**Title:** Serum vitamin D and acid base status in hyperparathyroidism: Uncovering mechanisms of post-surgical hypocalcemia

**Investigators:**
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**Study description:**
Primary hyperparathyroidism (PHPT) can be treated successfully by surgical removal or ablation of affected parathyroid glands. These procedures are relatively simple, associated with low morbidity, and require only minimal aftercare. Currently, there are no markers or indicators to determine which dogs will develop hypocalcemia following treatment, which is a serious complication that can result in excitation of the nervous system (seizures) and life threatening cardiac abnormalities. Post-procedural hypocalcemia is the most common, frustrating, and dangerous complication following treatment of PHPT in humans and dogs.

Dogs with naturally occurring hyperactive parathyroid tissue whose owners have elected treatment will be enrolled. A 4 ml blood sample will be collected once before and once after treatment, in addition to a small amount of voided urine. Case management will be handled per standard of care. Other data including activity level, dietary history, disease factors and outcome will be collected.

The study will pay for the costs of the sample collections and subsequent analysis. Owners will be responsible for all costs pertaining to their dog’s diagnosis and treatment.

**Duration of study:**
The study is currently OPEN.

**Potential benefits to veterinary medicine:**
This study has the potential to impact standard of care protocols in future patients by providing veterinarians the ability to predict the likelihood of the development of this complication and consequently intervene pre- or post-procedurally to reduce its incidence.