

Initial Date: 07/19/2023

Revised Date:

Section: 9-31R

## ***Lidocaine***

**Pharmacological Category:** Antiarrhythmic, anesthetic

**Routes:** IV/IO

### **Indications:**

1. Cardiac arrest from VF/VT
2. Wide complex tachycardia
3. As an anesthetic agent for IO establishment

### **Contraindications:**

1. Bradycardia or heart block

### **Expected effects:**

1. Increased VF threshold
2. Decreased ventricular irritability
3. Decreased pain with infusion

### **Dosing: ADULT CARDIAC ARREST**

Indication: Cardiac arrest V-Fib, pulseless V-Tach, or multiple AED defibrillations

#### Adults administer:

1. Lidocaine 1 mg/kg IV/IO. May repeat 0.5 mg/kg every 5-10 minutes. Total dose of 3 mg/kg

### **Dosing: ADULT TACHYCARDIA**

Indication: Regular Wide QRS rhythm (i.e., V-Tach, SVT/A-Flutter with aberrancy)

#### Adults administer:

1. Lidocaine 1 mg/kg IV. Repeat lidocaine 0.5 -1.0 mg/kg IV push every 5 - 10 minutes to a maximum of 3 mg/kg.

### **Dosing: PEDIATRIC CARDIAC ARREST**

Indication: Cardiac arrest V-Fib, pulseless V-Tach, or multiple AED defibrillations

#### Pediatrics administer:

1. Lidocaine according to MI MEDIC cards
2. If MI MEDIC cards are not available administer Lidocaine 1 mg/kg IV/IO. May repeat 0.5 mg/kg twice at 5-10 minute intervals. Maximum 3 doses total

### **Dosing: PEDIATRIC TACHYCARDIA**

Indication: For recurrent or refractory wide complex – unstable tachycardia

#### Pediatrics administer:

1. Lidocaine according to MI MEDIC cards
2. If MI MEDIC cards are not available administer Lidocaine 1 mg/kg IV/IO. May repeat 0.5 mg/kg twice at 5-10 minute intervals. Maximum 3 doses total



Bureau of Emergency  
Preparedness, EMS  
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**Michigan**  
**MEDICATION SECTION**  
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**Dosing: VASCULAR ACCESS & IV FLUID THERAPY**

Indication: Conscious patients experiencing pain with IO infusion

Adults administer:

1. Lidocaine 2%, 20 mg IO

Pediatrics administer:

1. Lidocaine 0.5 mg/kg, IO maximum dose of 20 mg

Used in the Following Protocols

General Cardiac Arrest (Section 5 Adult Cardiac)

Tachycardia (Section 5 Adult Cardiac)

Pediatric Cardiac Arrest – General (Section 6 Pediatric Cardiac)

Pediatric Tachycardia (Section 6 Pediatric Cardiac)

Vascular access & IV Fluid Therapy (Section 7 Procedures)