

LIDOCAINE

Additional Names: Lidocaine CV, Xylocaine

Classification: Antidysrhythmic (class Ib), Local Anesthetic

Indications: Ventricular Arrhythmia
Local Infiltration Anesthesia prior to IO infusion

Contraindications: Known Hypersensitivity to lidocaine or amide-type local anesthetic
Congestive Heart Failure
Cardiogenic Shock
2° and 3° heart block if no pacemaker is present

Dosages: **Adult:**
Cardiac Arrest
Consider 1 mg/kg slow IV bolus over 2-3 min after defibrillation, CPR, and vasopressor administration. Repeat x 1 after 5 min for persistent VF/VT
Intraosseous Access
20-40mg IO after IO insertion for pain relief in conscious patients
Allow lidocaine 2 minutes to take effect before flushing

Side Effects: Dermatologic: edema, erythema at injection site, petechiae. Cardiovascular: hypotension

Physiological Effects: Class Ib antidysrhythmic combines with fast Na channels and inhibits recovery after repolarization, resulting in decreasing myocardial excitability

Additional Info: Constant monitoring with and EKG is essential to the proper administration of IV lidocaine.
When lidocaine is administered with other antiarrhythmic drugs such as amiodarone, phenytoin, procainamide, propranolol, or quinidine, the cardiac effects may be additive or antagonistic.