

HEALTHEAST MEDICAL TRANSPORTATION  
MEDICAL OPERATIONS MANUAL

**LIDOCAINE**

**Drug Classification: Antiarrhythmic, local anesthetic**

**BACKGROUND**

**Pharmacodynamics**

Blocks sodium channels, increasing the recovery period after repolarization; suppresses automaticity in the His-Purkinje system and depolarization in the ventricles.

**Indications**

- Pain with medication or fluid administration through IO.
- V-fib or V-tach arrest, if allergic to or currently taking **amiodarone (Cordarone)**.
- Pre-treatment for suspected increased intracranial pressure prior to DFAM.

**Contraindications**

- Allergy or known hypersensitivity to the medication.
- Severe degrees of SA, AV, or intraventricular block.

**Cautions**

- May cause injection site pain and/or nausea and vomiting.

**DOSAGE and ADMINISTRATION**

ADULT	PEDIATRICS (less than 60 kg)
<p><b><u>For pain management with IO</u></b></p> <ol style="list-style-type: none"><li>1. Administer 50 mg slowly IO over 2 minutes followed by a fluid flush.</li></ol>	<p><b><u>For pain management with IO</u></b></p> <ol style="list-style-type: none"><li>1. Administer 0.5 mg/kg slowly IO over 2 minutes followed by a fluid flush.</li></ol>
<p><b><u>For V-Fib or V-Tach without a pulse</u></b></p> <ol style="list-style-type: none"><li>1. Administer 1 mg/kg IV/IO.</li><li>2. Administer additional doses at 0.5 mg/kg every 5 min up to a total dose of 3 mg/kg.</li></ol>	<p><b><u>For V-Fib or V-Tach without a pulse</u></b></p> <ol style="list-style-type: none"><li>1. Administer 1 mg/kg IV/IO.</li><li>2. Administer additional doses at 0.5 mg/kg every 5 min up to a total dose of 3 mg/kg.</li></ol>
<p><b><u>For DFAM pre-treatment in suspected increased cranial pressure</u></b></p> <ol style="list-style-type: none"><li>1. 1 mg/kg IV/IO max dose 100 mg for suspected increased intracranial pressure.</li></ol>	<p><b><u>For DFAM pre-treatment in suspected increased cranial pressure</u></b></p> <ol style="list-style-type: none"><li>1 mg/kg IV/IO max dose 100 mg for suspected increased intracranial pressure.</li></ol>

**ADVERSE REACTIONS/SIDE EFFECTS**

- Seizures, cardiac arrhythmias, hypotension

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**NOTES**

**REFERENCE GUIDELINE/PROCEDURE:**

2K Ventricular Ectopy

7F1 DFAM

7R Intraosseous (IO) Access