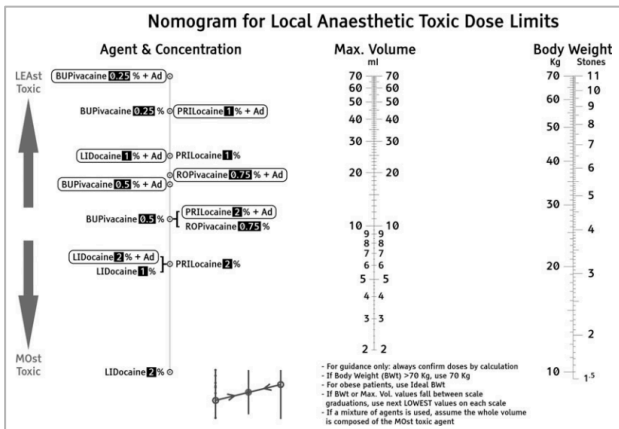


## Calculating Maximum Dose for Local Anesthetics

Williams DJ, Walker JD. A nomogram for calculating maximum dose of local anaesthetic. *Anaesthesia* 2014. PMID [24820093](https://pubmed.ncbi.nlm.nih.gov/24820093/)

### Nomogram Instructions:

- Use ideal body weight (IBW). If IBW >70 kg, use 70 kg dosing.
- If multiple local anesthetics (LAs) are used, calculate maximum dose assuming LA with greatest toxicity is used alone.
- Identify administered LA under "Agent & Concentration"
- Draw a line between LA Agent & Concentration (left) to patient's IBW (right).
- Where this line intersects "Max Volume" (center) is the maximum dose (mL) that can be safely administered to the patient.
- These numbers assume that the toxic levels are:
  - Bupivacaine 2 mg/kg, Lidocaine 3 mg/kg, Lidocaine + "Ad"renaline (also known as Epinephrine) 6 mg/kg



### Dosing of 20% INTRAVENOUS LIPID for local anesthetic toxicity

- Draw a vertical line downward from patient's IBW. Intersection of this line with the 3 other axes indicate weight-based initial bolus volume, infusion rate, and total maximum dose of intravenous lipid (20%).

