

CASE REPORT

# Canine Ibuprofen Toxicity

Tufts Cummings School of Veterinary Medicine's Henry and Lois Foster Hospital for Small Animals

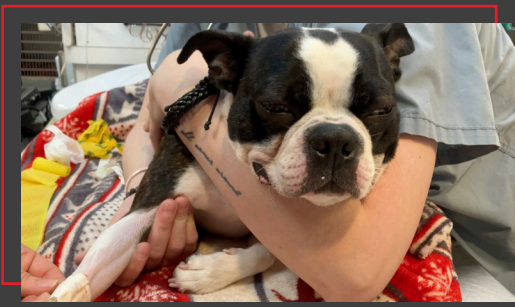
**Patient:** Reggie (2-Year-Old Boston Terrier, Male)

**History:** Owners reported waking up to an empty bottle of ibuprofen on the floor and large amounts of white foam around the house. Reggie was known to get into things he shouldn't and was found vomiting and lethargic (another dog was also in the house but appeared normal).

**Presentation & Treatment:** Reggie was stuporous upon presentation. Reggie's weight was 11.4 kg, and he consumed an estimated 27,000 mg of ibuprofen (about 2400 mg/kg), with ingestion occurring between 2-5 hours prior to arrival. Given the very high dose Reggie ingested, extracorporeal therapy (ECT) was determined to be the best course of treatment. Hemoperfusion was chosen as the preferred ECT due to its high compatibility with removing ibuprofen molecules, as well as its ease of set up and use.

**Results:** Reggie's hemoperfusion treatment lasted around 3 hours, processing a total of 15 blood volumes. After 45 minutes, Reggie was awake and starting to become more alert. After 90 minutes, Reggie was much more alert and lifting his head. At the end of the 3-hour treatment, Reggie was awake and eating treats. 4.5 hours after admission, Reggie was up and walking and continued to improve with regular medical management.

**See graph on page 2 for ibuprofen concentration measurements by blood volumes processed.**



# Ibuprofen Concentration Measurements

