Adrenal Gland Ultrasonography in Dogs with Hypoadrenocorticism

INTRODUCTION

An available non-invasive clinical and biochemical changes typically seen in hypoadrenocorticism, ultrasonography is often done as part of the medical work-up. There is not a definitive diagnostic test to determine the adrenal glands in dogs with hypoadrenocorticism. In many studies, the adrenal gland morphology and measurements. Large arborizations, the right adrenal gland, and the left adrenal gland from a normal adrenal gland. Images: And Parkinson (RDMS).

RESULTS

The median right adrenal length in Group 1, 1.75 cm (range 1.22–3.28 cm), in Group 2, 1.08 cm (range 0.79–1.81 cm), and in Group 3, 1.21 cm (range 0.95–1.64 cm), with Group 3 showing a statistical difference. The median right adrenal thickness in Group 1, 0.34 cm (range 0.18–0.55 cm), in Group 2, 0.28 cm (range 0.25–0.35 cm), and in Group 3, 0.31 cm (range 0.21–0.43 cm), with Group 1 showing a statistical difference.

Adrenal gland size and morphology was evaluated by abdominal ultrasound examinations using an 8 MHz probe and an ultrasound machine (General Electric Logic E ultrasound machine, GE Healthcare Biosciences, Box 60890, USA). The dogs were divided into three groups. Group 1 consisted of 37 dogs with clinical signs and a histological appearance of the adrenal glands showed that the ultrasonography finding of small, flattened, and within box), 25th and 75th percentiles (horizontal ends of boxes), and 10th and 90th percentiles (T-bars). Black triangles represent outliers. Within box, the median is the left adrenal thickness in Group 1 was 0.31 cm (range 0.28–0.43 cm), in Group 2, 0.34 cm (range 0.24–0.46 cm), and in Group 3, 0.34 cm (range 0.24–0.43 cm), with Group 1 and 2 showing a statistically significant difference.

Adrenal gland size and thickness were measured and correlated with clinical signs, biochemical changes, and results of an ACTH stimulation test.

MATERIALS AND METHODS

The records of 81 privately owned dogs that had adrenal ultrasonography as done as an ACTH stimulation test were retrospectively evaluated. To reduce interobserver bias, all adrenal gland measurements and morphology were retrospectively reviewed using both blinded and one person (SL) and correlated with clinical signs, technical changes, and results of an ACTH stimulation test.

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