# Use of Topical Wound Anaesthetic- LAT gel

## In the Paediatric Emergency Department

<table>
<thead>
<tr>
<th><strong>Staff relevant to:</strong></th>
<th>ED medical and nursing staff</th>
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<tr>
<td><strong>ED senior team approval date:</strong></td>
<td>Feb 2014</td>
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<td><strong>Written by:</strong></td>
<td>R Rowlands- based on currently available UK and Australian guidelines</td>
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<td>C140/2016</td>
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Lignocaine, Adrenaline and Tetracaine (LAT) Gel use in ED

Product Information
Lignocaine 4%, Tetracaine 0.5%, Adrenaline 0.1%
Provided in SINGLE use 3ml bottles
Onset 20-30 minutes
Lasts 30-60 min
For topical use on broken skin

Uses
• LAT gel is an anaesthetic gel that is safe to apply directly onto and into wounds.
  • It is suitable for children age over 1 year.
  • It is used to provide anaesthesia to allow cleaning and suturing of wounds and abrasions in children and removes the need for injectable anaesthetics.
  • Should be used for wounds of the scalp, forehead, chin, limbs or trunk.

Contraindications
• ANY previous reaction to local/ general anaesthetic or known cholinesterase deficiency
• Wound on or near mucus membrane including eye, nose or mouth.
• Wound > 5cm in length
• Concern about tissue viability i.e. crush or flap wounds
• Wounds over 8 hours old
• Obvious injury to associated structures i.e. bone, tendon, blood vessels, joint or nerve
• Wounds to the ear, nose, genitalia or digits should be discussed with a SENIOR Dr (ST4 and above) BEFORE using LAT gel.
This is due to concerns about perfusion and also due to evidence showing LESS EFFECT on extremity wounds.

Please see over for treatment pathway

Use of Topical Wound Anaesthetic- LAT gel in the PED. Rowlands. Feb 2014
Wound suitable for LAT gel

Simple laceration < 5cm in length
Child > 1 year old
Compliant child (involve play therapist if available)
Parental consent obtained (give info leaflet)
Wound < 8 hours old
Not on an extremity (see contraindications)

Simple analgesia in triage

Apply 0.1 ml/kg of LAT gel to the wound

Max dose 2ml in 1-3 years
Max dose 3ml in OVER 3’s

Apply half directly into wound and up to 1cm around, half onto gauze cut to size and placed over wound.
Cover with occlusive dressing (Tegaderm)

Wait 20-30 minutes

Remove dressing and test area to be sutured to confirm adequate analgesia

Local anaesthetic may be injected for failures but the TOTAL dose of Lignocaine must not exceed 5mg/kg.
Therefore you may inject an ADDITIONAL 0.1ml/kg of 1% Lignocaine

Wound may now be cleaned thoroughly prior to suturing
(skin that has been numbed will appear blanched)