

El Dorado County Emergency Medical Services



Agency

Quick Reference

Revised Date: August 15th, 2024

Medication Profile

Lidocaine Hydrochloride (Xylocaine)

Class:

Antidysrhythmic, anesthetic

Action:

Suppresses ventricular dysrhythmias by decreasing ventricular irritability. Increases fibrillatory threshold by elevating the electrical stimulation of the ventricles. Depresses conduction in ischemic tissues. May reduce ICP. Blocks the conduction of impulses and stabilizes neural membranes thereby relieving pain.

Onset: IV/IO 45-90 seconds

Peak: Unknown

Duration: 10-20min

Adult Administration:

Post IO insertion pain: 40mg IO push. May repeat 20mg

VF/VT no pulse: 1.0-1.5mg/kg slow IV/IO push. May repeat in 3-5 minutes (Max dose 3mg/kg)

VT with pulses: 1.0-1.5mg/kg slow IV/IO push. If rhythm persists, may repeat 1mg/kg x1 in 10 minutes.

Contact base for additional doses

Pediatric Administration:

Post IO insertion: 0.5mg/kg IO push

VF/VT no pulses: 1mg/kg slow IV/IO. If rhythm persists repeat dose q 10 minutes x2 (Max dose 3mg/kg).

VT with pulses: 1mg/kg slow IV/IO. If rhythm persists, may repeat 1mg/kg x1 in 10 minutes.

Contact base for additional doses

Indications:

Pain management post IO insertion
Ventricular dysrhythmias VTach, Vfib
Post defibrillation or cardioversion of ventricular rhythms.
Alternative to Amiodarone (as needed)

Contraindications:

Hypersensitivity/allergy
High degree heart block (Mobitz II, 3rd degree)
Junctional Bradycardia
Ventricular Ectopy associated with bradycardia

Side Effects:

CV: Hypotension, bradycardia

CNS: lightheadedness, confusion, seizures

Pregnancy: Category B