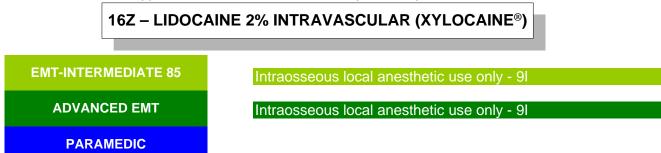


EMS System for Metropolitan Oklahoma City and Tulsa 2017 Medical Control Board Treatment Protocols



Approved 11/9/16, Effective 2/1/17, replaces all prior versions



Class: Intraosseous Local Anesthetic & Antidysrhythmic

Therapeutic Actions/Pharmacodynamics: As a local anesthetic, reduces nerve activation that carries painful stimulus from intraosseous fluid and/or medication administration. As an antidysrhythmic, suppresses ventricular automaticity, chemically converting ventricular tachycardia.

- Indications: Tachycardia Stable (5F) Wide complex tachycardia, refractory to amiodarone **OLMC Order Only Vascular Access - Intraosseous (9I)
- **Contraindications:** Narrow complex tachycardia Second degree AV Block-Type II (Classic Type) Third degree AV Block (Complete Heart Block) Premature ventricular contractions with underlying bradycardias No indication for IO anesthetic (unresponsive patients)

Pharmacokinetics: Onset of action within 3 minutes IVP/IOP. Duration for 10-20 minutes.

Side Effects: None expected in indicated dosing. Erroneous use in high degree heart blocks can lead to complete ventricular suppression/cardiac arrest.

Dosage: Tachycardia - Stable - Wide Complex Tachycardia - Adult (5F) Refactory to Amiodarone Up to 1 mg/kg, slow IVP/IOP at < 50 mg/minute **OLMC Order Only

> Tachycardia - Stable - Pediatric (5F) Consult with OLMCP for use and dosing.

Vascular Access - Intraosseous (Local Anesthetic) - Adult & Pediatric (9I) 1 mg/kg up to 40 mg IOP

How Supplied: 100 mg/5 mL (20 mg/mL of 2% lidocaine) prefilled syringe. (Always check concentration and dose per container at time of patient medication administration)