Purpose
• None of the current treatments for inflammatory central nervous system disease are ideal, predictable and without possible complications. In recent years, stem cells have shown some promise as a potential treatment option for chronic inflammatory diseases; therefore, the purpose of this study is to assess the efficacy of stem cell therapy on dogs with inflammatory brain disease.

Participation Requirements
• Dogs diagnosed with inflammatory brain disease

Benefits
• The study will cover the costs for the blood, urine and CSF analyses, chest xray, abdominal ultrasound, hospitalization, MRI, stem cell administration, and visit fees.
• If this study proves to be beneficial, it may have important clinical applications for dogs and possibly humans with the same condition in the future.

Owner Responsibilities
• Keep all scheduled appointments

Procedures
• Chest xrays and abdominal ultrasound at the first visit;
• Blood and urine collection before treatment and at the 4 and 8 week recheck visits;
• MRI of the brain and/or spinal cord while under anesthesia and cerebrospinal fluid (CSF) analysis performed at the first visit, and the 4 and 8 week recheck visits;
  • Administration of stem cells either:
    • Intravenously at the initial visit and potentially at the 4 and 8 week visits (Group A); or,
    • Intravenously and directly injected into the spinal fluid at the initial visit and potentially at the 4 week and 8 week visits (Group B).
  • NOTE: Your dog will be hospitalized for 1-3 days every time stem cells are given.