

Continuous Local Anaesthetic Infusions for Post-Operative Pain Relief in Adults Standard Operating Procedure

V5.0

July 2026

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Data Protection Legislation

The Trust must comply with the UK GDPR, Data Protection Act 2018, and Data (Use and Access) Act 2025 by ensuring all personal data is processed lawfully, fairly, transparently, and for a defined purpose.

Before processing personal data, an appropriate Article 6 UK GDPR lawful basis must be identified and recorded. Where special category data is involved, a relevant Article 9 condition must also be documented.

All staff, contractors, students, volunteers, agency workers, and third parties working on behalf of the Trust are responsible for complying with data protection legislation.

Further guidance is available in the Trust's Information Use Framework and Information Governance policies. Advice can also be obtained from the Information Governance Team.

1. Introduction

- 1.1. Effective analgesia is crucial to patient outcome after major surgery to ensure comfort, mobilisation and decreased risk of potential post-operative complications such as DVT and chest infection.
- 1.2. As surgical techniques change and length of inpatient stay decreases, it is important to offer a safe, flexible method of analgesia which may be delivered in both a hospital and community environment if necessary.
- 1.3. Blockade of pain impulses by local anaesthetic has been shown to give effective pain relief and to decrease other methods of analgesia required – e.g. opioids with consequent decrease of side effects.
- 1.4. This document outlines the potential and actual use of Local Anaesthetic within RCHT and the precautions and care required.

2. Purpose of this guideline

- 2.1. To ensure that there is a common understanding of use of local anaesthetic to ensure safe delivery of care by all health professionals involved in the care of post-operative patients.
- 2.2. To ensure that the necessary knowledge and competencies are practised throughout the Trust for delivery and care of the patient, knowledge of the drugs, potential side effects and use of any equipment delivering infusions.
- 2.3. To ensure that appropriate training in line with RCHT policies should be undertaken by those using the equipment or delivering bolus injections.
- 2.4. This version supersedes any previous versions of this document.

3. Ownership and Responsibilities

3.1. Medical Staff

- 3.1.1. Local anaesthetic blocks are usually delivered by medical staff competent in the technique of nerve blockade either as a single injection or catheter placement for continuous infusion.
- 3.1.2. It would be expected that they have the appropriate knowledge of full aseptic technique, intravenous cannulation and resuscitation skills as per RCHT guidelines, as well as knowledge of the relevant anatomy and the drugs being used, together with treatment of side effects.

3.2. Medical Prescribers

- 3.2.1. Should be able to prescribe clearly in line with guidelines stating:
 - The total dosage in mg/24 hours.
 - The volume.

- The concentration to be delivered together with administration times e.g. hourly or as a timed bolus dose.

3.2.2. BNF dosing for Levobupivacaine can be summarised as:

Bolus: 2 mg/kg. Maximum 150mg

Cumulative dose: Maximum 400mg/day

3.2.3. To avoid excessive dosage in obese patients, dose should be calculated on the basis of ideal body weight.

3.2.4. Prescribing teams should review all prescriptions regularly, together with the pain scores and analgesic needs of the patient.

3.3. Nursing Staff

3.3.1. Nursing staff should be responsible for the timely delivery of analgesia as prescribed – this may include changing an infusion.

3.3.2. Nursing staff are responsible for the ongoing monitoring of pain scores on rest and movement, motor power and sensation and signs of local anaesthetic toxicity as well as the vital monitoring signs of pulse and respiratory rates, oxygen saturation and BP.

3.3.3. Adverse reactions should be reported to the prescriber or doctor on the ward and further instruction on administration received.

3.3.4. Nurses should contact the Acute Pain Team for further advice if required bleep 3233 during the working week or the anaesthetist on call out of hours. (1st on call Bleep 2746, Senior Anaesthetic Trainee 3513).

3.4. Pharmacists

As part of the regular monitoring, pharmacists should ensure adherence to guidelines with regards to appropriateness, accuracy, safety and clarity of prescribing.

4. Standards and Practice

4.1. Definition

4.1.1. A peripheral nerve is one which lies outside of the central neural canal (i.e. excludes epidural and spinal blockade).

4.1.2. A continuous peripheral nerve blockade is achieved by placing a fine catheter close to a nerve or nerve receptors and infusing a solution of local anaesthetic either at an hourly rate or as prescribed bolus doses. The presence of the catheter allows the block to continue for a number of days post-surgery, thereby improving patient analgesia, and lessening the need for more invasive blocks or strong opiates.

