



**Study Title:** Diagnostic utility of serum chemistry abnormalities for differentiating generalized tonic-clonic seizures from syncope in dogs: A prospective study

**Purpose of the Study:**

The purpose of this study is to compare blood test values between patients with seizures and fainting episodes, and to determine the duration of any observed abnormalities over a minimum 4-hour period.

**Inclusion Criteria:**

Canine patients presenting to the University of Illinois Veterinary Teaching Hospital ER service for generalized seizures or fainting episodes < 3 hours prior to presentation.

**Exclusion Criteria:**

Prior liver disease, focal seizures, generalized seizures or fainting episodes occurring > 3 hours prior to presentation.

**Incentives:**

Free neurology consultation, blood pressure, 3-lead electrocardiogram (ECG), bloodwork (IDEXX chemistry, CPK, lactate, and ammonia)

**Protocol:**

Patients will have a small sample of blood collected on admission, at 1 hour, 2 hours, and 4 hours.

**Owner Commitments:**

Patient must be hospitalized for a minimum of 4 hours to permit blood sample collection.

**Compensation:**

None.

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