



# CHARLOTTESVILLE-ALBEMARLE RESCUE SQUAD

## Clinical Review and Training

### 2% Lidocaine (Xylocaine MPF)

**Class:** Anesthetic

#### **Indications**

**Skill Level: I/P**

- Pain control after IO placement

#### **Contraindications**

- Hypersensitivity to drug or amide type anesthetic

#### **Mechanism of Action**

- Prevents generation/conduction of nerve impulses by reducing sodium permeability and increasing action potential threshold. This inhibits depolarization resulting in blockade of nerve impulse conduction.

#### **Pharmacokinetics**

- Onset: Rapid
- Peak Effects: 5-30 minutes
- Duration: 1-1.5 hours
- Half-Life: 1.5-2 hours

#### **Side Effects**

- CNS excitation
- CNS depression
- Drowsiness
- Bradycardia
- Hypotension

#### **Dosage**

- **Adult: 40mg IO**
- **Pediatric: 0.5mg/kg IO up to 40mg max dose**

#### **Supplied**

- 20mg/ml (40mg total)