



**\*ANIMAL ER now carries Intravenous Lipid Emulsion (IVLE) therapy\*  
the most advanced antidote for several common and life-threatening animal  
overdoses/intoxications including ivermectins (heartworm), permethrin (flea/tick  
control), local anesthetics agents, baclofen and others**

The use of intravenous lipid emulsions (IVLE) has received much recent attention as an antidote for a variety of lipophilic drug intoxications in veterinary medicine. Potential toxicants that may respond to IVLE therapy include local anesthetics (such as lidocaine and bupivacaine), permethrin, muscle relaxers (such as baclofen), some anti-depressants, and avermectin parasiticides such as ivermectin.

One clinical case report in the veterinary literature documents moxidectin toxicity and the successful use of IVLE. In this case report, a puppy was exposed to moxidectin, and shortly thereafter developed vomiting, ataxia, seizures and tremors. Seizure activity was treated with intravenous diazepam but the patient became comatose and required mechanical ventilation. IVLE therapy was initiated 10 hours post exposure, and within 2 hours, the patient's condition improved to the point that he was able to be extubated and then discharged 2 days after admission to the hospital with complete resolution of the neurological signs.

**The use of IVLE has shown promise in treating these Overdoses/Intoxications:**

- Local Anesthetics
- Calcium Channel Blockers
- Avermectin Parasiticides
  - Baclofen
  - Permethrin
- Loperamide (Imodium©)
  - Bupropion
  - Sertraline

***The Veterinary Specialty Center of the Hudson Valley & ANIMAL ER***

***24 hour Emergency/Critical Care--Referral Hospital and Imaging Center  
\*Progressive Medicine. Extraordinary Care\****

Please call [845 632 3200](tel:845.632.3200) to refer a patient or visit us on our website at [www.vschv.com](http://www.vschv.com)

