

Title	LAT Gel clinical guideline
Section on CEM site	Paediatrics
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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

Indications

- **Children over 1 year**
- **Wounds of scalp, forehead, chin, limb or trunk**

Contraindications

- **ANY previous reaction to local / general anaesthetic or cholinesterase deficiency**
- **Wound on or near mucous membrane including eye, nose, mouth or genitalia**
- **Wound >5 cm length**
- **Concern about tissue viability i.e. crush/ flap**
- **Wound > 8 hours old**
- **Concerns re injury to underlying structures i.e tendon, nerve, blood vessel**
- **Extremity wound (ear / nose / finger) discuss with ED consultant / registrar**
- **Heavily contaminated wounds**
- **Wounds deeper than subcutaneous layer (seek ED senior review)**

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
- Apply maximum one half of volume directly into wound with syringe
- 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