- 4.1.3. Infusion rates will depend on the area being blocked and the expected rate of absorption from that area (depending on vascularity).
- 4.1.4. More than one nerve may supply an area and therefore this technique usually requires adjunct analgesia to avoid discomfort. Where there is major surgery which requires strong opioids, the total dose and risk of opioid side effects will be less.

4.2. Clinical Decision making

4.2.1. Indications

- Patients expected to experience pain after surgery.
- As an alternative to epidural analgesia.
- As part of a multimodal approach to analgesia to decrease opiate requirements, avoid urinary catheterisation and potentiate more rapid mobilisation.

4.2.2. Contraindications

- Patient refusal.
- Previous adverse effects with local anaesthetics.
- Superficial infection at site of potential insertion.
- Inadequate knowledge to perform block.
- Inadequately experienced ward staff to care for patient post operatively.
- Bleeding disorders.

4.3. Guidelines for Catheter Insertion

- 4.3.1. Catheters should only be placed adjacent to nerves by experienced practitioners with knowledge of the relevant anatomy and an acceptable method for nerve location - electrical stimulation or ultrasound.
- 4.3.2. The patient should have had prior discussion of the technique and the potential complications of nerve damage and local anaesthetics effects.
- 4.3.3. Catheter insertion and consequent injection of local anaesthetic should be performed in a suitable environment where an aseptic technique can be performed and where there are adequate resuscitation facilities.
- 4.3.4. The choice of the catheter rests with the operator – nerve stimulator/ catheter specific sets are available, but the use of epidural catheters is acceptable.

- 4.3.5. Aseptic technique should include hand washing, sterile gloves, face mask and an appropriate skin cleansing preparation and sterile drapes around the injection site.
- 4.3.6. A trained assistant should be present to help with the trolley preparation, location of nerve and consequent insertion.
- 4.3.7. Where chlorhexidine 0.5% is used drying time should be allowed prior to insertion of any needle or catheter (1 to 2 minutes).
- 4.3.8. Insertion of catheters may have less associated risks if performed in the awake patient although, many patients prefer to be asleep for the procedure. They should be made aware of the potentially slightly increased risk of detection of neural damage.
- 4.3.9. The catheter should be inserted to a reasonable depth percutaneously prior to being secured to minimise movement – current use of the 'lock it' device and covered by a clear dressing allows visibility of insertion site
- 4.3.10. Where long term use is required or placement is in a mobile area tunnelling the catheter superficially may be considered.
- 4.3.11. Operators should be aware of local infection guidelines (including the use of antibiotics in special circumstances).
- 4.3.12. Operators should be aware of potential hazards in respect of insertion and removal in patients on anticoagulants or with impaired clotting.
- 4.3.13. Operators should be aware of the monitoring guidelines and be confident that the ward has adequate staff prior to the commencement of the procedure.

4.4. Prescribing Guidelines

- 4.4.1. Prior to the initiation of the infusion the operator will consider the suitability of the patient for specific infusions based on:
 - Age and physiology.
 - Risk versus benefit.
 - Effectiveness of analgesia with respect to type of surgery.
 - Specific contraindications.
- 4.4.2. All patients must have iv access maintained for the duration of the infusion and the infusion device and catheter must be clearly labelled 'Local Infusion' and the site to which it is attached.
- 4.4.3. Infusions should be prepared in a sterile environment or pre prepared where possible.

- 4.4.4. There are limitations on the drugs and concentrations which should be infused to ensure decreased risk of local anaesthetic toxicity.
- 4.4.5. All drug infusions should take account of patient weight and the recommended safe dose in mg/Kg as per BNF.
- 4.4.6. When prescribing the local anaesthetic drug the following information should be provided:
- Name of drug.
 - Site of catheter where drug is to be infused.
 - Concentration of solution being infused in % and mg/ml.
 - Hourly rate or frequency of bolus of required.
 - Maximum dose not to be exceeded over a 24 hour period – in ml and total no of mg.
- 4.4.7. 0.125% (i.e. 1.25 mg per ml) 200ml bags of Levobupivacaine may be available for local anaesthetic infusions.
- 4.4.8. Sterile 10 ml ampoules of Levobupivacaine are available in concentrations of 0.25% and 0.5% (i.e. 2.5 and 5 mg /ml respectively) and can be diluted.
- 4.4.9. The upper recommended dose of bupivacaine as an initial loading dose is 2 mg/kg (lean body mass). Caution is advised dosing per kg actual body weight in morbid obesity – a pragmatic ceiling loading dose of 180mg is probably sensible in all but the most muscular of patients.
- 4.4.10. Maintenance doses as hourly rates of infusion should not normally exceed 0.5mg/kg/hr, or 2mg/kg at 4 to 6 hourly top ups.
- 4.4.11. BNF recommend a total dose of levobupivacaine per 24 hours period is 400mg.

