



EMS System for Metropolitan Oklahoma City and Tulsa 2026 Medical Control Board Treatment Protocols



Approved 9/17/25, Effective 1/15/26, replaces all prior versions

16AA – LIDOCAINE VISCOUS GEL (XYLOCAINE®)

EMT-INTERMEDIATE 85

ADVANCED EMT

PARAMEDIC

Class: Topical Anesthetic

Actions/Pharmacodynamics: Lidocaine stabilizes the neuronal membrane by inhibiting the ionic fluxes required for the initiation and conduction of impulses, thereby effecting local anesthetic action. In gel formulation, additional lubricant effect is possible.

Indications: Nasotracheal Intubation (2H).

Contraindications: Known hypersensitivity to local anesthetics, amide type.

Pharmacokinetics: Onset of action within 3 - 5 minutes.

Side Effects: None expected unless amide anesthetic allergy. In this specific setting, adverse experiences are generally systemic in nature. Cardiovascular manifestations are usually depressant and are characterized by bradycardia, hypotension, and cardiovascular collapse.

Dosage: **Nasotracheal Intubation - Adult (2H)**

Apply gel to the external surface of the endotracheal tube, primarily the distal parts near the balloon cuff and the balloon cuff itself just prior to intubation. Typical use is 1-2 mL of gel.

How Supplied: 2% Viscous Gel (20 mg/mL) - available in foil packs, tubes, pre-filled syringes for topical application, and bottles.
(Always check concentration and dose per container at time of patient medication administration)

Special Comments: Care should be taken to avoid partially occluding the lumen of the endotracheal tube with gel. Do not use the gel to lubricate the endotracheal stylette. Avoid large bottles of lidocaine viscous gel. Attempts to use over multiple patients can result in gel contamination.