

## ILLINOIS REGION 3 PROTOCOLS

<b>LIDOCAINE (XYLOCAINE)</b>	
<b>CLASS</b>	Antiarrhythmic
<b>ACTION</b>	<ul style="list-style-type: none"> <li>▪ Class IB antiarrhythmic agent decreases depolarization, automaticity and excitability in the ventricles during the diastolic phase by direct action on the tissues especially the Purkinje network.</li> <li>▪ Increases the ventricular fibrillation threshold making it more difficult for the heart to go into VF.</li> <li>▪ Suppresses ventricular ectopic activity</li> </ul>
<b>INDICATIONS</b>	<ul style="list-style-type: none"> <li>▪ Ventricular Tachycardia</li> <li>▪ Ventricular fibrillation</li> <li>▪ Malignant PVCs</li> </ul>
<b>CONTRAINDICATIONS</b>	<ul style="list-style-type: none"> <li>▪ Hypersensitivity to the drug or to the amide-type local anesthetics.</li> <li>▪ High degree heart blocks (2<sup>nd</sup> degree type II, 3<sup>rd</sup> degree)</li> <li>▪ Ventricular ectopy in conjunction with bradycardia</li> </ul>
<b>PRECAUTIONS</b>	<ul style="list-style-type: none"> <li>▪ Monitor level of consciousness for signs of CNS toxicity.</li> <li>▪ Consider maintenance infusion after bolus.</li> <li>▪ Maintenance infusion dosage should be reduced if over age 70, liver disease, CHF or shock.</li> </ul>
<b>SIDE EFFECTS</b>	<ul style="list-style-type: none"> <li>▪ Confusion; lethargy</li> <li>▪ Anxiety; restlessness; nervousness</li> <li>▪ Lightheadedness</li> <li>▪ Muscle twitching; seizures</li> <li>▪ Bradycardia</li> <li>▪ Hypotension</li> <li>▪ Cardiac arrhythmias</li> <li>▪ Cardiac arrest</li> </ul>
<b>ROUTE</b>	<ul style="list-style-type: none"> <li>▪ IV push</li> <li>▪ Endotracheal (ET)</li> <li>▪ IV infusion</li> </ul>
<b>DOSE</b>	<ul style="list-style-type: none"> <li>▪ 1 to 1.5 mg/kg initial dose. Repeat doses of 0.5 to 0.75 mg/kg can be repeated every 5 to 10 minutes to maximum of 3 mg.</li> <li>▪ Ventricular ectopy: 1 to 1.5 mg/kg IVP; repeat doses every 10 minutes at 0.5 to 0.75 mg/kg IVP to maximum of 3 mg/kg.</li> <li>▪ Maintenance drip: 2 to 4 mg/minute</li> </ul>
<b>PEDIATRIC DOSE</b>	<ul style="list-style-type: none"> <li>▪ 1 mg/kg – may repeat every 3 to 5 minutes to maximum of 3 mg</li> <li>▪ Utilize Broselow tape or pediatric weight based dosing chart to confirm dose</li> <li>▪ Reference policy PED-4</li> </ul>
<b>ONSET</b>	45 to 90 seconds
<b>DURATION</b>	10 to 20 minutes
<b>STOCK</b>	(3) 100 mg/5 mL Abbojects (1) Premix bag 2 grams/500 mL Normal Saline