**Lipid Rescue**

for

**Local Anesthetic Systemic Toxicity (LAST)**

In the event of a local anesthetic-induced cardiac arrest, unresponsive to standard therapy, begin CPR and administer 20% Intralipid IV as follows:

**Infuse** 20% Lipid Emulsion (values in parenthesis are for a 70 kg patient)

- **Bolus 1.5 mL/kg** (lean body mass) intravenously over 1 min (~100 mL)
- **Begin continuous infusion at 0.25 mL/kg/min** (~18 mL/min)
- Repeat bolus once or twice for persistent cardiovascular collapse
- Double the infusion rate to **0.5 mL/kg/min** if blood pressure remains low
- Continue infusion for at least **10 minutes** after attaining circulatory stability
- Recommended upper limit: approximately **10-12 mL/kg** lipid emulsion over the first 30 minutes

**Avoid** vasopressin, lidocaine calcium channel blockers, β-blockers, or local anesthetics

**Avoid** high dose epinephrine; preferably use doses < **1 mcg/kg**

**Avoid propofol** in patients with cardiovascular instability

**PRACTICE EXAMPLE**

For an adult weighing **70 kg**, you would:

- Obtain a 500ml bag of 20% Intralipid and (2) 50ml syringes
- Draw up 50ml of 20% Intralipid in each syringe and administer IV stat, x 2
- Then attach the 20% Intralipid bag to an IV administration set (macrodrip) and run IV over the next **15 minutes**
- Repeat the initial bolus twice or until the return of spontaneous circulation