This equates to:

80 ml/24 hours of 0.5 %	maximum rate	3ml/hr
160 ml/24 hours of 0.25%	maximum rate	6ml/hr
240ml/24 hours of 0.167%	maximum rate	10ml/hr
320ml/24 hours of 0.125%	maximum rate	13.3ml/hr
400ml/24 hours of 0.1%	maximum rate	16ml/hr

- 4.4.12. Dilute solutions are found to be effective for analgesia and concentrations over 0.25% are not usually necessary.

- 4.4.13. Very large volumes could cause swelling and catheter displacement and leakage in more superficially placed catheters.
- 4.4.14. Infusion rates should rarely be over 5 ml per hour. If a larger volume is required, the concentration should be decreased accordingly. This may be applicable for fascial plane catheters such as Erector Spinae Plane, Fascia Iliaca, and Serratus Anterior Plane.
- 4.4.15. For specific operations or conditions, there may be bilateral catheters inserted e.g., rectus sheath blocks for a laparotomy; bilateral mastectomies or hernias, when care should be taken to ensure that the sum of each catheter infusate does not exceed the total hourly recommended amount.
- 4.4.16. A range of rate of infusion should be prescribed together with the necessary supportive therapy such as oxygen according to the Trust guidelines and potential fluid bolus should hypotension occur.
- 4.4.17. IV, IM or oral opioids may be simultaneously administered without additional risks in line with RCHT policies for opiate administration.
- 4.4.18. The pain scores should be 0 or 1 on movement and 0 at rest.
- 4.4.19. A range of rate of infusion should be prescribed together with the necessary supportive therapy such as oxygen according to the Trust guidelines and potential fluid bolus should hypotension occur.

4.5. Local Anaesthetic infusion Devices

- 4.5.1. Local anaesthetic can be delivered via a catheter using a variety of devices:
- Specific Infusion Pump with a variety of protocols (for indefinite time period).
 - Disposable elastomeric pump with pre-determined infusion rate (for up to 48 hours).
 - Bolus dose administration by medical or nursing staff.
 - McKinley Local Anaesthetic Infusion pumps. There are specifically labelled McKinley 295 pumps for attachment to nerve catheters

Table 3: These have 3 protocols available, as below

Levobupivacaine	Infusion rate	Programmed bolus	Patient controlled bolus
Simple Infusion: Protocol S	(0.5% : max 3ml/hr) (0.25%: max 6ml/hr)	None	None

Levobupivacaine	Infusion rate	Programmed bolus	Patient controlled bolus
	0.125%: max 13ml/hr		
Plane block catheters: Protocol T 0.125% L-Bupivacaine	none	15ml / 3 hours	10ml hourly

4.6. Observations and Monitoring

- 4.6.1. All patients receiving an infusion of local anaesthetic should be monitored for sensation, motor power and signs of toxicity and the observations recorded with other vital signs on the NEWS chart.
- 4.6.2. Nursing staff must be aware of the potential side effects and complications of local anaesthesia and their management. It is assumed that nurses with training for care of epidurals and knowledge of the side effects and potential signs of toxicity will be able to care for patients with local infusions.
- 4.6.3. Timely observations are necessary for the safe delivery of this method of analgesia. All observations will be recorded on the RCHT NEWS chart which combines the regular observations of vital functions (RR, BP, HR, oxygen saturation and urine output) with those more specific parameters and scores necessary for safe and effective local analgesia delivery:
- 4.6.4. Pain at rest and movement, sedation, sensation, power and signs of LA toxicity.
- 4.6.5. Scoring criteria are at the bottom of the NEWS observation chart and those scores within red area would indicate that there are potential side effects occurring and the algorithms on the reverse of the form should be referred to.
- 4.6.6. Observations should be more frequent in the first 6 hours or if the rate of infusion is changed – frequency of observations required are on the reverse of the NEWS chart.
- 4.6.7. The rate of infusion should be recorded with every observation.

