achievable?</li> </ul>	Yes No No
Н	Supply chain issues	Tes NO
 H1	Is the product readily and reliably available from a recognised supplier?	Yes No No
H2		
	Are expiry dates (both for the product in its original form, and in-use as necessary) available and clear?	Yes No
H3	Are there any specific storage requirements? e.g. refrigeration, space (if bulky)	Yes No
H4	Are there any issues relating to secure storage? e.g. is there likelihood of misappropriation?	Yes No
H5	Overall, consider whether the storage requirements can likely be met?	Yes No No
I	Disposal	
11	Does the product pose any special risks during disposal to either the user or staff?	Yes No
12	Are there any specific disposal requirements for the product?	Yes No No
J	Impact of setting	
J1	Is the product for use in a highly specialist environment? For example in neonates, fluid restricted	Yes No No
	patients, or those in critical care scenarios.  If yes, is there the potential that it will be used outside such an environment?	Yes No
	Have issues associated with such use been identified and addressed?	Yes No
J2	Is the medicine one which is likely to be used across other boundaries of care?	
02	If yes, have issues associated with such use been identified and addressed?	Yes No No
12		
J3	Is the medicine one for which self-administration by patients is a possibility? Have any issues associated with such use been identified and addressed?	Yes No
		Yes No
J4	Where the manipulation of the product is complex, is the environment in which it is to be prepared conducive to its safe use? That is, will it be as free as possible from distractions and is it an otherwise	Yes No
	suitable environment for complex manipulation?	
K	Summary & Outcome (Committees involved; whether or not approved for use in the organisation etc)	
K1	As a consequence of the product's introduction, will any changes to practice occur?	Yes No
	If yes, are those changes likely to introduce new risks?	
	Or do they have the potential to address patient safety risks known to be present currently?	
K2	Overall, when considered against the status quo, are the risks identified in relation to the product's	Yes No No
	introduction reasonable?	
КЗ	Where it is possible to assess, are any patient safety risks outweighed by the potential clinical benefits	Yes No No
	the product offers against available alternatives?	
K4	Other comments and actions	
1		

## Appendix 3

#### SUGGESTED RISK REDUCTION METHODS THAT CAN BE USED TO MINIMISE RISKS WITH INJECTABLE MEDICINES

- 1. Simplify and rationalise the range of products and presentations of injectable medicines. Where possible, reduce the range of strengths of high-risk products and provide the most appropriate vial/ampoule sizes
- 2. Provide ready-to-administer or ready-to-use injectable products this will minimise preparation risks and simplify administration
- 3. Provide dose calculating tools for example, dosage charts for a range of body weights that eliminate the need for dose calculations
- 4. Provide additional guidance on how to prescribe, prepare and administer high-risk injectable medicines
- 5. Consider the provision of pre-printed prescriptions or stickers this will help to ensure that information on the prescription about preparation and administration of high-risk products is clearer
- 6. Provide locally approved protocols that clarify approved unlicensed and 'off-label' use of injectable medicines
- 7. Use double-checking systems an independent second check from another practitioner and/or the use of dose-checking software in 'Smart' infusion pumps and syringe drivers
- 8. Use an infusion monitoring form or checklist this will help to ensure that infusions are monitored throughout administration

# Proforma: Risk assessment summary for high and moderate-risk injectable medicines products

Name of clinical area				Di	rector	ate:								Date:	
		_		•		Ri	sk fa	ctors							
Prepared injectable medicine	Strength	Diluent	Final volume	Bag/syringe	Therapeutic risk	Use of concentrate	Complex calculation	Complex preparation	Reconstitute vial	Part/multiple container	Infusions pump or		Risk assessment	Risk reduction method(s)	Revised score
					✓	<b>√</b>	✓	✓	✓	✓	✓	✓			
Risk assessment unde	rtaken by:	Name of p	harma	cist:	,					Nan	ne of	clinic	cal p	ractitioner:	

	Risk factors	Description	✓
1	Therapeutic risk	Where there is a significant risk of patient harm if the injectable medicine is not used as intended.	
2	Use of a concentrate	Where further dilution (after reconstitution) is required before use, i.e. slow iv bolus not appropriate.	
3	Complex calculation	Any calculation with more than one step required for preparation and/or administration, e.g. microgram/kg/hour, dose unit conversion such as mg to mmol or % to mg.	
4	Complex method	More than five non-touch manipulations involved or others including syringe-to-syringe transfer, preparation of a burette, use of a filter.	
5	Reconstitution of powder in a vial	Where a dry powder has to be reconstituted with a liquid.	
6	Use of a part vial or ampoule, or use of more than one vial or ampoule	Examples: 5ml required from a 10ml vial or four x 5ml ampoules required for a single dose.	
7	Use of a pump or syringe driver	All pumps and syringe drivers require some element of calculation and therefore have potential for error and should be included in the risk factors. However it is important to note that this potential risk is considered less significant than the risks associated with not using a pump when indicated.	
8	Use of non-standard giving set/device required	Examples: light protected, low adsorption, in-line filter or air inlet.	
	Total number of product risk factors	Six or more risk factors = high-risk product (Red). Risk reduction strategies are required to minimis these risks.	е
		Three to five risk factors = moderate-risk product (Amber). Risk reduction strategies are recommendate one or two risk factors = lower-risk product (Green). Risk reduction strategies should be considered.	

# **Appendix 4**

# RISK ASSESSMENT PROCESS FOR NEW MEDICINAL PRODUCTS TO UHL

