

## **Lidocaine (topical)**

**Class:** Analgesic, Topical; Local Anesthetic

**Indications:** Rectal: Temporary relief of pain and itching due to anorectal disorders

Topical: Local anesthetic for oral mucous membrane; use in laser/cosmetic surgeries; minor burns, cuts, and abrasions of the skin

Oral topical solution (viscous): Topical anesthesia of irritated oral mucous membranes and pharyngeal tissue

Patch (Lidoderm®): Relief of allodynia (painful hypersensitivity) and chronic pain in postherpetic neuralgia

Patch (LidoPatch™): Temporary relief of localized pain

**Available dosage form in the hospital:** LIDOCAINE 10.1%+CETRIMIDE 0.07% SPRAY

LIDOCAINE 2% GEL

LIDOCAINE 2% OINTMENT

**Trade Names:**

**Dosage: Anesthesia, topical:**

*Cream:*

LidaMantle®: Skin irritation: Apply a thin film to affected area 2-3 times/day as needed

L-M-X® 4: Skin irritation: Apply up to 3-4 times daily to intact skin

L-M-X® 5: Relief of anorectal pain and itching: Apply to affected area up to 6 times/day

*Gel, ointment:* Apply to affected area  $\leq 4$  times/day as needed (maximum dose: 4.5 mg/kg, not to exceed 300 mg)

*Topical solution:* Apply 1-5 mL (40-200 mg) to affected area

*Jelly:* Maximum dose: 30 mL (600 mg) in any 12-hour period:

Anesthesia of male urethra: 5-30 mL (100-600 mg)

Anesthesia of female urethra: 3-5 mL (60-100 mg)

*Oral topical solution (viscous):*

Anesthesia of the mouth: 15 mL swished in the mouth and spit out no more frequently than every 3 hours (maximum: 8 doses per 24-hour period)

Anesthesia of the pharynx: 15 mL gargled no more frequently than every 3 hours (maximum: 8 doses per 24-hour period); may be swallowed

*Patch:*

Lidoderm®: Postherpetic neuralgia: Apply patch to most painful area. Up to 3 patches may be applied in a single application. Patch(es) may remain in place for up to 12 hours in any 24-hour period.

LidoPatch™: Pain (localized): Apply patch to painful area. Patch may remain in place for up to 12 hours in any 24-hour period. No more than 1 patch should be used in a 24-hour period.

**Common side effects:** Frequency not defined. **Note:** Adverse effects vary with formulation and extent of systemic absorption; children may be at increased risk.

Cardiovascular: Cyanosis, tachycardia

Central nervous system: Anxiety, confusion, dizziness, lethargy, lightheadedness, somnolence

Dermatologic: Angioedema, bruising (topical patch), contact dermatitis, depigmentation (topical patch), edema of the skin, itching, petechia (topical patch), pruritus, rash, urticaria

Hematologic: Methemoglobinemia

Local: Irritation (topical patch)

Neuromuscular & skeletal: Pain exacerbation (topical patch), paresthesia, weakness

Respiratory: Hypoxia

**Pregnancy Risk Factor:** B