Table 7: Necessary frequency of observations with no accompanying parenteral opioid

Monitoring parameter	First hour	Following 2 hours	Thereafter
Respiratory Rate	Every 15 minutes	hourly	4 hourly for 24 hours
Blood Pressure	Every 15 minutes		

Monitoring parameter	First hour	Following 2 hours	Thereafter
Heart Rate/sats	Every 15 minutes		
Pain score at rest	Every 15 minutes	Hourly	4 hourly for 24 hours
Pain score on movement	Every 15 minutes	hourly	4 hourly for 24 hours
Sedation	Every 15 minutes		4 hourly for 24 hours
Motor power	once	2 hourly	4 hourly for 24 hours
sensation	With pain scores		
LA toxicity	hourly	2 hourly	4 hourly

*If patient is stable and infusion rate remains unchanged monitor 4 hourly after this, if patient is in pain, the rate of infusion changes or the patient is in labile condition the continue with observations more frequently.

- 4.6.8. Regular monitoring of the respiratory rate should accompany the monitoring of the use of local anaesthetic particularly if it is being used in conjunction with strong opiates e.g. with a PCA as a multimodal approach when observations should be as for those patients with a PCA and epidural infusions.

Table 8: Necessary frequency of observations with LA infusion and parenteral opiates.

Monitoring parameter	First hour	Following 2 hours	Thereafter
Respiratory Rate	Every 15 minutes	Every 30 minutes	Hourly for 24 hours
Blood Pressure	Every 15 minutes	Every 30 minutes	Hourly for 12 hours, then 4 hourly if stable
Heart Rate/sats	Every 15 minutes	Every 30 minutes	Hourly for 12 hours then 4 hourly if stable
Pain score at rest	Every 15 minutes	Every 30 minutes	Hourly for 24 hours

Monitoring parameter	First hour	Following 2 hours	Thereafter
Pain score on movement	Every 15 minutes	Every 30 minutes	Hourly for 24 hours
Sedation	Every 15 minutes	Every 30 minutes	Hourly for 24 hours
Motor power	once	*Every hour	4 hourly for 24 hours
sensation	With pain scores		
LA toxicity	hourly	2 hourly	Hourly for 24 hours

4.6.9. If respiratory rate falls below 8 when local analgesia is used in conjunction with a PCA, give oxygen and follow algorithm on NEWS chart.

4.6.10. The decrease in respiratory rate is more likely to be due to the opiates if no other signs of toxicity are detected and the PCA should be temporarily stopped and observations increased.

Table 9: Recommended action for decreased respiratory rate with LA infusion and PCA.

Respiratory Rate	Action to take
≤ 10	Increase frequency of Observations.
≤ 8	Stop PCA infusion, give oxygen, observe and consider naloxone.
≤ 5	As above and give naloxone immediately and stop LA infusions.

Table 10: Naloxone mixture

400microgms of Naloxone should be diluted in 3ml of 0.9%NaCl. Give in 1 ml increments every 5 minutes. Give until respiratory rate increases to 8 and sedation score greater than 2.
Seek medical advice if respiratory rate remains low.

4.6.11. Sympathetic blockade by local anaesthetic can sometimes occur, particularly when catheter is in close proximity to sympathetic nerves or is causing vasodilation.

4.6.12. Other causes for decrease in blood pressure should be excluded before assuming they are due to the local infusion. In the event of hypotension, medical assessment should be obtained as per usual guidelines.

4.6.13. Look for other symptoms and signs of Local Anaesthetic Systemic Toxicity and treat as such if present.

Table11: Recommended Action for hypotension

Consciousness/saturation	action
Alert. Normal saturation.	Lie patient flat. Give oxygen 8 litre/min. Give fluid bolus. Do not put patient head down only if LA infusion
	Above waist.
Drowsy. Saturation less than 92%.	Lie patient flat. Do not put head down if LA infusion above waist. Give oxygen. Give fluid bolus Call for anaesthetic/critical care help

Following the administration of a bolus dose of fluid the blood pressure must be observed at 5 min intervals until increasing or for 30 minutes after stable.

4.6.14. Call for medical help if heart rate 10 to 20 below normal base rate

4.6.15. If there is a bradycardia with normal BP check level at which patient is numb

4.6.16. Look for other symptoms and signs of Local Anaesthetic Systemic Toxicity and treat as such if present.

4.6.17. Bradycardia should be treated as per up to date Advanced Life Support guidelines. If heart rate falls below 40/min or patient is compromised put out urgent response bleep or crash call.

