Title	LAT Gel clinical guideline	<u>C</u>
Section on CEM site	Paediatrics	Clyde
Date published	December 2023	Emergency Medicin
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## **Purpose:**

To outline a standard operating procedure for the use of Lignocaine, Adrenaline and Tetracaine gel within Clyde Emergency Departments

## Background:

- LAT gel (Lignocaine 4%, Adrenaline 0.1%, Tetracaine 0.5%) is an established topical • anaesthetic option for use in children
- It can avoid the need for distressing local anaesthetic infiltration .
- Packaged in single use 3ml bottles •
- For topical use on broken skin
- **Onset 30 minutes**
- Duration 20-60 minutes •

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indications	Contrainuications
<ul> <li>Children over 1 year</li> <li>Wounds of scalp, forehead, chin, limb or trunk</li> </ul>	<ul> <li>ANY previous reaction to local / general anaesthetic or cholinesterase deficiency</li> <li>Wound on or near mucous membrane including eye, nose, mouth or genitalia</li> <li>Wound &gt;5 cm length</li> <li>Concern about tissue viability i.e. crush/ flap</li> <li>Wound &gt; 8 hours old</li> <li>Concerns re injury to underlying structures i.e tendon, nerve, blood vessel</li> <li>Extremity wound (ear / nose / finger) discuss with ED consultant / registrar</li> <li>Heavily contaminated wounds</li> <li>Wounds deeper than subcutaneous layer (seek ED senior review)</li> </ul>

Contraindications

Dose:

- 1-2 years: Maximum = 2ml
- 3 or older: Maximum = 3ml •

Application: (see associated GGC application guide)

- Draw maximum dose as per age into syringe ۲
- Apply maximum one half of volume directly into wound with syringe 0
- Apply the remaining half of volume onto cut gauze swab, secured with Tegaderm dressing over wound
- Leave in situ for 30 minutes
- Once dressing removed, area should appear blanched
- Test for anaesthetic effect prior to procedure, suture within 15mins of dressing removal
- On occasion, LAT gel can be 'topped up' with 1% lignocaine:
- The maximum dose is 0.1ml / kg (IBW) of 1% lignocaine (An 18 kg child could receive 1.8 ml of 1% lignocaine)
- Do not repeat LAT gel application or 'top up' dose of lignocaine

LAT Gel in Paediatric lacerations: Leeds Teaching Hospitals NHS Trust. http://www.lhp.leedsth.nhs.uk/detail.aspx?id=3182 Best evidence topic review: Ferguson C, Loryman B, Body R. Topical anaesthetic versus lidocaine infiltration to allow closure of skin wounds in children. Emergency Medicine Journal 2005;22:507-509.

Use of topical wound anaesthetic - LAT Gel in the paediatric emergency department: Leicester Hospitals NHS Trust

## Women & Children's Directorate Emergency Department



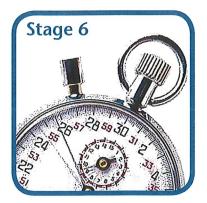
## How to Apply LAT Gel



Pour the LAT gel into a gallipot



Soak the small piece of gauze in the LAT gel



Leave in situ for 30 minutes



Take a small gauze swab







Cut a small piece of gauze which corresponds to the size of the wound



Place the gauze on top of the wound ensuring that it covers the wound edges. And cover the gauze with a Tegaderm

