

## Research Note:

# Effect of Prolonged Famotidine Administration in Cats

Although proton-pump inhibitors are more effective acid suppressants as compared with H<sub>2</sub>-receptor antagonists (eg, famotidine), famotidine remains widely used in veterinary medicine. In humans, dogs, and cows, decreased efficacy of famotidine has been demonstrated with prolonged administration. This study evaluated intragastric pH and serum gastrin concentrations with twice-daily administration (group 1) compared with twice-daily, every-second-day administration (group 2) of famotidine for 14 consecutive days in 16 healthy, adult research colony cats. Results indicate that, by day 13, tolerance developed in group 1 but not in group 2. Future studies on the effects of famotidine on gastric pH in cats with inflammatory, metabolic, and/or neoplastic diseases are indicated.

### Source

Golly E, Odunayo A, Daves M, et al. The frequency of oral famotidine administration influences its effect on gastric pH in cats over time. *J Vet Intern Med.* 2019;33(2):544-550.

## Research Note:

# Refining ECG Lead Placement in Dogs

ECG lead placement in dogs is important due to the variability of chest conformation and subsequent heart position. This study measured the accuracy of right atrial and ventricular depolarization based on precordial lead V<sub>1</sub> placement in dogs with different thoracic conformations. Patients were divided into 3 groups (ie, brachymorphic, mesomorphic, dolichomorphic), and 12-lead ECG recordings were taken with precordial lead V<sub>1</sub> in 5 different positions. Right atrial and ventricular depolarization readings varied greatly according to V<sub>1</sub> location. The most consistent readings for all 3 groups came from positioning V<sub>1</sub> at the costochondral junction of the right first intercostal space. This location should be evaluated as the standard for 12-lead ECGs in dogs.

### Source

Santilli RA, Vázquez DMP, Gerou-Ferriani M, et al. Development and assessment of a novel precordial lead system for accurate detection of right atrial and ventricular depolarization in dogs with various thoracic conformations. *Am J Vet Res.* 2019;80(4):358-368.

**Right atrial and ventricular depolarization readings varied greatly according to V<sub>1</sub> location.**