4.6.18. Pain scores and sensation should be recorded and documented regularly with every observation when patient is awake – both at rest and on movement. If patient is asleep then this may be recorded but not for more than 3 successive observations.

4.6.19. If pain score is higher than 1 adjust rate of infusion to maximum, ensure multimodal analgesia is given and if pain continues contact medical staff for advice . N.B. Strong opiates may be given with LA infusions.

- 4.6.20. If Sedation score is greater than 2 then medical help should be sought.
- 4.6.21. Patients should be regularly checked for feelings of nausea and vomiting and all should have appropriate anti emetics prescribed as per RCHT guidelines.

4.7. Local Anaesthetic Toxicity

- 4.7.1. Local anaesthetics, if prescribed correctly, will rarely cause toxic effects, however if there is direct infusion into a vein or the solution is absorbed rapidly or a patient is unduly sensitive then the signs and symptoms of toxicity may occur.
- 4.7.2. All patients receiving an infusion of local anaesthetic should be monitored for sensation, motor power and signs of toxicity and the observations recorded with other vital signs on the NEWS chart.
- 4.7.3. Early symptoms of local anaesthetic systemic toxicity include perioral tingling, metallic taste, tinnitus and dizziness. This can progress to agitation, loss of consciousness, bradycardia, tachyarrhythmias and cardiovascular collapse. Early treatment is vital.
- 4.7.4. If local anaesthetic toxicity is suspected:
- Stop the local anaesthetic infusion.
 - Treat ABC compromise if required as per Advanced Life Support protocols including CPR if indicated
 - Call for cardiac arrest trolley and Intralipid rescue from nearest site
 - Call for urgent anaesthetic support citing 'Local anaesthetic toxicity'
 - Treat as per Association of Anaesthetists of Great Britain and Ireland Quick Reference Handbook Local Anaesthetic Toxicity guideline.
- 4.7.5. All staff working with local anaesthetic infusions should be aware of the signs and treatments of LA toxicity.
- 4.7.6. All sites where local anaesthetics are used should have an Intralipid Rescue Pack and all staff involved in the care of local anaesthetic infusions should have knowledge of the location and use of the pack.
- 4.7.7. The infusion rate should be regularly checked and compared with the prescription to ensure correct rate is running and the site of infusion checked for leakage.

4.8. Catheter Management

4.8.1. Catheter Site Care

Catheters are not sutured in place and therefore may easily fall out.

Dressing changes to the catheter exit site should only be carried out by the Acute Pain team or an anaesthetist when it is necessary.

The aims are to ensure sterility and security of the system and prevent entry of bacteria into the potential space and allow visibility of the catheter.

If changing the dressing all sterile precautions should be taken in accordance with RCHT policy.

The catheter is fixed with a 'lockit clip'; removal of this clip would necessitate disconnection of the catheter and its threading through the lock it port – this should only be undertaken by trained acute pain nurses and anaesthetists as there is a high risk of catheter dislodgement.

The dressing should be smooth and there should be no kinks in the catheter.

It is the nurses' responsibility to check the catheter site regularly (e.g. twice daily) to check that the dressing is secure and remains covering the catheter.

If the dressing is insecure or there is a leak of fluid, it should be secured with additional tape and pad.

4.8.2. Catheter Line and Filter

Nursing management of the line and filter should aim to prevent disconnection of the filter from the catheter and maintain the integrity of the system as well as promoting comfort at the filter site.

Effective management of the catheter line is essential in preventing any pulling of the actual catheter and its potential dislodgement or disconnection.

If the catheter becomes disconnected or dislodged it should not usually be replaced and will usually require removal which can be undertaken by any competent health professional trained in aseptic technique. (see removal) If there is reluctance to remove the catheter and further advice is needed:

- Wrap the filter and catheter in gauze.
- Stop the infusion.
- Contact the acute pain team or the anaesthetist on call.

4.8.3. Removal of Catheters

Local anaesthetic infusion catheters can be removed by registered nurses who have been trained and assessed as competent in aseptic technique.

The catheter should be removed taking into consideration the timing of any prophylactic anticoagulation (see section 2.12) or of bleeding tendency/anticoagulation. Catheter removal early in the day will ensure sufficient time to monitor patient during working hours for any signs of haematoma at the site of entry and exit.

