

Lidocaine (Xylocaine)

McHenry Western Lake County
EMS



Objectives

- During this session we will discuss:
- Class
- Actions
- Indications
- Contraindications
- Dosing/Routes
- How supplied
- Precautions
- Side effects



Class:

- Antiarrhythmic
- Local anesthetic



Indications:

- Flush IO line in responsive patients before NS infusion



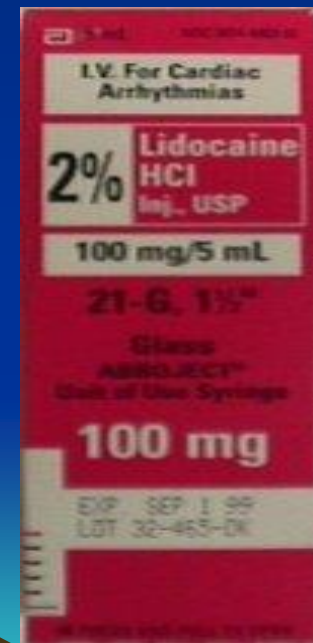
Dosing/Routes:

- Flush IO line: 1mg/kg max of 50mg push slowly before flushing line with NS.



How supplied:

100 mg/5ml preload



Contraindications:

- Hypersensitivity to “amides”, “caines”, or local anesthetics.
- Wide complex ventricular escape beats associated with bradycardia
- Severe heart blocks



Precautions:

- Simultaneous use of Lidocaine and beta blockers may cause lidocaine toxicity.
- Bradycardia and incomplete heart blocks
- Hepatic or renal failure
- Suspected recent use and toxic dose of cocaine.



Side effects/adverse reactions:

- **CNS:** Drowsiness, pares-thesias, dizziness, slurred speech, mild agitation, hearing impairment, ringing in ears, blurred or double vision, ataxia.
- High levels: Muscle tremors, seizures, resp. depression or arrest, coma.
- **CV:** ↓ BP, ↓ P, dysrhythmias, wide QRS, prolonged QT, cardiac arrest. May worsen conduction disturbances and slow ventricular rate.

- Ref: MWLCEMS Protocol and 2000 Mosby's Nursing Drug Reference Book



Case Study

- You have just started an IO on your patient that is semi conscious. What is the dose of lidocaine that should be given in the IO to relieve their pain.



Answer

- 1 mg/kg (max 50 mg) IO push slowly before flushing the line with NS.