Catheter removal should not routinely occur unless the patient's clotting within an accepted range

It would be expected that if the bleeding history is negative that routine coagulation screening prior to removal would not be required. (FBC prior to surgery to confirm platelet count would be acceptable).

Catheters have not been fixed within the space and once the 'lock-it' is removed the catheter should be freed with minimal pressure.

If the catheter feels as if there is some resistance do not force and contact the acute pain team or the anaesthetist on call for advice.

Check the catheter after removal to ensure the entire length has been removed and that a rounded tip is present.

Procedure for Removal of Catheter:

- Wash hands as per RCHT hand hygiene policy
- Gather equipment – a small dressing and gloves
- Explain the procedure to the patient
- Position the patient comfortably where access to the catheter is easiest
- Remove the catheter slowly
- Observe the site for leakage, fluid or signs of infection.
- Check catheter to ensure tip is complete – if not contact Acute Pain Team for advice.
- Clean with NaCl 0.9% and apply adhesive dressing over site
- Check for any signs of infection such as pus or redness at site of entry – if there are any signs save the catheter tip for Culture and sensitivity and swab the insertion site.

4.9. Anticoagulants and Local Infusion Catheters

- 4.9.1. Consideration must be paid to the patients' anticoagulation status prior to catheter insertion or removal and should be in line with RCHT anticoagulation/DVT prophylaxis policy. Weighing up this decision is the responsibility of the clinician siting the catheter.

- 4.9.2. The Association of Anesthetists of Great Britain and Ireland and Regional Anaesthesia UK have produced a very useful consensus guideline on this topic (https://www.aagbi.org/sites/default/files/rapac_2013_web.pdf), which should be considered. It ranks catheter sites in order of risk, as well as giving specific timings for all the currently available anticoagulants. Risk of thrombosis due to withheld anticoagulants, and procedural urgency, versus risk of haematoma at catheter insertion/withdrawal site should be considered.
- 4.9.3. For low-risk sites (e.g. wound-site infusions and fascial plane blocks) in high risk patients (e.g. mechanical heart valve, recent PE), continuing treatment doses and removing catheter in a relatively low risk period (e.g. 18 to 20 hours after last dose and 4 to 6 hours prior to next due dose) may represent the overall lowest risk strategy. Involvement of senior decision makers and documentation of rationale is advised in such cases.
- 4.9.4. It is unlikely that removal of catheter will cause bleeding and if this is the case then local pressure should be applied for 5 minutes or until it has decreased.

4.10. Discontinuing local anaesthetic infusion.

- 4.10.1. Removal of catheter usually occurs at 3 to 5 days, depending on site. The risk of infection increases after with time. This risk may increase in immunocompromised and diabetic patients.
- 4.10.2. There may be occasions when there needs to be more prolonged analgesia. The catheter could stay in situ provided there is no leakage or sign of inflammation.
- 4.10.3. Anticipated long term LA analgesia should have a tunneled catheter inserted and advice of the acute pain team or pain consultants may be needed.
- 4.10.4. Factors to Consider Prior to Discontinuation

Severity of pain expected.

- Patient's ability to tolerate other routes of analgesia.
- It would be anticipated that this has been part of a multimodal analgesic approach therefore other analgesia has probably been administered, however if this is not the case, then analgesia must be prescribed before the infusion is stopped. Analgesia should be prescribed as regular as well as prn.
- Regular pain assessment should continue to ensure patient's pain control is well managed.

Patient preference.

- Patients or carers wishes should be taken into consideration. If a patient requests that they no longer wish to receive local anaesthetic infusions then alternative options should be discussed ensuring the patient is fully informed prior to making a choice.

5. Dissemination and Implementation

- 5.1. The document is available on the document library. Significant updates will be communicated via Trust wide email.
- 5.2. Implementation of the policy will be via Trust wide communication and supported by appropriate training for the relevant members of staff.

6. Monitoring compliance and effectiveness

Information Category	Detail of process and methodology for monitoring compliance
Element to be monitored	Appropriate patient selection and smooth process to implantation. NHSE guidelines. National neuromodulation registry (NNR) and Pain Services Implantation Database.
Lead	Neil Roberts.
Tool	https://neuromodulationregistry.org ScS RCH database – Pain Clinic.
Frequency	Monthly MDT department meeting and annual report.
Reporting arrangements	Pain Services.
Acting on recommendations and Lead(s)	Pain Services department will be responsible for making any recommendations, these will be documented within the minutes of monthly governance meeting.
Change in practice and lessons to be shared	Any changes to practice will be agreed by Pain Services MDT and relevant staff would be informed by email.

7. Updating and Review

- 7.1. The document review process is managed via the document library. Document review will be every 3 years unless best practice dictates otherwise. The author remains responsible for the policy document review. Should they no longer work in the organisation or in the relevant practice area, then an appropriate practitioner will be nominated to undertake the document review.
- 7.2. Revision activity will be recorded in the version control table to ensure robust document control measures are maintained.

8. Equality and Diversity

8.1. This document complies with the Royal Cornwall Hospitals NHS Trust service Equality and Diversity statement which can be found in the [Equality Diversity and Inclusion Policy](#) or the [Equality and Diversity website](#).

8.2. Quality and Equality Impact Assessment (QEIA)

The QEIA process allows RCHT to monitor the impact of changes to its policies and services, ensuring that nobody is unduly disadvantaged. The Quality and Equality Impact Assessment (QEIA) Form is available via the link in [Appendix 2](#).

Appendix 1. Governance Information

Information Category	Detailed Information
Document Title:	Continuous Local Anaesthetic Infusions for Post-Operative Pain Relief in Adults Standard Operating Procedure V5.0
This document replaces (exact title of previous version):	Continuous Local Anaesthetic Infusions for Post-operative Pain Relief in Adults Clinical Guideline V4.0
Date Issued / Approved:	June 2026
Date Valid From:	July 2026
Date Valid To:	July 2029
Author / Owner:	Dr Neil Roberts, Consultant Anaesthetist
Contact details:	01872 253392
Brief summary of contents:	This document outlines the potential and actual use of Local Anaesthetic with in RCHT and the precautions and care required.
Suggested Keywords:	Elastomeric device, nerve catheter, nerve block, local anaesthesia.
Target Audience:	RCHT: Yes CFT: No CIOB ICB: No
Executive Director responsible for Policy:	Chief Medical Officer
Approval route for consultation and ratification:	Anaesthetic Department
Manager confirming approval processes:	Ian McGowan
Name of Governance Lead confirming consultation and ratification:	Suzanne Atkinson
Links to key external standards:	AAGBI - Royal College of Anaesthetists. ESRA - British Pain Society.
Related Documents:	None

Information Category	Detailed Information
Training Need Identified:	No
Publication Location (refer to Policy on Policies – Approvals and Ratification):	Internet and Intranet
Document Library Folder/Sub Folder:	Clinical / Anaesthesia

Version Control Table

Date	Version Number	Summary of Changes	Changes Made by
07 January 2012	V1.0	Initial Issue.	Dr Anne Dingwall, Consultant Anaesthetist
09 February 2015	V2.0	Updated guideline. Addition of Monitoring Compliance table.	Dr Juan Graterol, Consultant Anaesthetist
09 February 2015	V2.1	Governance information moved to an appendix. EIA updated. Governance information amended to align with format of Document Manager.	Dr Juan Graterol, Consultant Anaesthetist
09 February 2015	V2.2	Updated governance information table to include KCCG.	Dr Juan Graterol, Consultant Anaesthetist
July 2019	V3.0	Updated, reviewed and new format.	Dr Nick Marshall, Consultant Anaesthetist
November 2022	V4.0	Updated, reviewed and new format.	Dr Keith Mitchell, Consultant Anaesthetist
June 2026	V5.0	Updated, reviewed, new format.	Dr Neil Roberts, Consultant Anaesthetist

All or part of this document can be released under the Freedom of Information Act 2000.

All Policies, Strategies and Operating Procedures, including Business Plans, are to be kept for the lifetime of the organisation plus six years.

This document is only valid on the day of printing.

Controlled Document.

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Appendix 2. Quality and Equality Impact Assessment (QEIA) Form

The QEIA process allows RCHT to monitor the impact of changes to its policies and services, ensuring that nobody is unduly disadvantaged.

Please ensure you have completed a Quality and Equality Impact Assessment (QEIA) using this link to complete the form:

[E11 QEIA Policy](#)

For guidance, please see the [QEIA Essentials – Quick Reference Guide](#) or contact as required below:

Equality, Diversity and Inclusion guidance, please contact: rcht.inclusion@nhs.net

Quality Governance guidance, please contact Jillian Tozer: jillian.tozer3@nhs.net